

WÜRTH CANADA MASTER CATALOGUE

Complete Range • January 2020



A modern, curved building with a prominent red facade and large glass windows. The building is set against a blue sky with white clouds. In the foreground, there are rocks, a black lamppost, and some yellow flowers.

THE EVOLUTION OF THE BUSINESS, AFTER MORE THAN 45 YEARS

In 2016, Würth Canada celebrated 45 years of business. We are proud to be a trusted supplier and valued business partner to more than 36,000 customers in the automotive, trucking, MRO, industrial, manufacturing and construction businesses.

TABLE OF CONTENTS



01
Fasteners



02
Abrasives



03
Electrical



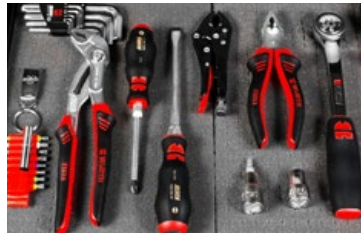
04
Cutting Tools



05
Paints & Primers



06
Safety Equipment



07
General Tools



08
Fittings, Hoses, & Tubing



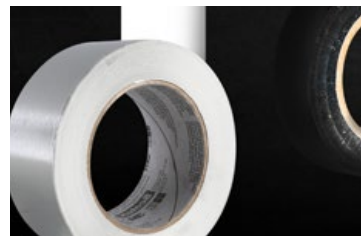
09
Equipment & Storage



10
Lighting



11
Lubricants & Greases



12
Adhesives & Tapes



13
Sealants & O-Rings



14
Rust Release



15
Cleaning & Detailing



16
Vehicle Repair



17
Welding

01 FASTENERS



5 Bolts

22 Socket Screws

30 Nuts

39 Washers

54 Screws

73 Threaded Rods & Studs

74 Rivets, Rivnuts & Accessories

84 Retaining Rings

86 Pins, Links, & Sleeves

93 Key Stock & Assortments

93 Anchors

98 Automotive Fasteners & Body Clips

101 BMW

103 Chrysler

117 Fiat

118 Ford

136 GM

170 Honda/Acura

181 Hyundai/Kia

185 Mazda

189 Mercedes-Benz

190 Mitsubishi

192 Nissan

197 Toyota/Lexus

210 Volkswagen/Audi

212 Volvo

213 General Purpose

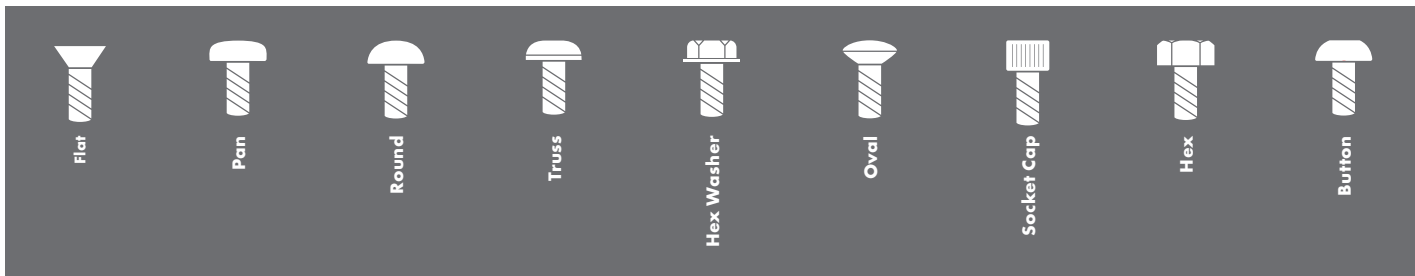
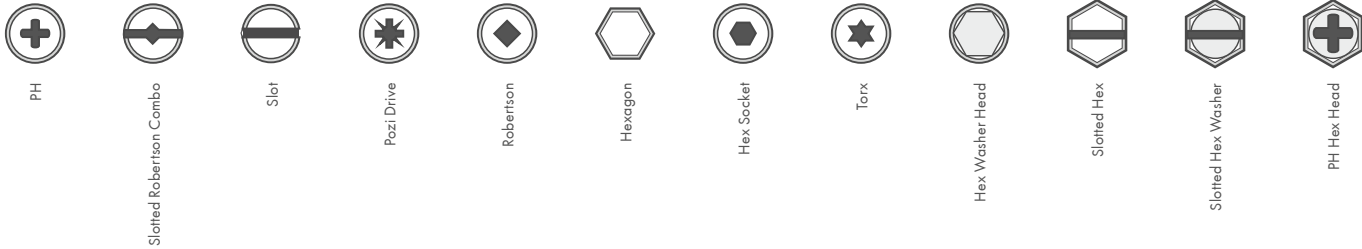
225 Hex Head Drain Plugs & Assortments

231 Automotive Assortments

235 Spring Assortments

235 Storage Options

FASTENER IDENTIFICATION

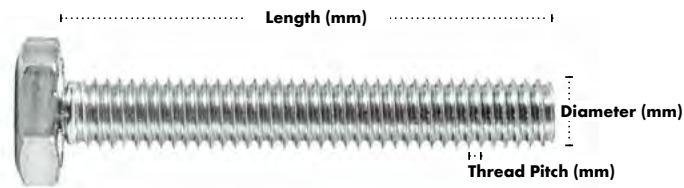


Stainless Steel

Type	Characteristics	Tensile strength	Common applications
316	Can corrode if placed in environments with insufficient Oxygen	85,000-140,000 psi Best option for High Temperature Environments	Industrial Environments using Chlorides and Sulfates (Sulfuric Acid)
301, 302, 303, 304, 305	Non-Magnetic Recognized as 18-8 18% Chromium & 8% Nickel	85,000-150,000 psi	Food, Dairy, Pulp & Paper, Pharmaceutical, Marine, Medical, etc.
400, 410, 416, 420	Magnetic	180,000-250,000 psi When Heat Treated	Mild atmospheres requiring higher tensile strengths.

Inch		Metric		
UNC	UNF	Coarse	Fine	Extra Fine
1-64	1-72	M2 x 0.4		
3-48	3-56	M2.5 x 0.45		
4-40	4-48	M3 x 0.5		
6-32	6-40	M3.5 x 0.6		
8-32	8-36	M4 x 0.7		
10-24	10-32	M5 x 0.8		
1/4-20	1/4-28	M6 x 1		
5/16-18	5/16-24	M8 x 1.25	M8 x 1.0	
3/8-16	3/8-24	M10 x 1.5	M10 x 1.25	M10 x 1.0
7/16-14	7/16-20	M12 x 1.75	M12 x 1.5	M12 1.25
1/2-13	1/2-20	M14 x 2	M14 x 1.5	M14 1.25
5/8-11	5/8-18	M16 x 2	M16 x 1.5	
3/4-10	3/4-16	M18 x 2.5	M18 x 1.5	
7/8-9	7/8-14	M20 x 2.5	M20 x 2.0	M20 x 1.5
1-8	1-14	M24 x 3	M24 x 2.0	
1-1/8-7	1-1/8-12	M30 x 3.5	M30 x 2.0	
1-1/4-7	1-1/4-12	M36 x 4		

METRIC BOLT IDENTIFICATION

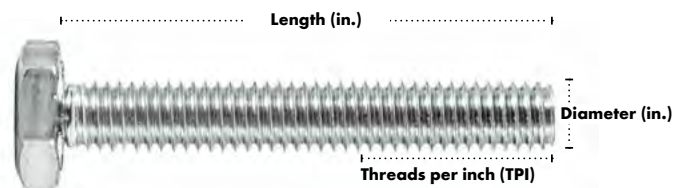


Size example: **M16** × **2.0** × **40**

D DIAMETER
P THREAD PITCH
L LENGTH

Head Marking	Standard and Class	Material	Nominal Size Range (mm)	Mechanical Properties			Imperial Approximate
				Proof Load (psi)	Min. Yield Strength (psi)	Min. Tensile Strength (psi)	
	ISO 898-1 Class 4.6	Low or Medium Carbon Steel	5mm-39mm	32,000	35,000	58,000	Grade 2
	ISO 898-1 Class 8.8	Medium Carbon Steel, Quenched and Tempered	All sizes below 16mm	84,000	93,000	116,000	Grade 5
			16mm-72mm	87,000	95,000	120,000	
	ISO 898-1 Class 10.9	Alloy Steel, Quenched and Tempered	5mm-100mm	120,000	136,000	151,000	Grade 8
	ISO 898-1 Class 12.9	Alloy Steel, Quenched and Tempered	1.6mm-100mm	140,000	159,000	177,000	A9, L9, etc.
	ISO 3506-1 A2	Stainless steel with Chromium (17-20%) and Nickel (8-13%)	All sizes through 20mm	101,000	65,000	101,000	304 (18.8)
	ISO 3506-1 A4	Stainless steel with Chromium (16-18.5%) and Nickel (10-14.4%)	All sizes through 20mm	116,000	87,000	116,000	316 (16.10)

STANDARD BOLT IDENTIFICATION



Size example: **5/8** - **11** × **4**

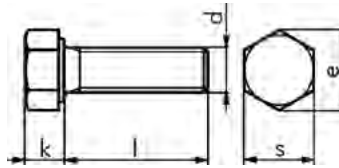
D DIAMETER
T TPI
L LENGTH

Head Marking	Specification	Material	Diameter	Mechanical Properties			Metric Approximate
				Proof Load (psi)	Yield Strength (psi)	Tensile Strength (psi)	
	SAE J429 Grade 2	Low or Medium Carbon Steel	1/4"-3/4"	55,000	57,000	74,000	Class 4.6
	ASTM A307		3/4"-1-1/2"	33,000	36,000	60,000	
	SAE J429 Grade 5	Medium Carbon Steel, Quenched and Tempered	1/4" - 1"	85,000	92,000	120,000	Class 8.8
	ASTM A449		1"-1-1/2"	74,000	81,000	105,000	
			1/4" - 1"	85,000	92,000	120,000	
			1"-1-1/2"	74,000	81,000	105,000	
	SAE J429 Grade 8	Carbon Alloy Steel, Quenched and Tempered	1/4" - 1-1/2"	120,000	130,000	150,000	Class 10.9
	ASTM A193 B8 Class 1 304 (18.8)	Stainless steel with Chromium (18-20%) and Nickel (8-11%)	All sizes through 1-1/2"	-	30,000	75,000	A2
	ASTM A193 B8M Class 1 316 (16.10)	Stainless steel with Chromium (16-18%) and Nickel (10-14%)	All sizes through 1-1/2"	-	30,000	75,000	A4

CROSS REFERENCE CHART

	Bolt	Nut	Flat	Lock	Nylon Lock Nut	KEPS Nut	Fender Washer
Gr 5 STD Coarse (USS) NC (UNC)	072	330	408 LG O.D.	442	373	327 & 328 GR2	412 & 414
Gr 5 STD Fine (SAE) NF (UNF)	071	331	409 SM O.D.	442	374	328 GR2	412 414
Gr 8 STD Coarse USS NC UNC	074	332	410 404	444	373	Stover Nuts 335	414 420
Gr 8 STD Fine UNF NF SAE	073	333	410 404	444	374	Stover Nuts 334	414 420
8.8 Metric = Gr 5 Euro/USA DIN933 (ISO 4017) FT DIN931	057 053 057.0...=YZ	317 317.0...=YZ	407 407.0...=YZ	441 441.0...=YZ	368		411
10.9 Metric = Gr 8 Euro/USA	067 068 ZN& YZ	320 324 325	402	USE STD GR8 446	370	Stover 369	
Japan/Korea 8.8 Metric	060 062		407	441			
Japan/Korea 10.9 Metric	061	315					
Machine Screws UNC/UNF	033 032	329	403	442	367	327 328	
Stainless Steel Std	076 18.8 SS 077 316 SS	340	426	426	340		413
Stainless Steel Metric	096	323	406	447	367		

METRIC HEX BOLTS



DIN 931 (ISO 4014) Partially threaded*
DIN 933 (ISO 4017) Fully threaded

Steel • Class 8.8 • Clear Zinc Plated
 Steel • Class 8.8 • Yellow Zinc Plated
 Steel • Class 10.9 • Bare
 Stainless Steel A2

Applications:

Heavy Equipment • Construction • Transportation
 • Agriculture • Timber • Locomotive • Engine •
 Alternative Energy • Mining • Manufacturing

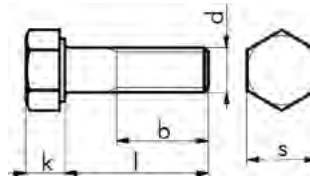
Thread Dia (d)	M3	M4	M5	M6	M7	M8	M10	M12	M14	M16	M18	M20
k in mm	2	2.8	3.5	4	5	5.3	6.4	7.5	8.8	10	11.5	12.5
e in mm	6.01	7.66	8.79	11.05	12.7	14.38	18.9	21.1	24.49	26.75	30.14	33.53
s in mm	5.5	7	8	10	11	13	17	19	22	24	27	30

Dia-Thread Pitch (d)	Length (l) mm	Steel 8.8, Clear Zinc	P. Qty.	Steel 8.8, Yellow Zinc	P. Qty.	Steel 10.9, Bare	P. Qty.	A2 Stainless	P. Qty.
M3-0.5	20	057.3..20	100						
M4-0.7	10	057.4..10	100						
	16	057.4..16	100						
	20	057.4..20	100					096.4..20	50
	25	057.4..25	100						
	30	057.4..30	100						
M5-0.8	40	057.4..40	100						
	8	057.5..8	100						
	10	057.5..10	100						
	12	057.5..12	100						
	16	057.5..16	100					096.5..16	100
	20	057.5..20	100					096.5..20	300
	25	057.5..25	100						
	30	057.5..30	50						
	35	057.5..35	50						
M6-1.0	40	057.5..40	50						
	50	057.5..50	50						
	60	057.5..60	50						
	10	057.6..10	100					096.6..10	100
	12	057.6..12	100	057.06.12	100			096.6..12	50
	16	057.6..16	100	057.06.16	50	056.6..16	100	096.6..16	50
	18	057.6..18	100						
	20	057.6..20	100			056.6..20	100	096.6..20	50
	22	057.6..22	100						
	25	057.6..25	50	057.06.25	50	056.6..25	50	096.6..25	50
	30	057.6..30	50	057.06.30	50	056.6..30	50	096.6..30	50
	35	057.6..35	50			056.6..35	50	096.6..35	50
	40	057.6..40	50	057.06.40	50	056.6..40	50	096.6..40	50
45	057.6..45	50							
50	057.6..50	50			056.6..50	50	096.6..50	50	
60	057.6..60	25							
70	057.6..70	25							
80	057.6..80	25							
M8-1.25	10	057.8..10	50						
	12	057.8..12	50						
	16	057.8..16	50	057.08.16	25	056.8..16	25	096.8..16	50
	18	057.8..18	50						
	20	057.8..20	50	057.08.20	25	056.8..20	25	096.8..20	50
	22	057.8..22	50						
	25	057.8..25	50	057.08.25	25	056.8..25	25	096.8..25	50
	30	057.8..30	50	057.08.30	25	056.8..30	25	096.8..30	50
	35	057.8..35	50	057.08.35	25	056.8..35	25	096.8..35	50
	40	057.8..40	50	057.08.40	25	056.8..40	25	096.8..40	50
	45	057.8..45	25			056.8..45	25		
	50	057.8..50	25			056.8..50	25	096.8..50	50
	55	057.8..55	25						
	60	057.8..60	25					096.8..60	50
	65	057.8..65	25						
	70	057.8..70	25						
	75	057.8..75	25						
80	057.8..80	25					096.8..80	50	
90	057.8..90	25							
100	057.8..100	25							

METRIC HEX BOLTS CONT.

Dia-Thread Pitch (d)	Length (l) mm	Steel 8.8, Clear Zinc	P. Qty.	Steel 8.8, Yellow Zinc	P. Qty.	Steel 10.9, Bare	P. Qty.	A2 Stainless	P. Qty.
M10-1.5	16	057.10.16	25					096.10.16	50
	20	057.10.20	25			056.10.20	20	096.10.20	50
	25	057.10.25	25			056.10.25	20	096.10.25	50
	30	057.10.30	25	057.010.30	25	056.10.30	20	096.10.30	25
	35	057.10.35	25			056.10.35	20	096.10.35	25
	40	057.10.40	25	057.010.40	25	056.10.40	20	096.10.40	25
	45	057.10.45	25			056.10.45	20		
	50	057.10.50	25			056.10.50	20	096.10.50	50
	60	057.10.60	25			056.10.60	10		
	65	057.10.65	25						
	70	057.10.70	20			056.10.70	10		
	80	057.10.80	20			056.10.80	10		
	90	057.10.90	20						
110	057.10.110	10							
120	057.10.120	10							
M12-1.75	20	057.12.20	25			056.12.20	10		
	25	057.12.25	25			056.12.25	10	096.12.25	25
	30	057.12.30	25			056.12.30	10	096.12.30	25
	35	057.12.35	25			056.12.35	10	096.12.35	25
	40	057.12.40	25			056.12.40	10	096.12.40	50
	45					056.12.45	10	096.12.45	25
	50	057.12.50	25			056.12.50	10	096.12.50	25
	55	057.12.55	25						
	60	057.12.60	25			056.12.60	10	096.12.60	25
	70	057.12.70	25			056.12.70	10		
	75	057.12.75	25						
	80	057.12.80	25			056.12.80	10		
	90	057.12.90	10						
100	057.12.100	10							
120	057.12.120	10							
130	057.12.130	10							
M14-2.0	20	057.14.20	20						
	25	057.14.25	20			056.14.25	10		
	30	057.14.30	20			056.14.30	10		
	35	057.14.35	20			056.14.35	10		
	40	057.14.40	20			056.14.40	10		
	50	057.14.50	20			056.14.50	10		
	60	057.14.60	20			056.14.60	10		
	70	057.14.70	20			056.14.70	10		
	80	057.14.80				056.14.80	10		
	90	057.14.90	20						
100					056.14.100	10			
M16-2.0	20	057.16.20	20						
	25	057.16.25	20						
	30	057.16.30	20			056.16.30	10		
	35	057.16.35	20			056.16.35	10		
	40	057.16.40	10			056.16.40	10		
	45	057.16.45	10			056.16.45	10		
	50	057.16.50	10			056.16.50	10		
	55	057.16.55	10						
	60	057.16.60	10						
	70	057.16.70	10						
	80	057.16.80	10			056.16.80	10		
90	057.16.90	10							
100	057.16.100	10							
140	057.16.140	10							
M18-2.5	30	057.18.30	10						
	40	057.18.40	10						
	50	057.18.50	10						
	60	057.18.60	10						
	70	057.18.70	10						
80	057.18.80	10							
M20-2.5	30	057.20.30	10						
	40	057.20.40	10						
	50	057.20.50	10			056.20.50	10		
	60	057.20.60	10			056.20.60	5		
	70	057.20.70	10						
80	057.20.80	10			056.20.80	5			
100	057.20.100	10							

METRIC HEX BOLTS



Metric Coarse Thread

DIN 931 (ISO 4014) Partially threaded
DIN 933 (ISO 4017) Fully threaded*

Steel • Class 8.8 • Clear Zinc Plated
 Steel • Class 10.9 • Yellow Zinc Plated

† Please note: May come clear
 Zinc and/or full-thread

Applications:

Heavy Equipment • Construction • Transportation
 • Agriculture • Timber • Locomotive • Engine •
 Alternative Energy • Mining • Manufacturing

Thread Dia (d)	M6	M8	M10	M12	M14	M16	M18	M20	M24
b (up to 125 mm)	18	22	26	30	34	38	42	46	54
b (over 125 mm)	24	28	32	36	40	40	44	52	60
k in mm	4	5.3	6.4	7.5	8.8	10	11.5	12.5	15
s in mm	10	13	17	19	22	24	27	30	36

Dia-Thread Pitch (d)	Length (l) mm	Steel 8.8, Clear Zinc	P. Qty.	Steel 10.9, Yellow Zinc	P. Qty.
M6-1.0	10			068.6..10*	50
	12			068.6..12*	50
	16			068.6..16*	50
	18			068.6..18*†	50
	20			068.6..20*	50
	25			068.6..25*	50
	30	053.6..30	50	068.6..30*	50
	35			068.6..35*	50
	40	053.6..40	50	068.6..40	50
	45			068.6..45	50
	50	053.6..50	50	068.6..50	50
	60			068.6..60	50
70	053.6..70	50	068.6..70	100	
80	053.6..80	50			
M8-1.25	12			068.8..12*	50
	16			068.8..16*	50
	20			068.8..20*	50
	25			068.8..25*	50
	30			068.8..30*	50
	35			068.8..35*	50
	40	053.8..40	25	068.8..40	25
	45			068.8..45	25
	50	053.8..50	25	068.8..50	25
	60	053.8..60	25	068.8..60	25
	70	053.8..70	25	068.8..70	25
	80			068.8..80	25
90	053.8..90	25			
100			068.8..100	25	
M10-1.5	16			068.10.16*	50
	20			068.10.20*	50
	25			068.10.25*	50
	30			068.10.30*	50
	35			068.10.35*	25
	40	053.10.40	25	068.10.40*	25
	45	053.10.45	25	068.10.45*	25
	50	053.10.50	25	068.10.50	25
	55	053.10.55	25	068.10.55	25
	60	053.10.60	25	068.10.60	25
	65			068.10.65	25
	70	053.10.70	10	068.10.70	25
75			068.10.75	25	
80	053.10.80	10	068.10.80	25	
90	053.10.90	10			
100	053.10.100	10	068.10.100	10	

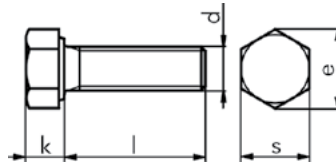
Dia-Thread Pitch (d)	Length (l) mm	Steel 8.8, Clear Zinc	P. Qty.	Steel 10.9, Yellow Zinc	P. Qty.
M12-1.75	20			068.12.20*	
	25			068.12.25*	
	30			068.12.30*	
	35			068.12.35*	
	40			068.12.40*	
	45	053.12.45	10	068.12.45*	
	50	053.12.50	10	068.12.50	
	55			068.12.55	
	60	053.12.60	10	068.12.60	
	65	053.12.65	10	068.12.65	
	70	053.12.70	10	068.12.70	
	75	053.12.75	10	068.12.75	
80	053.12.80	10	068.12.80		
90			068.12.90†		
100			068.12.100		
110			068.12.110		
120			068.12.120		
M14-2.0	25			068.14.25*	
	30			068.14.30*	
	35			068.14.35*	
	40			068.14.40*	
	45			068.14.45*	
	50	053.14.50	10	068.14.50	
	55	053.14.55	10	068.14.55	
	60	053.14.60	10	068.14.60	
	65			068.14.65	
	70			068.14.70	
	75			068.14.75	
	80	053.14.80	10	068.14.80	
90	053.14.90	10	068.14.90†		
100			068.14.100		
110			068.14.110		
120			068.14.120		
M16-2.0	30			068.16.30*	
	35			068.16.35*	
	40			068.16.40*	
	45			068.16.45*	
	50	053.16.50	10	068.16.50	
	55			068.16.55	
	60	053.16.60	10	068.16.60	
	65			068.16.65	
	70			068.16.70	
	75			068.16.75	
	80	053.16.80	10	068.16.80	
	90			068.16.90	
100			068.16.100		
110			068.16.110		
120			068.16.120		
130			068.16.130		
140			068.16.140		
160			068.16.160		

METRIC HEX BOLTS CONT.

Dia-Thread Pitch (d)	Length (l) mm	Steel 8.8, Clear Zinc	P. Qty.	Steel 10.9, Yellow Zinc	P. Qty.
M18-2.5	30			068.18.30*	10
	35			068.18.35*	
	40			068.18.40*	
	45			068.18.45*	
	50			068.18.50*	
	55			068.18.55	
	60			068.18.60	
	65			068.18.65	
	70			068.18.70	
	75			068.18.75 †	
	80			068.18.80	
M18-2.5	90			068.18.90	10
	100			068.18.100	
	130			068.18.130	
	140			068.18.140	
	160			068.18.160	

Dia-Thread Pitch (d)	Length (l) mm	Steel 8.8, Clear Zinc	P. Qty.	Steel 10.9, Yellow Zinc	P. Qty.
M20-2.5	30			068.20.30*	5
	35			068.20.35*	
	40			068.20.40*	
	45			068.20.45*	
	50			068.20.50*	
	55			068.20.55*	
	60			068.20.60	
	65			068.20.65	
	70			068.20.70	
	75			068.20.75 †	
	80			068.20.80	
	90			068.20.90	
	100			068.20.100	
	110			068.20.110	
	120			068.20.120	
	130			068.20.130	
	M24-3.0	140			
50				068.24.50*	
60				068.24.60*	
70				068.24.70	
80				068.24.80	
90				068.24.90	
100				068.24.100	
110				068.24.110	
120				068.24.120	
130				068.24.130	
140			068.24.140		
150			068.24.150		
180			068.24.180		

METRIC HEX BOLTS



Metric Fine Thread DIN 961 (ISO 8676) Fully threaded

Steel • Class 10.9 • Yellow Zinc Plated

Benefits of fine thread:

Greater self-locking • Greater tightening torque • Greater loadability

Applications:

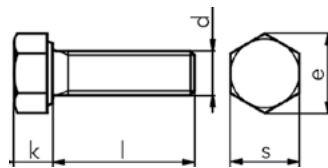
Heavy Equipment • Construction • Transportation
• Agriculture • Timber • Locomotive • Engine •
Alternative Energy • Mining • Manufacturing

Thread Dia (d)	M8	M10	M12	M14	M16	M18
k in mm	5.3	6.4	7.5	8.8	10	11.5
e in mm	22	26	30	34	38	42
s in mm	13	17	19	22	24	27

Dia-Thread Pitch (d)	Length (l) mm	Art. No.	P. Qty.
M8-1.0	20	067.8..20	25
	25	067.8..25	
	35	067.8..35	
M10-1.0	20	067.10.20	
	25	067.10.25	
	30	067.10.30	
	35	067.10.35	
	40	067.10.40	
M12-1.5	20	067.12.20	
	25	067.12.25	
	30	067.12.30	
	35	067.12.35	
	40	067.12.40	
	45	067.12.45	
	50	067.12.50	
	60	067.12.60	
80	067.12.80		

Dia-Thread Pitch (d)	Length (l) mm	Art. No.	P. Qty.
M14-1.5	25	067.14.25	10
	30	067.14.30	
	35	067.14.35	
	40	067.14.40	
	45	067.14.45	
	50	067.14.50	
M16-1.5	65	067.14.65	
	30	067.16.30	
	35	067.16.35	
	40	067.16.40	
	45	067.16.45	
	50	067.16.50	
	55	067.16.55	
	60	067.16.60	
M18-1.5	80	067.16.80	
	35	067.18.35	
	40	067.18.40	
	50	067.18.50	

METRIC REDUCED HEAD HEX BOLTS (J.I.S.)



J.I.S. B1180 Fully threaded

Steel • Class 8.8 • Clear Zinc Plated

Applications:

Asian Imports • Automotive • Motorcycles •
Manufacturing Equipment • Maintenance Equipment

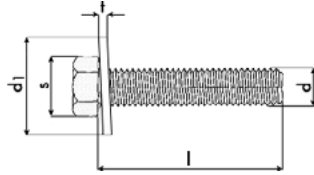


Thread Dia (d)	M8	M10	M12
k in mm	12	14	17
e in mm	6	7	8
s in mm	12	14	17

Dia-Thread Pitch (d)	Length (l) mm	Art. No.	P. Qty.
M8-1.25	12	060.8..12	25
	16	060.8..16	
	20	060.8..20	
	25	060.8..25	
	30	060.8..30	
	35	060.8..35	
	40	060.8..40	

Dia-Thread Pitch (d)	Length (l) mm	Art. No.	P. Qty.
M10-1.25	20	060.10.20	25
	25	060.10.25	
	35	060.10.35	
	40	060.10.40	
	45	060.10.45	
	50	060.10.50	
	60	060.10.60	
M12-1.25	20	060.12.20	
	25	060.12.25	
	30	060.12.30	
	40	060.12.40	
	50	060.12.50	

METRIC INDENTED HEX HEAD SEMS BOLTS



Dia-Thread Pitch (d)	Head height (mm)	s (mm)	d1 (mm)	t (mm)
M5	3.5	8	10	1
M6	4	10	12	1.5
M8	5.5	12	16	1.5
M10	7	14	20	2
M12	8	17	24	2.5

Dia-Thread Pitch (d)	Length (l) mm	Art. No.	P. Qty.
M5-0.8	16	062.5..16	50
	20	062.5..20	
	25	062.5..25	
M6-1.0	16	062.6..16	50
	20	062.6..20	
	25	062.6..25	
	35	062.6..35	
	40	062.6..40	
	50	062.6..50	
M8-1.25	12	062.8..12	25
	16	062.8..16	
	20	062.8..20	
	25	062.8..25	
	30	062.8..30	
	35	062.8..35	
	40	062.8..40	
	45	062.8..45	
	50	062.8..50	
	60	062.8..60	
M10-1.25	20	062.10..20	25
	25	062.10..25	
	35	062.10..35	
	45	062.10..45	
	50	062.10..50	
M12-1.25	60	062.10..60	20
	30	062.12..30	
	40	062.12..40	
	50	062.12..50	
	70	062.12..70	

Modified J.I.S. B1180 Fully threaded

Steel • Class 8.8 • Yellow Zinc Plated

Applications:

Asian Imports • Automotive • Motorcycles •
Manufacturing Equipment • Maintenance Equipment

Features:

SEMS Captive Free Spinning Washer



JIS Sems Bolt Assortment

Art. No. 965.062

Contents: 215 pieces

Size range: M5, M6, M8, M10, M12

Includes matching Flange Hex Nuts

* Please note a size tolerance of +/- 0.25 mm applies to all dimensions.

ASSORTMENTS



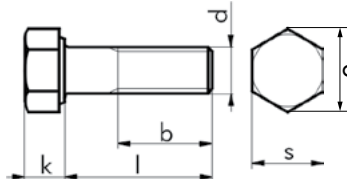
Art. No. 964.0570

Metric Hexagon Head Bolt Assortment

Grade 8.8, Clear Zinc
Dichromate, DIN 933

Contents (685 Pieces): 12 assorted sizes, size range M6-M10

STANDARD HEX BOLTS



Full/Partial Thread

- Steel • GR 5 • Clear Zinc Plated
- Steel • GR 8 • Yellow Zinc Plated
- Stainless W 18.8
- Stainless Steel 316
- *Bare

Applications:

- Heavy Equipment • Construction • Transportation
- Agriculture • Timber • Locomotive • Engine •
- Alternative Energy • Mining • Manufacturing

Thread Dia (d)	1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4	7/8	1	1-1/8	1-1/4	1-1/2
Width across flats (s)	7/16	1/2	9/16	5/8	3/4	13/16	15/16	1-1/8	1-5/16	1-1/2	1-11/16	1-7/8	2-1/4
Max. width across corners (e)	0.505	0.577	0.650	0.722	0.866	0.938	1.083	1.299	1.516	1.732	1.949	2.165	2.598
Height of head (k)	5/32	13/64	15/64	9/32	5/16	23/64	25/64	15/32	35/64	39/64	11/16	27/32	1
Thread length (b) ≤ 6"	0.750	0.875	1.000	1.125	1.250	1.375	1.500	1.750	2.000	2.250	2.500	2.750	3.250
Thread length (b) > 6"	1.000	1.125	1.250	1.375	1.500	1.625	1.750	2.000	2.250	2.500	2.750	3.000	3.500
No. of threads/inch UNC	20	18	16	14	13	12	11	10	9	8	7	7	9
No. of threads/inch UNF	28	24	24	20	20	18	18	16	14	12	12	12	12

Dia (d) in inches	length (l) in inches	Steel UNF Grade 5, Clear Zinc	P.	Steel UNC Grade 5, Clear Zinc	P.	Steel UNF Grade 8, Yellow Zinc	P.	Steel UNC Grade 8, Yellow Zinc	P.	Steel UNC, 18-8 SS	P.	Steel UNC, 316 SS	P.
1/4"	1/2	071.14.12	100	072.14.12	100	073.14.12	100	074.14.12	100	076.14.12	50	077.14.12	50
	5/8			072.14.58	100								
	3/4	071.14.34	100	072.14.34	100	073.14.34	50	074.14.34	100	076.14.34	50	077.14.34	50
	1	071.14.1	100	072.14.1	100	073.14.1	100	074.14.1	100	076.14.1	50	077.14.1	50
	1-1/4			072.14.114	100	073.14.114	100	074.14.114	100	076.14.114	50	077.14.114	50
	1-1/2	071.14.112	100	072.14.112	100	073.14.112	100	074.14.112	100	076.14.112	50	077.14.112	50
	1-3/4			072.14.134	100	073.14.134	100	074.14.134	100	076.14.134	25		
	2	071.14.2	50	072.14.2	100	073.14.2	100	074.14.2	50	076.14.2	25	077.14.2	25
	2-1/4			072.14.214	50			074.14.214	50	076.14.214	100		
	2-1/2	071.14.212	25	072.14.212	50	073.14.212	100	074.14.212	50	076.14.212	25	077.14.212	25
	2-3/4			072.14.234	50			074.14.234	50				
	3	071.14.3	25	072.14.3	50	073.14.3	25	074.14.3	25	076.14.3	25		
	3-1/4							074.14.314	50				
	3-1/2			072.14.312	25	073.14.312	25	074.14.312	25	076.14.312	10		
	3-3/4							074.14.334	25				
	4			072.14.4	25	073.14.4	25	074.14.4	25	076.14.4	10		
	4-1/2			072.14.412	25			074.14.412	10				
	5			072.14.5	25			074.14.5	10				
5-1/2							074.14.512	10					
6			072.14.6	25			074.14.6	10					
5/16	1/2	071.516.12	50	072.516.12	100	073.516.12	50	074.516.12	100	076.516.12	25		
	3/4	071.516.34	50	072.516.34	100	073.516.34	50	074.516.34	50	076.516.34	20	077.516.34	25
	1	071.516.1	50	072.516.1	100	073.516.1	50	074.516.1	100	076.516.1	25	077.516.1	25
	1-1/4	071.516.114	50	072.516.114	100	073.516.114	50	074.516.114	100	076.516.114	25	077.516.114	25
	1-1/2	071.516.112	50	072.516.112	50	073.516.112	50	074.516.112	100	076.516.112	25	077.516.112	25
	1-3/4	071.516.134	50	072.516.134	50	073.516.134	50	074.516.134	100	076.516.134	100		
	2	071.516.2	50	072.516.2	50	073.516.2	25	074.516.2	100	076.516.2	25	077.516.2	25
	2-1/4			072.516.214	50	073.516.214	25	074.516.214	50	076.516.214	100		
	2-1/2	071.516.212	25	072.516.212	50	073.516.212	25	074.516.212	50	076.516.212	10	077.516.212	10
	2-3/4			072.516.234	50			074.516.234	50	076.516.234	100		
	3	071.516.3	25	072.516.3	50	073.516.3	25	074.516.3	50	076.516.3	10	077.516.3	10
	3-1/4			072.516.314	25			074.516.314	25				
	3-1/2			072.516.312	50	073.516.312	25	074.516.312	50	076.516.312	10		
	3-3/4							074.516.334	25				
	4			072.516.4	25	073.516.4	25	074.516.4	25	076.516.4	10		
	4-1/4							074.516.414*	25				
	4-1/2			072.516.412	25			074.516.412	25				
	5			072.516.5	25			074.516.5	25				
5-1/2			072.516.512	25			074.516.512	25					
6			072.516.6	25			074.516.6	25					

Dia (d) in inches	length (l) in inches	Steel UNF Grade 5, Clear Zinc	P.	Steel UNC Grade 5, Clear Zinc	P.	Steel UNF Grade 8, Yellow Zinc	P.	Steel UNC Grade 8, Yellow Zinc	P.	Steel UNC, 18-8 SS	P.	Steel UNC, 316 SS	P.
9/16	1			072.916.1	20	073.916.1	10	074.916.1	10				
	1-1/4			072.916.114	20	073.916.114	25	074.916.114	10				
	1-1/2			072.916.112	20	073.916.112	10	074.916.112	10				
	1-3/4			072.916.134	20	073.916.134	10	074.916.134	10				
	2			072.916.2	20	073.916.2	10	074.916.2	10				
	2-1/4			072.916.214	10			074.916.214	10				
	2-1/2			072.916.212	10	073.916.212	10	074.916.212	10				
	2-3/4			072.916.234*	10			074.916.234	10				
	3			072.916.3	10	073.916.3	10	074.916.3	10				
	3-1/4							074.916.314	10				
	3-1/2			072.916.312	10	073.916.312	10	074.916.312	10				
	3-3/4												
	4				072.916.4	10	073.916.4	10	074.916.4	10			
	4-1/2				072.916.412*	10	073.916.412	10	074.916.412	5			
	5				072.916.5	10	073.916.5	10	074.916.5	5			
	5-1/2				072.916.512	10			074.916.512	5			
	6				072.916.6	10	073.916.6	10	074.916.6	10			
	5/8	1			072.58.1	25	073.58.1	25	074.58.1	25	076.58.1	25	
1-1/4				072.58.114	25	073.58.114	25	074.58.114	25				
1-1/2		071.58.112	25	072.58.112	25	073.58.112	25	074.58.112	25	076.58.112	10	077.58.112	25
1-3/4				072.58.134	25	073.58.134	25	074.58.134	25	076.58.134	10	077.58.2	25
2				072.58.2	25	073.58.2	25	074.58.2	25	076.58.2	10		
2-1/4				072.58.214	25	073.58.214	25	074.58.214	25	076.58.214	10		
2-1/2				072.58.212	25	073.58.212	25	074.58.212	25	076.58.212	10	077.58.212	10
2-3/4				072.58.234	25	073.58.234	25	074.58.234	25				
3		071.58.3	10	072.58.3	25	073.58.3	10	074.58.3	10	076.58.3	10	077.58.3	10
3-1/4				072.58.314	25			074.58.314	10			077.58.314	25
3-1/2				072.58.312	25	073.58.312	10	074.58.312	10	076.58.312	10	077.58.312	25
3-3/4				072.58.334	10			074.58.334	10				
4				072.58.4	10	073.58.4	10	074.58.4	10	076.58.4	10	077.58.4	25
4-1/4								074.58.414	10				
4-1/2				072.58.412	10	073.58.412	10	074.58.412	10				
4-3/4													
5					072.58.5	10	073.58.5	10	074.58.5	10			
5-1/2					072.58.512	10	073.58.512	10	074.58.512	5			
6					072.58.6	10	073.58.6	10	074.58.6	5			
6-1/2					072.58.612	10	073.58.612	5	074.58.612	5			
7				072.58.7	25	073.58.7	5	074.58.7	5				
7-1/2								074.58.712	5				
8				072.58.8	5			074.58.8	5				
8-1/2								074.58.812	5				
9								074.58.9	5				
10								074.58.10	5				
3/4	1			072.34.1	25	073.34.1*	25	074.34.1	25				
	1-1/4			072.34.114	25			074.34.114	25				
	1-1/2			072.34.112	25	073.34.112	25	074.34.112	25				
	1-3/4			072.34.134	15	073.34.134	20	074.34.134	10				
	2	071.34.2	10	072.34.2	15	073.34.2	25	074.34.2	10	076.34.2	25	077.34.2	25
	2-1/4			072.34.214	15	073.34.214	10	074.34.214	10				
	2-1/2			072.34.212	15	073.34.212	10	074.34.212	10			077.24.212	25
	2-3/4			072.34.234	15			074.34.234	10				
	3			072.34.3	10	073.34.3	10	074.34.3	10	076.34.3	25	077.34.3	25
	3-1/4			072.34.314	10	073.34.314	10	074.34.314	10				
	3-1/2			072.34.312	10	073.34.312	10	074.34.312	10	076.34.312	25	077.34.312	25
	3-3/4							074.34.334	10				
	4			072.34.4	10	073.34.4	10	074.34.4	10	076.34.4	10	077.34.4	10
	4-1/4							074.34.414	5				
	4-1/2			072.34.412	10	073.34.412	10	074.34.412	5			077.34.412	10
	4-3/4							074.34.434	5				
	5			072.34.5	5	073.34.5	10	074.34.5	10				
	5-1/2			072.34.512	5	073.34.512	10	074.34.512	5				
	6			072.34.6	5	073.34.6	10	074.34.6	5				
	6-1/2							074.34.612	5				
7				072.34.7	5	073.34.7	10	074.34.7	5				
7-1/2								074.34.712	5				
8				072.34.8	5			074.34.8	5				
9								074.34.9	5				

Dia (d) in inches	length (l) in inches	Steel UNF Grade 5, Clear Zinc	P.	Steel UNC Grade 5, Clear Zinc	P.	Steel UNF Grade 8, Yellow Zinc	P.	Steel UNC Grade 8, Yellow Zinc	P.	Steel UNC, 18-8 SS	P.	Steel UNC, 316 SS	P.
7/8	1-1/2			072.78.112	15	073.78.112	5	074.78.112	10				
	1-3/4							074.78.134	10				
	2			072.78.2	20	073.78.2	5	074.78.2	10				
	2-1/4							074.78.214	5				
	2-1/2			072.78.212	20	073.78.212	5	074.78.212	5				
	2-3/4							074.78.234	5				
	3			072.78.3	20	073.78.3	5	074.78.3	5				
	3-1/4							074.78.314	5				
	3-1/2			072.78.312	20	073.78.312	5	074.78.312	5				
	4			072.78.4	20	073.78.4	5	074.78.4	5				
	4-1/2			072.78.412	15	073.78.412	5	074.78.412	5				
	5			072.78.5	20	073.78.5	15	074.78.5	5				
	5-1/2							073.78.512	5	074.78.512	5		
	6			072.78.6	10	073.78.6	5	074.78.6	5				
	6-1/2							073.78.612	5	074.78.612	5		
7							073.78.7	5	074.78.7	5			
8							073.78.8	5	074.78.8	5			
8-1/2								074.78.812	5				
9								074.78.9	5				
10								074.78.10	5				
1	1-1/2							074.1..112	5				
	1-3/4							074.1..134	5				
	2			072.1..2	5	073.1..2	10	074.1..2	5				
	2-1/2			072.1..212	20	073.1..212	10	074.1..212	5				
	3			072.1..3	5	073.1..3	10	074.1..3	5				
	3-1/2			072.1..312	5	073.1..312	10	074.1..312	5				
	4			072.1..4	5	073.1..4	5	074.1..4	5				
	4-1/2			072.1..412	5	073.1..412	5	074.1..412	10				
	4-3/4							074.1..434	5				
	5			072.1..5	5	073.1..5	5	074.1..5	5				
	5-1/2							074.1..512	5				
	6			072.1..6	5	073.1..6	5	074.1..6	5				
	6-1/2							074.1..612	5				
	7			072.1..7	5	073.1..7	5	074.1..7	5				
	8							073.1..8	5	074.1..8	5		
9								074.1..9	5				
10							073.1..10*	5	074.1..10	5			
12								074.1..12	5				
1-1/8	3							074.118.3	5				
	5							074.118.5	5				
	6							074.118.6	5				
	10							074.118.10	5				
1-1/4	4							074.114.4*	5				
	5							074.114.5	5				
	6							074.114.6	2				
	7							074.114.7*	2				
	8							074.114.8	2				
1-1/2	6							074.112.6	2				
	8							074.112.8*	2				

ASSORTMENTS

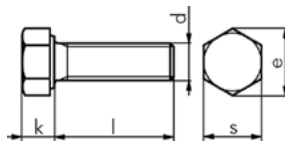


Art. No. 965.076

Hex Head Bolt, Hex Nut, Flat/ Lock Washer Assortment

18.8 Stainless Steel
Contents (775 Pieces):
 size range 1/4"-3/8"

STANDARD HEX TAP BOLTS



Fully threaded

Steel • GR 2 • Clear Zinc Plated

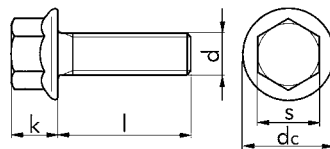
Applications:

Heavy Equipment • Construction • Transportation
 • Agriculture • Timber • Locomotive • Engine •
 Alternative Energy • Mining • Manufacturing

Thread Dia (d)	3/8
Width across flats (s)	9/16
Width across corners (e)	0.65
Height of head (k)	15/64

Dia-Thread Pitch (d)	Length (l) in inches	Art. No.	P. Qty.
3/8 - 16	2	224.38.2	25
	3	224.38.3	
	4	224.38.4	

METRIC HEX HEAD FLANGE BOLTS



J.I.S. B1189

Fully threaded • Partially Threaded
 Steel • Class 10.9 • Clear Zinc Plated

Applications:

Asian Imports • Automotive • Motorcycles •
 Manufacturing Equipment • Maintenance Equipment

Thread Dia (d)	M6	M8	M10
s in mm	10	12	14
k in mm	6.0	8	10
dc in mm	14	17.5	21

Dia-Thread Pitch (d)	Length (l) mm	Art. No.	P. Qty.
M6-1.0	12	061.6..12	50
	16	061.6..16	50
	20	061.6..20	50
	20	061.6..20BK	250
	25	061.6..25 *	50
	30	061.6..30 *	50
	35	061.6..35 *	50
	40	061.6..40 *	25
M8-1.25	16	061.8..16	25
	20	061.8..20	25
	25	061.8..25	25
	30	061.8..30 *	25
	35	061.8..35 *	25
	40	061.8..40 *	25
M10-1.25	20	061.10.20	25
	25	061.10.25	25
	30	061.10.30	25
	35	061.10.35 *	25
	40	061.10.40 *	25



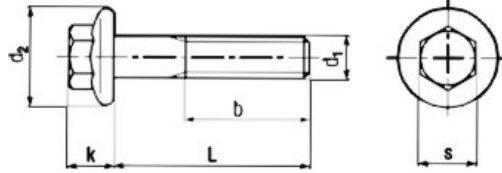
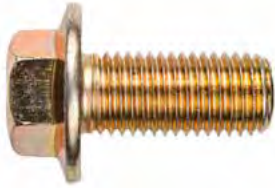
JIS Flange Bolt Assortment

Art. No. 965.061

Contents: 230 pieces
 Size range, M6, M8, M10
 Includes matching Flange Nuts

Note: Items denoted with an asterisk * are partially threaded.

METRIC HEX HEAD FLANGE BOLTS



Steel • Class 10.9 • Yellow Zinc Plated

DIN 6921 Partially threaded

Applications:
Agriculture Equipment • Farming Equipment

Features:
Flanged Head • Not Serrated • Coarse Thread

Thread Dia (d)	M6	M8	M10	M12	M16
b min	18	22	26	30	38
d2 max	14.2	18	22.3	26.6	35
k max	6.6	8.1	9.2	11.5	14.4
s max	10	13	15	16	21

Dia-Thread Pitch (d)	Length (l) mm	Art. No.	P. Qty.
M6-1.0	12	070.6..12	25
	16	070.6..16	
	20	070.6..20	
	25	070.6..25	
	30	070.6..30	
	35	070.6..35	
	40	070.6..40	
M8-1.25	45	070.6..45	10
	16	070.8..16	
	20	070.8..20	
	25	070.8..25	
	30	070.8..30	
	35	070.8..35	
	40	070.8..40	
	45	070.8..45	
	50	070.8..50	
	60	070.8..60	
M10-1.5	70	070.8..70	25
	80	070.8..80	
	90	070.8..90	
	110	070.8..110	
	120	070.8..120	
	16	070.10.16	
	20	070.10.20	
	25	070.10.25	
	30	070.10.30	
	35	070.10.35	
	40	070.10.40	
	45	070.10.45	
	50	070.10.50	
55	070.10.55		
65	070.10.65		
70	070.10.70		
80	070.10.80		
90	070.10.90		
110	070.10.110		
130	070.10.130		

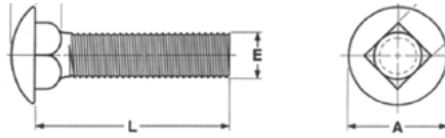
Dia-Thread Pitch (d)	Length (l) mm	Art. No.	P. Qty.
M12-1.75	20	070.12.20	25
	25	070.12.25	
	30	070.12.30	
	35	070.12.35	
	40	070.12.40	
	45	070.12.45	
	50	070.12.50	
	60	070.12.60	
	70	070.12.70	
	80	070.12.80	
M16-2.0	90	070.12.90	10
	100	070.12.100	
	120	070.12.120	
	130	070.12.130	
	160	070.12.160	
	35	070.16.35	
	40	070.16.40	
	45	070.16.45	
	50	070.16.50	
	60	070.16.60	
70	070.16.70		
80	070.16.80		
90	070.16.90		

STAINLESS CAPPED HEAD BUMPER BOLTS



Bolt No.	Application	Diameter (in.)	Length (in.)	Threads per inch	Art. No.
1	Pan Head Stainless Steel Cap zinc plated bolt. All GM cars including Cadillac - Bumper bolt Front & Rear	3/8	1	16	235.12
2	Stainless Steel Capped Pan Head GM Products (late model)	7/16	1 1/4	14	235.13

STANDARD BUMPER BOLTS

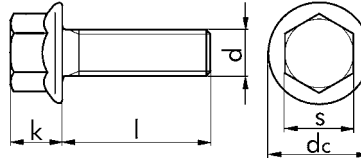


Steel • GR 2 • Clear Zinc Plated
Coarse Thread - UNC

Diameter	7/16	1/2
Head Diameter A	31/32	1-3/32
No. of threads/inch - UNC	14	13

Dia in inches. (e)	Length in inches (l)	Steel, Clear Zinc	P. Qty.
7/16	1-1/4	231.716.114	10
	1-1/2	231.716.112	
1/2	1-1/2	231.12.112	

STANDARD FLANGE FRAME BOLTS



Use with Prefix 319 and 321 nuts.

Steel • GR 8 • Phosphate and oil finish

Application:

Used for frame bolting.

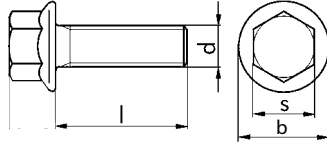
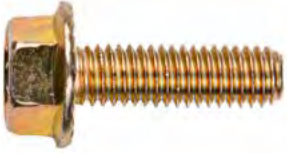
Features:

Strong and dependable fastening system • Substantially cuts assembly, maintenance and repair costs.

Thread Dia (d)	3/8	1/2	5/8	3/4 *NEW*
Head Diameter (s)	9/16	3/4	15/16	1"
Flange Diameter (dc)	0.81	1.07	1.33	1.549
Head Height (k)	0.39	0.51	0.62	0.715
Full Thread up to Length (l)	1-1/2	1-7/8	2-1/2	2 1/2"
No. of threads/inch - UNF	24	20	18	16
No. of threads/inch - UNC	16	13	11	-

Thread dia. (d) in inches	Length (l) in inches	UNF	P. Qty.	UNC	P. Qty.
1/2	1	-	10	064.12.1	10
	1-1/2	065.12.112		064.12.112	
	1-3/4	065.12.134		-	
	2	065.12.2		064.12.2	
	2-1/4	065.12.214		-	
	2-1/2	065.12.212		064.12.212	
5/8	3	065.12.3	10	-	10
	1-1/2	065.58.112		-	
	1-3/4	065.58.134		-	
	2	065.58.2		064.58.2	
	2-1/4	065.58.214		-	
	2-1/2	065.58.212		064.58.212	
	3	065.58.3		-	
	3-1/2	065.58.312		-	
	4	065.58.4		-	
4-1/2	065.58.412	-			
3/4 *NEW*	5	065.58.5	20	-	
	1-3/4	065.34.134		-	
	2	065.34.2		-	
	2-1/2	065.34.212		-	
	3	065.34.3		-	
	3-1/2	065.34.312			

METRIC SELF LOCKING FLANGE BOLTS



Steel • Class 8.8 • Yellow Zinc Plated
Serrated head

Applications:

Equipment Manufacturing • Construction
Equipment • Cranes • Conveyor Systems • Trucking
Frames • Transportation • Wind • MRO

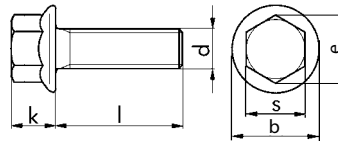
Features:

Self Locking Serrated Head

Thread dia. D	M6
b in mm	11.1
s in mm	10.0

Dia-Thread Pitch (d)	Length(l) mm	Art. No.	P. Qty.
M6-1.0	12	274.6..12	50
	16	274.6..16	
	20	274.6..20	

STANDARD SELF LOCKING FLANGE BOLT



Steel • GR 5 • Clear Zinc Plated

Applications:

Equipment Manufacturing • Construction
Equipment • Cranes • Conveyor Systems • Trucking
Frames • Transportation • Wind • MRO

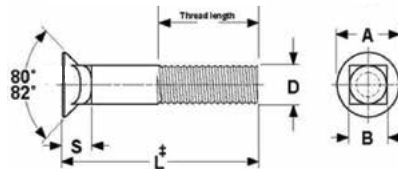
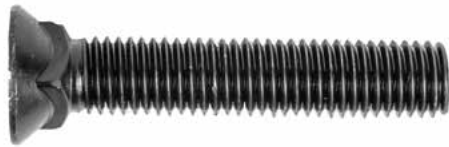
Features:

Self Locking Serrated Head

Thread Dia (d)	1/4	5/16	3/8	7/16	1/2
Head Diameter (s)	3/8	1/2	9/16	5/8	3/4
Width Across Corners (e) max	0.433	0.577	0.650	0.722	0.866
Head Height (k) max.	0.28	0.32	0.39	0.46	0.51
Flange Diameter (dc) max.	0.56	0.68	0.81	0.93	1.07
No. of threads/inch - UNC	20	18	16	14	13

Thread dia. (d) in inches	Length (l) in inches	Art. No.	P. Qty.
1/4	1/2	274.14.12	50
	3/4	274.14.34	
	1	274.14.1	
5/16	1/2	274.516.12	50
	3/4	274.516.34	
	1	274.516.1	
	1-1/4	274.516.114	25
	1-1/2	274.516.112	
	2	274.516.2	
3/8	1	274.38.1	25
	1-1/4	274.38.114	
	1-1/2	274.38.112	
	3	274.38.3	

STANDARD PLOW BOLTS



Flat Head • Square Neck
Steel • GR 5 • Bare

Applications:

Heavy Equipment • Mining • Construction • Timber
• Locomotive • Alternative Energy • Transportation •
Agriculture • Snow Plows • Bull Dozers • Rock Quarry

Function:

Tightened or loosened by applying torque to the nut. Countersunk head with a short square neck that prevents the bolt from turning when the nut is fastened or removed.

Thread Dia (d)	3/8	7/16	1/2	5/8
Head Diameter Min Shape (A)	0.671	0.781	0.890	1.094
Depth of Square and Head (S) max.	0.312	0.364	0.417	0.506
Width of Square max. (B)	0.387	0.450	0.515	0.640
No. of threads/inch - UNC	16	14	13	11

Thread dia. (d) in inches	Length (l) in inches	Minimum thread length	Art. No.	P. Qty.
3/8	1-1/4	T to H*	221.38.114	50
	1-1/2	T to H*	221.38.112	
	1-3/4	T to H*	221.38.134	
	2	T to H*	221.38.2	25
2-1/2	T to H*	221.38.212		
1-1/2	T to H*	221.716.112	50	
1-3/4	T to H*	221.716.134		
2-1/4	1-1/8	221.716.214		
2-1/2	1-1/8	221.716.212		

Thread dia. (d) in inches	Length (l) in inches	Minimum thread length	Art. No.	P. Qty.
1/2	1-1/2	T to H*	221.12.112	25
	2	T to H*	221.12.2	
	2-1/2	1-1/4	221.12.212	
	3	1-1/4	221.12.3	
5/8	2	T to H*	221.58.2	25
	2-1/4	T to H*	221.58.214	
	2-1/2	T to H*	221.58.212	
	3	1-1/2	221.58.3	20
	3-1/2	1-1/2	221.58.312	

* T to H indicates the bolt is threaded to head or square

STANDARD BODY BOLTS – BLACK PHOSPHATE



Art. No. 278.501



Art. No. 278.502



Art. No. 278.503



Art. No. 278.504



Art. No. 278.505



Art. No. 278.506



Art. No. 235.14



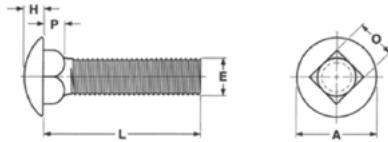
Art. No. 235.15



Art. No. 235.16

Vehicle Appl. OEM No.	Description	Dia. (inches)	Threads per inch	Length (inches)	Hex Dia. (inches)	Washer O.D. (inches)	Art. No.	P. Qty.
Ford & GM	Hex Head Sems Bolt	5/16	18	1	1/2	7/8	278.501	25
GM	Hex Washer Head	5/16	18	13/16	1/2	41/64	278.502	
GM	Hex Washer Head	5/16	18	3/4	1/2	21/32	278.503	
GM (3986997)	Hex Head Sems Bolt	3/8	16	1	9/16	1	278.504	
GM (407217)	Hex Head Sems Hood Hinge to Sheet Metal Bolt	3/8	16	1-1/2	9/16	1-1/8	278.505	20
Ford & GM	Hex Head Sems	5/16	18	1	1/2	7/8	278.506	
Chrysler	Hex Head Sems with Dog Point	1/4	20	1	7/16	5/8	235.14	
-	Hex Head Sems with Dog Point	1/4	20	7/8	7/16	3/4	235.15	
Ford	Hex Washer Head with Pinch Point	5/16	18	1-1/4	1/2	21/32	235.16	10

STANDARD CARRIAGE BOLTS



Steel • GR 2 • Clear Zinc Plated
 Steel • GR 5 • Clear Zinc Plated
 Stainless Steel 18.8

Applications:

Timber • Mining • Construction • Heavy
 Equipment • Locomotive • Alternative
 Energy • Transportation • Agriculture

Function:

Tightened or loosened by applying torque to the nut. Oversized head style eliminates the need for washers when securing in timber and other soft materials. The square neck prevents the bolt from turning when the nut is fastened or removed.

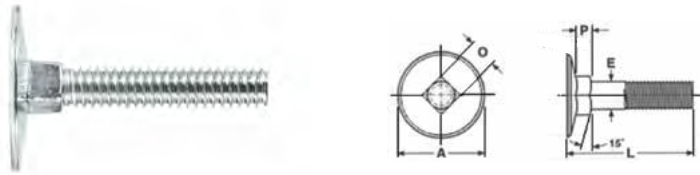
* Grade 2, Clear Zinc Plated

Thread dia. (e)	1/4	5/16	3/8	7/16	1/2	5/8
Head Diameter (A) max.	0.594	0.719	0.844	0.969	1.094	1.344
Height of Square (P) max.	0.156	0.187	0.219	0.250	0.281	0.344
Head Height max. (H)	0.145	0.176	0.208	0.239	0.270	0.344
Square Width max. (O)	0.260	0.324	0.388	0.452	0.545	0.642
No. of threads/inch - UNC	20	18	16	14	13	11

Thread dia. (d) in inches	Length (l) in inches	Grade 5, UNC, Clear Zinc	P. Qty.	UNC, 18-8 SS	P. Qty.	
1/4	3/4	220.14.34	100	223.14.34	100	
	1	220.14.1		223.14.1	50	
	1-1/4	220.14.114		223.14.114	100	
	1-1/2	220.14.112		223.14.112	50	
	1-3/4	220.14.134				
	2	220.14.2		223.14.2	50	
	2-1/2	220.14.212				
	3	220.14.3				
5/16	3-1/2	220.14.312*	25			
	3/4	220.516.34	100	223.516.34	50	
	1	220.516.1		223.516.1	50	
	1-1/4	220.516.114		223.516.114	100	
	1-1/2	220.516.112		223.516.112	25	
	1-3/4	220.516.134				
	3/8	2	220.516.2	50	223.516.2	25
		2-1/2	220.516.212			
		3	220.516.3			
		3-1/2	220.516.312	25		
4		220.516.4*				
4-1/2		220.516.412				
5		220.516.5				
3/8		3/4	220.38.34	50	223.38.1	25
	1	220.38.1				
	1-1/4	220.38.114	223.38.112		25	
	1-1/2	220.38.112				
	1-3/4	220.38.134	223.38.2		25	
	3/8	2	220.38.2	25		
		2-1/4	220.38.214			
		2-1/2	220.38.212			
		2-3/4	220.38.234			
		3	220.38.3		223.38.3	25
3-1/2		220.38.312				
3/8	4	220.38.4				
	4-1/2	220.38.412				
	5	220.38.5				
	5-1/2	220.38.512*				

Thread dia. (d) in inches	Length (l) in inches	Grade 5, UNC, Clear Zinc	P. Qty.	UNC, 18-8 SS	P. Qty.
7/16	1-1/4	220.716.114	50		
	1-1/2	220.716.112			
	1-3/4	220.716.134			
	2	220.716.2			
				220.12.1	
1/2	1	220.12.114	25		
	1-1/2	220.12.112	50		
	1-3/4	220.12.134			
	2	220.12.2			
	2-1/2	220.12.212			
	3	220.12.3	25		
	3-1/2	220.12.312	20		
4	220.12.4				
5/8	4-1/2	220.12.412			
	1-1/2	220.58.112	25		
	2	220.58.2			
	2-1/4	220.58.214			
	2-1/2	220.58.212			
	3	220.58.3	20		
	3-1/2	220.58.312			
4	220.58.4				

STANDARD ELEVATOR BOLTS



Flat oversized head • Square neck
Steel • Clear Zinc Plated

Applications:

Agriculture • Timber • Mining • Construction
• Heavy Equipment • Locomotive • Conveyor
Systems • Marine • RV • Trucking

Function:

Tightened or loosened by applying torque to the nut.
Oversized head style eliminates reduces pull-through of materials being fastened. The square neck prevents the bolt from turning when the nut is fastened or removed. Most commonly used in Pontoon Boats, Trucking Beds, Grain Elevators and Timber applications.

Thread dia. (e)	1/4	5/16	3/8
Head Diameter (a)	1.008	1.227	1.352
No. of threads/inch - UNC	20	18	16
Depth of Square max. (p)	0.219	0.250	0.250
Width of Square max. (a)	0.280	0.342	0.405

Thread dia. (d) in inches	Length (l) in inches	P. Qty.	Art. No.	P. Qty.
1/4	1-1/2		222.14.112	100
	1-1/4		222.14.114	100
	2	100	222.14.2	
5/16	2		222.516.2	100
	1-1/2	100	222.38.112	
3/8	2		222.38.2	100

SPECIALTY FASTENER - CAMTAINER®



Camtainer® Nut

Art. No. **069.89060008** - P. Qty. **100**

Screw Material: 1022R Steel
Core Hardness: R/c 28-38
Tensile Strength: 4,700 psi/min



Camtainer® Bolt

Art. No. **069.88082920** - P. Qty. **100**

Screw Grade: 5.1
Screw Material: 1022R Steel
Core Hardness: R/c 28-38
Tensile Strength: 120,000 psi/min
Proof Load: 85,000 psi
Salt Spray Resistance: 500 hours/min

BOTTOM RAIL BOLT



1



2

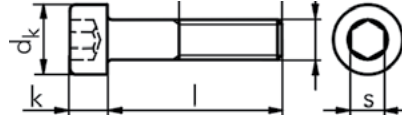
Button Head Torx Bolt

Features:

- Provides up to 1500 hrs salt spray resistance
- 120,000 PSI Tensile Strength
- Height of head: .243"
- Gr 5.1 , manufactured from 1022 Steel
- Plating is .0003 cadium plus JD3 Sealer
- Torx 45

Number	Description	Drive Style	Art. No.
1	Bottom Rail Bolt 3/8-16x1 BTN HD TORX GR 5.1		069.885895
2	Bottom Rail Bolt 3/8x1 7/8 BTN HD TORX GR 5.1		069.885900

METRIC SOCKET CAP SCREWS



DIN 912 (ISO 4762)

Steel • Class 8.8 • Clear Zinc Plated

Steel • Class 12.9 • Bare

Stainless Steel A2

Applications:

Equipment Manufacturing • Construction
Equipment • Cranes • Conveyor Systems •
Trucking Frames • Transportation • Wind • MRO

Features:

Can be assembled with a nut or in a pre-tapped thread • Hex (Allan) Drive



Metric Socket Head Cap Screw Assortment

Art. No. 965.084

Contents: 310 pieces

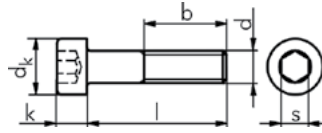
M4x10 (20), M4x16 (20), M5x10 (20), M5x16 (20), M5x20 (20), M5x25 (20),
M5x30 (20), M6x10 (20), M6x16 (20), M6x20 (20), M6x25 (20), M6x30 (20),
M6x35 (20), M6x40 (10), M8x16 (10), M8x20 (10), M8x25 (10), M8x30 (10)

Thread Dia (d)	M3	M4	M5	M6	M8	M10	M12	M14	M16
dk mm	5.5	7	8.5	10	13	16	18	21	24
b mm	18	20	22	24	28	32	36	40	44
s mm	2.5	3	4	5	6	8	10	12	14
k mm	3	4	5	6	8	10	12	14	16

Dia-Thread Pitch (d)	Length (l) mm	Steel 8.8 Clear Zinc	P. Qty.	Steel 12.9 Bare	P. Qty.	A2 Stainless	P. Qty.
M3-0.5	16			083.3..16	200		
	20					094.3..20	100
M4-0.7	8	084.4..8	100			094.4..8	600
	10	084.4..10	100	083.4..10	100	094.4..10	400
	12			083.4..12	100	094.4..12	400
	16	084.4..16	100	083.4..16	100	094.4..16	100
	20			083.4..20	100	094.4..20	100
	25	084.4..25	100	083.4..25	100		
	30			083.4..30	100	094.4..30	100
M5-0.8	40	084.4..40	100				
	6					094.5..6	100
	10	084.5..10	100	083.5..10	100	094.5..10	100
	12	084.5..12	100	083.5..12	100	094.5..12	100
	16	084.5..16	100	083.5..16	100	094.5..16	100
	18					094.5..18	100
	20	084.5..20	100	083.5..20	100	094.5..20	100
	25	084.5..25	100	083.5..25	100	094.5..25	100
	30	084.5..30	100	083.5..30	100		
	35	084.5..35	100			094.5..35	100
M6-1.0	40			083.5..40	100		
	50			083.5..50	100		
	60	084.5..60	50				
	10	084.6..10	100	083.6..10	100	094.6..10	25
	12	084.6..12	100	083.6..12	100	094.6..12	100
	14					094.6..14	100
	16	084.6..16	100	083.6..16	100	094.6..16	100
	20	084.6..20	100	083.6..20	100	094.6..20	50
	25	084.6..25	100	083.6..25	100	094.6..25	100
	30	084.6..30	100	083.6..30	100	094.6..30	100
	35	084.6..35	100	083.6..35	100	094.6..35	100
	40	084.6..40	50	083.6..40	100	094.6..40	100
	45	084.6..45	50	083.6..45	50	094.6..45	100
	50	084.6..50	50	083.6..50	50	094.6..50	50
	55					094.6..55	100
	60	084.6..60	50	083.6..60	50	094.6..60	50
70			083.6..70	50			
75	084.6..75	25					
80					094.6..80	50	
90	084.6..90	25					

Dia-Thread Pitch (d)	Length (l) mm	Steel 8.8 Clear Zinc	P. Qty.	Steel 12.9 Bare	P. Qty.	A2 Stainless	P. Qty.
M8-1.25	10	084.8..10	50	083.8..10	100	094.8..10	25
	12			083.8..12	200	094.8..12	25
	16	084.8..16	50	083.8..16	100	094.8..16	25
	20	084.8..20	50	083.8..20	100	094.8..20	25
	25	084.8..25	50	083.8..25	100	094.8..25	25
	30	084.8..30	50	083.8..30	100	094.8..30	25
	35	084.8..35	50	083.8..35	50	094.8..35	25
	40	084.8..40	50	083.8..40	50	094.8..40	25
	45	084.8..45	25	083.8..45	50	094.8..45	25
	50	084.8..50	25	083.8..50	50	094.8..50	25
	55			083.8..55	50	094.8..55	25
	60	084.8..60	25	083.8..60	50	094.8..60	25
	65					094.8..65	25
	70	084.8..70	25			094.8..70	25
80					094.8..80	25	
100					094.8..100	50	
110					094.8..110	50	
M10-1.5	16					094.10.16	25
	20	084.10.20	25	083.10.20	50	094.10.20	25
	25	084.10.25	25	083.10.25	50	094.10.25	25
	30	084.10.30	25	083.10.30	50	094.10.30	25
	35	084.10.35	25	083.10.35	50	094.10.35	25
	40	084.10.40	25	083.10.40	50	094.10.40	25
	45			083.10.45	50	094.10.45	25
	50	084.10.50	25	083.10.50	50	094.10.50	25
	55			083.10.55	50	094.10.55	25
	60			083.10.60	25	094.10.60	25
	65			083.10.65	50		
	70			083.10.70	25	094.10.70	25
	80			083.10.80	25		
90			083.10.90	25			
M12-1.75	20			083.12.20	25		
	25			083.12.25	25	094.12.25	25
	30			083.12.30	25	094.12.30	25
	35			083.12.35	25		
	40			083.12.40	25	094.12.40	25
	45			083.12.45	25	094.12.45	25
	50			083.12.50	25	094.12.50	25
	55			083.12.55	50	094.12.55	25
	60			083.12.60	50		
	70			083.12.70	25	094.12.70	25
80			083.12.80	20	094.12.80	50	
220					094.12.90	50	
M14-2.0	30					094.14.30	10
	40			083.14.40	50	094.14.40	10
	50			083.14.50	50	094.14.50	10
M16-2.0	40			083.16.40	25		
	50			083.16.50	25		
	60			083.16.60	25		
	70			083.16.70	50		
90			083.16.90	25			
M20-2.50	90			083.20.90	25		

STANDARD SOCKET CAP SCREW



High Alloy Steel • Bare
 Stainless Steel 18.8 • OnDemand
 Stainless Steel 316

Features:
 Can be assembled with a nut or in a pre-tapped thread • Hex (Allan) Drive

Applications:
 Equipment Manufacturing • Construction
 Equipment • Cranes • Conveyor Systems •
 Trucking Frames • Transportation • Wind • MRO

Thread Dia (d)	#6	#8	#10	1/4	5/16	3/8	7/16	1/2	5/8	3/4
Head Diameter (dk)	0.222	0.266	0.307	0.370	0.463	0.556	0.649	0.743	0.930	1.116
Head Height (k)	0.136	0.161	0.188	0.247	0.309	0.373	0.434	0.496	0.621	0.745
Length of thread (max) (b)	1.05	1.19	1.27	1.50	1.71	1.94	2.17	2.38	2.82	3.25
No. of threads/inch - UNF	40	36	32	28	24	24	20	20	18	16
No. of threads/inch - UNC	32	32	24	20	18	16	14	13	11	10
Hex-Drive (s)	7/64	9/64	5/32	3/16	1/4	5/16	3/8	3/8	1/2	5/8

Thread dia. (d) in inches.	Length (l) in inches	UNF, Bare	P. Qty.	UNC, Bare	P. Qty.	UNF, 316SS	P. Qty.	UNC, 316SS	P. Qty.
#6	3/8			082.632.38	100				
	1			082.632.1	100				
#8	3/8			082.832.38	100				
	1			082.832.1	100				
#10	3/8	082.1032.38	100	082.1024.38	100				
	1/2	082.1032.12	100	082.1024.12	100			081.1024.12	100
	5/8	082.1032.58	100						
	3/4	082.1032.34	100	082.1024.34	100			081.1024.34	100
	1	082.1032.1	100	082.1024.1	100	081.1032.1	100	081.1024.1	100
	1-1/4	082.1032.114	100	082.1024.114	100			081.1024.114	100
	1-1/2	082.1032.112	100	082.1024.112	100				
1/4	2			082.10.2	100				
	1/2			082.14.12	50			081.14.12	50
	5/8			082.14.58	50				
	3/4			082.14.34	50			081.14.34	50
	1			082.14.1	50			081.14.1	50
	1-1/4			082.14.114	50			081.14.114	50
	1-3/8			082.14.138	50				
	1-1/2			082.14.112	50			081.14.112	50
	1-3/4			082.14.134	50				
	2			082.14.2	50			081.14.2	25
	2-1/2			082.14.212	50			081.14.212	25
	3			082.14.3	50				
5/16	3-1/2			082.14.312	25				
	1/2			082.516.12	100			081.516.12	25
	3/4			082.516.34	100			081.516.34	25
	1			082.516.1	100			081.516.1	25
	1-1/4			082.516.114	100			081.516.114	25
	1-1/2			082.516.112	100			081.516.112	25
	1-3/4			082.516.134	50				
	2			082.516.2	50			081.516.2	10
	2-1/2			082.516.212	50				
	3			082.516.3	25				
3/8	3-1/2			082.516.312	25			081.516.312	10
	1/2			082.38.12	100				
	3/4			082.38.34	50			081.38.34	25
	1			082.38.1	50			081.38.1	25
	1-1/4			082.38.114	50			081.38.114	25
	1-1/2			082.38.112	50			081.38.112	25
	1-3/4			082.38.134	50				
	2			082.38.2	50			081.38.2	25
	2-1/4			082.38.214	50				
	2-1/2			082.38.212	25			081.38.212	10
	3			082.38.3	25			081.38.3	10
	3-1/2			082.38.312	25			081.38.312	5
	4			082.38.4	25				
5			085.38.5	50					
7/16	1-1/4			082.716.114	25				
	1-1/2			082.716.112	25				
	2			082.716.2	25				
1/2	1			082.12.1	25				
	1-1/4			082.12.114	50				
	1-1/2			082.12.112	25				
	1-3/4			082.12.134	50				
	2			082.12.2	25			081.12.2	10
	2-1/4			082.12.214	25				
	2-1/2			082.12.212	25			081.12.212	10
	3			082.12.3	25			081.12.3	10
	3-1/2			082.12.312	50				
	4			082.12.4	25				
4-1/2			082.12.412	25					

Pack sizes subject to change without notice

Some sizes and finishes available OnDemand

Thread dia. (d) in inches.	Length (l) in inches	UNF, Bare	P. Qty.	UNC, Bare	P. Qty.	UNF, 316SS	P. Qty.	UNC, 316SS	P. Qty.
5/8	1			082.58.1	50				
	1-1/2			082.58.112	50				
	2			082.58.2	50				
	2-1/4			082.58.214	25				
	2-1/2			082.58.212	25				
	3			082.58.3	25				
3/4	3-1/2			082.58.312	25				
	1-1/4			082.34.114	5				

ASSORTMENTS



Art. No. 965.082

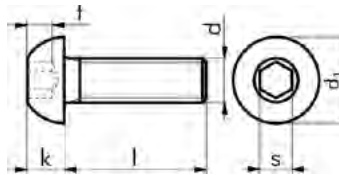
Socket Head Cap Screw Assortment

Bare steel, coarse (UNC) High alloy steel

Contents (160 pieces):

16 assorted sizes, size range: 1/4", 5/16", 3/8", 1/2"

METRIC BUTTON HEAD SOCKET CAP SCREWS



Fully Threaded

Bare Steel • Class 10.9

Stainless Steel A2

Applications:

Equipment Manufacturing • Construction
Equipment • Cranes • Conveyor Systems •
Trucking Frames • Transportation • Wind • MRO

Features:

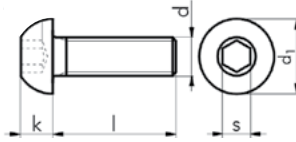
Can be assembled with a nut or in a pre-tapped thread • Hex (Allan) Drive

Thread Dia (d)	M4	M5	M6	M8	M10
Head dia. d1	7.4	9.3	10.3	13.8	17.3
Head height k	2.07	2.62	3.15	4.22	5.35
Hex-Drive s	2.5	3	4	5	6

Dia-Thread Pitch (d)	Length (l) mm	Steel 10.9, Bare	P. Qty.	A2 Stainless	P. Qty.
M4-0.7	6	090.4..6	50	098.4..6	50
	8				
	10	090.4..10	50	098.4..10	
	20			098.4..20	
	25			098.4..25	
	30			098.4..30	
M5-0.8	8			098.5..8	
	10	090.5..10	50	098.5..10	
	12			098.5..12	
	16	090.5..16	50	098.5..16	
	20	090.5..20	50	098.5..20	
	25			098.5..25	
	30	090.5..30	50	098.5..30	
	35			098.5..35	
	40			098.5..40	

M6-1.0	8			098.6..8	50
	10	090.6..10	50	098.6..10	100
	12			098.6..12	50
	16	090.6..16	50	098.6..16	
	20	090.6..20	50	098.6..20	
	25	090.6..25	50	098.6..25	
30			098.6..30		
40			098.6..40		
M8-1.25	45			098.6..45	25
	50			098.6..50	
	10			098.8..10	
	12	090.8..12	50	098.8..12	
	20	090.8..20	50	098.8..20	
	30	090.8..30	50	098.8..30	
M10-1.5	35			098.8..35	25
	40	090.8..40	50	098.8..40	
	45			098.8..45	
	50			098.8..50	
	16			098.10..16	
	20	090.10..20	50	098.10..20	
	25			098.10..25	50
	30			098.10..30	
	40			098.10..40	

STANDARD BUTTON HEAD SOCKET CAP SCREW



High Alloy Steel • Bare
Stainless Steel 18.8 • OnDemand

Features:

Can be assembled with a nut or in a pre tapped thread • Hex (Allan) Drive

Applications:

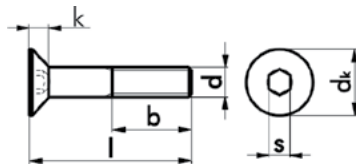
Equipment Manufacturing • Construction
Equipment • Cranes • Conveyor Systems • Trucking
Frames • Transportation • Wind • MRO

Thread Dia (d)	#4	#6	#8	#10	1/4	5/16	3/8	1/2
Head Diameter (d1)	0.207	0.256	0.305	0.354	0.428	0.537	0.646	0.863
Head Height (k)	0.055	0.068	0.082	0.096	0.127	0.159	0.192	0.255
No. of threads/inch - UNF	48	40	36	32	28	24	24	20
No. of threads/inch - UNC	40	32	32	24	20	18	16	13
Hex-Drive (s)	1/16	5/64	3/32	1/8	5/32	3/16	7/32	5/16

Thread dia. (d) in inches	Length (l) in inches	UNF	P. Qty.	UNC	P. Qty.
#4	1/2			092.4..12	50
#6	1/4	091.6..14	200	092.6..14	50
	1/2	091.6..12	100	092.6..12	100
#8	1/4			092.8..14	100
	3/8			092.8..38	100
	1/2			092.8..12	100
	3/4			092.8..34	100
#10	3/8	091.10.38	50	092.10.38	50
	1/2	091.10.12	50	092.10.12	50
	5/8	092.1032.58	50		
	3/4			092.10.34	100
	1	091.10.1	50	092.10.1	50

Thread dia. (d) in inches	Length (l) in inches	UNF	P. Qty.	UNC	P. Qty.
1/4	1/2			092.14.12	100
	3/4	091.14.34	100	092.14.34	100
	7/8			092.14.78	50
	1	091.14.1	50	092.14.1	100
5/16	1-1/2			092.14.112	100
	1			092.516.1	100
3/8	1-3/4			092.516.134	100
	3/4			092.38.34	100
1/2	1			092.38.1	100
	1-1/4			092.12.114	25
	1-1/2			092.12.112	25

METRIC FLAT HEAD SOCKET CAP SCREWS



DIN 7991 Fully Threaded

Stainless Steel A2

Applications:

Equipment Manufacturing • Construction
Equipment • Cranes • Conveyor Systems • Trucking
Frames • Transportation • Wind • MRO

Features:

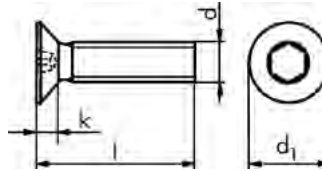
Can be assembled with a nut or in a pre tapped thread • Hex (Allan) Drive

Partially Threaded*

Thread Dia (d)	M5	M6
dk in mm	10.0	12.0
b in mm	16.0	18.0
s in mm	3.0	4.0
k in mm	2.8	3.3

Dia-Thread Pitch (d)	Length (l) mm	Art. No.	P. Qty.
M5-0.8	10	086.5..10	100
	12	086.5..12	
	20	086.5..20*	
	25	086.5..25	
M6-1.0	8	086.6..8	100
	10	086.6..10	
	12	086.6..12	
	16	086.6..16	
	20	086.6..20*	
	25	086.6..25*	
	45	086.6..45*	
M8-1.25	50	086.6..50*	100
	60	086.6..60*	
	25	086.8..25	
	30	056.8..30	

STANDARD FLAT HEAD SOCKET CAP SCREWS



High Alloy Steel • Bare
Stainless Steel • OnDemand

Features:

Can be assembled with a nut or in a pre-tapped thread • Hex (Allan) Drive

Applications:

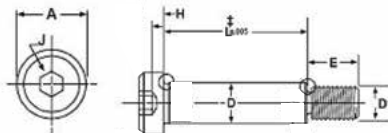
Equipment Manufacturing • Construction Equipment • Cranes • Conveyor Systems • Trucking Frames • Transportation • Wind • MRO

Thread Dia (d)	#4	#6	#8	#10	1/4	5/16	3/8	1/2
Head Diameter (d1)	0.218	0.263	0.311	0.359	0.480	0.600	0.720	0.872
Head Height (k)	0.083	0.097	0.112	0.127	0.161	0.198	0.234	0.251
Length of thread (max)	0.99	1.05	1.19	1.27	1.50	1.71	1.94	2.38
No. of threads/inch - UNF	48	40	36	32	28	24	24	20
No. of threads/inch - UNC	40	32	32	24	20	18	16	13
Hex-Drive	1/16	5/64	3/32	1/8	5/32	3/16	7/32	5/16

Thread dia. (d) in inches	Length (l) in inches	UNF	P. Qty.	UNC	P. Qty.
#4	1/4	087.440.14	100		
	1/2	087.440.12			
	1	087.440.1			
#6	1			087.632.1	50
#8	1/2			087.832.12	
	1			087.832.1	
#10	3/8	087.1032.38	100	087.1024.12	100
	1/2	087.1032.12			
	5/8	087.1032.58		50	
	3/4	087.1032.34	100	087.1024.34	100
	1	087.1032.1		087.1024.1	
	1-1/4	087.1032.114	50		
	1-1/2	087.1032.112			
1/4	1/2			087.14.12	100
	5/8			087.14.58	
	3/4	087.1428.34	100	087.14.34	
	1			087.14.1	
	1-1/4			087.14.114	
	1-1/2			087.14.112	
	2			087.14.2	

Thread dia. (d) in inches	Length (l) in inches	UNF	P. Qty.	UNC	P. Qty.
5/16	1/2			087.516.12	50
	5/8			087.516.58	
	3/4			087.516.34	
	1	087.51624.1	100	087.516.1	
	1-1/4			087.516.114	
	1-1/2	087.51624.112	100	087.516.112	
	2			087.516.2	
3/8	3/4			087.38.34	25
	1	087.3824.1	200	087.38.1	
	1-1/4			087.38.114	
	1-1/2	087.3824.112	50	087.38.112	
	2			087.38.2	
1/2	1			087.12.1	50
	1-1/4			087.12.114	
	1-1/2			087.12.112	
	2			087.12.2	
	2-1/2			087.12.212	

METRIC SOCKET SHOULDER BOLTS



ISO 7379

Alloy • Class 12.9 • Bare

Applications:

Equipment Manufacturing • Construction Equipment • Cranes • Conveyor Systems • Trucking Frames • Transportation • Wind • MRO

Features:

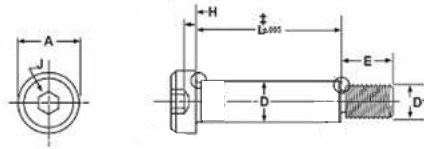
Can be assembled with a nut or in a pre-tapped thread • Hex (Allan) Drive

Shank dia.	Dia-Thread Pitch (d)	Length (l) mm	Art. No.	P. Qty.
M6	M5-1.0	12	085.6..12	50
		20	085.6..20	
		25	085.6..25	
		30	085.6..30	
		50	085.6..50	
M8	M6-1.25	12	085.8..12	25
		25	085.8..25	
		30	085.8..30	
		40	085.8..40	
M10	M8-1.5	40	085.10.40	

Shank dia. D	M6	M8	M10
Head Diameter A	10	13	16
Head Height H	4.5	5.5	7
Thread Size D1	M5	M6	M8
Thread Length E	9.75	11.25	13.25
Hex-Drive J	3	4	5

STANDARD SOCKET SHOULDER BOLTS

High Alloy Steel • Bare
Stainless Steel 18.8 • OnDemand



Shank dia. (d)	1/4	5/16	3/8	1/2
Head Diameter max. (A)	0.375	0.438	0.562	0.750
Head Height max. (H)	0.188	0.218	0.250	0.312
Thread Size (D1)	#10	1/4	5/16	3/8
Thread Length (E)	0.375	0.438	0.500	0.625
No. of threads/inch - UNC	20	18	16	13
Hex-Drive (J)	1/8	5/32	3/16	1/4

Shank dia. (d)	Dia-Thread Pitch (d1)	Shank length (l) in inches	Art. No.	P. Qty.
1/4	#10 - 24	3/8	088.14.38	25
		1/2	088.14.12	
		3/4	088.14.34	
		1	088.14.1	
		1-1/4	088.14.114	
		1-1/2	088.14.112	
		2	088.14.2	
5/16	1/4 - 20	3/8	088.516.38	15
		1/2	088.516.12	
		3/4	088.516.34	
		1	088.516.1	
		1-1/4	088.516.114	25
		1-1/2	088.516.112	
		1-3/4	088.516.134	
		2	088.516.2	

Shank dia. (d)	Dia-Thread Pitch (d1)	Shank length (l) in inches	Art. No.	P. Qty.
3/8	5/16 - 18	3/8	088.38.38	25
		1/2	088.38.12	
		3/4	088.38.34	
		1	088.38.1	15
		1-1/4	088.38.114	
		1-1/2	088.38.112	
		1-3/4	088.38.134	
2	088.38.2	10		
1/2	3/8 - 16	3/8	088.12.38	15
		1/2	088.12.12	
		3/4	088.12.34	10
		1	088.12.1	
		1-1/4	088.12.114	25
		1-1/2	088.12.112	
		1-3/4	088.12.134	10
		2	088.12.2	5

ASSORTMENTS



Art. No. 964.255

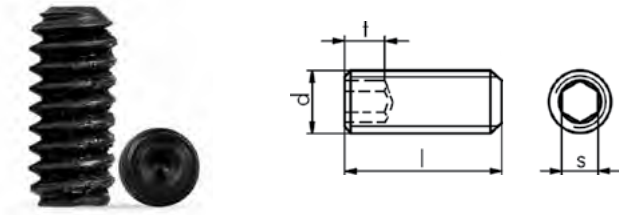
Metric Set Screw Assortment

Steel, flat point DIN 913, cone point DIN 914, Dog point DIN 915

Contents (540 pieces):

18 assorted sizes, size range M5 - M8

STANDARD SOCKET SET SCREWS - CUP POINT



Coarse Thread
Hex (Allan) Drive
Alloy • Bare
Stainless Steel 18.8

Applications:

Equipment Manufacturing •
Construction Equipment • Electronics
• Conveyor/Pulley Systems • Trucking
• Transportation • Wind • MRO

Thread Dia (d)	#4	#6	#8	#10	1/4	5/16	3/8	7/16	1/2
Hex-Drive (s)	0.050	1/16	5/64	3/32	1/8	5/32	3/16	7/32	1/4
Hex Socket depth (t)	0.070	0.080	0.090	0.100	0.125	0.156	0.188	0.219	0.250
No. of threads/inch UNC	40	32	32	24	20	18	16	14	13

Features:

Cup Point • Hex (Allan) Drive

Point Styles:

Cup – The most commonly used set screw style. Hollowed end, used when digging of the point is not desired.

Cone – Used for a permanent connection. This pointed end style generates the highest torsional holding power.

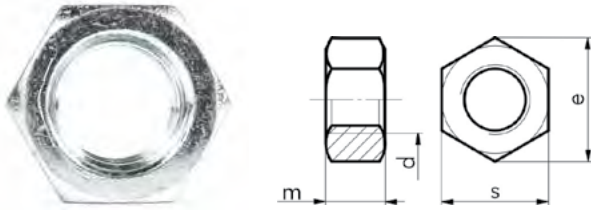
Oval – Typically used when frequent adjustment is required. The rounded end prevents and/or reduces indentation

Flat – Causes minimal damage to shafts and is used when frequent adjustment is required.

Dog – Threads stop short of the flat end, with the end fitting into hole.

Thread dia. (d) in inches	Length (l) in inches	Bare	P. Qty.	18-8 SS	P. Qty.
#4	1/4	255.440.14	25		
	1/8	255.632.18			
#6	3/16	255.632.316			
	1/4	255.632.14			
	3/8	255.632.38	100		
	1/2	255.632.12			
#8	3/16	255.832.316			
	1/4	255.832.14			
	3/8	255.832.38	50		
#10	1/2	255.832.12			
	1/4	255.1024.14			
	3/8	255.1024.38	100		
	1/2	255.1025.12			
1/4	3/4	255.1024.34			
	1/4	255.14.14	50		
	5/8			256.14.516	100
	3/8	255.14.38			
	1/2	255.14.12	50	256.14.12	100
5/16	5/8	255.14.58			
	3/4	255.14.34		256.14.34	
	5/16			256.516.516	100
	3/8	255.516.38	50	256.516.38	
3/8	1/2	255.516.12		256.516.12	
	3/4	255.516.34			
	5/16			256.38.516	100
	3/8	255.38.38	50		
	1/2	255.38.12			
7/16	5/8				
	3/4	255.38.34		256.38.34	100
	1	255.38.1		256.38.1	100
	1/2	255.716.12	25		
1/2	3/4	255.716.34			
	3/8				
	1/2	255.12.12		256.12.12	
	5/8			256.12.58	50
	3/4	255.12.34	25	256.12.34	

METRIC HEXAGON NUTS



DIN 934 (ISO 4032)

- Steel • Class 8.8 • Clear Zinc Plated
- Steel • Class 8.8 • Yellow Zinc Plated
- Steel • Class 10.9 • Bare
- Steel • Class 10.9 • Yellow Zinc Plated
- Steel • Class 10.9 • Clear Zinc Plated
- Stainless Steel A2

Applications:

- Transportation • Agriculture • Heavy Equipment • Construction • Mining • Off Road • Trucking • Rotary

Metric coarse thread															
Dia-Thread Pitch (d)	s in mm	e in mm	m in mm	Steel 8.8 Clear Zinc	P.	Steel 8.8 Yellow Zinc	P.	Steel 10.9 Bare	P.	Steel 10.9 Yellow Zinc	P.	Steel 10.9 Clear Zinc	P.	A2 Stainless	P.
M3-0.5	5.5	6.01	2.4	317.3	100										
M4-0.7	7	7.66	3.2	317.4	100									323.4	50
M5-0.8	8	8.79	4	317.5	100									323.5	50
M6-1.0	10	11.05	5	317.6	100	317.06	100	320.6	100	324.6	100	325.6	100	323.6	50
M7-1.0	11	12.12	5.5	317.7	100									323.8	50
M8-1.25	13	14.38	6.5	317.8	100	317.08	100	320.8	100	324.8	100	325.8	100		
M8-1.25*	12	11.28	6.5	317.8..12	50										
M10-1.5	17	18.9	8	317.10	100			320.10	100	324.10	50	325.10	50	323.10	25
M10-1.5*	15	18.4	8	317.10.15	50										
M12-1.75	19	21.1	10	317.12	50			320.12	100	324.12	50	325.12	50	323.12	25
M14-2.0	22	24.49	11	317.14	50			320.14	50	324.14	50				
M16-2.0	24	26.75	13	317.16	25			320.16	50	324.16	25			323.16	25
M18-2.5	27	29.56	15	317.18	25					324.18	25				
M20-2.5	30	32.95	16	317.20	25			320.20	25	324.20	25				
M24-3.0	36	39.55	19	317.24	10					324.24	25				

* with smaller width across flats

Metric fine thread							
Dia-Thread Pitch (d)	s in mm	e in mm	m in mm	Steel 8.8, Clear Zinc	P. Qty.	Steel 10.9, Yellow Zinc	P. Qty.
M8-1.0	13	14.38	6.5	317.8..113	50		
M10-1.0	17	18.9	8	317.10.1		324.10.1	50
M10-1.25	17	18.9	8	317.10.125			
M10-1.25	17	18	8	317.10.141			
M12-1.25	19	21.1	10	317.12.125			
M12-1.5	19	21.1	10	317.12.15	25	324.12.15	50
M14-1.5	22	24.49	11	317.14.15		324.14.15	50
M16-1.5	24	26.75	13	317.16.15		324.16.15	25
M18-1.5	27	29.56	15	317.18.15		324.18.15	25
M20-1.5				317.20.15			

ASSORTMENTS



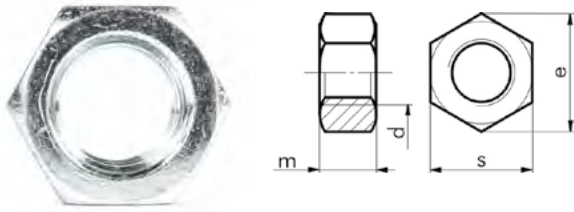
Art. No. 964.317

Metric Hex Nut Assortment

Steel, Zinc-Plated, DIN 934

Contents (1035 Pieces): 8 assorted sizes, size range M3-M16

STANDARD HEX NUTS



Steel • GR 5 • Clear Zinc Plated
 Steel • GR 8 • Yellow Zinc Plated
 Stainless Steel 18.8
 Stainless Steel 316

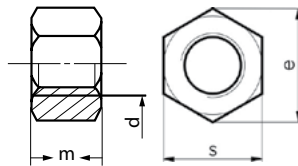
Applications:

Transportation • Agriculture • Heavy Equipment •
 Construction • Mining • Off Road • Trucking • Rotary

Thread Dia. (d)	#6	#8	#10	1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4	7/8	1	1-1/8	1-1/4	1-1/2
width across flats (s)	0.307	0.338	0.369	7/16	1/2	9/16	11/16	3/4	7/8	15/16	1-1/8	1-5/16	1-1/2	1-11/16	1-7/8	2-1/16
width across corners (e) max.	0.361	0.397	0.433	0.505	0.577	0.650	0.794	0.866	1.010	1.083	1.299	1.516	1.732	1.949	2.165	2.598
Thickness (m)	0.109	0.123	0.124	7/32	17/64	21/64	3/8	7/16	31/64	35/64	41/64	3/4	55/64	31/32	1-1/16	1-11/64
T.P.I. UNF	40	36	32	28	24	24	20	20	18	18	16	14	14	12	12	12
T.P.I. UNC	32	32	24	20	18	16	14	13	12	11	10	9	8	7	7	6

Thread dia. (d) in inches	UNF, Grade 5, Clear Zinc	P. Qty.	UNC, Grade 5, Clear Zinc	P. Qty.	UNF, Grade 8, Yellow Zinc	P. Qty.	UNC, Grade 8, Yellow Zinc	P. Qty.	UNC, 18-8 SS	P. Qty.	UNC, 316 SS	P. Qty.
#6									340.6	100		
#8									340.8	100		
#10									340.10	100	340.316.316	25
#10									340.1032*	100		
1/4	331.14	100	330.14	100	333.14	100	332.14	100	340.14	50	340.316.14	50
5/16	331.516	100	330.516	100	333.516	50	332.516	100	340.516	50	340.316.516	50
3/8	331.38	100	330.38	100	333.38	50	332.38	100	340.38	25	340.316.38	25
7/16	331.716	50	330.716	100	333.716	50	332.716	50	340.716	25		
1/2	331.12	50	330.12	100	333.12	50	332.12	50	340.12	25	340.316.12	25
9/16	331.916	25	330.916	50	333.916	50	332.916	50				
5/8	331.58	25	330.58	50	333.58	50	332.58	50	340.58	25	340.316.58	10
3/4	331.34	25	330.34	50	333.34	25	332.34	25	340.34	25	340.316.34	10
7/8			330.78	25	333.78	20	332.78	25				
1			330.1	10	333.1	10	332.1	10				
1-1/8							332.118	5				
1-1/4			330.114	5			332.114	5				
1-1/2							332.112	5				

STANDARD DEEP NUTS



Fine Thread • Black phosphate and oil finish
 Steel • GR 8 • UNF • double thickness nuts

Function:

High Torque Applications with High Tensile
 Strength Bolts or Studs • Heavy Duty Truck
 Wheels • Spring Centre Bolts or U Bolts

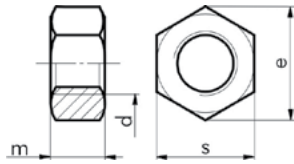
Applications:

Heavy Equipment • Trucking • Agriculture • Mining

Diameter (d)	3/4	7/8	1
Width across flats (s)	1-1/16	1-1/4	1-7/16
Height (m)	1	1-5/32	1-5/16
T.P.I. UNF	16	14	14

Thread dia. (d) in inches	Art. No.	P. Qty.
1/2	364.12	10
3/4	364.34	
7/8	364.78	
1	364.1	

STANDARD HEX JAM NUTS



Steel • GR 2 • Clear Zinc Plated
 Steel • GR 2 • Clear Zinc Plated • Left-hand Threads
 Bare • OnDemand

Function:

Typically used as a locking nut, where it is 'jammed' up against a standard nut, locking the two in place. Also used when clearance is an issue, where a standard nut will not fit.

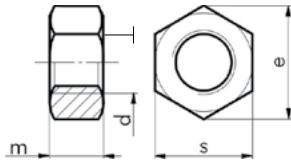
Applications:

High Vibration • Transportation • Heavy Equipment • Alternative Energy • Mining • Agriculture • Off Road • Trucking

Diameter(d)	1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4	7/8	1	1-1/8
width across flats (s)	7/16	1/2	9/16	11/16	3/4	7/8	15/16	1-1/8	1-5/16	1-1/2	1-11/16
width across corners (e) max.	0.505	0.577	0.650	0.794	0.866	1.010	1.083	1.299	1.516	1.732	1.949
Thickness (m)	5/32	3/16	7/32	1/4	5/16	5/16	3/8	27/64	31/64	35/64	39/64
T.P.I. UNF	28	24	24	20	20	18	18	16	14	12	12
T.P.I. UNC	20	18	16	14	13	12	11	10	9	8	7

Thread dia. (d) in inches	UNF, Clear Zinc	P. Qty.	UNC, Clear Zinc	P. Qty.
5/16	309.516	100	308.516	100
3/8			308.38	100
1/2			308.12	100
5/8	309.58	50	308.58	50
3/4	309.34	50		
7/8	309.78	25		

STANDARD HEX MACHINE SCREW NUTS



Steel • GR 2 • Clear Zinc Plated

Function:

Designed for use with machine screws in moderate to light loads. Used with bolts for heavier loads.

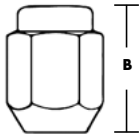
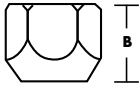
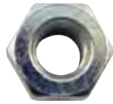
Applications:

High Vibration • Transportation • Construction • Heavy Equipment • Alternative Energy • Mining • Agriculture • Rotary

Diameter(d)	#4	#6	#8	#10	#12	1/4
width across flats (s)	1/4	5/16	11/32	3/8	7/16	7/16
width across corners (e) max.	0.354	0.442	0.486	0.530	0.615	0.619
Thickness (m)	0.092	0.108	0.124	0.124	0.155	0.186
T.P.I. UNF	48	40	36	32	28	28
T.P.I. UNC	40	32	32	24	24	20

Thread dia. (d) in inches	UNF	P. Qty.	UNC	P. Qty.
#4			329.4..40	100
#6			329.6..32	
#8			329.8..32	
#10	329.10.32	100	329.10.24	
#12			329.12.24	
1/4			329.14.20	

TOYOTA WHEEL NUTS

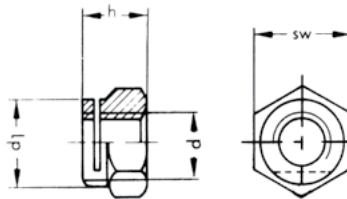


Applications:

- Passenger Car/Light Truck.
- For use in replacing the chrome wheel nuts when steel wheels replace aluminum mag wheels.

Ref.	Size	A	B	Finish	Art. No.	P. Qty
1	M12 x 1.5	21mm	16mm	Zinc	360.18	100
2			35mm	Chrome	360.35	50

METRIC SLOTTED LOCKING EXHAUST NUTS



Material:

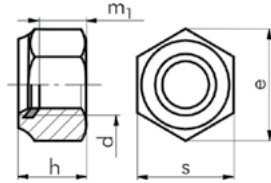
Steel with heavy copper coating
 Temperature resistant from -70 °C to +400 °C (-94 °F to +752 °F)

DIN 14440 (standard wrench size)					
Dia-Thread Pitch (d)	Height in mm (h)	d1 in mm	sw in mm	Art. No.	P. Qty.
M8-1.25	8.5	12.5	13	365.2	50
M10-1.5	10.5	16.5	17	365.3	50

DIN 14441 (small wrench size)					
Dia-Thread Pitch (d)	Height in mm (h)	d1 in mm	sw in mm	Art. No.	P. Qty.
M8-1.0	8.5	11.5	12	366.8*	50
M8-1.25	8.5	11.5	12	366.2	
M10-1.5	10.5	13.5	14	366.3	
M10-1.25	10.5	13.5	14	366.7	

OnDemand*

METRIC HEXAGON NYLON LOCK NUTS



DIN 985

Steel • Class 8.8 • Clear Zinc Plated
 Steel • Class 10.9 • Yellow Zinc Plated
 Stainless Steel A2

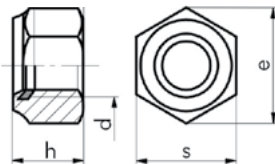
Applications:

High Vibration • Alternative Energy • Engines •
 Bearings • Off Road • Transportation • Mining •
 Heavy Equipment • Construction • Agriculture

Dia-Thread Pitch (d)	e in mm	h in mm	m1 in mm	s in mm	Steel 8.8 Clear Zinc	P. Qty.	Steel 10.9 Yellow Zinc	P. Qty.	A2 Stainless	P. Qty.
M3-0.5					368.3	100				
M4-0.7	7.66	5	2.2	7	368.4	100			391.4	100
M5-0.8	8.79	5	2.75	8	368.5	100			391.5	100
M6-1.0	11.05	6	3.3	10	368.6	100	370.6	100	391.6	100
M7-1.0	12.12	7.5	3.85	11	368.7	50				
M8-1.25	14.38	8	4.4	13	368.8	100	370.8	100	391.8	100
M8-1.0	14.38	8	4.4	13	368.8..1	50				
M10-1.5	18.9	10	5.5	17	368.10	100	370.10	50	391.10	50
M10-1.0	18.9	10	5.5	17	368.10.1	50				
M10-1.25	18.9	10	5.5	17	368.10.125	50				
M12-1.75	21.21	12	6.6	19	368.12	50	370.12	50	391.12	50
M12-1.25	21.1	12	6.6	19	368.12.125	50				
M12-1.5	21.1	12	6.6	19	368.12.15	50				
M14-2.0	24.49	14	7.7	22	368.14	50	370.14	50		
M16-2.0	26.75	16	8.8	24	368.16	25	370.16	25		
M18-2.5	29.56	18.5	9.9	27	368.18	25	370.18	25		
M20-2.5	32.95	20	11	30	368.20	25	370.20	25		
M24-3.0					368.24	25				

* with smaller width across flats

STANDARD HEX NYLON JAM NUTS



Steel • GR 2 • Clear Zinc Plated

Function:

Typically used as a locking nut, where it is 'jammed' up against a standard nut, locking the two in place. Also used when clearance is an issue, where a standard nut will not fit.

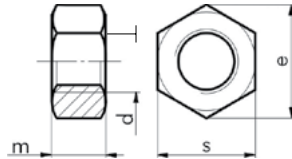
Applications:

High Vibration • Transportation • Heavy Equipment • Alternative Energy • Mining • Agriculture • Off Road • Trucking

Thread dia. (d) in inches	UNF	P. Qty.	UNC	P. Qty.
1/4			311.14	100
5/16			311.516	100
3/8	312.38	100	311.38	100
1/2			311.12	100
5/8	312.58	50		
1	312.1	10		

Diameter(d)	1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4	7/8	1
width across flats (s)	7/16	1/2	9/16	5/8	3/4	7/8	15/16	1-1/16	1-1/4	1-7/16
width across corners (e) max.	0.505	0.517	0.650	0.794	0.866	1.010	1.083	1.299	1.516	1.732
Thickness (m)	7/32	17/64	21/64	3/8	7/16	31/64	35/64	41/64	3/4	55/64
T.P.I. UNF	28	24	24	20	20	18	18	16	14	12
T.P.I. UNC	20	18	16	14	13	12	11	10	9	8

STANDARD HEX MACHINE SCREW NUTS



Steel • GR 2 • Clear Zinc Plated

Function:

Designed for use with machine screws in moderate to light loads. Used with bolts for heavier loads.

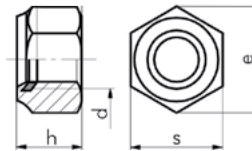
Applications:

- High Vibration • Transportation • Construction
- Heavy Equipment • Alternative Energy
- Mining • Agriculture • Rotary

Diameter(d)	#4	#6	#8	#10	#12	1/4
width across flats (s)	1/4	5/16	11/32	3/8	7/16	7/16
width across corners (e) max.	0.354	0.442	0.486	0.530	0.615	0.619
Thickness (m)	0.092	0.108	0.124	0.124	0.155	0.186
T.P.I. UNF	48	40	36	32	28	28
T.P.I. UNC	40	32	32	24	24	20

Thread dia. (d) in inches	UNF	P. Qty.	UNC	P. Qty.
#4			329.4..40	100
#6			329.6..32	
#8			329.8..32	
#10	329.10.32	100	329.10.24	
#12			329.12.24	

STANDARD NYLON INSERT LOCK NUTS



Steel • GR 2 • Clear Zinc Plated
 Steel • GR 8 • Yellow Zinc Plated
 Stainless Steel 18.8
 Stainless Steel 316

Applications:

- High Vibration • Alternative Energy • Engines • Bearings • Off Road • Transportation • Mining • Heavy Equipment • Construction • Agriculture

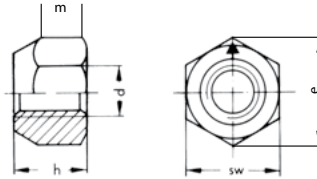
Thread Dia. (d)	#4	#6	#8	#10	1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4	7/8	1	1-1/8	1-1/4	1-1/2
width across flats (s)	1/4	5/16	11/32	3/8	7/16	1/2	9/16	5/8	3/4	7/8	15/16	1-1/16	1-1/4	1-7/16	1-5/8	1-13/16	2-3/16
width across corners (e) max.	0.325	0.361	0.397	0.433	0.505	0.577	0.650	0.866	0.866	1.083	1.083	1.299	1.516	1.732	1.949	2.165	2.598
Thickness (m)	0.146	0.178	0.229	0.239	0.313	0.344	0.453	0.453	0.594	0.641	0.750	0.875	0.984	1.047	1.188	1.375	1.625
T.P.I. UNF	48	40	36	32	28	24	24	20	20	18	18	16	14	12	12	12	12
T.P.I. UNC	40	32	32	24	20	18	16	14	13	12	11	10	9	8	7	7	6

Thread dia. (d) in inches	Coarse Thread, Grade 5, Clear Zinc	P. Qty.	Grade 8, Yellow Zinc	P. Qty.	18-8 SS	P. Qty.	316 SS	P. Qty.
#6	374.6..32	100			367.0632	100		
#8	374.8..32	100			367.0832	100		
#10	373.1024	100			367.10	50	367.316.10	50
1/4	373.14	100	373.014	50	367.14	50	367.316.14	50
5/16	373.516	50	373.0516	50	367.516	50	367.316.516	50
3/8	373.38	50	373.038	50	367.38	50	367.316.38	50
7/16	373.716	50	373.0716	25	367.716	50		
1/2	373.12	25	373.012	25	367.12	50		
9/16	373.916	50	373.0916	25				
5/8	373.58	25	373.058	25	367.58	50		
3/4	373.34	10	373.034	25	367.34	50		
7/8	373.78	10	373.078	10				
1	373.1	10	373.01	5				
1-1/4	373.114	5						
1-1/2	373.112	5						

Thread dia. (d) in inches	Fine Thread, Grade 5, Clear Zinc	P. Qty.	Grade 8, Yellow Zinc	P. Qty.	18-8 SS	P. Qty.
#10	374.10.32	100			367.10.32	50
1/4	374.14	100	374.014	100		
5/16	374.516	100	374.0516	100		
3/8	374.38	100	374.038	50		
7/16	374.716	50	374.0716	25		
1/2	374.12	50	374.012	50		

Thread dia. (d) in inches	Fine Thread, Grade 5, Clear Zinc	P. Qty.	Grade 8, Yellow Zinc	P. Qty.	18-8 SS	P. Qty.
9/16	374.916	50	374.0916	20		
5/8	374.58	25	374.058	25		
3/4	374.34	20	374.034	25		
7/8			374.078	15		
1			374.01	10		

METRIC STOVER LOCK NUTS



DIN 980

Steel • Class 8.8 • Clear Zinc Plated
Steel • Class 10.9 • Yellow Zinc Plated
Crimp Nut • Copper Plated

Applications:

Extreme Vibration • Farming Machinery • Agriculture • Automotive • Metalworking • Heavy Equipment • Manufacturing

Features:

Can withstand severe vibration and shock loads • Reusable

Dia-Thread Pitch (d)	Width across corners mm (e)	(h) in mm	m1 in mm	sw in mm	Steel 10.9, Yellow Zinc	P. Qty.	Crimp Nut Copper plated	P. Qty.
M8-1.25	14.38	8	4.4	13	369.8	50		
M8-1.25*	14.38	8	4.4	12			369.8..12	50
M10-1.5	18.9	10	5.5	17	369.010	50		
M10-1.5	15.8	9	7.2	14			369.10.149	50
M12-1.75	21.21	12	6.6	19	369.012	25		
M14-2.0	24.49	14	7.7	22	369.014	25		
M16-2.0	26.75	16	8.8	24	369.016	20		
M20-2.5	32.95	20	11	30	369.020	10		

* with smaller width across flats

STANDARD STOVER LOCK NUTS



Steel • GR C • cadmium plated

Features:

Can withstand severe vibration and shock loads • Reusable

Applications:

Extreme Vibration • Farming Machinery • Agriculture • Automotive • Metalworking • Heavy Equipment • Manufacturing

Thread dia. in inches	UNF, Cadmium Plated	P. Qty.	UNC, Cadmium Plated	P. Qty.
1/4	334.14	100	335.14	100
5/16	334.516	50	335.516	100
3/8	334.38	50	335.38	100
7/16	334.716	50	335.716	50
1/2	334.12	50	335.12	50
9/16	334.916	50	335.916	50
5/8	334.58	50	335.58	50
3/4	334.34	25	335.34	25
7/8	334.78	25	335.78	25
1	334.1	10	335.1	10
1-1/8	334.118	5	335.118	5

Dimension	9/16	3/4	7/8	1	1-1/8
Width across flats	7/8	1-1/8	1-5/16	1-1/2	1-1/2
Height	0.496	0.655	0.776	0.887	1.035
T.P.I UNC	12	10	9	8	7
T.P.I UNF	18	16	14	12	12

STANDARD STOVER FLANGE LOCK NUTS



Steel • GR G • Clear Zinc Plated/wax

Features:

Can withstand severe vibration and shock loads • Reusable

Applications:

Extreme Vibration • Farming Machinery • Agriculture • Automotive • Metalworking • Heavy Equipment • Manufacturing

Dimension	1/4	5/16	3/8	7/16	1/2	5/8
Width across flats (sw)	7/16	1/2	9/16	11/16	3/4	15/16
Height (h)	0.226	0.273	0.337	0.385	0.448	0.559
T.P.I UNC	20	18	16	14	13	11
T.P.I UNF	28	24	24	20	20	18

Thread dia. (d) in inches	UNC, Zinc/Wax	P. Qty.
1/4	318.14	25
5/16	318.516	25
3/8	318.38	50
7/16	318.716	25

Pack sizes subject to change without notice

Some sizes and finishes available OnDemand

METRIC SERRATED FLANGE HEX NUTS



Similar to DIN 6923

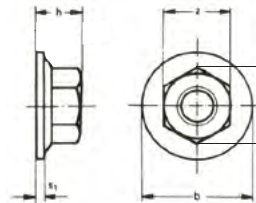
Steel • Class 10.9 • Yellow Zinc Plated
Steel • Class 10.9 • Clear Zinc Plated

Applications:

High Vibration • Transportation • Mining • Heavy Equipment • Agriculture • Bushings • Bearings • Off Road • Alternative Energy

Dia-Thread Pitch (d)	s in mm	d1 in mm	m in mm	e in mm	Steel 10.9, Yellow Zinc	P. Qty.	Steel 10.9, Clear Zinc	P. Qty.
M6-1.0	10	14.2	6	11.05	315.6	100	315.61	100
M8-1.25	12	17.9	8	14.38	315.8	100	315.81	100
M10-1.25	14	21.8	10	16.64	315.10	100	315.10.1	100
					315.10.BK	500		
M12-1.25	17	26	12	20.03	315.12	50		

STANDARD SERRATED HEX FLANGE NUTS



Steel • GR 2 • Clear Zinc Plated
Case hardened
Serrated base

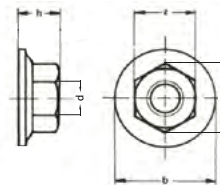
Applications:

High Vibration • Transportation • Mining • Heavy Equipment • Agriculture • Bushings • Bearings • Off Road • Alternative Energy

Thread Dia. (d)	1/4	5/16	3/8	7/16	1/2	5/8	3/4
Width across flats (s)	7/16	1/2	9/16	11/16	3/4	15/16	1-1/8
Width across corners (e) max.	0.505	0.517	0.650	0.794	0.866	1.083	1.299
Thickness (m)	0.594	0.680	0.810	0.937	1.070	1.330	1.585
No. of threads	0.14	0.17	0.23	0.26	0.31	0.40	0.46
T.P.I. UNF	0.300	0.365	0.425	0.495	0.555	0.690	0.825
T.P.I. UNC	20	18	16	14	13	11	10

Thread dia. (d) in inches	Art. No.	P. Qty.
1/4	322.14	100
5/16	322.516	
3/8	322.38	
7/16	322.716	
1/2	322.12	
5/8	322.58	50
3/4	322.34	25

STANDARD HEX FLANGE LOCK NUTS



Steel • GR G • Black phosphate and oil finish

Applications:

High Vibration • Transportation • Mining • Heavy Equipment • Agriculture • Bushings • Bearings • Off Road • Alternative Energy

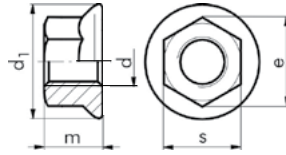
Function:

For use with Prefix 064 and 065 Frame Bolts.

Thread dia. (d) in inches	UNF	P. Qty.	UNC	P. Qty.
1/2	321.12	50	319.12	25
5/8	321.58		319.58	50
3/4	321.34 *NEW*		-	

Diameter (d)	1/2	5/8	3/4
Width across flats (s)	3/4	15/16	1.1"
Flange Diameter (b)	1.070	1.330	1.538
Thickness (h)	0.555	0.690	0.755
T.P.I. UNF	20	18	16
T.P.I. UNC	13	11	-

METRIC FLANGE HEX NUTS



Similar to DIN 6923

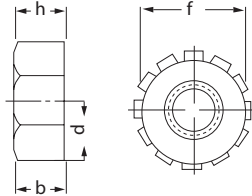
Steel • Class 10.9 • Yellow Zinc Plated
*Clear Zinc Plated

Applications:

Transportation • Mining • Heavy Equipment • Agriculture
• Bushings • Bearings • Off Road • Alternative Energy

Dia-Thread Pitch (d)	s in mm	d1 in mm	m in mm	e in mm	Art. No.	P. Qty.
M5-0.8	8	11.8	5	8.79	315.5*	100
M10-1.5	15	21.8	10	16.64	315.10.150	
M12-1.75	18	26	12	20.03	315.12.175	
M16-2	24	34.5	16	26.75	315.16.200	50

STANDARD KEPS LOCK NUTS



With serrated lock washer
Steel • GR 2 • Clear Zinc Plated

Applications:

High Vibration • Transportation • Automotive • Heavy Equipment
• Alternative Energy • Mining • Agriculture • Rotary

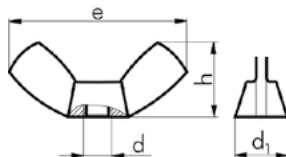
Features:

Reusable one-piece solution • Suitable for long thread assemblies • Will not gall mating threads • Serrated lock washer grips mating surface and locks once tightened

Diameter (d)	#6	#8	#10	1/4	5/16	3/8
Width (f)	5/16	11/32	3/8	7/16	1/2	9/16
Overall Thickness (b)	9/64	5/32	5/32	15/64	11/32	
Nut Thickness (h)	7/64	1/8	1/8	3/16	9/32	
T.P.I. UNF	40	36	32	28	24	24
T.P.I. UNC	32	32	24	20	18	16

Thread dia. (d) in inches	UNF	P. Qty.	UNC	P. Qty.
#6			328.6..32	100
#8			328.8..32	
#10	328.10.32	100	327.10.24	
1/4	328.14	100	327.14	
5/16			327.516	
3/8			327.38	

STANDARD WING NUTS



Steel • GR 2 • Clear Zinc Plated
Stainless Steel 18.8

Applications:

Transportation • Automotive • Heavy Equipment •
Alternative Energy • Mining • Agriculture • Rotary

Function:

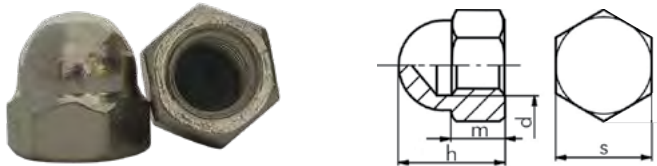
Used in low torque applications that require frequent adjustment and/or disassembly • Tightening/Loosening can be done manually

Diameter (d)	#6	#8	#10	1/4	5/16	3/8	1/2
Wings (e)	27/32	27/32	27/32	1-1/16	13/16	1-3/8	1-7/8
Height (h)	13/32	13/32	13/32	1/2	19/32	11/16	15/16
(d1) max.	0.33	0.43	0.45	0.50	0.58	0.70	0.93
T.P.I. UNF	40	36	32	28	24	24	20
T.P.I. UNC	32	32	24	20	18	16	13

Thread dia. (d) in inches	UNC, Clear Zinc	P. Qty.	UNF, 18-8 SS	P. Qty.	UNC, 18-8 SS	P. Qty.
#6					344.632	100
#8					344.832	
#10					344.1024	
1/4	343.14	50			344.14	
5/16	343.516	50			344.516	
3/8	343.38	50			344.38	
1/2					344.12	50

STANDARD ACORN NUTS (CAP NUTS)

Stainless Steel 18.8



Applications:

Transportation • Automotive • Heavy Equipment • Alternative Energy • Mining • Agriculture • Rotary

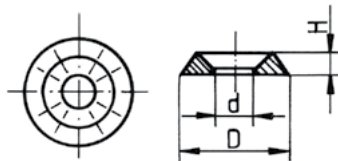
Features:

Used alone or as a cap for a hex/jam nut • Conceal threaded fastener ends with decorative finish • Protection for protruding or sharp threads • Can be used to drive small hanger bolts

Diameter (d)	#6	#8	#10	1/4	5/16	3/8	1/2
Height (h)	1/4	9/32	11/32	3/8	7/16	1/2	9/16
Width Across Flats (s)	1/4	5/16	3/8	7/16	9/16	5/8	3/4
Nut Height (m)	9/94	5/32	11/64	1/4	17/64	19/64	23/64
T.P.I. UNC	32	32	24	20	18	16	13
T.P.I. UNF			32				

Thread dia. (d) in inches	UNF	P. Qty.	UNC	P. Qty.
#6			345.632	100
#8			345.832	
#10	345.1032	100	345.1024	
1/4			345.14	
5/16			345.516	
3/8			345.38	

METRIC COUNTERSUNK WASHERS



DIN 17670

Brass • Black Burnished
Plastic

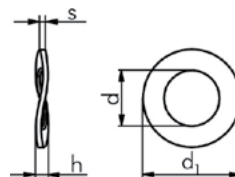
Applications:

Countersunk or cup washers are used as an underlay for the various countersunk screws. They can be used as washers, as centering devices, and especially to compensate the pressure in the parts to be fastened, in particular in soft materials such as wood, plastic, leather, etc.

d mm	D mm	H mm	Brass, black burnished	P. Qty.	Plastic	P. Qty.
M4	12.0	3.0			458.0124*	100
M4.8	12.7	2.7	458.4125	50		
M6	13.0	3.0	458.4136	50		

* Plastic countersunk washer for BMW

METRIC SPRING WASHERS



DIN 137B

Steel • Clear Zinc Plated

Function:

Spring washers are classes of spring action retaining elements that act via axial spring force.

Screw Size	d in mm	d1 in mm	s in mm	h in mm	Art. No.	P. Qty.
M5	5.3	11	0.5	2.2	435.5	100
M6	6.4	12	0.5	2.6	435.6	
M7	7.4	14	0.8	3.0	435.7	
M8	8.4	15	0.8	3.0	435.8	
M10	10.5	21	1.0	4.2	435.10	
M12	13.0	24	1.2	5.0	435.12	

ASSORTMENTS



Art. No. 964.411

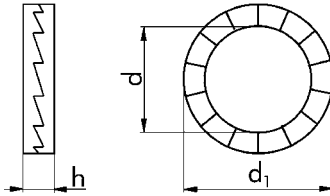
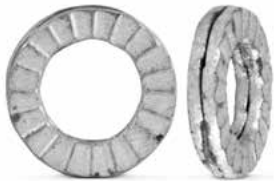
Metric Fender Washer Assortment

Steel, Zinc-Plated

Contents (1400 Pieces):

16 assorted sizes, size range M4-M12

NORD-LOCK® LOCK WASHERS



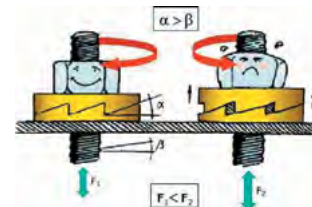
Lock washer according to DIN 25201

Steel • Yellow Zinc Plated (A2C)

Prevents loosening of screw connections subject to lateral, vibrating loads.

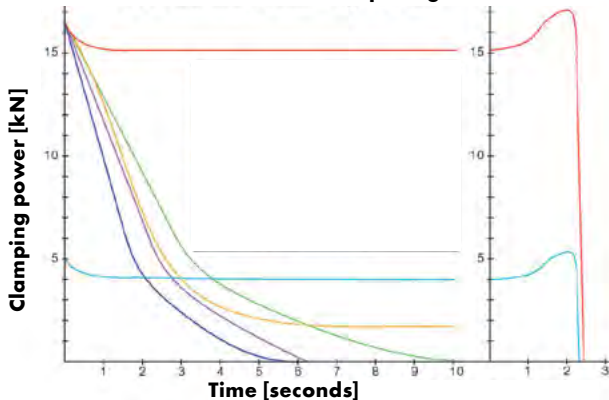
Function:

Strong wedge locking effect through the rise of the cams between the two washers. The screw connection is secured by tension rather than friction.



Bolt or Screw size	I.D. (d) mm	O.D. (d1) mm	Thickness (h) mm	Art. No.	P. Qty.
M5	5.4	9	1.8	401.700205	100
M6	6.5	10.8	1.8	401.700206	
M8	8.7	13.5	2.5	401.700208	
M10	10.7	16.6	2.5	401.700210	
M12	13	19.5	2.5	401.700212	50
M14	15.2	23	3.4	401.700214	
M16	17	25.4	3.4	401.700216	
M18	19.5	29	3.4	401.700218	
M20	21.4	30.7	3.4	401.700220	

Vibration Test Screw with clamp. length of 25 mm



- Standard nut M8 with Nord-Lock® at 70% of apparent yield point
- Standard nut M8 on screw with clamping length of 50 mm
- Nut with plastic insert (DIN 985)
- Lock washer
- Standard nut M8
- Standard nut M8 with Nord-Lock® at 25% of apparent yield point

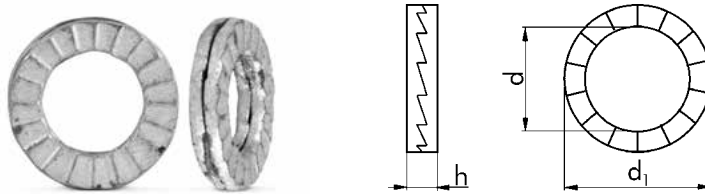
Advantages:

- Maximum security when locking screw connections.
- No loosening under vibration and dynamic loads.
- Simple assembly and disassembly.
- No impairment by lubricants.
- Assures locking function at high or low pre-stressing forces.
- Temperature range for use identical to that of the screw.
- Gentle on surface finish.
- Re-usable.

Areas of application

Automobile industry, machine building, manufacturers of compressed air and electric power tools, mining, agricultural machinery, mixing plants, transport and conveying systems.

METRIC NORD LOCK WASHER



Screw Size	(d) in mm	(d1) in mm	(h) in mm	Art. No.	P. Qty.
M4	4.4	9	1.7	401.770004	100
M5	5.4	10.8	1.7	401.770005	
M6	6.5	13.5	2.7	401.770006	
M8	8.6	16.6	2.7	401.770008	
M10	10.7	21.0	2.7	401.770010	
M12	13	25.4	2.7	401.770012	50
M14	15.2	30.7	2.7	401.770014	100
M16	17	30.7	2.7	401.770016	50
M18	19.5	34.5	2.7	401.770018	100
M20	21.4	39	2.7	401.770020	50
M24	25.3	48.5	3.7	401.770024	50

Applications:

Vehicle manufacturing, mechanical engineering, manufacturers of pneumatic and electric tools, mining, agricultural machine manufacturing, manufacturers of mixing systems, transport and conveying systems.

Type BF with enlarged contact surface.

Lock washer according to DIN 25201 against unscrewing of laterally loaded, vibrating screw connections subject to oscillations.

Delta Protect (DPG)

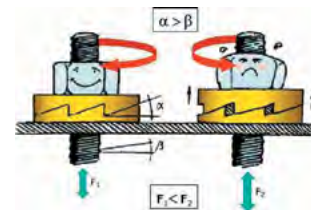
(Delta Protect - a high performance double-layer zinc-based anti-corrosion coating. No hydrogen embrittlement occurs with this coating).

Corrosion resistance:

720 H base metal corrosion pursuant to DIN EN ISO 9227-NSS (DIN 50021-SS) - in comparison: 96 hr. Yellow Zinc Plated (A2C).

Function:

- High locking effect due to the ascent of the wedge surfaces between the two lock washers.
- The screw connection is locked by pretension and friction.



Advantages:

- Maximum safety when locking screw connections.
- Maximum locking effect against unscrewing during vibration loading and dynamic loads.
- Simple assembly and dismantling.
- No impairment by lubricant.
- Ensures locking function with high and low pretension forces.
- Same temperature range as screw.
- Protects surfaces.
- Reusable.

STANDARD FINISHING CUP WASHERS



Nickel plated
Stainless Steel 18.8

Function:

Designed for use with flat and/or oval head screws, providing a large bearing surface as well as a finished countersunk appearance.

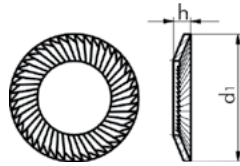
Screw Size	O.D. (d)	Thickness (h)	Nickel plated	P. Qty.	18-8 SS	P. Qty.
#6	7/16	0.165	453.6	100		100
#8	1/2	0.193	453.8		453.08	
#10	19/32	0.228	453.10		453.010	
#12	11/16	0.291			453.012	

SCHNORR LOCK WASHERS 'S'

Steel • Clear Zinc Plated

Features:

- The shape of the spring washers produces optimum friction locking combined with maximum positive locking.
- The lock washer is designed so that it can also be used with Countersunk and Allen heads, as well as with Cheese heads.

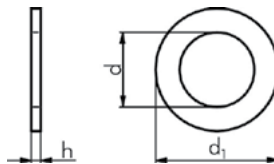


Bolt or Screw size	O.D. (d1) mm	Height (h) mm	Art. No.	P. Qty.
M6	10	1.2	493.06	200
M8	13	1.4	493.08	
M10	16	1.6	493.010	100
M12	18	1.7	493.012	
M14	22	2	493.014	
M16	24	2.1	493.016	
M20	30	2.4	493.020	

METRIC WASHERS

DIN 125

Steel • Clear Zinc Plated
 Steel • Yellow Zinc Plated
 Hardened • Clear Zinc Plated
 Stainless Steel A2

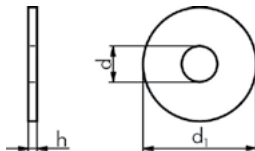


Screw Size	d in mm	d1 in mm	Thickness h in mm	Steel, Clear Zinc	P. Qty.	Steel, Yellow Zinc	P. Qty.	A2 Stainless	P. Qty.	Hardened, Yellow Zinc	P. Qty.
M3	3.2	7	0.5	407.3	200						
M4	4.3	9	0.8	407.4	200			406.4	100		
M5	5.3	10	1.0	407.5	200			406.5	100		
M6	6.4	12	1.6	407.6	200	407.06	100	406.6	100	402.6	100
M7	7.4	14	1.6	407.7	200						
M8	8.4	16	1.6	407.8	200	407.08	100	406.8	100	402.8	100
M10	10.5	20	2.0	407.10	100	407.010	100	406.10	100	402.10	50
M12	13.0	24	2.5	407.12	100			406.12	50	402.12	50
M14	15.0	28	2.5	407.14	50			406.14	50	402.14	50
M16	17.0	30	3.0	407.16	50					402.16	25
M18	19.0	34	3.0	407.18	50					402.18	25
M20	21.0	37	3.0	407.20	50					402.20	10
M24	25.0	44	4.0	407.24	50						

METRIC WASHERS

DIN 9021

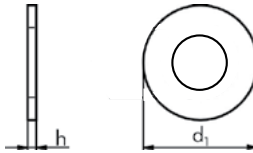
With large outside diameter
 Steel • Clear Zinc Plated



Screw Size	d in mm	d1 in mm	h in mm	Art. No.	P. Qty.
M4	4.3	12	1.00	416.4	100
M5	5.3	15	1.20	416.5	
M6	6.4	18	1.60	416.6	
M8	8.4	24	2.00	416.8	

Screw Size	d in mm	d1 in mm	h in mm	Art. No.	P. Qty.
M10	10.5	30	2.50	416.10	100
M12	13	37	3.00	416.12	
M16	17	50	3.00	416.16	50
M20	22	60	4.00	416.20	

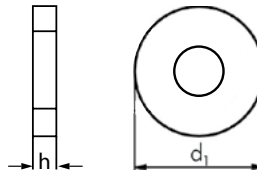
STANDARD USS WASHERS



Steel • GR 5 • Bare
 Steel • GR 5 • Clear Zinc Plated
 F436 • High Alloy • Yellow Zinc Plated

Bolt or Screw size	O.D. (d1)	Thickness (h)	Bare	P. Qty.	Clear zinc	P. Qty.	Yellow zinc	P. Qty.
#10	9/16	3/64		100	408.10			
1/4	3/4	1/16		100	408.14		410.014	100
5/16	7/8	5/64		100	408.516		410.0516	100
3/8	1	5/64		100	408.38		410.038	100
7/16	1-1/4	3/32		100	408.716		410.0716	50
7/16	1-1/4	3/32		1000				
1/2	1-3/8	7/64		100	408.12		410.012	50
9/16	1-1/2	7/64		100	408.916		410.0916	25
5/8	1-3/4	9/64		50	408.58		410.058	25
3/4	2	9/64		50	408.34		410.034	25
7/8	2-1/4	5/32		50	408.78		410.078	10
1	2-1/2	5/32		50	408.1		410.01	10
1-1/8	2-3/4	5/32	408.118			25		
1-1/4	2-3/4	5/32	408.114			25		
1-1/2	3-1/4	11/64	408.112			25		

STANDARD USS/SAE WASHERS EXTRA THICK

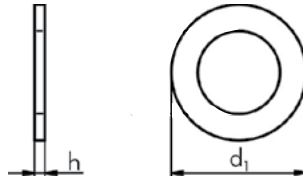


High Alloy Steel •
 Yellow Zinc Plated

Bolt or Screw size	(d1)	(h)	USS	SAE	P. Qty.
1/4	5/8	3/32		420.14.58	50
1/4	3/4	3/32	420.14.34		
5/16	11/16	3/32		420.516.1116	
5/16	7/8	3/32	420.516.78		
3/8	13/16	1/8		420.38.1316	
3/8	1	1/8	420.38.1		
7/16	15/16	1/8		420.716.1516	25
7/16	1-1/4	1/8	420.716.114		
1/2	1-1/16	3/16		420.12.1116	
1/2	1-3/8	3/16	420.12.138		

Bolt or Screw size	(d1)	(h)	USS	SAE	P. Qty.
9/16	1-3/16	3/16		420.916.1316	25
9/16	1-1/2	3/16	420.916.112		
5/8	1-5/16	3/16		420.58.1516	
5/8	1-3/4	3/16	420.58.134		
3/4	1-1/2	3/16		420.34.112	20
3/4	2	3/16	420.34.2		
7/8	1-3/4	1/4		420.78.134	
7/8	2-1/4	1/4	420.78.214		
1	2	1/4		420.1..2	
1	2-1/2	1/4	420.1..212		

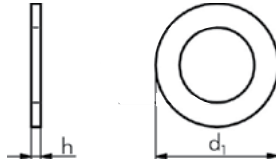
STANDARD SAE WASHERS



Steel • GR 5 • Clear Zinc Plated
 F436 • GR 8 • Yellow Zinc Plated
 F436 • GR 8 • Yellow Zinc Plated • Extra Thick
 Steel • GR L9-Spec • Yellow Zinc Plated
 Stainless Steel 18.8
 Stainless Steel 316

Bolt or Screw size	O.D. (d1)	Thickness (h)	Grade 5, Clear Zinc	P. Qty.	F436 Grade 8, Yellow Zinc	P. Qty.	L9-Spec, Yellow Zinc	P. Qty.	18-8 SS	P. Qty.	Type 'B' 316 SS	P. Qty.	Type 'A' 316 SS	P. Qty.
#6	3/8	1/32							426.6	100				
#8	3/8	1/32							426.8	100				
#10	1/2	1/16	409.10	100					426.10	100	426.316.10	100		
#12	9/16	1/16							426.12	100	426.316.12	100		
1/4	5/8	1/16	409.14	100			404.14	100	426.14	100	426.316.14	100	428.14	100
5/16	11/16	1/16	409.516	100			404.516	100	426.516	100	426.316.516	100	428.516	50
3/8	13/16	1/16	409.38	100			404.38	100	426.38	100	426.316.38	100	428.38	50
7/16	59/64	1/16	409.716	100			404.716	50	426.716	100	426.316.716	100		
1/2	1-1/2	1/16	409.12	100			404.12	50	426.012	50	426.316.012	50	428.12	25
9/16	1-3/16	3/32	409.916	100			404.916	50			426.316.58	50		
9/16	1-3/16	3/16			410.9160	50								
5/8	1-5/16	3/32	409.58	50			404.58	50	426.58	50				
5/8	1-5/16	13/64			410.580	50								
3/4	1-1/2	1/8	409.34	50			404.34	25	426.34	25	426.316.34	25		
7/8	1-3/4	1/8	409.78	40			404.78	30						
1	2	1/8	409.1	25			404.1	25						
1-1/8	2-1/4	1/8			410.118	10								
1-1/4	2-1/2	5/32			410.114	10								
1-1/2	3	5/32			410.112	10								

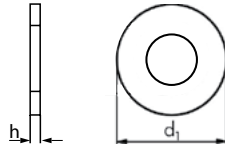
STANDARD SAE WASHERS – F436



F436 • GR8 • Yellow Zinc Plated

Bolt or Screw Size	O.D. (d1)	Thickness (h)	Art. No.	P. Qty
1/4	0.625	0.075"	422.14	100
5/16	0.688		422.516	
3/8	0.813		422.38	
7/16	0.922		422.716	
1/2	1.063	0.100"	422.12	50
9/16	1.188		422.916	
5/8	1.313	0.130"	422.58	25
3/4	1.468		422.34	
7/8	1.75		422.78	
1	2	0.150"	422.1	10
1-1/8	2-1/4		410.118	
1-1/4	2-1/2		410.114	
1-1/2	3		410.112	

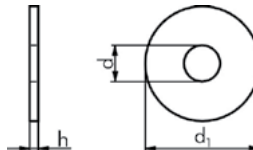
STANDARD MACHINE SCREW WASHERS



SAE • Clear Zinc Plated

Screw Size	O.D. (d1)	Thickness (h)	Art. No.	P. Qty.
#6	0.375	0.049	403.6	100
#8	0.438	0.049	403.8	
#10	0.500	0.049	403.10	
#12	0.562	0.065	403.12	

METRIC FENDER WASHERS



Large outside diameter
Steel • Clear Zinc Plated
Stainless Steel 18.8

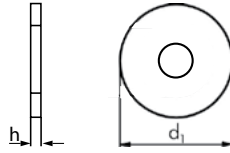
Screw Size	d1 in mm	d in mm	h in mm	DIN 522 Steel, Clear Zinc	P. Qty.	DIN 9021 18.8 Stainless	P. Qty.
M4	12	4.3	1.25	411.4..12	100		
	20	4.3	1.25	411.4..20	100		
M5	15	5.3	1.25	411.5..15	100		
	20	5.3	1.46	411.5..20	100	415.5..15	100
M6	15	6.4	1.50	411.6..15	100		
	18	6.4	1.50	411.6..18	100		
	20	6.5	1.25	411.6..20	100		
	25	6.5	1.25	411.6..25	100		
M7	30	6.5	1.25	411.6..30	50		
	20	7.5	1.25	411.7..20	100		
M8	20	8.5	1.25	411.8..20	100		
	24	8.4	2			415.8..24	50
	25	8.5	1.25	411.8..24	100		
	25	8.5	1.50	411.8..25	100		
M10	30	8.5	1.5	411.8..30	100		
	20	10.5	1.50	411.10.20	100		
	25	10.5	1.50	411.10.25	100		
	30	10.5	1.50	411.10.30	50		
M12	30	10.5	2.5			415.10.30	25
	40	10.2	2.00	411.10.40	50		
	32	13.0	1.5	411.12.30	50		



Metric Fender Washer Assortment Art. No. 964.411

Contents: 1400 pieces
6 assorted sizes
Size range: M4-M12.

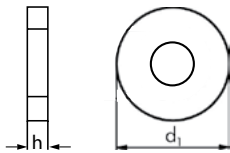
STANDARD FENDER WASHERS



Steel • GR 5 • Clear Zinc Plated
Stainless steel 18.8
Stainless steel 316

Bolt or Screw size	O.D. (d1)	Thickness (h)	Grade 5, Clear Zinc	P. Qty.	18-8 S	P. Qty.	316 S	P. Qty.
#10	1	3/64	412.316.1	100	413.10.1	100		
1/4	1	1/16					413.014.1	50
1/4	1-1/4	3/64	412.14.114	100	413.14.114	50		
1/4	1-1/2	3/64	412.14.112	100				
5/16	1-1/4	3/64	412.516.114	100			413.0516.114	50
5/16	1-1/2	3/64	412.516.112	100	413.516.112	50		
3/8	1-1/2	3/64	412.38.112	50	413.38.112	25	413.038.112	50
1/2	2	1/16	412.12.2	50				

STANDARD FENDER WASHERS EXTRA THICK



Steel • GR 5 • Clear Zinc Plated

Bolt or Screw size	O.D. (d1)	Thickness (h)	Art. No.	P. Qty.
1/4	1	1/8	414.14.1	50
1/4	1-1/2	1/8	414.14.112	
5/16	1-1/4	1/8	414.516.114	
5/16	1-3/4	1/8	414.516.134	
3/8	1-1/4	1/8	414.38.114	
3/8	1-3/4	1/8	414.38.134	
1/2	2	1/8	414.12.2	

GRADE 5 ZINC FENDER WASHER ASSORTMENT



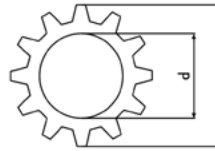
Art. No. 965.412225 - 225 pcs.

Art. No.	Description	Qty.
412.12.2	FENDER WASHER, GRADE 5 ZINC - 1/2" x 2" x 1/16"	25
412.14.112	FENDER WASHER, GRADE 5 ZINC - 1/4" x 1-1/2" x 3/64"	
412.14.114	FENDER WASHER, GRADE 5 ZINC - 1/4" x 1-1/4" x 3/64"	
412.38.112	FENDER WASHER, GRADE 5 ZINC - 3/8" x 1-1/2" x 3/64"	
412.516.112	FENDER WASHER, GRADE 5 ZINC - 5/16" x 1-1/2" x 3/64"	
412.516.114	FENDER WASHER, GRADE 5 ZINC - 5/16" x 1-1/4" x 3/64"	
414.12.2	FENDER WASHER, X-THICK, GRADE 5 ZINC - 1/2" x 2" x 1/8"	
414.14.112	FENDER WASHER, X-THICK, GRADE 5 ZINC - 1/4" x 1-1/2" x 1/8"	
414.516.134	FENDER WASHER, X-THICK, GRADE 5 ZINC - 5/16" x 1-3/4" x 1/8"	

Pack sizes subject to change without notice

Some sizes and finishes available OnDemand

METRIC SERRATED LOCK WASHERS



DIN 6798, with external teeth

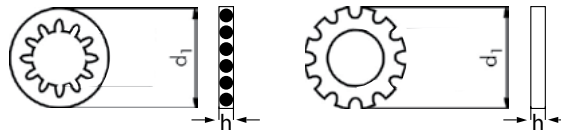
Steel • Clear Zinc Plated

Function:

Serrated lock washers are almost positive-fitting securing elements that lock with the surface of the components when the screw or nut is tightened.

Screw Size	d in mm	d1 in mm	Art. No.	P. Qty.
M5	5.3	10	429.5	100
M6	6.4	11	429.6	
M8	8.2	22	429.8	
M12	13	20.5	429.12	50

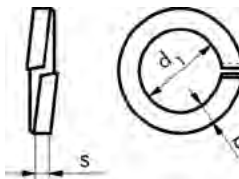
STANDARD TOOTH LOCK WASHERS



Clear Zinc Plated
Stainless Steel 410

External Tooth						Internal Tooth							
Bolt or Screw size	O.D. (d1)	Thickness (h)	Clear Zinc	P. Qty.	410 SS	P. Qty.	Bolt or Screw size	O.D. (d1)	Thickness (h)	Clear Zinc	P. Qty.	410 SS	P. Qty.
#6	5/16	0.020			433.006	100	#6	9/32	0.018			431.006	200
#8	3/8	0.020	427.8	100	433.008	100	#8	21/64	0.020			431.008	100
#10	13/32	0.022	427.10	100	433.010	100	#10	3/8	0.022			431.010	100
1/4	1/2	0.025	427.14	100	433.14	100	1/4	15/32	0.025	425.14	100	431.14	100
5/16	19/32	0.030	427.516	50	433.516	100	5/16	19/32	0.030	425.516	100	431.516	100
3/8	11/16	0.035	427.38	50			3/8	11/16	0.035	425.38	100	431.38	100
7/16	25/32	0.035	427.716	50			7/16	25/32	0.035				
1/2	7/8	0.040			433.12	100	1/2	7/8	0.040			431.12	100
5/8		0.040					5/8		0.040			431.58	100

METRIC SPLIT LOCK WASHERS



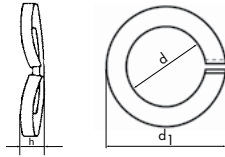
DIN 127

Spring Steel • Clear Zinc Plated
Spring Steel • Yellow Zinc Plated
Spring Steel • Hardened
• Clear Zinc Plated
Stainless Steel A2

Note: Only suitable for bolts of tensile strength class 5.8. For higher tensile strength classes, use serrated edge washers!

Screw Size	d1 in mm	s in mm	b in mm	Steel, Clear Zinc	P. Qty.	Steel, Yellow Zinc	P. Qty.	Hardened, Clear Zinc	P. Qty.	A2 Stainless	P. Qty.
M3	3.4	0.8	1.3	441.3	100						
M4	4.4	0.9	1.5	441.4	100					447.4	100
M5	5.4	1.2	1.8	441.5	100					447.5	100
M6	6.5	1.6	2.5	441.6	100	441.06	100	446.6	50	447.6	100
M7	7.5	1.6	2.5	441.7	100			446.8			
M8	8.5	2.0	3.0	441.8	100	441.08	100			447.8	100
M10	10.7	2.2	3.5	441.10	100	441.010	100	446.10	50	447.10	50
M12	12.7	2.5	4	441.12	50			446.12	25	447.12	50
M14	14.7	3.0	4.5	441.14	50			446.14	25		
M16	17.0	3.5	5.0	441.16	50			446.16	10	447.16	50
M18	19.0	3.5	5.0	441.18	50			446.18	10		
M20	21.2	4.0	6.0	441.20	25			446.20	10		

METRIC SPRING LOCK WASHERS

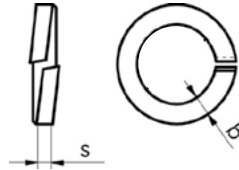


DIN 128

Form A • Curved
Steel • Clear Zinc Plated

Screw Size	d in mm	h in mm	d1 in mm	Art. No.	P. Qty.
M6	6.1	2.2	11.8	441.8..6	
M8	8.1	2.75	14.8	441.8..8	
M10	10.2	3.15	18.1	441.8..10	
M12	12.2	3.65	21.1	441.8..12	
M16	16.2	5.1	27.4	441.8..16	
M20	20.2	5.9	33.6	441.8..20	

STANDARD SPLIT LOCK WASHERS



Steel • GR 5 • Clear Zinc Plated
Steel • GR 8 • Yellow Zinc Plated
Stainless Steel 18.8
Stainless Steel 316

Bolt or Screw size	Width (b)	Thickness (s)	Grade 5, Clear Zinc	P. Qty.	Grade 8, Yellow Zinc	P. Qty.	18-8 SS	P. Qty.	316 SS	P. Qty.
#4	0.040	0.025	442.4	100						
#6	0.047	0.031	442.6	100			440.06	100		
#8	0.055	0.040	442.8	100			440.08	100		
#10	0.062	0.047	442.10	100			440.010	100	440.316.10	100
#12	0.070	0.056							440.316.12	100
1/4	0.109	0.062	442.14	100	444.14	100	440.014	100	440.316.14	100
5/16	0.125	0.078	442.516	100	444.516	100	440.516	100	440.316.516	100
3/8	0.141	0.094	442.38	100	444.38	100	440.38	100	440.316.38	100
7/16	0.156	0.109	442.716	100	444.716	100	440.716	50	440.316.716	50
1/2	0.171	0.125	442.12	100	444.12	100	440.012	50	440.316.012	50
9/16	0.188	0.141	442.916	50	444.916	50				
5/8	0.203	0.156	442.58	50	444.58	50	440.58	50	440.316.58	100
3/4	0.234	0.188	442.34	50	444.34	25	440.34	50	440.316.34	50
7/8	0.266	0.219			444.78	25			440.316.78	10
1	0.297	0.250	442.1	50	444.1	25				
1-1/8	0.328	0.281			444.118	20				
1-1/4	0.359	0.312			444.114	20				
1-1/2	0.422	0.375			444.112	20				

SEALING WASHERS WITH VULCANIZED RUBBER INSERT – PREFIX 459

Art. No. 459.10
ID: 11.8mm
OD: 19mm
Thickness: 1.5mm



Art. No. 459.12
ID: 13.7mm
OD: 22mm
Thickness: 1.5mm



Art. No. 459.14
ID: 15.9mm
OD: 22.3mm
Thickness: 2mm

METRIC SEALING WASHERS - VULCAN FIBRE DIN 7603A – PREFIX 465

Art. No. 465.12219
Screw Size : M12
OD: 19mm
Thickness: 1.5mm



Art. No. 465.14.20
Screw Size : M14
OD: 20mm
Thickness: 1.5mm



Art. No. 465.14224
Screw Size : M14
OD: 24mm
Thickness: 1.5mm

ID = Interior Diameter

OD = Outer Diameter

METRIC SEALING WASHERS



**Sealing Washers with
Vulcanized Rubber Insert
Prefix 459**

(see the blue pages for the full range)
Yellow Zinc Dichromate



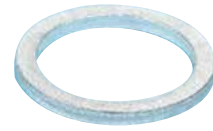
**Flat Solid Copper
Prefix 460**

(see the blue pages for the full range)
Heat resistant up to approximately
900 °C/ 1652 °F



**Crush Type Copper Asbestos-Free
Prefix 462**

(see the blue pages for the full range)
Heat resistant up to 900 °C/1652 °F



**Aluminum
Prefix 463**

(see the blue pages for the full range)
Heat resistant up to 300 °C/572 °F



**MFG Specific Drain Plug Washers
Prefix 464**

(see the blue pages for the full range)



**Vulcanized Fibre
Prefix 465**

(see the blue pages for the full range)
Heat resistant up to 90 °C/194 °F

SPECIALTY DRAIN PLUGS/ SEALING WASHERS – PREFIX 464



Art. No. 464.8277

ID : 1/2"
OD: 3/4"
Thickness: 3/32"



Art. No. 464.11422

ID : 14mm
OD: 22mm
Thickness: 2mm



Art. No. 464.16026

ID : 1/2"
OD: 1"
Thickness: 1/4"



Art. No. 464.19630

ID : 11mm
OD: 25mm
Thickness: 7mm



Art. No. 464.012242

ID : 12mm
OD: 24mm
Thickness: 2mm



Art. No. 464.018282

ID : 18mm
OD: 28mm
Thickness: 2mm



Art. No. 464.18665

ID : 11mm
OD: 21mm
Thickness: 2mm



Art. No. 464.20454

ID : 14mm
OD: 20mm
Thickness: 1.5mm

METRIC SEALING WASHER - COPPER DIN 7603A – PREFIX 460



Art. No. 460.6..10
Screw Size : M6
OD: 10mm
Thickness: 1mm



Art. No. 460.6..12
Screw Size : M6
OD: 12mm
Thickness: 1mm



Art. No. 460.8..12
Screw Size : M8
OD: 12mm
Thickness: 1mm



Art. No. 460.8..14
Screw Size : M8
OD: 14mm
Thickness: 1mm



Art. No. 460.10.14
Screw Size : M10
OD: 14mm
Thickness: 1mm



Art. No. 460.10.16
Screw Size : M10
OD: 16mm
Thickness: 1mm



Art. No. 460.10.18
Screw Size : M10
OD: 18mm
Thickness: 1mm



Art. No. 460.12.16
Screw Size : M12
OD: 16mm
Thickness: 1.5mm



Art. No. 460.12.18
Screw Size : M12
OD: 18mm
Thickness: 1.5mm



Art. No. 460.13.18
Screw Size : M13
OD: 18mm
Thickness: 1.5mm



Art. No. 460.14.18
Screw Size : M14
OD: 18mm
Thickness: 1.5mm



Art. No. 460.14.20
Art. No. 460.14.20.BK
Screw Size : M14
OD: 20mm
Thickness: 1.5mm



Art. No. 460.14.22
Screw Size : M14
OD: 22mm
Thickness: 1.5mm



Art. No. 460.15.20
Screw Size : M15
OD: 20mm
Thickness: 1.5mm



Art. No. 460.16.20
Screw Size : M16
OD: 20mm
Thickness: 1.5mm



Art. No. 460.16.22
Screw Size : M16
OD: 22mm
Thickness: 1.5mm



Art. No. 460.16.24
Screw Size : M16
OD: 24mm
Thickness: 1.5mm



Art. No. 460.18.22
Screw Size : M18
OD: 22mm
Thickness: 1.5mm



Art. No. 460.18.24
Screw Size : M18
OD: 24mm
Thickness: 1.5mm



Art. No. 460.20.26
Screw Size : M20
OD: 26mm
Thickness: 1.5mm



Art. No. 460.21.26
Screw Size : M21
OD: 26mm
Thickness: 1.5mm



Art. No. 460.22.27
Screw Size : M22
OD: 27mm
Thickness: 1.5mm



Art. No. 460.24.30
Screw Size : M24
OD: 30mm
Thickness: 2mm



Art. No. 460.26.32
Screw Size : M26
OD: 32mm
Thickness: 2mm



Art. No. 460.33.41
Screw Size : M33
OD: 41mm
Thickness: 2mm

COPPER ASB. FREE SEALING WASHER - CRUSHABLE TYPE – PREFIX 462


Art. No. 462.06.10

Screw Size : M6
OD: 10mm
Thickness: 1.5mm


Art. No. 462.010.16

Screw Size : M10
OD: 16mm
Thickness: 1.5mm


Art. No. 462.012.18

Screw Size : M12
OD: 18mm
Thickness: 2mm


Art. No. 462.014.18

Screw Size : M14
OD: 18mm
Thickness: 2mm


Art. No. 462.014.20

Screw Size : M14
OD: 20mm
Thickness: 2mm


Art. No. 462.014.22

Screw Size : M14
OD: 22mm
Thickness: 2mm


Art. No. 462.016.20

Screw Size : M16
OD: 20mm
Thickness: 2mm


Art. No. 462.016.22

Screw Size : M16
OD: 22mm
Thickness: 2mm


Art. No. 462.018.24

Screw Size : M18
OD: 24mm
Thickness: 2mm


Art. No. 462.020.26

Screw Size : M20
OD: 26mm
Thickness: 2mm

ALUMINUM METRIC SEALING WASHER - DIN 7603A – PREFIX 463


Art. No. 463.6..12

Screw Size : M6
OD: 12mm
Thickness: 1mm


Art. No. 463.8..12

Screw Size : M8
OD: 12mm
Thickness: 1mm


Art. No. 463.10.14

Screw Size : M10
OD: 14mm
Thickness: 1mm


Art. No. 463.10.16

Screw Size : M10
OD: 16mm
Thickness: 1mm


Art. No. 463.12.16

Screw Size : M12
OD: 16mm
Thickness: 1.5mm


Art. No. 463.12.18

Screw Size : M12
OD: 18mm
Thickness: 1.5mm


Art. No. 463.12.19

Screw Size : M12
OD: 19mm
Thickness: 1.5mm


Art. No. 463.14.18

Screw Size : M14
OD: 18mm
Thickness: 1.5mm


Art. No. 463.14.20

Screw Size : M14
OD: 20mm
Thickness: 1.5mm


Art. No. 463.14.22

Screw Size : M14
OD: 22mm
Thickness: 1.5mm


Art. No. 463.14.24

Screw Size : M14
OD: 24mm
Thickness: 1.5mm


Art. No. 463.16.20

Screw Size : M16
OD: 20mm
Thickness: 1.5mm


Art. No. 463.16.22

Screw Size : M16
OD: 22mm
Thickness: 1.5mm


Art. No. 463.18.22

Screw Size : M18
OD: 22mm
Thickness: 1.5mm


Art. No. 463.18.24

Screw Size : M18
OD: 24mm
Thickness: 1.5mm


Art. No. 463.20.26

Screw Size : M20
OD: 26mm
Thickness: 1.5mm


Art. No. 463.22.27

Screw Size : M22
OD: 27mm
Thickness: 1.5mm

ID = Interior Diameter
OD = Outer Diameter

Pack sizes subject to change without notice

Some sizes and finishes available OnDemand

ASSORTMENTS



Metric Flat Solid Copper Sealing Washer Assortment

Art. No. 964.460

Contents (1350 Pieces): 18 Assorted sizes, Size range 6 mm - 32 mm



Drain Plug & Washer Assortment

Art. No. 965.460801

Contents (269 Pieces): 12 assorted washers and 12 assorted drain plugs



Metric Aluminum Sealing Washer Assortment

Art. No. 964.463

Contents (525 Pieces): 18 Assorted sizes, Size range 6 mm - 30 mm



Metric Vulcanized Fibre Sealing Washer Assortment

Art. No. 964.465

Contents (1170 Pieces): 18 Assorted sizes, Size range 5 mm - 30 mm

ALUMINUM SEALING WASHERS FOR A/C SYSTEM ASSORTMENTS



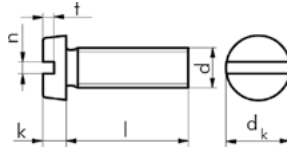
Art. No. 964.469 P. Qty: 1

Contents (70 Pieces):

Aluminum Sealing Washers for A/C System Assortments			
Size	Description	Art. No.	Qty.
5/8"	GM Compressor manifold sealing washer	469.09638	10
5/8"	GM compressor manifold sealing washer, thin	469.09639	
3/4"	GM compressor manifold sealing washer, thin	469.09640	
8 mm	Block fitting sealing washer, slim line	469.09887	
11 mm	Block fitting sealing washer, slim line	469.09888	
15 mm	Block fitting sealing washer, slim line	469.09889	
17 mm	Block fitting sealing washer, slim line	469.09890	

These sealing washers help prevent leaking from the hose manifold at the joint where it attaches to the compressor.

METRIC SLOTTED CHEESE HEAD MACHINE SCREW



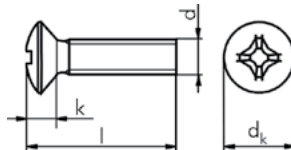
DIN 84 (ISO 1207)

Steel • Class 4.8 • Clear Zinc Plated

Dia-Thread Pitch (d)	Length (l) mm	Art. No.	P. Qty.
M5-0.8	10	040.5..10	50
	20	040.5..20	50
	30	040.5..30	50
	40	040.5..40	50
M6-1.0	12	040.6..12	50
	16	040.6..16	50
	30	040.6..30	50

Dia-Thread Pitch (d)	M5-0.8	M6-1.0
dk in mm	8.5	10.0
k in mm	3.3	3.9
n in mm	1.2	1.6
t in mm	1.3	1.6

METRIC OVAL HEAD PH MACHINE SCREWS



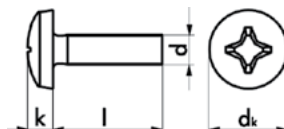
DIN 966 (ISO 7047)

Raised countersunk head • PH drive
Steel • Class 4.8 • Clear Zinc Plated

Dia-Thread Pitch (d)	M4-0.7	M5-0.8	M6-1.0
dk in mm	7.5	9.2	11.0
k in mm	2.2	2.5	3.0
Drive	H2	H2	H3

Dia-Thread Pitch (d)	Length (l) mm	Art. No.	P. Qty.
M4-0.7	16	049.4..16	100
M6-1.0	25	049.6..25	300
	30	049.6..30	50

METRIC PAN HEAD PH MACHINE SCREWS



DIN 7985 (ISO 7045)

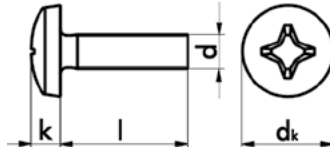
Steel • Class 4.8 • Clear Zinc Plated
Stainless Steel A2

Dia-Thread Pitch (d)	M3-0.5	M4-0.7	M5-0.8	M6-1.0
dk in mm	6.0	8.0	10.0	12.0
k in mm	2.4	3.1	3.8	4.6
Drive	H1	H2	H2	H3

Dia-Thread Pitch (d)	Length (l) mm	Steel 4.8 Clear Zinc	P. Qty.	A2 SS	P. Qty.
M3-0.5	6	046.3..6	50		
	8	046.3..8	50		
	25	046.3..25	50		
M4-0.7	5	046.4..5	50		
	6	046.4..6	50		
	8	046.4..8	50		
	10	046.4..10	50		
	12	046.4..12	50		
	16	046.4..16	50		

Dia-Thread Pitch (d)	Length (l) mm	Steel 4.8 Clear Zinc	P. Qty.	A2 SS	P. Qty.
M5-0.8	8			039.5..8	100
	10	046.5..10	50		
	12			039.5..12	100
	16	046.5..16	50	039.5..16	100
	20			039.5..20	100
M6-1.0	25			039.5..25	100
	10	046.6..10	50	039.6..10	100
	12	046.6..12	50	039.6..12	100
	16	046.6..16	50	039.6..16	100
	20	046.6..20	50	039.6..20	100
	25	046.6..25	50	039.6..25	100
	30	046.6..30	50		

METRIC REDUCED PAN HEAD PH MACHINE SCREWS



J.I.S

Steel • Class 4.8 • Clear Zinc Plated

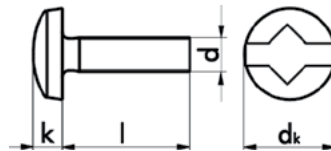


Dia-Thread Pitch (d)	M4-0.7	M5-0.8	M6-1.0
dk in mm	7.8	9.3	11.7
k in mm	2.7	3.1	3.9
Drive	H2	H2	H3

Dia-Thread Pitch (d)	Length (l) mm	Steel 4.8, Clear Zinc	P. Qty.
M4-0.7	6	047.4..6	100
	10	047.4..10	
	12	047.4..12	
	16	047.4..16	
	20	047.4..20	
	25	047.4..25	
M5-0.8	30	047.4..30	50
	10	047.5..10	
	16	047.5..16	
	20	047.5..20	
	25	047.5..25	
	30	047.5..30	
	35	047.5..35	

Dia-Thread Pitch (d)	Length (l) mm	Steel 4.8, Clear Zinc	P. Qty.
M6-1.0	10	047.6..10	50
	12	047.6..12	
	16	047.6..16	
	20	047.6..20	
	25	047.6..25	
	30	047.6..30	
	40	047.6..40	
	50	047.6..50	

STANDARD PAN HEAD COMBINATION MACHINE SCREW



Slot/square drive
Steel • Clear Zinc Plated
Use with Prefix 329 nuts

Diameter	#6	#8	#10	1/4
Head Diameter dk	0.250	0.298	0.347	0.458
Head Height k	0.097	0.114	0.130	0.168
No. of threads/inch - UNF	40	36	32	28
No. of threads/inch - UNC	32	32	24	20
Square (Robertson) drive	1	2	2	3

Dia. in inches	Length in inches (l)	UNF, Clear Zinc	P. Qty.	UNC, Clear Zinc	P. Qty.
#6	3/8			033.6..38	100
	1/2			033.6..12	
	5/8			033.6..58	
	3/4			033.6..34	
	1			033.6..1	
	1-1/4			033.6..114	
	1-1/2			033.6..112	
#8	2			033.6..2	100
	3/8			033.8..38	
	1/2			033.8..12	
	5/8			033.8..58	
	3/4			033.8..34	
	1			033.8..1	
	1-1/4			033.8..114	
	1-1/2			033.8..112	
	1-3/4			033.8..134	
	2			033.8..2	
2-1/2			033.8..212		

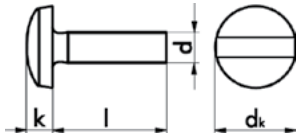
Dia. in inches	Length in inches (l)	UNF, Clear Zinc	P. Qty.	UNC, Clear Zinc	P. Qty.
#10	1/4	033.10.14	100		100
	3/8	033.10.38	100	032.10.38	
	1/2	033.10.12	50	032.10.12	
	3/4	033.10.34	50	032.10.34	
	1	033.10.1	50	032.10.1	50
	1-1/4	033.10.114	50	032.10.114	
	1-1/2	033.10.112	50	032.10.112	
	2	033.10.2	50	032.10.2	
1/4	3	033.10.3	100	032.10.3	100
	1/2			032.14.12	50
	3/4			032.14.34	
	1			032.14.1	
1/2	1-1/4			032.14.114	
	1-1/2			032.14.112	
	3/4			032.12.34	
	1			032.12.1	



Standard Pan Rob/Slot Machine Screw Assortment
Art. No. 965.033329

Contents: 1650 pieces
14 assorted sizes, #6 - #10, with matching nuts and washers

STANDARD PAN HEAD SLOT MACHINE SCREW



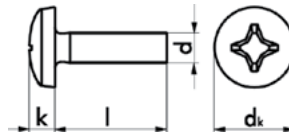
Stainless Steel 18.8

Diameter	#6	#8	#10	1/4
Head Diameter dk, max.	0.270	0.322	0.373	0.492
Head Height k, max.	0.082	0.096	0.110	0.144
No. of threads/inch - UNF	40	36	32	28
No. of threads/inch - UNC	32	32	24	24
Width of Slot (max.)	0.048	0.054	0.060	0.075
Depth of Slot (max.)	0.050	0.058	0.068	0.087

Dia. in inches	Length in inches (l)	UNF, 18-8 SS	P. Qty.	UNC, 18-8 SS	P. Qty.
#6	1/4			037.632.14	100
	1/2			037.632.12	
#8	5/16			037.832.516	
	1/2			037.832.12	
	5/8			037.832.58	
	1-1/2			037.832.112	

Dia. in inches	Length in inches (l)	UNF, 18-8 SS	P. Qty.	UNC, 18-8 SS	P. Qty.
#10	1/4			037.1024.14	400
	3/8	037.1032.38	100		
	1/2			037.1024.12	100
	5/8	037.1032.58	100		
	3/4	037.1032.34	100	037.1024.34	200
	1			037.1024.1	100
	1-1/4				
1/4	1-1/2	037.1032.112	200		
	3/8				
	3/4				
	1			037.14.1	100
	1-1/2				

STANDARD PAN HEAD PH MACHINE SCREW



Steel • Clear Zinc Plated

Stainless Steel 18.8

Stainless Steel 316

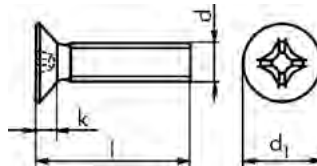
Use with Prefix 329 nuts or Prefix 340 nuts (stainless)

Diameter	#4	#6	#8	#10	1/4	5/16
Head Diameter dk	0.219	0.270	0.322	0.373	0.492	0.615
Head Height k	0.080	0.970	0.115	0.133	0.175	0.218
No. of threads/inch - UNF	48	40	36	32	28	24
No. of threads/inch - UNC	40	32	32	24	20	18
PH Drive	1	2	2	2	3	3

Dia. d in inches	Length in inches (l)	UNC, Steel, Clear Zinc	P. Qty.	UNF, 18-8 SS	P. Qty.	UNC, 18-8 SS	P. Qty.	UNC, 316 SS	P. Qty.
#4	1/4	036.4..14	500						
	3/8	036.4..38				035.440.38	100		
	1/2	036.4..12		100					
	3/4	036.4..34		500					
#6	1/4					035.632.14	100		
	3/8	036.6..38	500			035.632.38			
	1/2	036.6..12	100			035.632.12			
	5/8	036.6..58	500			035.632.58			
	3/4	036.6..34	100			035.632.34			
	1					035.632.1	100		
#8	1-1/4					035.632.114			
	1-1/2					035.632.112			
	1/4					035.832.14			
	3/8					035.832.38			
	1/2	036.8..12	100			035.832.12			
	5/8					035.832.58			
	3/4	036.8..34	100			035.832.34			
1	036.8..1	100			035.832.1	100			
1-1/2					035.832.112				

Dia. d in inches	Length in inches (l)	UNC, Steel, Clear Zinc	P. Qty.	UNF, 18-8 SS	P. Qty.	UNC, 18-8 SS	P. Qty.	UNC, 316 SS	P. Qty.
#10	1/4								
	3/8			035.1032.38	100	035.1024.38	100		
	1/2	036.10.12	100	035.1032.12	100	035.1024.12	50	035.01024.12	100
	5/8			035.1032.58	100	035.1024.58	100		
	3/4	036.10.34	100	035.1032.34	50	035.10.34	50	035.01024.34	100
	7/8								
	1	036.10.1	50	035.1032.1	50	035.10.1	50	035.01024.1	100
	1-1/4	036.10.114	50	035.1032.114	100	035.10.114	50		
	1-1/2	036.10.112	50	035.1032.112	50	035.10.112	50		
1/4	2	036.10.2	50	035.1032.2	50	035.10.2	50		
	3/8								
	1/2	036.14.12	50			035.14.12	100	035.014.12	50
	3/4	036.14.34	50			035.14.34	100		
	1	036.14.1	50			035.14.1	50	035.014.1	50
	1-1/4	036.14.114	100			035.14.114	50	035.014.34	100
	1-1/2	036.14.112	300			035.14.112	50	035.014.112	50
5/16	1-3/4					035.14.134	100		
	2		50			035.14.2	50		
	1							035.0516.1	25
	1-1/2							035.0516.112	25

STANDARD FLAT HEAD PH MACHINE SCREW



Steel • Clear Zinc Plated
Stainless Steel 18.8
Stainless Steel 316

Diameter	#4	#6	#8	#10	1/4
Head Diameter max. d1	0.225	0.279	0.332	0.385	0.507
Head Height max. k	0.067	0.083	0.100	0.116	0.153
No. of threads/inch - UNF	48	40	36	32	28
No. of threads/inch - UNC	40	32	32	24	20
PH Drive	1	2	2	2	3

Thread dia. d in inches	Length l in inches	UNF, 18-8	P. Qty.	UNC, 18-8	P. Qty.	UNC 316	P. Qty.
#4	1/4						
	3/4						
	1						
#6	1/2			034.632.12	100		
	5/8			034.632.58	100		
	3/4			034.632.34	100		
	1			034.632.1	100		
	1-1/4			034.632.114	100		
#8	1-1/2			034.632.112	100		
	1/4			034.832.14	100		
	7/16			034.832.716	100		
	3/4			034.832.34	100	034.832.345	100
	7/8			034.832.78	100		
	1			034.832.1	100		
	1-1/4						
	1-1/2			034.832.112	100		
#10	5/16						
	1/2	034.1032.12	100	034.1024.12	100		
	5/8						
	3/4	034.1032.34	100	034.1024.34	100		
	1	034.1032.1	100	034.1024.1	100	034.1024.15	100
	1-1/4			034.1024.114	100		
	1-1/2	034.1032.112	100	034.1024.112	100		
	2						
1/4	3/8			034.14.38	100		
	1/2			034.14.12	100		
	3/4			034.14.34	100	034.1420.345	100
	1			034.14.1	100	034.1420.15	50
	1-1/4			034.14.114	100		
	1-1/2			034.14.112	100		
	1-3/4			034.14.134	100		
	2			034.14.2	100		
	3			034.14.3	100		

ASSORTMENTS



Pan Head PH Machine Screw and Nut Assortment

Art. No. 965.035

18.8 Stainless Steel
Contents (700 pieces):
 size range #6 - #1/4"



Pan Head Combo (Rob/Slot) Machine Screw, Nut and Washer Assortment

Art. No. 965.033329

Clear zinc
Contents (1650 Pieces):
 size range: #6 - #10

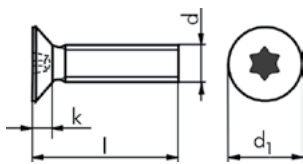


Flat Head PH Machine Screw and Nut Assortment

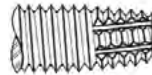
Art. No. 965.034

18.8 Stainless Steel
Contents (700 pieces):
 size range #6 - #1/4"

STANDARD FLAT HEAD TORX FLOOR BOARD SCREW



Type 'F' • Black Phosphate



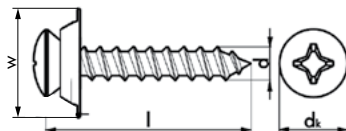
Type F Point:

A thread cutting screw with machine screw thread and blunt tapered point. Multi-cutting edges and chip cavities. For heavy gauge sheet metal, aluminum, zinc and lead die castings, cast iron, brass and plastic.

Dia. in inches	Length in inches (l)	UNC, Type F, black phos.	P. Qty.
1/4	1-1/2	219.14.112	100
	2	219.14.2	
	2-1/4	219.14.214	
	2-1/2	219.14.212	
5/16	2	219.516.2	100
	2-1/4	219.516.214	
	2-1/2	219.516.212	

Diameter	1/4	5/16
Head Diameter (d1)	0.455	0.616
Depth of Square and Head (k)	0.083	0.099
No. of threads/inch - UNC	20	18
Torx-Drive	T-30	T-40

STANDARD OVAL HEAD PH SEMS FINISHING SCREWS



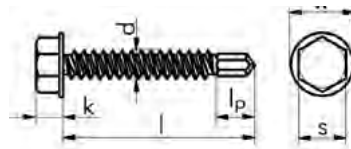
With countersunk washer
 Chrome Plated
 Black Phosphate (Bare)

Not recommended for license plate applications. See Prefixes 124 and 453.

Dia. in inches (d)	Length in inches (l)	Chrome plated	P. Qty.	Black phosphate	P. Qty.
#8	5/8	138.8..58	50	139.8..58	50
	3/4	138.8..34	50	139.8..34	50
	1	138.8..1	50	139.8..1	50
	1-1/4	138.8..114	50	139.8..114	50
#10	5/8	138.10.58	50		
	3/4	138.10.34	50	139.10.34	50
	1	138.10.1	50	139.10.1	50

Diameter	#6	#8	#10
Head Diameter dk	0.138	0.164	0.190
Washer w	1/2	1/2	17/32
PH Drive	2	2	2

METRIC HEX HEAD DRILL POINT ZEBRA PIAS



W-214 (similar to DIN 7504-K)

Hex washer head
Steel • Clear Zinc Plated (A3K)

- Drilling, threading, screwing-in - all in one.
- Work faster with Zebra pias than with any spiral drill. Lower your mounting costs by at least 50%.
- For universal use via hex head.

For elongated joint screwing of:

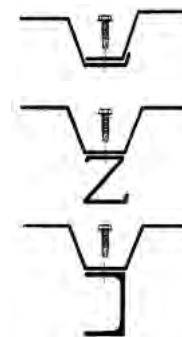
Steel profile plates.

Direct screwing of:

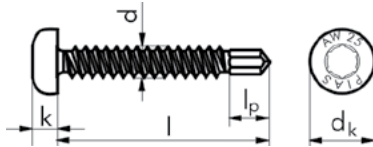
Steel profiles to: Steel substructure.

Diameter (d) in mm	3.5	4.2	4.8	5.5	6.3
s in mm	5.5	7.0	8.0	8	10
k in mm	2.8	3.3	3.6	4.8	5.8
lp in mm	3.0	4.5	5	6.5	7.5
Drilling range in mm	0.7-2.25	1.75-3.0	1.75-4.0	1.75-5.25	2.0-6.0
Guide value for processing speeds	1700-2500 rpm	1200-1800 rpm	1200-1800 rpm	1200-1800 rpm	1200-1800 rpm

Dia. d in mm	Length in mm (l)	Steel, Clear Zinc	P. Qty.	
3.5	13	214.35.13	100	
	13	214.42.13		
4.2	16	214.42.16		
	19	214.42.19		
	25	214.42.25		
4.8	13	214.48.13		50
	16	214.48.16		
	19	214.48.19		
	25	214.48.25		
	32	214.48.32		
	38	214.48.38		
5.5	50	214.48.50	100	
	16	214.55.16		
	19	214.55.19		
	25	214.55.25		
	32	214.55.32		
6.3	38	214.55.38	50	
	50	214.55.50		
	16	214.63.16		
	19	214.63.19		
	25	214.63.25		
		214.63.25.BK		250*
6.3	32	214.63.32	25	
	38	214.63.38		
	50	214.63.50		



METRIC PAN HEAD AW DRIVE DRILL POINT PIAS

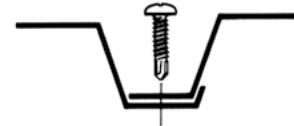


Faster than any twist drill - reduces assembly costs by at least 50%

Steel • Clear Zinc Plated (A3K)

For elongated joint screwing on:

Steel profile plates and aluminum profile plates.



Diameter d in mm	3.5	4.2	4.8
Head dk in mm	6.9	8.0	9.5
k in mm	2.75	3.45	3.85
l _p in mm	3	3.7	4.5
Drive	AW10	AW20	AW25
Drilling range in mm	0.7-2.25	1.75-3.0	1.75-4.0
Guide value for processing speeds	1700-2500 rpm	1200-1800 rpm	1200-1800 rpm

Dia. d in mm	Length (l) mm	Steel, Clear Zinc	P. Qty.
3.5	13	211.35.13	100
	13	211.42.13	
4.2	19	211.42.19	
	25	211.42.25	
4.8	13	211.48.13	
	19	211.48.19	
	25	211.48.25	



Self-Drilling Zebra Pias Screw Assortment

Art. No. 965.211214

Contents: 700 pieces

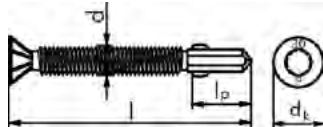
16 assorted sizes, size range 4.2 mm - 6.3 mm (Prefix 211 and 214).



AW drive system:

- Improved torque transmission.
- Longer life.
- Optimum centering.
- Better mounting output thanks to fatigue-free screwing; the required contact pressure for transmission of the torques is considerably lower.
- Largest possible contact surface of bit in screw drive.
- Even force distribution prevents damaging of the surface-protection coating and thus ensures better resistance to corrosion.

METRIC FLAT HEAD AW WING PIAS DRILL POINT SCREW



Drilling range	Head diameter (dk)	Drilling tip length (lp)	Drilling range	Art. No.	P. Qty.
M6 x 60	15	13	1.75 mm - 6 mm	219.663.60	500
M6 x 65	15	13		219.663.65	100
M6 x 80	15	13		219.663.80	250

AW drive system:

- Improved torque transmission.
- Longer life.
- Optimum centering.
- Better mounting output thanks to fatigue-free screwing; the required contact pressure for transmission of the torques is considerably lower.
- Largest possible contact surface of bit in screw drive.
- Even force distribution prevents damaging of the surface-protection coating and thus ensures better resistance to corrosion.



The screw for binding wood to metal.

The advantage of our Zebra Wing pias is the savings in time of up to 50% during application. Pre-drilling with a twist drill is not necessary.



Features:

- Drive - AW 30
- Steel, Ruspert-coated.
- With milling ribs for hard and soft wood on steel substructures.
- Advantage: Corrosion protection = Ruspert-coated (approx. 500 h salt spray test)

Advantages:

- The drilling tip, with wings and a patented cutting shape, drills the wood according to the outer diameter of the wings; this avoids force feeding of the screw.
- After drilling through the wood, the drilling tip meets the metal substructure and begins to drill the core hole for the thread. The wings break off automatically once the drilling tip penetrates the metal.
- Once the drilling tip is through the metal, the thread is cut by the initial turns.
- The screw is screwed into the self-cut thread and binds the wood and metal.
- In the case of screws with milling ribs (for hard wood), the head is countersunk automatically.
- The various thread types, head diameters and head designs guarantee the right screw type for a variety of wood and steel types.

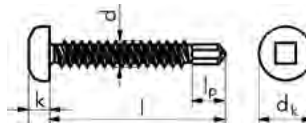
Technical Information

- The pias screws can only drill up to 6 mm steel!
- Do NOT use an impact drill with these screws. Use a normal power screw driver or power drill.
- Do NOT exceed 2000 RPMs.

Note:

To be used with Würth Assy bits (Art. No. 614.5130 or Art. No. 614.5230)

STANDARD PAN HEAD SQUARE DRILL POINT SCREWS



Dia. in inches	Length in inches (l)	Square, Clear Zinc	P. Qty.
#6	1/2	101.6..12	200
	1/2	101.8..12	100
	3/4	101.8..34	100
	5/8	101.8..58	200
#8	1	101.8..1	100
	1-1/4	101.8..114	200
	1-1/2	101.8..112	100
	2	101.8..2	200

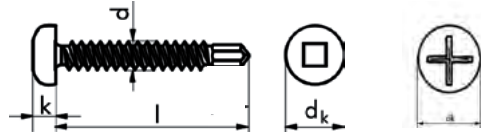
Steel • Clear Zinc Plated
Drill Point:2

Diameter	#8	#10
Head Diameter dk	0.322	0.373
Head Height k	0.115	0.133
Square Drive	2	2

#10	1/2	101.10.12	100
	3/4	101.10.34	100
	5/8	101.10.58	200
	1	101.10.1	100
	1-1/4	101.10.114	200
	1-1/2	101.10.112	100
	2	101.10.2	200

STANDARD PAN HEAD DRILL POINT SCREW

Steel • Clear Zinc Plated
Stainless Steel 410



Diameter	#6	#8	#10
Head Diameter dk	0.263	0.314	0.365
Head Height k	0.077	0.090	0.105
PH Drive	2	2	2
Square Drive	1	2	2

Self-Drilling Screw Assortment

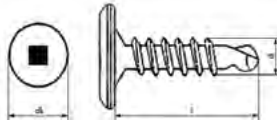
Art. No. 965.213214

Contents: 1200 pieces

17 assorted sizes: #8, #10, 4.2, 4.8, 5.5 and 6.3 (Prefixes 213 and 214).

Dia. in inches	l in inches	PH, Clear Zinc	P. Qty.	Square, 410 Stainless	P. Qty.
#6	1/2	213.6..12	100		
	1/2	213.8..12	100	105.8..12	100
#8	5/8			105.8..58	100
	3/4	213.8..34	100	105.8..34	100
	1	213.8..1	100	105.8..1	100
	1	213.8..1	100	105.8..1	100
#10	1/2	213.10.12	100		
	3/4	213.10.34	100	105.10.34	100
	1	213.10.1	100		

STANDARD WAFER HEAD SQUARE DRIVE DRILL POINT

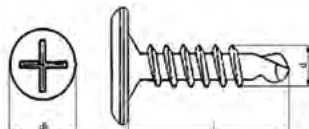


Steel • Clear Zinc Plated

Thread Dia (d)	#10
Head Diameter dk	0.465
Square Drive	2

Thread dia. in inches	Length l in inches	Drill point	Max. drillable metal	Ruspert coated	P. Qty.
#10	3/4	#3	0.110	219.510.34	100
	1	#3	0.175	219.510.1	100
	1-1/4	#3	0.175	219.510.114	100
	1-1/2	#3	0.175	219.510.112	100

STANDARD SERRATED WAFER HEAD PH DRIVE DRILL POINT

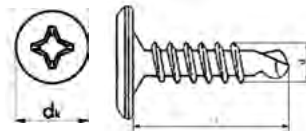


Steel • Clear Zinc Plated

Thread dia. (d)	#10
Head Diameter dk	0.580
PH Drive	#2

Thread dia. in inches	Length l in inches	Drill point	Max. drillable metal	Blue passiv.	P. Qty.
#10	3/4"	#2	0.100	218.710.34	500
	1"	#2	0.110	218.710.1	500

STANDARD WAFER HEAD PH DRIVE DRILL POINT

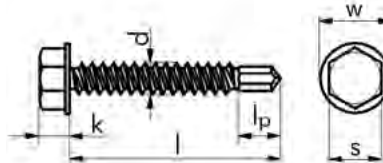


Steel • Yellow Zinc Plated

Diameter d	#10
Head Diameter dk	0.500
PH drive	#2

Dia. in inches	Length in inches (l)	Drill point	Max. drillable metal	Yellow Zinc	P. Qty.
#10	1"	#3	0.175	219.710.1	100

STANDARD HEX HEAD DRILL POINT SCREWS



Hex washer head
Steel • Clear Zinc Plated
Stainless Steel 410



Diameter	#6	#8	#10	#12	#14
Head Diameter s	0.250	0.250	0.312	0.312	0.375
Washer Diameter	0.316	0.335	0.399	0.415	0.500
Head height k	0.086	0.128	0.138	0.178	0.221

Drill Point Hex Head Screw Assortment
Art. No. 965.214

Contents: 1200 pieces
12 assorted sizes: #8, #10, #12, #14

Diameter in inches	l in inches	Drill point	Steel, Clear Zinc	P. Qty.	410 S5	P. Qty.
#8	1/2	#2	214.8..12	100	215.8..12	100
	3/4	#2	214.8..34	100	215.8..34	100
	1	#2	214.8..1	100	215.8..1	100
	1-1/4	#2	214.8..114	100		
	1-1/2	#2	214.8..112	100		
	2	#2	214.8..2	100		
#10	1/2	#2	214.10.12	200		
	5/8	#2	214.10.58	200		
	3/4	#2	214.10.34	100	215.10.34	100
	1	#3	214.10.1	100		
	1-1/4	#3	214.10.114	200	215.10.114	
	1-1/2	#3	214.10.112	100	215.10.112	100
#12	2	#3	214.10.2	100		
	3/4	#3	214.12.34	100	215.12.34	100
	1	#3	214.12.1	100	215.12.1	100
	1-1/2	#3	214.12.112	100		
	2	#3	214.12.2	100		
	2-1/2	#3	214.12.212	100		
#14	3/4	#3	214.14.34	100	215.14.34	100
	1	#3	214.14.1	100	215.14.1	100
	1-1/4	#3	214.14.114	100		
	1-1/2	#3	214.14.112	100		
	2	#3	214.14.2	100		
	2-1/2	#3	214.14.212	100		
3	#3	214.14.3	100			



Premium Drill Point Hex Head Screw Assortment
Art. No. 965.214001

Contents: 525 pieces
12 assorted sizes: #8, #10, #12, #14

*Bulk

SELF-DRILLING TEK SCREW – STAINLESS STEEL



Features:

- Heat-treated to maintain good corrosion resistance
- Screws have self-drilling tips for maximum drilling
- 410 stainless steel is magnetic which allows the use of magnetic sockets during installation
- Indented hex washer head ensures secure grip while drilling
- Ductile and well suited for highly stressed parts
- Corrosion resistant and RoHS compliant

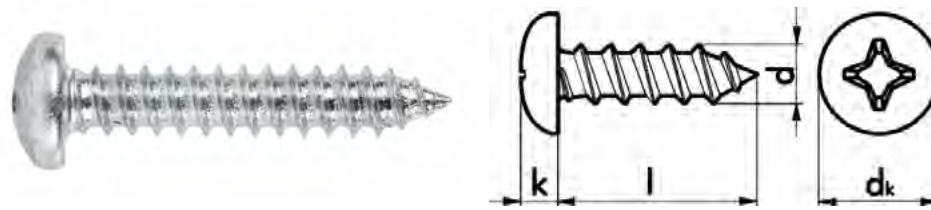
Applications:

- HVAC, Marine, Alternative Energy, Agriculture, Construction, Heavy Equipment, Outdoor maintenance
- Anywhere corrosion resistance is required

Diameter	#14
Head Diameter (s ₁)	0.375
Washer Diameter (d ₁)	0.500
Head Height (k)	0.170

Thread dia. in inches	Length in inches	410 Stainless Steel	P. Qty.
#14	1	215.014.01	100
	2	215.014.02	

METRIC PAN HEAD PH SHEET METAL (TAPPING) SCREWS



DIN 7981 (ISO 7049)

Steel - Clear Zinc Plated (A2K)

Steel - Black (A2S)

Stainless Steel A2

Features:

- Flat head and rounded sides
- Sharp threads draw material together to ensure a secure hold
- Fully threaded with a sharp point at the tip

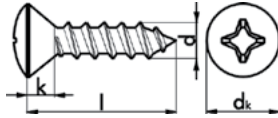
Applications:

- Highly versatile screw used for attaching; metal, wood, fiberglass, plastic
- Machining
- Manufacturing
- Automotive

Diameter	2.9	3.5	3.9	4.2	4.8	5.5	6.3
Head dia. dk in mm	5.6	6.9	7.5	8.2	9.5	10.8	12.5
Head height k in mm	2.2	2.6	2.8	3.05	3.55	3.95	4.55
Drive	H1	H2	H2	H2	H2	H3	H3

Dia (d) in mm	Length (l) mm	Steel, Clear Zinc	P. Qty.	Steel, black	P. Qty.	A2 Stainless	P. Qty.
2.9	9.5	115.29.95	100	134.29.95	100		
	13					119.29.13	100
	25	115.29.25	100				
3.5	9.5	115.35.95	100				
	13	115.35.13	100	134.35.13	100	119.35.13	100
	16	115.35.16	100	134.35.16	100		
	19	115.35.19	100	134.35.19	100	119.35.19	100
	22	115.35.22	100				
	25	115.35.25	100			119.35.25	100
3.9	13			134.39.13	100		
	16			134.39.16	100		
	19	115.39.19	100	134.39.19	100		
4.2	9.5	115.42.95	100	134.42.95	100	119.42.95	100
	13	115.42.13	100	134.42.13	100	119.42.13	100
	16	115.42.16	100	134.42.16	100		
	19	115.42.19	100	134.42.19	100	119.42.19	100
	22	115.42.22	100				
	25	115.42.25	100	134.42.25	100	119.42.25	100
	32	115.42.32	100	134.42.32	100	119.42.32	100
	38	115.42.38	100	134.42.38	100	119.42.38	100
4.8	50					119.42.50	50
	9.5	115.48.95	100				
	13	115.48.13	100	134.48.13	100	119.48.13	100
	16	115.48.16	100	134.48.16	100		
	19	115.48.19	100	134.48.19	100	119.48.19	100
	22	115.48.22	100				
	25	115.48.25	100	134.48.25	50	119.48.25	100
	32	115.48.32	50	134.48.32	50	119.48.32	100
	38	115.48.38	50	134.48.38	50	119.48.38	100
	50	115.48.50	50			119.48.50	50
5.5	13	115.55.13	100	134.55.13	50		
	16	115.55.16	100	134.55.16	50		
	19	115.55.19	100	134.55.19	50	119.55.19	50
	25	115.55.25	50	134.55.25	50	119.55.25	50
	32	115.55.32	50			119.55.32	50
	38	115.55.38	50			119.55.38	50
6.3	50					119.55.50	50
	13					119.63.13	100
	16	115.63.16	50				
	19	115.63.19	50			119.63.19	50
	22						
	25	115.63.25	50			119.63.25	50
	32	115.63.32	50			119.63.32	32
	38	115.63.38	50			119.63.38	50

METRIC OVAL HEAD PH SHEET METAL (TAPPING) SCREWS



DIN 7983 (ISO 7051)

Steel - Clear Zinc Plated (A2K)

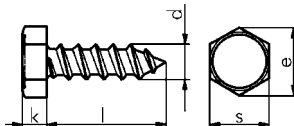
Steel - Black (A2S)

Stainless Steel A2

Diameter	2.9	3.5	3.9	4.2	4.8	5.5
Head dia. dk in mm	5.5	6.8	7.5	8.1	9.5	10.8
Head height k in mm	1.7	2.1	2.3	2.5	3	3.4
Drive	H1	H2	H2	H2	H2	H3

Diameter in mm (d)	Length l in m	Steel, Clear Zinc	P. Qty.	Steel, black	P. Qty.	A2 Stainless	P. Qty.
2.9	6.5	117.29.65	100				
	13					124.29.13	100
	19					124.29.19	100
3.5	13	117.35.13	100			124.35.13	100
	16	117.35.16	100	137.35.16	100		
	19	117.35.19	100			124.35.19	100
	25			137.35.25	100	124.35.25	100
	32						
3.9	13						
	19			137.39.19	100		
	22			137.39.22	100		
	25			137.39.25	100		
4.2	9.5					124.42.95	100
	13	117.42.13	100	137.42.13	100	124.42.13	100
	16	117.42.16	100				
	19	117.42.19	100	137.42.19	100	124.42.19	100
	22			137.42.22	100		
	25	117.42.25	100	137.42.25	100	124.42.25	100
	32			137.42.32	50	124.42.32	100
	38	117.42.38	50			124.42.38	100
50	117.42.50	50			124.42.50	100	
4.8	13					124.48.13	100
	16	117.48.16	100				
	19	117.48.19	100	137.48.19	50	124.48.19	100
	22	117.48.22	50				
	25	117.48.25	50	137.48.25	50	124.48.25	100
	32	117.48.32	50			124.48.32	50
	38	117.48.38	50			124.48.38	50
	50	117.48.50	50			124.48.50	50
5.5	16			137.55.16	50		
	19	117.55.19	50			124.55.19	100
	25			137.55.25	50	124.55.25	50
	32					124.55.32	50
	38					124.55.38	50
50					124.55.50	50	

METRIC HEX HEAD SHEET METAL (TAPPING) SCREWS



DIN 7976 (ISO1479)

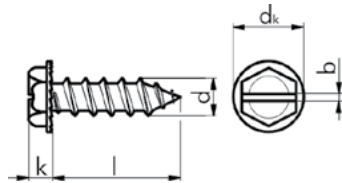
Steel - Clear Zinc Plated (A2K)

Diameter	4.2	4.8	5.5	6.3	8.0
Head height k in mm	2.8	3.0	4.0	4.8	5.8
e in mm	7.59	8.71	8.71	10.95	14.26
s in mm	7	8	8	10	13

Dia d in mm	Length (l) mm	Steel, Clear Zinc	P. Qty.
4.2	16	114.42.16	100
	22	114.42.22	
4.8	13	114.48.13	100
	16	114.48.16	
	25	114.48.25	
5.5	13	114.55.13	50
	25	114.55.25	

Dia d in mm	Length (l) mm	Steel, Clear Zinc	P. Qty.
6.3	13	114.63.13	50
	16	114.63.16	
	22	114.63.22	
	25	114.63.25	
	32	114.63.32	
8.0	38	114.63.38	50
	19	114.8..19	
	25	114.8..25	

METRIC HEX HEAD SLOTTED SHEET METAL (TAPPING) SCREW



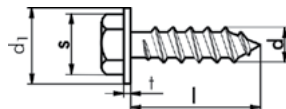
Slotted hex head washer
Steel, Clear Zinc Plated (A2K)

- Pressed-on washer and locking teeth.
- For metal sheets up to 1 mm thick.
- No pre-drilling necessary, as the screw lightly spot-drills the metal and pulls itself in automatically.
- Secure tightening of connection is guaranteed, as the screw forms a rim hole in the sheet upon entry.

Head dia. dk in mm	10
Head height k in mm	2.6
b in mm	1.3
Drive	1/4"

Dia in mm (d)	Length in mm (l)	Steel Clear Zinc	P. Qty.
4.8	13	130.48.13	100
	19	130.48.19	100

METRIC HEX HEAD SHEET METAL (TAPPING) SCREWS



DIN 7976

Hex head • Captive Washer
Steel • Clear Zinc Plated (A2K)



Diameter		4.8	5.5	6.3	8.0
s in mm		8	8	10	13
Captive washer	d1 in mm	15	15	18/22*	21
	t in mm	1.6	1.6	1.6	2.0

Nominal dia d in mm	Length (l) mm	Steel, Clear Zinc	P. Qty.
4.8	13	129.48.13	50
	16	129.48.16	50
	19	129.48.19	50
5.5	13	129.55.13	50
	16	129.55.16	50
6.3	16	129.63.16	50
	16 (*d1: 22)	129.65.16	50
	20	129.65.20	50
8.0	19	129.8..19	50

Metric Hexagon Head Self-Tapping Screw Assortment

Art. No. **964.129**
Contents: 890 pieces
16 assorted sizes, 4.8 - 8mm.

ASSORTMENTS



PH Zinc Tapping Screw Assortment

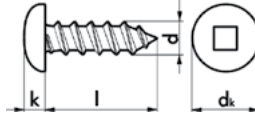
Art. No. **965.115**
Contents: 1210 pieces
16 assorted sizes: 3.5 mm - 6.3 mm.



PH Pan Head Zinc Tapping Screw Assortment

Art. No. **964.115**
Contents: 1600 pieces
16 assorted sizes: 3.5 mm - 4.8 mm.

STANDARD PAN HEAD SQUARE SHEET METAL (TAPPING) SCREWS



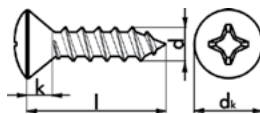
Type A
Steel • Clear Zinc Plated
Stainless Steel 18.8

Diameter	#6	#8	#10	#12	#14
Head Diameter dk	0.263	0.314	0.365	0.416	0.483
Head Height k	0.077	0.092	0.105	0.119	0.137
Square Drive	1	2	2	3	3

Dia d in inches	Length in inches (l)	Clear zinc	P. Qty.	18-8 Stainless	P. Qty.
#6	3/8	102.6..38	300	121.6..38	100
	1/2	102.6..12	100	121.6..12	100
	5/8	102.6..58	300		
	3/4	102.6..34	100	121.6..34	100
	1	102.6..1	100	121.6..1	100
	1-1/4	102.6..114	100		
	1-1/2	102.6..112	100		
#8	3/8	102.8..38	300	121.8..38	100
	1/2	102.8..12	100	121.8..12	100
	5/8	102.8..58	100		
	3/4	102.8..34	100	121.8..34	100
	1	102.8..1	100	121.8..1	100
	1-1/4	102.8..114	100		
	1-1/2	102.8..112	100		
	2	102.8..2	100		
2-1/2	102.8..212	50			
#10	1/2	102.10.12	100	121.10.12	100
	5/8	102.10.58	100		
	3/4	102.10.34	100	121.10.34	100
	1	102.10.1	100	121.10.1	100
	1-1/4	102.10.114	100		
	1-1/2	102.10.112	100	121.10.112	100
	2	102.10.2	100		
2-1/2	102.10.212	50			

Dia d in inches	Length in inches (l)	Clear zinc	P. Qty.	18-8 Stainless	P. Qty.
#12	1/2	102.12.12	100	121.12.12	100
	3/4	102.12.34	100	121.12.34	100
	1	102.12.1	100	121.12.1	100
	1-1/4		100		
	1-1/2	102.12.112	100	121.12.112	100
	2	102.12.2	100		
#14	1/2			121.14.12	50
	5/8	102.14.58	200		
	1	102.14.1	50	121.14.1	50
	3/4	102.14.34	50		
	1-1/4		50		
	1-1/2	102.14.112	50	121.14.112	50
2	102.14.2	50			

STANDARD OVAL HEAD PH SHEET METAL (TAPPING) SCREWS

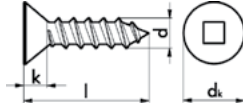


Raised Oval Countersunk Head
Type AB • Chrome Plated Steel
Type A • Stainless Steel 316

Diameter	#6	#8	#10	#12	#14
Head Diameter dk	0.279	0.332	0.385	0.438	0.507
Head Height k	0.083	0.100	0.116	0.132	0.153
PH Drive	2	2	2	3	3

Dia. in inches (d)	Length in inches (l)	Chrome plated	P. Qty.	316 SS	P. Qty.
#6	1			124.6..1	100
#8	1/2			124.8..12	100
	3/4	120.8..34			
	1	120.8..1	50	124.8..1	50
	1-1/4	120.8..114			
#10	1-1/2			124.8..112	
	1			124.10.1	
	1-1/2			124.10.112	
	2			124.10.2	
#12	3			124.10.3	
	2			124.12.2	
#14	2			124.14.2	
	2-1/2			124.14.212	

STANDARD FLAT HEAD SQUARE SHEET METAL (TAPPING) SCREWS



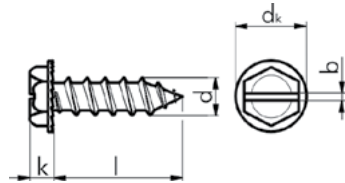
Type A
Stainless Steel 18.8

Diameter	#6	#8	#10	#12	#14
Head Diameter dk	0.279	0.332	0.385	0.438	0.507
Head Height k	0.083	0.100	0.116	0.132	0.153
Square Drive	1	2	2	3	3

Dia. in inches (d)	Length in inches (l)	18-8 SS	P. Qty.
#6	1/2	125.6..12	100
	3/4	125.6..34	
#8	1/2	125.8..12	
	3/4	125.8..34	
	1	125.8..1	

Dia. in inches (d)	Length in inches (l)	18-8 SS	P. Qty.
#10	3/4	125.10.34	100
	1	125.10.1	
	1-1/2	125.10.112	
#12	1	125.12.1	
	1-1/2	125.12.112	
#14	1-1/2	125.14.112	

STANDARD HEX HEAD SLOTTED SHEET METAL (TAPPING) SCREWS



Slotted • Hex washer head
Steel • Clear Zinc Plated

Diameter	#8	#10	#12	#14
Head diameter	0.250	0.312	0.312	0.375
Washer diameter dk	0.335	0.399	0.415	0.500
Head height k	0.128	0.138	0.178	0.221
Slot width b	0.050	0.055	0.062	0.07

Dia. in inches (d)	Length in inches (l)	Clear zinc	P. Qty.
#8	1/2	111.8..12	200
	5/8	111.8..58	
	3/4	111.8..34	
	1	111.8..1	
#10	1-1/4	111.8..114	
	1/2	111.10.12	
	5/8	111.10.58	
	3/4	111.10.34	
	1	111.10.1	
	1-1/4	111.10.114	
#12	1-1/2	111.10.112	
	1/2	111.12.12	
	3/4	111.12.34	
	1	111.12.1	
#14	1-1/4	111.12.114	
	3/4	111.14.34	
	1	111.14.1	
	1-1/4	111.14.114	
	1-1/2	111.14.112	

ASSORTMENTS



Hex Head Sheet Metal (Tapping) Screw Assortment

Art. No. 965.111502

Slotted Hex Washer Head, Steel, zinc-plated
Contents: (500 pieces): 10 assorted sizes
Size range #8 - 3/8"



Pan Head Robertson Sheet Metal (Tapping) Screw Assortment

Art. No. 965.121

18.8 Stainless Steel
Contents (1300 Pieces): 16 assorted sizes, size range #6-#14

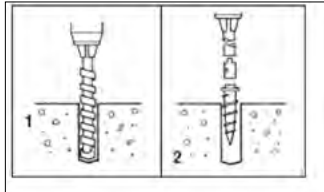


Pan Head Robertson® Sheet Metal (Tapping) Screw Assortment

Art. No. 965.102

Steel, zinc-plated Type 'A'
Contents (1250 Pieces): 16 assorted sizes, size range #6 - #14

CONCRETE SCREWS



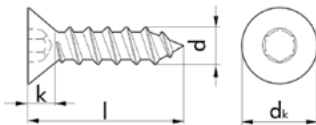
Note: Softer base materials require undersized bits for maximum performance. One (1) drill bit included in each pack.

Features:

- High strength steel.
- For use in all types of solid & hollow masonry, wood and stone.
- Fluorocarbon coating offers high resistance to corrosion. 1000 hrs in salt spray test.
- Cuts its own threads.
- Combo hex head version offers 3 drive methods.
- Fast, easy installation.

Head Style	Anchor Size	Bit. Dia. & Length	Thickness of Fixture	Ultimate Tensile & Shear Loads in Lbs. Concrete Strength P.S.I.					Art. No.	P. Qty.
				3000 P.S.I.			Hollow Block			
				Embed.	Tension	Shear	Embed.	Tension		
Combo Hex Head Washer Faced	3/16 x 1-1/4	5/32 x 3-1/2	0 - 1/4	1"	875	1170	1-1/4"	430	904.H3-125	100
	3/16 x 1-3/4		1/4 - 3/4						904.H3-175	
	3/16 x 2-1/4	5/32 x 4-1/2	3/4 - 1-1/4						904.H3-225	
	1/4 x 1-1/4	3/16 x 3-1/2	0 - 1/4						904.H4-125	
	1/4 x 1-3/4		1/4 - 3/4						904.H4-175	
	1/4 x 2-1/4		3/4 - 1-1/4						904.H4-225	
	1/4 x 2-3/4	3/16 x 4-1/2	1-1/4 - 1-3/4						904.H4-275	
1/4 x 3-3/4	3/16 x 5-1/2	2-1/4 - 2-3/4	904.H4-375							
PH Flat	3/16 x 1-3/4	5/32 x 3-1/2	1/4 - 3/4	875	1170	1-1/4"	430	904.P3-175	100	
	3/16 x 2-1/4		3/4 - 1-1/4					904.P3-225		
	1/4 x 1-3/4	1/4 - 3/4	904.P4-175							
	1/4 x 2-3/4	1-1/4 - 1-3/4	904.P4-275							

METRIC ECOFAST ASSY FLAT HEAD ASSEMBLY SCREWS



Coarse thread • flat head • AW drive screws with nibs.

Applications

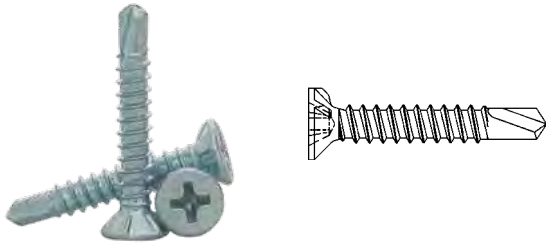
- For use in particle board, MDF, solid wood.
- Nibs allow easy, clean countersinking into melamine board.
- Assymetrical double thread pitch and lubricating coating reduce insertion time and effort by up to 50%.
- Thin shank and "nibbed" head reduce splitting
- Sharp (20 °) tip allows for precise positioning and easy starting.
- Up to 40% higher strip-out power than conventional particle board screws.
- Case hardened and zinc plated.



Dia. in mm (d)	Length in mm (l)	Thread length	Head dia.(dk)	Bit	Steel, Clear Zinc	P. Qty.
M5	50	30	10.0	AW20	158.15.50	250
	60	37			158.15.60	250
	70	42			158.15.70	200
	80	52			158.15.80	100
	100	52			158.15.100	100
M6	80	50	12.0	AW30	158.16.80	100

- 1/4" hex insert bit combines all the advantages and eliminates the disadvantages of PH, Torx® or Pozidriv bits.
- Offers better torque transfer due to the largest possible surface contact points.
- Combined cylindrical and conical shape creates optimum centering of the bit in the screw head.
- No cam out prevents damage to the screw head and the inability to drive into difficult surfaces.
- Bit "Nests" in the screw head preventing wobble.
- Longer bit life.

FEBOS® WINDOW INSTALLATION SCREWS



Steel • Clear Zinc Plated

Countersunk (flat) milling head

Tapping window installation screw for use in plastic window construction. For the connection of plastic profiles with metal reinforcement (up to 2 mm) and for securing fittings on profiles with metal stiffening (up to 2 mm).

Drive: PH 2

Dia. in mm	Length in mm	Art. No.	P. Qty.
3.9	13	207.03913	1000
	16	207.03916	
	25	207.03925	

FBS WINDOW INSTALLATION SCREWS



Self-tapping window installation screws for securing in fittings on PVC profiles.

FBS 1

Steel (thick-film passivation) • Deltacoll-Coated

Steel • Yellow Passivated (A3L)

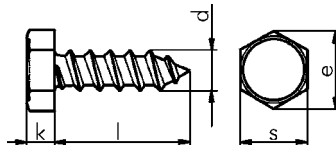
- Drive: PH 2.
- Special thread with needle tip.
- Head dia. 7.0 mm.

Advantages:

- Increased corrosion protection due to thick-film passivation and Deltacoll-coating.
- Thermal stability of corrosion protection layer 150°C (302°F).

Dia. in mm	Length in mm (l)	Galv. Steel, Deltacoll-coated	P. Qty.	Galv. Steel, yellow passiv.	P. Qty.
4.1	19	185.244119	1000	185.214119	1000
	22	185.244125	1000	185.214122	500
	25			185.214125	1000
	30			185.214130	1000

STANDARD HEX HEAD LAG SCREWS



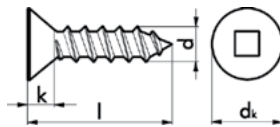
Steel • Clear Zinc Plated
Wood Applications

Diameter	5/16	3/8
Hex-Drive s	1/2	9/16
e max.	0.577	0.650
k	7/32	1/4

Dia. in inches (d)	Length in inches (l)	Clear zinc	P. Qty.
1/4	1-1/2	192.14.112	100
	2	192.14.2	100
	3	192.14.3	100
5/16	1	192.516.1	50
	1-1/2	192.516.112	100
	2	192.516.2	100
	2-1/2	192.516.212	25
	4	192.516.4	25
	5	192.516.5	25
6	192.516.6	25	

Dia. in inches (d)	Length in inches (l)	Clear zinc	P. Qty.
3/8	1-1/2	192.38.112	50
	2	192.38.2	100
	2-1/2	192.38.212	50
	3	192.38.3	100
	4	192.38.4	25
	6	192.38.6	25

STANDARD FLAT HEAD SQUARE WOOD SCREWS



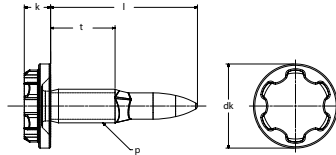
Steel • Clear Zinc Plated

Diameter	#6	#8	#10	#12
Head Diameter dk	0.279	0.332	0.385	0.438
Head height k	0.083	0.100	0.116	0.132

Dia. in inches (d)	Length in inches (l)	Clear zinc	P. Qty.
#6	5/8	103.6..58	150
	3/4	103.6.34	150
	1	103.6.1	150
	1-1/4	103.6.114	150
	1-1/2	103.6.112	150
#8	1/2	103.8.12	150
	5/8	103.8.58	150
	3/4	103.8.34	150
	1	103.8..1	150
	1-1/4	103.8..114	150
	1-1/2	103.8..112	150
	1-3/4	103.8..134	150
	2	103.8..2	150
	2-1/2	103.8.212	150
	3	103.8.3	150
	3-1/2	103.8.312	150
	4	103.8.4	100

Dia. in inches (d)	Length in inches (l)	Clear zinc	P. Qty.
#10	3/4	103.10.34	150
	1	103.10.1	150
	1-1/4	103.10.114	150
	1-1/2	103.10.112	150
	1-3/4	103.10.134	150
	2	103.10.2	150
	2-1/4	103.10.214	100
	2-1/2	103.10.212	150
#12	3	103.10.3	150
	3-1/2	103.10.312	150
	1	103.12.1	200
	3/4	103.12.34	150
	1-1/4	103.12.114	500
#14	1-1/2	103.12.112	150
	2	103.12.2	150
	3	103.12.3	100
	1	103.14.1	100
	1-1/4	103.14.114	100
	1-1/2	103.14.112	100
	2	103.14.2	100
3	103.14.3	100	

FLOWFORM® SCREWS



Flowform® Screw 5mm

Material:

- GM6171M or equivalent case hardened
- Surface hardness min. 500 HV 0.3
- Core Hardness 320 - 400 HV 10

Finish:

- GMW14100 with top coat lubricant
- 480 hrs. SSN according to DIN EN ISO 9227

The Flowform® screw is an innovative alternative to conventional methods of joining sheet metals together. The fastener is based on flow-drilling, a process for producing threaded or unthreaded holes in metal parts. The sharp pointed screw is spun at high RPMs. As the spinning tip comes into contact with the metal, heat is generated, making the material soft and malleable enough to be formed and perforated. The heated metal forms a deep, solid threaded bond around the screw.

Features:

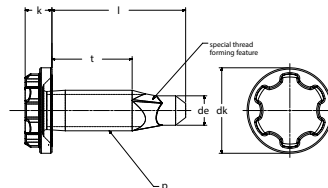
- Heat treated 10.9
- 6 point Torx head
- Polygonal body with an unthreaded sharp conical point
- Based on Taptite 2000® - technology known as flow-drilling

Benefits:

- Polygonal body increases holding strength while reducing material displacement
- Can be installed with or without a punched or drilled hole
- Easier to install
- More economical than spot-welding
- Does not require a c-frame or counter nut

Areas of application:

- When the assembler/technician has access to one side of the component only
- **5mm only** - to replace existing 5mm Flowform® screws or when replacing panels with existing un-stripped threaded holes that have been created from existing Flowform® screws
- **6mm only** - aluminum panels with existing threaded holes created by a Flowform® screw but is now stripped, or the original Flowform® screw has been pulled through/lost



Flowform® Screw 6mm

Material:

- GMW25 110.91

Finish:

- GMW14100 with top coat lubricant
- 480 hrs. SSN according to DIN EN ISO 9227

Note: Acceptable RPM - 2500; preferred RPM - 5000
Maximum thickness of the aluminum sheets - 6.00mm

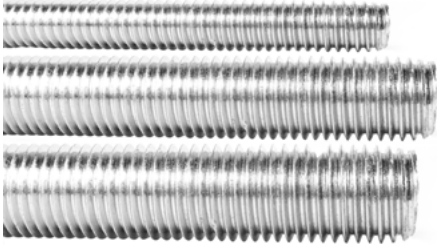
Vehicle applications:

- GM Opel
- Jaguar XK and X150
- Lotus - aluminum chassis in the Proton
- Volkswagen - for the cover of the entry step on the Cross Touran
- ThyssenKrupp, for body panels on the Lamborghini
- Fehrer Automotive and Alcoa - for body panels
- **Ford F-150 - 2015 models**
- GM Omega - Fall 2015

Dia.-Thread Pitch (p)	Min. - Max. Head Dia. (dk)	Min. - Max. Head Height (k)	Min. - Max. Length (l)	Min. - Max. Threaded Length (t)	Min. - Max. Tip Dia. (de)	Art. No.	P. Qty.
M5 x 0.8	12.57 - 13.00	3.8 - 4.2	22.00 - 22.65	9.35 - 10.25	-	050.5..22	50
M6 x 1.0			19.35 - 20.65	12.00	4.3 - 4.5	050.6..20	

Note: Bit holder for Flowform® Screw is Extended Length Nutsetter **Art. No. 614.176726**

METRIC THREADED ROD



DIN 975

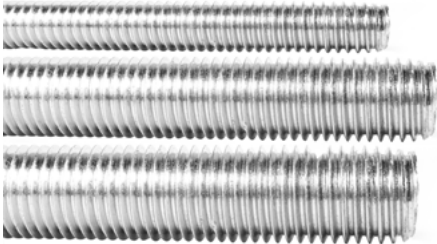
Material: Steel
Grade: 4.8
Clear zinc

DIN 976

Material: Steel
Grade: 8.8
Clear zinc

Dia - Thread pitch	Length	Art. No.	P.Qty.
M6-1	1 m	957.6	5
M8-1.25		957.8	
M10-1.5		957.10	

STANDARD THREADED ROD

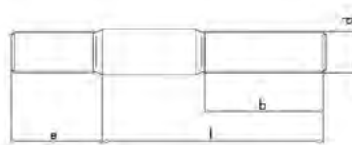


Mild Steel • Grade 2
High Alloy Steel • B7
Stainless Steel • 316
Stainless Steel • 18-8

	Prefix 958	Prefix 959	Prefix 960	Prefix 963
Material	Mild Steel	High alloy Steel	Stainless Steel	Stainless Steel
Grade	Grade 2	B7	316	18-8
Finish	Clear zinc	Yellow zinc		
Length	36"	36"	36"	36"

Dia-Thread Pitch	Art. No.	P. Qty.	Art. No.	P. Qty.	Art. No.	P. Qty.	Art. No.	P. Qty.
1/4-20	958.14	10	959.14	5	960.14	3	963.14	5
5/16-18	958.516		959.516		960.516		963.516	
3/8-16	958.38	3	959.38	3	960.38	1	963.38	3
7/16-14	958.716		959.716		960.716		963.716	
1/2-13	958.12	5	959.12	5	960.12	1	963.12	1
5/8-11	958.58		959.58		960.58		963.58	
3/4-10	958.34	3	959.34	1				
1-8	958.1	2	959.1					

STUDS - DIN 939



Stud

- DIN 939
- 5.8 Bare

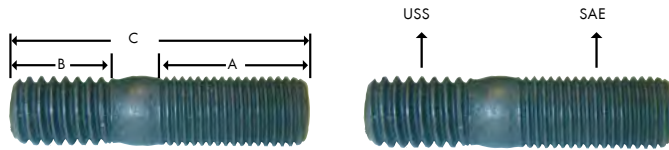
Thread ø d	M6	M8	M10	M12	M16
b* mm	18	22	26	30	38
e mm	7.5	10	12	15	20

* for length ≤ 125 mm

Thread dia (d)	Length (l) mm	Art. No.	P. Qty
M6	20mm	250.6..20	50
	25mm	250.6..25	
M8	20mm	250.8..20	25
	25mm	250.8..25	
	35mm	250.8..35	
	40mm	250.8..40	
M10	45mm	250.8..45	25
	20mm	250.10.20	
	25mm	250.10.25	
	30mm	250.10.30	

Thread dia (d)	Length (l) mm	Art. No.	P. Qty
M10	35mm	250.10.35	25
	40mm	250.10.40	
	45mm	250.10.45	
	50mm	250.10.50	
	60mm	250.10.60	
	65mm	250.10.65	
	70mm	250.10.70	
M12	30mm	250.12.30	25
	50mm	250.12.50	
	70mm	250.12.70	

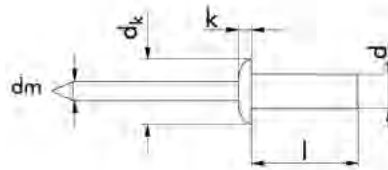
CYLINDER HEAD & MANIFOLD STUDS



Grade 8 • Med Carbon • Heat Treated Alloy

A (Dia & Length)	B (Dia & Length)	C (overall Length)	Art. No.	Qty
5/16" - 24 SAE x 5/8"	5/16" - 24 SAE x 5/8"	1-1/2"	252.516.112	10
5/16" - 24 SAE x 7/8"	5/16" - 18 USS x 9/16"	1-3/4"	252.516.134	
5/16" - 24 SAE x 1"		2"	252.516.2	
3/8" - 24 SAE x 3/4"	3/8" - 16 USS x 1/2"	1-1/2"	252.38.112	
3/8" - 16 USS x 1-1/8"		1-3/4"	252.38.134	
3/8" - 16 USS x 1"	3/8" - 16 USS x 5/8"	2"	252.38.2	
3/8" - 16 USS x 1/2"	3/8" - 16 USS x 1-7/8"	2-1/8"	252.38.218	
1/2" - 20 SAE x 15/16"	1/2" - 13 USS x 13/16"	2-1/2"	252.38.212	
1/2" - 20 SAE x 2"	1/2" - 13 USS x 3/4"	2"	252.12.2	
		3"	252.12.3	

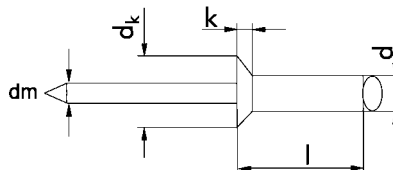
CLOSED END RIVETS



Domed head
Rivet: Aluminum
Mandrel: Steel

Dia. (d) x length (l)	Drilling hole dia.	Clamping range	Flange dia. dk	Head height k	Mandrel dm	Typical shear strength	Typical tensile strength	Art. No.	P. Qty.
1/4 x 0.570	#20	0.126 - 0.250	0.500	0.098	0.142	900 lbs	1100 lbs	941.14.12	100
1/4 x 0.695		0.251 - 0.375						941.14.38	
3/16 x 0.730	#11	0.376 - 0.500	0.375	0.080	0.109	500 lbs	960 lbs	941.316.12	
3/16 x 0.475		0.126 - 0.250						941.316.14	
3/16 x 0.595		0.251 - 0.375						941.316.38	

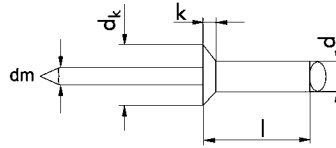
BLIND RIVETS



Domed head
Rivet: 302-304 Stainless Steel
Mandrel: 302-304 Stainless Steel

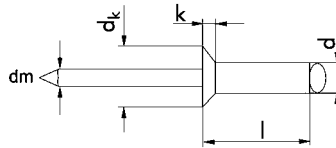
Dia. (d) x length (l)	Drilling hole dia.	Clamping range	Flange dia. dk	Head height k	Mandrel dm	Typical shear strength	Typical tensile strength	Art. No.	P. Qty.
1/8 x 0.275	#30	0.063 - 0.125	0.250	0.040	0.076	550 lbs	700 lbs	942.18.18	100
1/8 x 0.337		0.126 - 0.187						942.18.316	
1/8 x 0.400		0.188 - 0.250						942.18.14	
1/8 x 0.525		0.313 - 0.375						942.18.38	
3/16 x 0.450	#11	0.188 - 0.250	0.375	0.060	0.114	1000 lbs	1375 lbs	942.316.14	
3/16 x 0.575		0.251 - 0.375						942.316.38	
3/16 x 0.700		0.376 - 0.500						942.316.12	

BLIND RIVETS



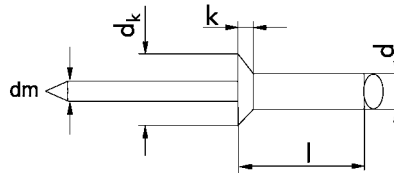
120° Flush countersunk
Rivet: Aluminum
Mandrel: Carbon Steel

Dia. (d) x length (l)	Drilling hole dia.	Clamping range	Flange dia. dk	Head height k	Mandrel dm	Typical shear strength	Typical tensile strength	Art. No.	P. Qty.
1/8 x 0.337	#30	0.126 - 0.187	0.220	0.065	0.076	210 lbs	325 lbs	937.18.316	100
1/8 x 0.400		0.188 - 0.250						937.18.14	



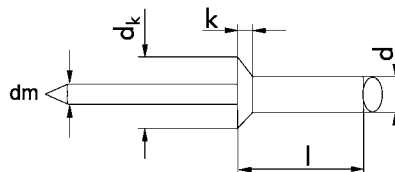
Large flange
Rivet: Carbon Steel
Mandrel: Carbon Steel

Dia. (d) x length (l)	Drilling hole dia.	Clamping range	Flange dia. dk	Head height k	Mandrel dm	Typical shear strength	Typical tensile strength	Art. No.	P. Qty.
1/8 x 0.400	#30	0.188 - 0.250	0.375	0.065	0.076	295 lbs	425 lbs	934.18.14	100
3/16 x 0.450	#11	0.020 - 0.250	0.625	0.092	0.114	590 lbs	815 lbs	934.316.14	
3/16 x 0.575		0.251 - 0.375						934.316.38	
3/16 x 0.700		0.376 - 0.500						934.316.12	



Domed head
Rivet: Steel
Mandrel: Steel with rust inhibitor sealer

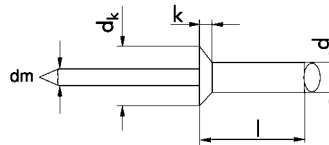
Dia. (d) x length (l)	Drilling hole dia.	Clamping range	Flange dia. dk	Head height k	Mandrel dm	Typical shear strength	Typical tensile strength	Art. No.	P. Qty.
1/8 x 0.275	#30	0.063 - 0.125	0.250	0.040	0.076	295 lbs	425 lbs	932.18.18	100
1/8 x 0.337		0.126 - 0.187						932.18.316	
1/8 x 0.400		0.188 - 0.250						932.18.14	
1/8 x 0.462		0.251 - 0.312						932.18.516	
1/8 x 0.525		0.313 - 0.375						932.18.38	
3/16 x 0.450	#11	0.188 - 0.250	0.375	0.060	0.114	590 lbs	815 lbs	932.316.14	
3/16 x 0.575		0.251 - 0.375						932.316.38	
3/16 x 0.700		0.376 - 0.500						932.316.12	
1/4 x 0.625	F	0.251 - 0.375	0.500	0.080	0.151	1245 lbs	1505 lbs	932.14.38	
1/4 x 0.750		0.376 - 0.500						932.14.12	
1/4 x 0.875		0.501 - 0.625						932.14.58	
1/4 x 1.000		0.626 - 0.750						932.14.34	



Domed head
Rivet: Aluminum
Mandrel: Aluminum

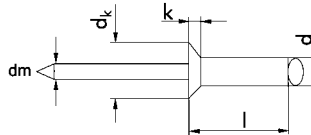
Dia. (d) x length (l)	Drilling hole dia.	Clamping range	Flange dia. dk	Head height k	Mandrel dm	Typical shear strength	Typical tensile strength	Art. No.	P. Qty.
1/8 x 0.275	#30	0.063 - 0.125	0.250	0.040	0.076	210 lbs	325 lbs	939.18.18	100
1/8 x 0.525		0.313 - 0.375						939.18.38	
1/8 x 0.650		0.376 - 0.500						939.18.12	
5/32 x 0.425	#20	0.188 - 0.250	0.312	0.050	0.095	340 lbs	490 lbs	939.532.14	
3/16 x 0.325	#11	0.020 - 0.125	0.375	0.060	0.114	445 lbs	720 lbs	939.316.18	
3/16 x 0.450		0.188 - 0.250						939.316.14	
3/16 x 0.575		0.251 - 0.375						939.316.38	
3/16 x 0.700		0.376 - 0.500						939.316.12	

BLIND RIVETS



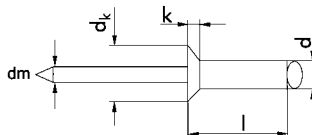
Large Flange
Rivet: Aluminum
Mandrel: Aluminum

Dia. (d) x length (l)	Drilling hole dia.	Clamping range	Flange dia. dk	Head height k	Mandrel dm	Typical shear strength	Typical tensile strength	Art. No.	P. Qty.
1/8" x 0.275"	#30	0.02" - 0.125"	0.375"	0.065"	0.076"	155 lbs	235 lbs	940.18.18	100
1/8" x 0.4"		0.188" - 0.25"						940.18.14	
3/16" x 0.575"	#11	0.251" - 0.375"	0.625"	0.092"	315 lbs	500 lbs	940.316.38		
3/16" x 0.95"		0.626" - 0.75"					940.316.34		



Domed head
Rivet: Aluminum
Mandrel: Carbon Steel

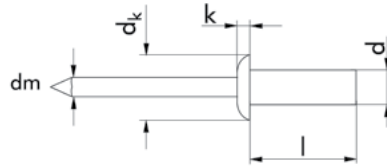
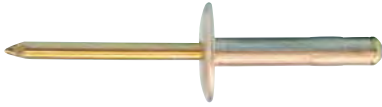
Dia. (d) x length (l)	Drilling hole dia.	Clamping range	Flange dia. dk	Head height k	Mandrel dm	Typical shear strength	Typical tensile strength	Art. No.	P. Qty.
1/8" x 0.275"	#30	0.063" - 0.125"	0.25"	0.04"	0.076"	210 lbs	325 lbs	936.18.18	100
1/8" x 0.4"		0.188" - 0.25"						936.18.14	
1/8" x 0.462"		0.251" - 0.312"						936.18.516	
1/8" x 0.525"		0.313" - 0.375"						936.18.38	
1/8" x 0.65"		0.376" - 0.5"						936.18.12	
5/32" x 0.55"	#20	0.251" - 0.375"	0.312"	0.05"	0.095"	340 lbs	490 lbs	936.532.38	
3/16" x 0.45"	#11	0.188" - 0.250"	0.375"	0.06"	0.114"	445 lbs	720 lbs	936.316.14	
3/16" x 0.575"		0.251" - 0.375"						936.316.38	
3/16" x 0.7"		0.376" - 0.5"						936.316.12	
3/16" x 0.825"		0.501" - 0.625"						936.316.58	
3/16" x 0.95"		0.626" - 0.75"						936.316.34	



Large Flange
Rivet: Aluminum
Mandrel: Carbon Steel

Dia. (d) x length (l)	Drilling hole dia.	Clamping range	Flange dia. dk	Head height k	Mandrel dm	Typical shear strength	Typical tensile strength	Art. No.	P. Qty.
1/8" x 0.4"	#30	0.188" - 0.25"	0.375"	0.065"	0.076"	210 lbs	325 lbs	938.18.14	100
3/16" x 0.45"	#11	0.02" - 0.25"						0.625"	0.092"
3/16" x 0.575"		0.251" - 0.375"	938.316.38	100					
3/16" x 0.7"		0.376" - 0.5"	938.316.12	100					
3/16" x 0.825"		0.501" - 0.625"	938.316.58	100					
3/16" x 0.95"		0.626" - 0.75"	938.316.34	100					
3/16" x 1.2"		0.876" - 1"	938.316.1	100					

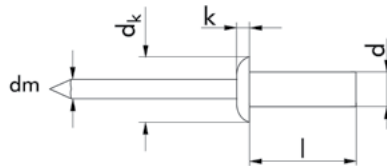
MULTIPLE GRIP RIVETS



Domed head
Rivet: 5052 Aluminum
Mandrel: Steel

Dia. (d) x length (l)	Drilling hole dia. mm	Clamping range mm	Head dia dk in mm	Head height k in mm	Mandrel dm mm	Typical shear strength Kgf	Typical tensile strength Kgf	Art. No.	P. Qty.
4.8 x 10.3	4.9	1.6 - 6.4	9.8	1.45	2.9	159	240	945.110	100
4.8 x 15.1		4.8 - 11.1						945.111	
4.8 x 24.8		12.7 - 19.8	15.85					945.114	

PIAS BLIND RIVETS



High quality rivets

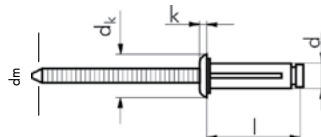
- Rivet sleeve: Aluminum Magnesium 2.5.
- Rivet body plating: steel, yellow chromed.
- Clean, solid formation of closing head.
- Reliable, patented locking action.
- Constant high tensile and shearing strength
- Large shank expansion.
- Maximum filling of borehole, even bore holes drilled too large.
- Cost reduction due to limited number of types.
- Inventory reduction.
- Fewer possibilities of processing errors.

Dia. (d) x length (l)	Drilling hole dia.	Grip Range inches	Head dia. (dk) inches	Head height (k) inches	Typical shear strength lbs.	Typical tensile strength lbs.	Art. No.	P. Qty.
1/8 x 5/16	#30	.019 - .188	1/4	1/32	169	269	915.53248	500
5/32 x 3/8	#21	.047 - .248	5/16	3/64	269	449	915.54064	
3/16 x 3/8	#11	.063 - .248	3/8	1/16	360	607	915.54864	250
3/16 x 5/8		.188 - .437	3/8				915.548110	

Application:

- Borehole: secure riveting is assured, even with different materials and larger bore hole tolerances.
- Filling of borehole: the special deformation of the rivet head assures filling of various borehole diameters, providing tight riveting.
- Formation of closing head: a solid, splash water proof connection is achieved owing to the clean and secure formation of the rivet head.

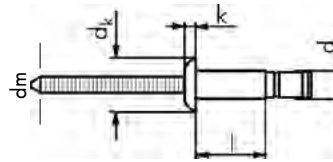
TLR RIVETS



Domed head
Rivet: Aluminum
Mandrel: Aluminum

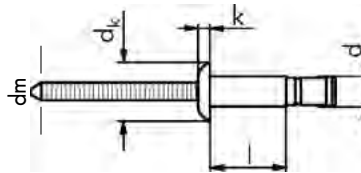
Dia. (d) x length (l)	Drilling Hole dia.	Clamping Range	Head dia. (dk)	Head height (k)	Mandrel (dm)	Typical shear strength	Typical tensile strength	Art. No.	P. Qty.
0.187x0.770max	0.209-0.221	0.062 - 0.250	0.446-0.492	0.099max	0.110	675lbs	450lbs	945.102	100
0.187x1.020max	0.209-0.222	0.312 - 0.500	0.446-0.493					945.103	
0.250x0.940max	0.250-0.263	0.250 - 0.375	0.535-0.580	0.116max	0.130	905lbs	575lbs	945.118	

MONOBOLTS



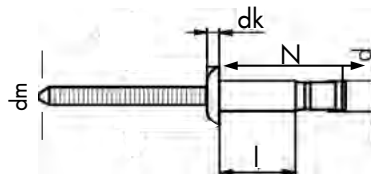
Domed head
Rivet: Steel
Mandrel: Steel

Dia. (d) x length (l)	Drilling hole dia. mm	Clamping range mm	Head dia. (dk) in mm	Head height (k) in mm	Mandrel in mm (dm)	Typical shear strength lbs.	Typical tensile strength lbs.	Art. No.	P. Qty.
4.8 x 14.5	4.9 - 5.0	1.6 - 11.0	9.2	2.2	2.8	1377	1179	945.205	100
6.5 x 14.2	6.6 - 7.0	2.0 - 9.5	13	2.8	3.9	2755	2204	945.107	
6.5 x 20.5		2.0 - 15.9	13.0					945.100	



Domed head
Rivet: aluminum
Mandrel: aluminum

Dia. (d) x length (l)	Drilling hole dia. mm	Clamping range mm	Head dia. (dk) in mm	Head height (k) in mm	Mandrel in mm (dm)	Typical shear strength lbs.	Typical tensile strength lbs.	Art. No.	P. Qty.
4.8 x 10.5	4.9	1.6 - 6.9	9.2	2.2	2.8	645	579	945.101	100
6.5 x 14.2	6.6 - 7.0	2.0 - 9.5	13.0	2.8	3.9	1300	992	945.109	
		2.0 - 15.9						945.108	



Domed head
Rivet: Stainless Steel
Mandrel: Stainless Steel

Dia. (d) x length (l)	Drilling hole dia. mm	Clamping range mm	Head dia. (dk) in mm	Blind Side Protrusion (N) in mm	Mandrel in mm (dm)	Typical shear strength lbs.	Typical tensile strength lbs.	Art. No.	P. Qty.
4.8 x 10.5	4.9 - 5.1	1.63 - 6.86	2.2	19	2.9	652	520	945.113	100
6.5 x 14.2	6.6 - 7.0	2.0 - 9.5	2.8	25	3.9	2755	950	945.120	
6.5 x 20.5		2.0 - 15.9		36				945.121	

ASSORTMENTS



Premium Industrial Steel/ Stainless Blind Rivet Assortment

Art. No. 965.932

Includes Domed and Flange
Contents (1000 pieces): 11 assorted sizes, size range 1/8"-3/16"

Premium Industrial Aluminum/ Steel Blind Rivet Assortment

Art. No. 965.936

Includes Domed and Flange
Contents (1600 pieces): 16 assorted sizes, size range 1/8"-3/16"

SPECIALTY BLIND RIVETS FOR ALUMINUM REPAIR



Specialty blind rivets for repairing of aluminum panels.

Benefits:

- Würth specialty aluminum rivets are non-oiled to prevent the contamination of aluminum panels during re-assembly

Areas of application:

- Flow Drill Screws (FDS) are to be replaced by blind rivets only. The original location of the FDS is used, but reamed out to 6.5mm (use Art. No. 624.65)
- Blind rivets are the preferred replacement for original self-piercing rivets (SPR)

Directions: Please follow manufacturer's instructions for locations and applications

Size	Grip Range	Ford #	Art. No.	P. Qty
1/4" x 1/2"	.060 - .138	W707638-S900C	919.14060	25
1/4" x 1/2"	.110 - .189	W702512-S900C	919.14110	25
1/4" x 1/2"	.268 - .346	W702554-S900C	919.14268	25
1/4" x 1/2"	3/16 - 17/64	W708777-S900C	919.14316	10

BRAZIER/BUCK RIVETS



Brazier Head Solid Rivets

Dia.	(D) Shank		(A) Head Dia.		(H) Head Height		L	1100F (soft alu.)	5052H32 (hard alu.)	2117T4 (w/dot) (v. hard alu.)	P. Qty.
	Max.	Min.	Max.	Min.	Max.	Min.					
3/16	0.191	0.182	0.479	0.459	0.101	0.087	3/8"	945.316.38	946.316.38	950.316.38	1,000
							1/2"	945.316.12	946.316.12	-	
							5/8"	945.316.58	946.316.58	-	
							3/4"	945.316.34	946.316.34	-	
1/4	0.253	0.244	0.640	0.610	0.133	0.117	1/2"	-	946.14.12	-	
							5/8"	-	946.14.58	-	
							3/4"	-	946.14.34	-	

MODIFIED HEAD BRAZIER/BUCK RIVETS



Modified Brazier Head Solid Rivets

Dia.	(D) Shank		(A) Head Dia.		(H) Head height		L	1100F (soft alu.)	5052H32 (hard alu.)	2117T4 (w/dot) (v. hard alu.)	P. Qty.
	Max.	Min.	Max.	Min.	Max.	Min.					
3/16"	0.191"	0.182"	0.4"	0.38"	0.085"	0.071"	3/8"	-	-	950.316.38	1,000
							1/2"	947.316.12	-		
1/4"	0.253"	0.244"	0.483"	0.453"	0.102"	0.086"	1/2"	947.14.12	948.14.12		
							3/4"	947.14.34	948.14.34	-	
3/8"	0.380"	0.365"	0.796"	0.766"	0.166"	0.146"	7/8"	947.38.78	-	-	
							1"	947.38.1	-	-	

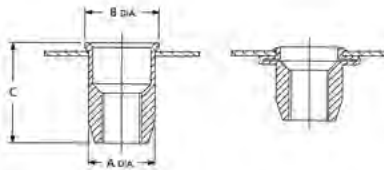
RIVNUTS

Rivet nuts can be used as rivet and screw connections. They ensure secure connections as well as the simple installation of other components using just standard screws.

Advantages:

- Processing takes place from one side, thus also suitable for closed profiles.
- Simple, quick and largely automatic installation.
- No need for countersinking of drilled holes.
- Consistently high quality of installations.
- Non-twisting connection with a thread capable of bearing loads.
- More economical thanks to increased working speed, more secure connections and improved quality.

METRIC FLAT RIVNUT

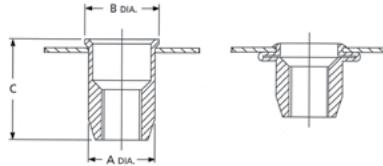


Thread Size	A Max.	C Max.	B Max.	Grip range	Hole ± 0.015	Art. No.	P. Qty.
M4 x 0.7	.249"	.270"	.409"	.020 - .079"	.252	944.4	25
M5 x 0.8	.280"	.437"	.318"	.019 - .129"	.283"	944.5	
M6 x 1.0	.374"	.590"	.401"	.029 - .165"	.377"	944.6	
M8 x 1.25	.500"	.708"	.547"	.039 - .196"	.500"	944.8	10

Steel - Clear Zinc Plated

- Reduced assembly costs.
- Blind installation is installed fast and cleanly.
- Designed for thin materials.
- Can work in materials as thin as .020" and greater.
- Permanent.
- Crimps the parent material, providing secure and permanent load bearing thread.
- Low profile head.
- Flush fit to workpiece.

STANDARD FLAT RIVNUT



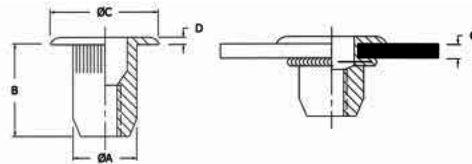
Thread Size	A Max.	C Max.	B Max.	Grip range	Hole ±0.006	Art. No.	P. Qty.
6-32	.249"	.385"	.295"	.020 - .080"	.250"	944.6..32 *†	25
8-32	.249"	.385"	.295"	.020 - .080"	.250"	944.8..32 *	25
10-24	.280"	.465"	.320"	.020 - .118"	.285"	944.10.24 *	25
1/4-20	.374"	.580"	.425"	.030 - .165"	.375"	944.14.20 *	25

Steel • Clear Zinc Plated

- Reduced assembly costs.
- Blind installation is installed fast and cleanly.
- Designed for thin materials.
- Can work in materials as thin as .020" and greater.
- Permanent.
- Crimps the parent material, providing secure and permanent load bearing thread.
- Low profile head.
- Flush fit to workpiece.

* With underhead splines † Yellow zinc

KNURLED RIVNUT - LARGE FLANGE

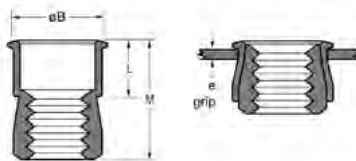


Part Material	Thread Size	A Max.	B ± 0.015	C ± 0.010	D ± 0.010	Grip Range G	Hole ± 0.006	Art. No.	P. Qty.
Steel	1/4-20 UNC	0.390	0.580	0.500	0.030	0.027 - 0.165	25/64	944.1420.165S	25
	1/4-20 UNC	0.390	0.683	.500	0.037	0.165 - 0.260	25/64	944.1420.260S	
	5/16-18 UNC	0.530	0.690	0.685	0.035	0.027 - 0.150	17/32	944.516.150S	
	5/16-18 UNC	0.530	0.805	0.685	0.035	0.150 - 0.312	17/32	944.516.312S	
	3/8-16 UNC	0.530	0.690	0.685	0.035	0.027 - 0.150	17/32	944.38.150S	
Aluminum	3/8-16 UNC	0.530	0.805	0.685	0.035	0.150 - 0.312	17/32	944.38.312S	25
	1/4-20 UNC	0.390	0.580	0.500	0.030	0.027 - 0.165	25/64	944.1420.165A	
	1/4-20 UNC	0.390	0.680	0.500	0.030	0.165 - 0.260	25/64	944.1420.260A	
	3/8-16 UNC	0.530	0.693	0.670	0.042	0.027 - 0.150	17/32	944.38.150A	
	3/8-16 UNC	0.530	0.805	0.685	0.035	0.150 - 0.312	17/32	944.38.312A	

Steel • Clear Zinc Plated

- Splined body.
- The splined body provides increased torque-to-turn resistance over conventional non-splined inserts.
- Large flange.
- Provides a large bearing surface which increases push-out performance.
- Wide grip range.
- The range of product within the series provides a placing capability in material thickness ranging from .027" (0.5mm) to .312" (7.9mm).
- High strength threads.
- The threads are rolled into the product creating work hardened surface providing high-strength, load-bearing threads.
- Lead-in chamfer.
- The lead-in chamfer on the body provides ease of insertion into the work piece.
- Aluminum

HEAVY DUTY NUTSERT



Thread size	e (grip) min.	e (grip) max.	rec.	Ø B max.	L max.	M	Art. No.	P. Qty.
10-24 UNC	.030	.090	.2812	.2810	.190	.385	944.91024	50
	.091	.124	.2900					
	.125	.186	.2968					
	>.186	.2968						
10-32 UNF	.030	.090	.2812	.3749	.262	.525	944.91032	50
	.091	.124	.2900					
	.125	.186	.2968					
	>.186	.2968						
1/4-20 UNC	.030	.090	.3750	.3749	.262	.525	944.914	50
	.091	.124	.3750					
	.125	.186	.3860					
	>.186	.3906						

Steel • Clear Zinc Plated

- Reduced assembly costs.
- Installed from one side of the workpiece.
- Not grip sensitive.
- Can be used in any material thickness from .030" through solid materials.
- Permanent.
- Radial expansion on Nutsert provides 360° contact with parent material.
- Portability.
- Allows installation anywhere and at any time in the assembly process.
- Rear protrusion.
- Reduced rear-sheet protrusion.

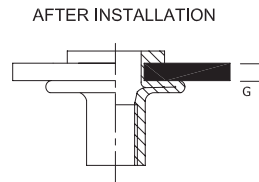
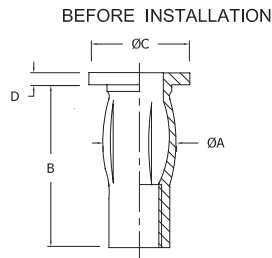
RIVNUT NOSE TIPS



Metric Nose Tip	
Size	Art. No.
M4 - 0.7	944.04
M5 - 0.8	944.05
M6 - 1.0	944.06
M8 - 1.25	944.08

Standard Nose Tip	
Size	Art. No.
#6 - 32	944.06.32
#8 - 32	944.08.32
#10 - 24	944.010.24
#10 - 32	944.010.32
1/4 - 20	944.014.20
5/16 - 18	944.0516.18
3/8 - 16	944.038.16

PRE-BULBED INSERT



Low Carbon Steel • Yellow Zinc \ Clear Zinc

Thread Size	A Max.	B ± 0.015	C ± 0.025	D ± 0.010	Grip Range G	Hole + 0.006	Art. No.
1/4-20	0.384	1.000	0.625	0.057	0.020 - 0.280	0.390	944.11420

RIVNUT ASSORTMENTS & PARTS



Metric Rivnut Kit Art. No. 965.9441001

Contents (45 pieces):
4, 5, 6 and 8 mm metric flat rivnuts, 4, 5, 6, and 8 mm rivnut nose tips, rivet gun



USS Standard Rivnut Kit Art. No. 965.9441000

Contents (40 pieces):
3 sizes heavy duty nutserts, 1 size USS flat riv-nut, 4 standard rivnut nose tips, rivet gun

SELF-PIERCING RIVETS



Self-piercing rivet (SPR) joints are achieved by pressing a self-piercing rivet using a specialty tool (SPR gun) to fasten two or more sheets of material through the metals to be joined. This is done with the use of a die. The lower sheet is attached to the upper sheet without piercing through it.

Each manufacturer has a die that matches their OEM requirements and visual similarity.

Material: Steel
Coating: ZnSnAl (zinc/tin/aluminum)

Dia x length (mm)	Henrob Cross Ref.	Art. No.	P.Qty
3.35 x 3.5	C30N44AY00-G05	919.33535	100
3.35 x 4.0	C30444AY00-G05	919.33540	
3.35 x 5.0	J30544AY00-G05	919.33550	
3.35 x 6.0	C50644AZ00-D02	919.33560	
5.3 x 4.0	C50444CY00-G02D	919.5340	200
5.3 x 8.0	K50844AY00-G01D	919.5350	
5.3 x 5.0	C50544AY00-G02D	919.5360	100
5.3 x 6.0	C50644AZ00-D02	919.5365	
5.3 x 6.5	C50D44AY00-G02	919.5370	
5.3 x 7.0	K50744AY00-G01D	919.5375	
5.3 x 7.5	K50M44AZ00-D02	919.5380	

Benefits:

- Speed of installation
- No drilling required
- Applications for aluminum and steel and dissimilar materials
- Can be used on un-weldable materials
- More than one material can be fastened
- Safe, with no fumes, sparks or high temperatures during installation
- Completed joint can be easily checked visually
- Can be used with glues and adhesives

Areas of application:

- Used in the assembly of cars, trucks and manufactured products.
- Automotive and truck applications include hoods, doors, trunk lids, tailgates, seat rails, side-impact bars, space frames, window frames and sunroof frames.
- Manufacturers use SPR's for step ladders, air cargo containers, garage door frames, air conditioners, refrigerators, office furniture etc.

Note: The rivet used should be 2 to 3 mm longer than the stack of materials to be joined.

SELF-PIERCING RIVET AND FLOWFORM® ASSORTMENT

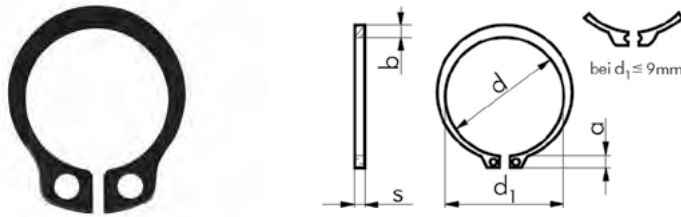


Art. No. 965.919 - 1400 pcs

Description (mm)	Art. No.	Kit Contents
SPR 3.35 x 3.5	919.33535	100
SPR 3.35 x 4.0	919.33540	100
SPR 3.35 x 5.0	919.33550	100
SPR 3.35 x 6.0	919.33560	100
SPR 5.3 x 4.0	919.5340	200
SPR 5.3 x 8.0	919.5350	100
SPR 5.3 x 5.0	919.5360	100
SPR 5.3 x 6.0	919.5365	100
SPR 5.3 x 6.5	919.5370	100
SPR 5.3 x 7.0	919.5375	100
SPR 5.3 x 7.5	919.5380	100
Flowform® screw 5mm x 22mm	050.5..22	100
Flowform® screw 6mm x 20mm	050.6..20	100

METRIC EXTERNAL RETAINING RINGS

Complies with DIN 471 for shafts



Spring Steel
Phosphate and Oil

- For safely limiting freedom of movement to a previously defined level - also when there are rotary movements of machine parts on shafts and in bore holes.
- High pressure, tensile and impact forces are transferred without torsion.
- Transfer of high axial forces from the machine part applying pressure onto the groove wall.
- Shaft clips can also be used in conjunction with high speeds.
- The clips can be removed quickly and easily with the correct pliers.

Dia. (d)	d1 in mm	s in mm	b in mm	a in mm	Art.No	P. Qty.
M5	4.7	0.6	1.1	2.5	438.5	50
M6	5.6	0.7	1.3	2.7	438.6	50
M7	6.5	0.8	1.4	3.1	438.7	50
M8	7.4	0.8	1.5	3.2	438.8	50
M9	8.4	1.0	1.7	3.3	438.9	50
M10	9.3	1.0	1.8	3.3	438.10	50
M11	10.2	1.0	1.8	3.3	438.11	50
M12	11.0	1.0	1.8	3.3	438.12	50
M13	11.9	1.0	2.0	3.4	438.13	50
M14	12.9	1.0	2.1	3.5	438.14	50
M15	13.8	1.0	2.2	3.6	438.15	25
M16	14.7	1.0	2.2	3.7	438.16	25
M17	15.7	1.0	2.3	3.8	438.17	25
M18	16.5	1.2	2.4	3.9	438.18	25
M19	17.5	1.2	2.5	3.9	438.19	25
M20	18.5	1.2	2.6	4.0	438.20	25
M22	20.5	1.2	2.8	4.2	438.22	25
M24	22.2	1.2	3.0	4.4	438.24	25
M25	23.2	1.2	3.0	4.4	438.25	25
M28	25.9	1.5	3.2	4.7	438.28	25
M30	27.9	1.5	3.5	5.0	438.30	25
M35	32.2	1.5	3.9	5.6	438.35	25



Metric External Retaining Ring Assortment Art. No. 964.438

Contents: 1050 pieces
Assortment for shafts. DIN 471.
18 sizes from 5 to 35 mm.

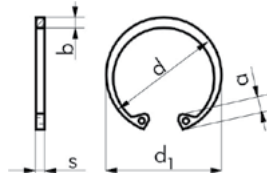
STANDARD STEEL RETAINING RINGS

Yellow Zinc Plated



d	d1	s	External	P. Qty.	d1	s	Internal	P. Qty.
1/4"	0.230"	0.029"	436.14	50	0.268"	0.020"	437.14	50
5/16"	0.290"	0.029"	436.516	50	0.330"	0.020"	437.516	50
3/8"	0.352"	0.029"	436.38	50	0.397"	0.029"	437.38	50
7/16"	0.412"	0.029"	436.716	50	0.461"	0.029"	437.716	50
1/2"	0.468"	0.039"	436.12	50	0.530"	0.039"	437.12	50
9/16"	0.530"	0.039"	436.916	50	0.596"	0.039"	437.916	50
5/8"	0.588"	0.039"	436.58	50	0.665"	0.039"	437.58	50
1-1/16"	0.646"	0.046"	436.1116	25				
3/4"	0.704"	0.046"	436.34	50	0.796"	0.039"	437.34	50
13/16"	0.762"	0.046"	436.1316	25				
7/8"	0.821"	0.046"	436.78	25	0.931"	0.046"	437.78	25
15/16"	0.882"	0.046"	436.1516	25				
1"	0.940"	0.046"	436.1	10	1.066"	0.046"	437.1	25
1-1/8"					1.197"	0.056"	437.118	25
1-3/16"	1.118"	0.056"	436.13161	25				
1-1/4"	1.176"	0.056"	436.114	50	1.330"	0.056"	437.114	25
1-1/2"	1.406"	0.056"	436.112	25				
1-3/4"	1.650"	0.068"	436.134	25				
2"	1.886"	0.068"	436.2	25				
2-1/4"	2.120"	0.0860"	436.214	10				
2-1/2"	2.360"	0.086"	436.212	10				

METRIC INTERNAL RETAINING RINGS



Complies with DIN 472 for bore holes

Spring Steel
Phosphate and Oil

Dia (d)	d1 in mm	s in mm	b in mm	a in mm	Art. No	P. Qty.
M13	14.1	1.0	1.8	3.6	439.13	50
M14	15.1	1.0	1.9	3.7	439.14	50
M16	17.3	1.0	2.0	3.8	439.16	25
M22	23.5	1.0	2.5	4.2	439.22	25
M26	27.9	1.2	2.8	4.7	439.26	25
M28	30.1	1.2	2.9	4.8	439.28	25
M47	50.5	1.8	4.4	6.4	439.47	25

ASSORTMENTS



Art. No. 964.438

Metric External Retaining Ring Assortment

For Shafts, Phosphate & Oiled Spring Steel, Complies with DIN 471

Contents (1050 Pieces): 18 assorted sizes, size range M5-M35



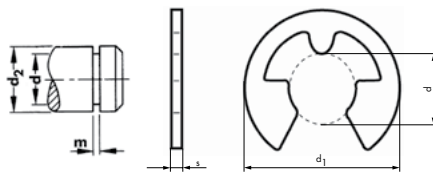
Art. No. 964.439

Metric Internal Retaining Ring Assortment

For Bores, Phosphate & Oiled Spring Steel, Complies with DIN 472

Contents (1050 Pieces): 18 assorted sizes, size range M8-M30

METRIC E-CLIPS



Complies with DIN 6799 for shafts

Steel • Bare • black



d	d2	d1	s	m	Art. No.	P. Qty.
M1.5	2.0-2.5 mm	4.25 mm	0.4 mm	0.44 m	490.15	50
M1.9	2.5-3.0 mm	4.8 mm	0.5 mm	0.54 m	490.19	50
M2.3	3.0-4.0 mm	6.3 mm	0.6 mm	0.64 m	490.23	100
M3.2	4.0-5.0 mm	7.3 mm	0.6 mm	0.74 m	490.32	100
M4.0	5.0-7.0 mm	9.3 mm	0.7 mm	0.74 m	490.40	100
M5.0	6.0-8.0 mm	11.3 mm	0.7 mm	0.74 m	490.50	100
M6.0	7.0-9.0 mm	12.3 mm	0.7 mm	0.74 m	490.60	100
M7.0	8.0-11.0 mm	14.3 mm	0.9 mm	0.94 m	490.70	50
M8.0	9.0-12.0 mm	16.3 mm	1.0 mm	1.05 m	490.80	50
M9.0	10.0-14.0 mm	18.8 mm	1.1 mm	1.15 m	490.90	50
M10.0	11.0-15.0 mm	20.4 mm	1.2 mm	1.25 m	490.100	50
M12.0	13.0-18.0 mm	23.4 mm	1.3 mm	1.35 m	490.120	50
M15.0	16.0-24.0 mm	29.4 mm	1.5 mm	1.55 m	490.150	50
M19.0	20.0-31.0 mm	37.6 mm	1.75 mm	1.8 m	490.190	50

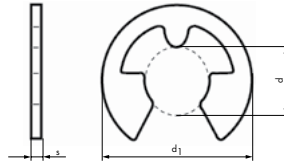
Metric "E" Clips Assortment Art. No. 964.490

For Shafts - Bare Steel, Complies with DIN 6799

Contents: (985 Pieces):

12 assorted sizes, size range M2-M19

STANDARD E-CLIPS

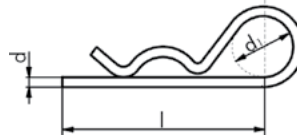


Steel • Bare

Dia. (d)	(d1)	(s)	Art. No.	P. Qty.
1/8"	0.095"	0.018"	494.18	100
5/32"	0.116"	0.029"	494.532	100
3/16"	0.147"	0.029"	494.316	100
7/32"	0.188"	0.029"	494.732	100
1/4"	0.210"	0.029"	494.14	100
5/16"	0.250"	0.029"	494.516	100

Dia. (d)	(d1)	(s)	Art. No.	P. Qty.
3/8"	0.303"	0.039"	494.38	100
7/16"	0.343"	0.039"	494.716	100
1/2"	0.396"	0.046"	494.12	100
5/8"	0.485"	0.046"	494.58	100
3/4"	0.580"	0.056"	494.34	50
7/8"	0.675"	0.056"	494.78	50

METRIC HITCH PINS/R-CLIPS

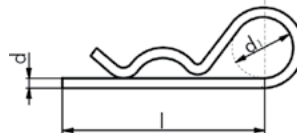


Single loop

Clear Zinc Plated

- For securing bolts, tubes, struts, etc.
- Simple and rapid to install/remove.
- Reusable.
- Ends are burr-free.

Hole dia. mm	Exterior dia. mm	d mm	l mm	d1 mm	Art. No.	P. Qty.
2.5	from 9 to 14	2	50	10	473.21	50
3.5	more than 10 to 17	3	56	13	473.31	50
4.5	more than 16 to 20	4	60	19	473.41	50
6.0	more than 20 to 28	5	85	26	473.51	25
7.0	more than 28 to 40	6	105	30	473.61	25

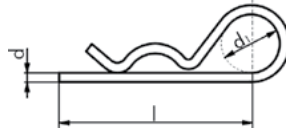


Double loop

Clear Zinc Plated

Hole dia. mm	Exterior dia. mm	d mm	l mm	d1 mm	Art. No.	P. Qty.
2.5	from 8 to 14	2	50	10	473.23	50
3.5	more than 14 to 20	3	62	16	473.33	50
4.5	more than 17 to 24	4	78	23	473.43	25
6.0	more than 18 to 30	5	92	30	473.53	25
7.0	more than 24 to 36	6	120	30	473.63	25
9.0	more than 24 to 45	8	130	30	473.83	10

STANDARD HITCH PINS/R-CLIPS

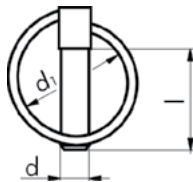


Single loop
Oil-tempered spring steel wire
Clear Zinc Plated

- For securing bolts, tubes, struts, etc.
- Simple and rapid to install/remove.
- Reusable.

Hole Size	Min. Shaft Dia. inches	Max. Shaft Dia. inches	d inches	l inches	d1 inches	Art. No.	P. Qty.
			1/32	3/8	1/16	474.12	50
	1/8	3/16	3/64	5/8	1/8	474.13	50
	1/4	3/8	3/32	1-3/16	1/4	474.14	50
5/64	3/8	1/2	1/16	1-9/16	5/16	474.10392	50
	1/4	1/2	3/32	1-5/8	5/16	474.15	50
7/64	1/4	5/8	3/32	2-5/16	5/8	474.10394	50
9/64	5/8	7/8	1/8	2-1/2	1/2	474.10395	25
	7/16	3/4	1/8	2-9/16	7/16	474.16	50
	5/8	1	5/32	2-15/16	3/4	474.17	30
3/16	7/8	1-1/4	3/16	3-3/4	7/8	474.18	50
21/64	7/8	1	5/16	3-15/16	7/8	474.19	10
17/64	3/4	1	1/4	4	15/16	474.20	10

LINCH PINS



Yellow Passivated

- With prestressed spring washer.
- For securing bolts, tubes, struts, etc.
- Simple and rapid to install/remove.
- Reusable.

d	d1	l	Art. No.	P. Qty.
4.5 mm	34 mm	42 mm	472.45	25
6 mm	41 mm	42 mm	472.6	25
8 mm	41 mm	42 mm	472.8	25
10 mm	41 mm	42 mm	472.10	25
11 mm	41 mm	42 mm	472.11	25
1/4"	1-5/8"	2-1/8"	472.14	10
7/16"	1-3/4"	2-1/4"	472.716	5

LINCH PIN & HITCH PIN ASSORTMENT



Art. No. 473.1 - 150 pieces

P. Qty: 1 (incl. fastening set)

Contents:

Description	d	d1	l	Art. No.	P. Qty.
Linch pin	4.5 mm	34 mm	42 mm	472.45	10
	6 mm	41 mm	42 mm	472.6	
	8 mm	41 mm	42 mm	472.8	
	10 mm	41 mm	42 mm	472.10	
	11 mm	41 mm	42 mm	472.11	
Hitch Pin	2 mm	10 mm	50 mm	473.21	5
	2 mm	10 mm	50 mm	473.23	
	3 mm	13 mm	56 mm	473.31	

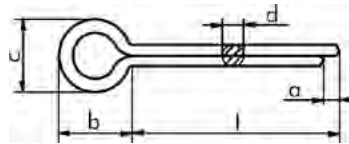
Description	d	d1	l	Art. No.	P. Qty.
Hitch Pin	3 mm	16 mm	62 mm	473.33	10
	4 mm	19 mm	60 mm	473.41	
	4 mm	23 mm	78 mm	473.43	
	5 mm	26 mm	85 mm	473.51	
	5 mm	30 mm	92 mm	473.53	
	6 mm	30 mm	105 mm	473.61	
	6 mm	30 mm	120 mm	473.63	
	8 mm	30 mm	130 mm	473.83	

Pack sizes subject to change without notice

METRIC COTTER PINS

DIN 94 (ISO 1234)

Steel • Clear Zinc Plated



- For securing castle nuts in conjunction with bolts or threaded pins with cotter pin hole (e.g. steering and tracking gears in motor vehicles).
- For securing clevis pins

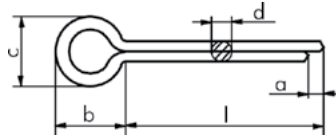
Dia. in mm (d)	Length in mm (l)	a in mm	Head height in mm (b)	Head dia. in mm (c)	Art. No.	P. Qty
1	16	1.6	3	1.6	470.1..16	100
1	25	1.6	3	1.6	470.1..25	100
1.6	16	2.5	3.2	2.4	470.16.16	100
1.6	20	2.5	3.2	2.4	470.16.20	100
1.6	25	2.5	3.2	2.4	470.16.25	100
1.6	32	2.5	3.2	2.4	470.16.32	100
2	22	2.5	4	3.2	470.2..22	100
2	25	2.5	4	3.2	470.2..25	100
2	32	2.5	4	3.2	470.2..32	100
2	40	2.5	4	3.2	470.2..40	100
2.5	25	2.5	5	4	470.25.25	100
2.5	32	2.5	5	4	470.25.32	100
2.5	36	2.5	5	4	470.25.36	100
2.5	40	2.5	5	4	470.25.40	100
3.2	25	2.5	5	4	470.32.25	100
3.2	32	2.5	5	4	470.32.32	100
3.2	36	2.5	5	4	470.32.36	100
3.2	40	2.5	5	4	470.32.40	100
3.2	45	2.5	5	4	470.32.45	100
3.2	50	2.5	5	4	470.32.50	100
3.5	35	4	7.2	5.9	470.35.35	100
3.5	40	4	7.2	5.9	470.35.40	100
3.5	50	4	7.2	5.9	470.35.50	100
3.5	60	4	7.2	5.9	470.35.60	100
4	25	4	8	6.5	470.4..25	100
4	36	4	8	6.5	470.4..36	100
4	40	4	8	6.5	470.4..40	100

Dia. in mm (d)	Length in mm (l)	a in mm	Head height in mm (b)	Head dia. in mm (c)	Art. No.	P. Qty
4	45	4	8	6.5	470.4..45	100
4	50	4	8	6.5	470.4..50	100
4.5	40	4	8	6.5	470.45.40	100
4.5	50	4	8	6.5	470.45.50	100
5	40	4	10	8	470.5..40	100
5	45	4	10	8	470.5..45	100
5	50	4	10	8	470.5..50	100
5	63	4	10	8	470.5..63	50
6.3	63	4	12.6	11.8	470.63.63	50



Metric Cotter Pin Assortment
Art. No. 964.470
 Contents: 1775 pieces
 12 assorted sizes,
 from 1.6 mm - 6.3 mm.

STANDARD SPLIT COTTER PINS



Clear Zinc Plated
Stainless Steel • 18-8

Dia. (d)	Head dia. (c)	Length (l)	Clear zinc	P. Qty.	18-8 SS	P. Qty.
1/16"	0.12"	1/2"	471.116.12	100		
		3/4"	471.116.34	100		
		1"	471.116.1	100	478.116.1	100
		1-1/4"	471.116.114	100		
		1-1/2"	471.116.112	100		
		1-3/4"	471.116.134	100		
3/32"	0.19"	2"	471.116.2	100		
		1/2"	471.332.12	100		
		3/4"	471.332.34	100		
		1"	471.332.1	100	478.332.1	100
		1-1/4"	471.332.114	100		
		1-1/2"	471.332.112	100	478.332.112	100
7/64"	0.22"	1-3/4"	471.332.134	100		
		2"	471.332.2	100	478.332.2	100
		2-1/2"	471.332.212	100		
		1"	471.764.1	100		
1/8"	0.25"	1-1/2"	471.764.112	100		
		2"	471.764.2	100		
		1/2"	471.18.12	100		
		3/4"	471.18.34	100		
		1"	471.18.1	100	478.18.1	100
		1-1/4"	471.18.114	100		
5/32"	0.31"	1-1/2"	471.18.112	100	478.18.112	100
		1-3/4"	471.18.134	100		
		2"	471.18.2	100	478.18.2	100
		2-1/2"	471.18.212	100		
		3"	471.18.3	100		
		1"	471.532.1	100		
3/16"	0.38"	1-1/4"	471.532.114	100		
		1-1/2"	471.532.112	100	478.532.112	50
		1-3/4"	471.532.134	100		
		2"	471.532.2	100	478.532.2	50
		2-1/2"	471.532.212	100		
1/4"	0.50"	3"	471.532.3	100		
		1"	471.316.1	100		
		1-1/2"	471.316.112	100		
		2"	471.316.2	100	478.316.2	50
		2-1/2"	471.316.212	100		
		3"	471.316.3	100		
5/16"	0.62"	3-1/2"	471.316.312	100		
		4"	471.316.4	100		
		1-1/2"	471.14.112	50		
		2"	471.14.2	50		
		2-1/2"	471.14.212	50		
3/8"	0.75"	3"	471.14.3	25		
		4"	471.14.4	25		
		1-1/2"	471.516.112	50		
		2"	471.516.2	25		
		2-1/2"	471.516.212	50		
		3"	471.516.3	25		
5/8"	1.00"	3-1/2"	471.516.312	25		
		4"	471.516.4	25		
		1-1/2"	471.38.112	50		
3/4"	1.125"	3"	471.38.3	25		
		3-1/2"	471.38.312	10		

ASSORTMENTS



Standard Split Cotter Pin Assortment Art. No. 965.471

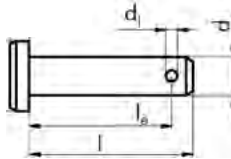
Contents: 1550 pieces
16 assorted sizes, from 1/16" - 3/16"
Clear Zinc Plated



Industrial Cotter Pin Assortment Art. No. 965.4711

Contents: 350 pieces
10 assorted sizes, from 1/4" - 3/8"
Clear Zinc Plated

STANDARD CLEVIS PINS



Clear Zinc Plated • low carbon Steel
For use with cotter pins

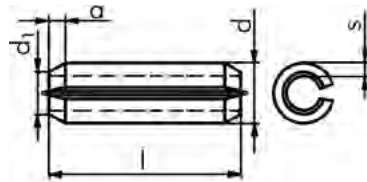


Dia. (d)	Length (l)	Length under head to centre of hole (l _a)	No. of holes	Cotter pin dia. (d ₁)	Art. No.	P. Qty.
1/4"	1"	29/32"	1	1/16"	260.14.1	10
5/16"	1"	7/8"	1	3/32"	260.516.1	10
	2"	1-13/16"	1	3/32"	260.516.2	10
3/8"	1"	7/8"	1	3/32"	260.38.1	10
	1-1/2"	1-3/8"	1	3/32"	260.38.112	10
7/16"	2"	1-3/4"	1	3/32"	260.716.2	10
	1-1/2"	1-11/32"	1	1/8"	260.12.112	10
1/2"	1-3/4"	1-19/32"	1	1/8"	260.12.134	10

Standard Clevis Pin Assortment Art. No. 965.260

Contents: 50 pieces
1/4", 5/16", 3/8", 1/2", in varying lengths.

METRIC SLOTTED SPRING PINS



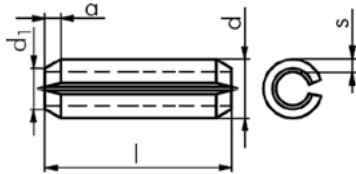
ISO 8752 (replacement for DIN 1481) Spring Steel • Bare

- Fasteners, similar use to grooved pins.
- Used as screw and bolt sleeves primarily where high shear forces occur.
- Stress on bolts and pins is relieved - this allows smaller sizes to be used.
- 0.2 - 0.5 mm oversize compared with the nominal diameter guarantees a secure, firm, fit.
- Tapered end simplifies driving into the hole.
- The pins can be driven out again without damage.

Dia. in mm (d)	Length in mm (l)	Thickness in mm (s)	a in mm	d ₁ in mm	Art. No.	P. Qty.
M2	20	0.4	0.55	1.5	475.2..20	50
	30	0.4	0.55	1.5	475.2..30	100
M3	20	0.6	0.7	2.1	475.3..20	50
	26	0.6	0.7	2.1	475.3..26	100
	30	0.6	0.7	2.1	475.3..30	100
M4	40	0.6	0.7	2.1	475.3..40	100
	40	0.8	0.85	2.8	475.4..40	100
	60	0.8	0.85	2.8	475.4..60	50
M5	30	1.0	1.1	3.4	475.5..30	50
	40	1.0	1.1	3.4	475.5..40	100
	45	1.0	1.1	3.4	475.5..45	100
	50	1.0	1.1	3.4	475.5..50	50
	60	1.0	1.1	3.4	475.5..60	100
M6	30	1.2	1.4	4.0	475.6..30	50
	40	1.2	1.4	4.0	475.6..40	50
	50	1.2	1.4	4.0	475.6..50	50
	60	1.2	1.4	4.0	475.6..60	50
M8	50	1.5	2.4	5.5	475.8..50	50
	90	1.5	2.4	5.5	475.8..90	50

Note: The hole diameter is the same as the nominal diameter (tolerance 12 H).

STANDARD SLOTTED SPRING PINS



Steel • Zinc • Bare

Dia. (d)	Length (l)	Thickness (s)	Art. No.	P. Qty.
3/32"	3/4"	0.022	4776.332.34	50
	1"	0.022	476.332.1	100
1/8"	1/2"	0.028	476.18.12*	50
	3/4"	0.028	476.18.34	100
	1"	0.028	476.18.1	50
	1-1/2"	0.028	476.18.112	50
5/32"	3/4"	0.032	476.532.34	100
	1"	0.032	476.532.1	50
	1-1/2"	0.032	476.532.112	100
3/16"	3/4"	0.040	476.316.34	100
	1"	0.040	476.316.1	50
	1-1/4"	0.040	476.316.114	50
	1-1/2"	0.040	476.316.112*	50
	2"	0.040	476.316.2*	50

Dia. (d)	Length (l)	Thickness (s)	Art. No.	P. Qty.
1/4"	1"	0.050	476.14.1	50
	1-1/4"	0.050	476.14.114	50
	1-1/2"	0.050	476.14.112	50
	2"	0.050	476.14.2	50
5/16"	3/4"	0.050	476.516.34	50
	1"	0.050	476.516.1	50
	1-1/2"	0.050	476.516.112*	50
	1-3/4"	0.050	476.516.134	50
3/8"	2"	0.050	476.516.2	50
	1"	0.050	476.38.1	50
	1-1/2"	0.050	476.38.112	50
	2"	0.050	476.38.2	50
1/2"	3"	0.050	476.38.3*	100
	2"	0.050	476.12.2	50

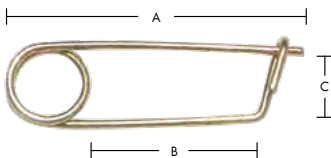


Metric Slotted Spring Pin Assortment
Art. No. 964.4751
 Contents: 240 pieces
 12 dimensions from M7 x 40mm to M12 x 60mm



Metric Slotted Spring Pin Assortment
Art. No. 964.475
 Contents: 1100 pieces
 12 dimensions from M2 x 20mm to M6 x 60 mm

PINS



Safety Pin Industrial - Yellow Zinc Plated

A	B	C	Art. No.	P. Qty.
1 3/4"	1 1/16"	3/8"	171.387302	10
4 3/8"	2 13/16"	13/16"	171.387304	10



Snapper Pin Square - Zinc Plated

Size	Art. No.	P. Qty.
1/4 x 2 3/4"	171.387108	10
5/16 x 2 1/4"	171.387109	10
3/8 x 2 1/2"	171.387113	10



Spring Lock Pin - Yellow Zinc Plated - OnDemand

Size	Collar	Length	Art. No.	P. Qty.
1/2"	1"	4.25"	171.387120	10
5/8"	1 1/8"		171.387121	5
3/4"	1 1/4"		171.387122	5
7/8"	1 3/8"		171.387124	5
1"	1 1/2"	6.25"	171.387125	5

Pack sizes subject to change without notice

Some sizes and finishes available **OnDemand**

LINKS



Connecting Link - Zinc Plated

Chain Size	WLL (LBS)	Break Strength	Art. No.	P. Qty.
1/4"	1,400	5,600	172.604006	5
5/16"	2,000	8,000	172.604008	5
3/8"	2,800	11,200	172.604010	5



Quick Link - Zinc Plated

Link Size	WLL (LBS)	Art. No.	P. Qty.
1/8"	220	173.503402	10
3/16"	610	173.503404	10
1/4"	880	173.503406	10
5/16"	1,540	173.503408	10
3/8"	1,980	173.503410	10
1/2"	3,300	173.503411	10



Spring Snap Link - Zinc Plated

Link Size	Art. No.	P. Qty.
3/16"	524.900316	10
1/4"	524.90014	10
5/16"	524.900516	10
3/8"	524.90038	10

LINK ASSORTMENT



Art. No. 965.172050 - 50 pcs.

Art. No.	Description	Qty.
172.604006	CONNECTING LINK, ZINC - 1/4"	5
172.604008	CONNECTING LINK, ZINC - 5/16"	
172.604010	CONNECTING LINK, ZINC - 3/8"	
173.503406	QUICK LINK, ZINC - 1/4"	
173.503408	QUICK LINK ZINC - 5/16"	
173.503410	QUICK LINK, ZINC - 3/8"	
173.503411	QUICK LINK, ZINC - 1/2"	
524.90014	SPRING SNAP LINK, ZINC - 1/4"	
524.90038	SPRING SNAP LINK, ZINC - 3/8"	
524.900516	SPRING SNAP LINK, ZINC - 5/16"	

WIRE ROPE C2C



Wire cable on lightweight plastic reels.

Features & Benefits:

- Cross-section 7x7
- Fast, tool-free installation using the wire cable holder
- Cradle to Cradle® certified

Applications:

- Ventilation, air conditioning and heating applications, pipelines, cable-support systems, loudspeakers, safety suspensions, isolation panels for cold rooms, signage, decoration, suspended ceilings, conveyor systems, stays, solar panels

Material	Surface	Length (m)	Weight (g)	Diameter (mm)	Permissible	Art. No.	P. Qty.
Steel	Galvanized	150	9.55	1.5	350N	525.5000512	1

WIRE ROPE HOLDER



Self-locking wire cable holder for quick installation without tools

Features & Benefits:

- Can be adjusted without tools
- Cradle to Cradle® certified

Note: After the wire cable has been fed in (note the direction arrow on the holder), the wire cable holder locks in the desired position.

Material	Weight (g)	Cable Size (mm)	Permissible Load	Art. No.	P. Qty.
Zamak	20.6	1.5 - 2.5	700N (916 ft lbf)	525.5000501	1

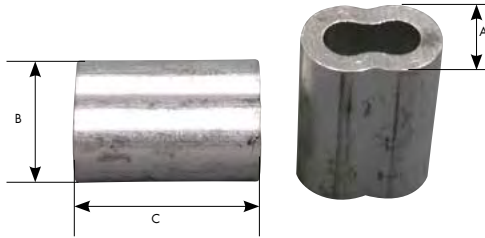
MECHANICS WIRE



Art. No. 801.15502 - Qty. 1

- 18 gauge.
- Length: 100 m.

ALUMINUM SWAGE SLEEVES



- Swage sleeves are an ideal way for making a neat, strong eye splice in a matter of seconds without frayed cable ends.
- Crimping of sleeve must be done with a swage sleeve tool, to ensure maximum holding power.
- For use with aircraft cable.

Note: Not for use in marine applications.

Wire Rope Dia.		A	B	C	Crimps	Hole No.	Art. No.	P. Qty.
(inches)	mm							
1/16	1.5	.185"	.258"	.390"	2	1	258.116	100
3/32	2.5	.277"	.403"	.490"	3	2	258.332	100
1/8	3	.336"	.493"	.628"	3	3	258.18	50
5/32	4	.381"	.574"	.686"	3	4	258.532	50
3/16	5	.443"	.666"	1.004"	3	5	258.316	25
1/4	6	.536"	.816"	1.137"	3	1	258.14	25

COPPER PULL-OUT PINS



Used in the bodyshop for the removal of dents from body panels

Size (mm)	Art. No.
2.0	691.500080
2.6	691.500081

KEY STOCK



- Enables the mechanic to make up any size axle key on short notice and with a minimum investment.
- Made of 1010 cold rolled steel to ASTM A307 specifications
- Core Hardness: 69-100 HRB
- Tensile Strength: 60KSI min (60,000psi)
- Not heat treated.

Size	Length	Art. No.	P. Qty.
3/16 x 3/16	12"	988.316.316	6
1/4 x 1/4		988.14.14	
5/16 x 5/16		988.516.516	
3/8 x 3/8		988.38.38	
7/16 x 7/16		988.716.716	
1/2 x 1/2		988.12.12	

ASSORTMENTS

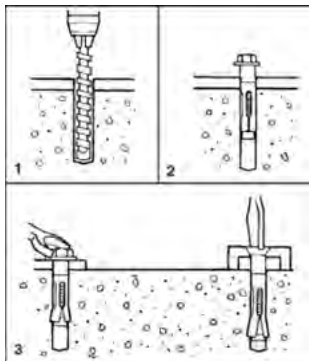


Key Stock Assortment

Art. No. 965.988

Contents: 27 pieces
6 of 988.316.316, 988.14.14,
988.516.516, 3 of 988.38.38,
988.716.716, 988.12.12

SLEEVE ANCHORS



Carbon Steel • Clear Zinc Plated

- Length of sleeve makes anchor more forgiving than a wedge anchor and induces less stress on the substrate.
- Can be used in solid or hollow masonry.
- Works in any depth hole.
- Required hole diameter equals anchor diameter.
- Supplied assembled with 3 head styles options.

Directions:

1. Drill hole depth 1/2" to 1" deeper than anchor embedment. Select a carbide-tip drill bit with same nominal diameter as anchor body.
2. Clean hole of debris.
3. Set nut flush with top of anchor and drive anchor through material to be anchored into the work surface until nut and washer are snug with material to be attached.
4. Tighten nut until finger tight, then turn 3 to 4 full turns to set the expansion sleeve.

Note: Do not over-torque.

Head style	Anchor Dia & Length	Hole Dia. (in.)	Max Thickness Material to be Anchored	Min. Embedment	Dia. Thread Stud	Required Torque to Set (lbs)	Art. No.	P. Qty.
Hex Nut	3/8 x 1-7/8"	3/8"	5/8"	1-1/4"	5/16"	22-26	904.1712	50
Hex Nut	3/8 x 3"	3/8"	1 3/4"	1-1/4"	5/16"	22-26	904.1713	50
Hex Nut	1/2 x 2-1/4"	1/2"	3/4"	1-1/2"	3/8"	34-38	904.1714	25
Hex Nut	1/2 x 3"	1/2"	1 1/2"	1-1/2"	3/8"	34-38	904.1715	25

ZINC WEDGE ANCHORS



- Required hole diameter equals anchor diameter.
- Excellent for setting immediately.
- Can be loaded immediately.
- Can be set in any hole depth.
- Simple installation.
- Nut and washer supplied in package.
- Zinc plated carbon steel.

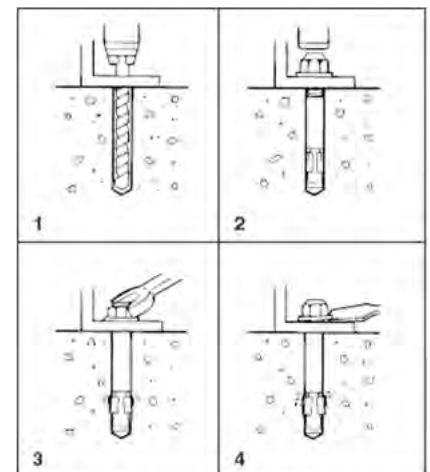
Directions:

1. Drill hole 1/2" to 1" deeper than anchor embedment. Clean hole of debris.
2. With nut threaded past the end of stud, hammer into position.
3. Tighten finger tight plus an additional 3-5 turns with wrench.
4. If anchor spins in hole, force anchor up using screwdriver until clip binds into concrete.

Note: Do not use in brick or block. Not advised for use where vibratory loads are high. Oversize holes are detrimental and will reduce performance data from that published.

Dia. & Length	Thread Length	Hole Dia.	Max Thickness Material to be Anchored	Required Torque to Set (ft - lbs)	Art. No.	P. Qty.
1/4" x 1-3/4"	7/8"	1/4"	3/8"	8-10	904.2614134	100
3/8" x 2-3/4"	1-5/8"	3/8"	3/4"	15-30	904.38234	50
3/8" x 3"	1-7/8"	3/8"	1"	15-30	904.38300	50
3/8" x 5"	4"	3/8"	3"	15-30	904.38500	50
3/8" x 3-3/4"	2-5/8"	3/8"	1-3/4"	15-30	904.2638334	50
1/2" x 3-3/4"	1-1/2"	1/2"	1/8"	25-50	904.12334	50
1/2" x 2-3/4"	2-1/2"	1/2"	1"	25-50	904.2612234	50
1/2" x 4-1/4"	3"	1/2"	1-1/2"	25-50	904.2612414	50
1/2" x 5-1/2"	4"	1/2"	2-3/4"	25-50	904.12512	50
5/8" x 3-1/2"	1-5/8"	5/8"	1/8"	40-75	904.58312	25
5/8" x 4-1/2"	2-5/8"	5/8"	1-1/8"	40-75	904.2658412	25
5/8" x 5"	3-1/4"	5/8"	1-5/8"	40-75	904.58500	25
5/8" x 6"	4-1/8"	5/8"	2-5/8"	40-75	904.58600	25
3/4" x 4-1/4"	2-3/8"	3/4"	1/8"	100-200	904.2634414	25
3/4" x 5 1/2"	3-5/8"	3/4"	1-3/8"	100-200	904.2634512	20
3/4" x 6-1/4"	4-1/4"	3/4"	2-1/8"	100-200	904.2634614	20
3/4" x 8-1/2"	4"	3/4"	4-3/8"	100-200	904.2634812	15
1" x 12"	4"	1"	6-1/2"	150-250	904.2611200	10

Anchor Dia.	Min. Anchor Spacing	Min. Edge Distance
1/4"	2-1/2"	1-1/4"
3/8"	3-3/4"	1-7/8"
1/2"	5"	2-1/2"
5/8"	6-1/4"	3-1/8"
3/4"	7-1/2"	3-3/8"
1"	10"	5"



DRYWALL ANCHOR



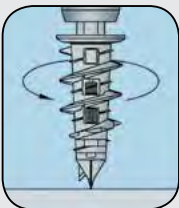
Note: No pre-drilling required!

Anchor Dimensions	
Overall length	33 mm/ 1-1/4"
Flange/head	14 mm/ 9/16"
max. attaching height	Depending on screw length
Designation	W-GS Type Z
Pack Qty.	200

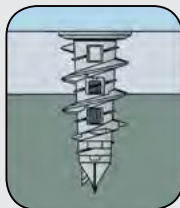
Characteristic Value		
Axis pitch	$\alpha >$ [mm]	100
Distance from edge	$a_r >$ [mm]	50
Min. comp. thickness	$d >$ [mm]	9.5
Thread \varnothing of screw	d_{thread} [mm]	4.5
Hole \varnothing in component	d_{comp} [mm]	6.5

Performance			
Recommended tensile load	Drywall $d > 9.5$ mm	F_{recomm} [kN]	0.1
	Gypsum board (Fermacell)		0.12
Recommended transverse load	Drywall $d > 9.5$ mm	F_{recomm} [kN]	0.12
	Gypsum board (Fermacell)		0.15

Installation



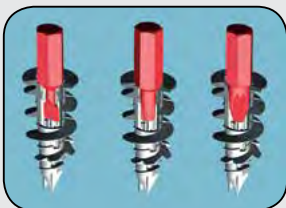
Press point of anchor into the anchorage material



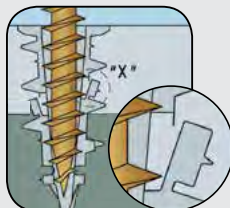
Screw in until flush



Attach component



Detail 1: The patented drive allows setting with virtually any bit



Detail 2: Patented anti-rotation feature

Art. No. 903.252

Zinc Die cast

1. Areas of application

- For non-critical attachments in gypsum and fibrous plaster sheet, lightweight building boards and aerated concrete PB2.
- For attachment of components using a wood or chipboard screw.
- Suitable for use outdoors or in damp locations if used with a stainless steel screw.

2. Advantages

- The patented drive allows for setting of the anchor using a PZ, AW, Square, PH, Slot or Torx bit because force is transmitted through the hexagonal shaft (see Detail 1).
- The patented anti-rotation feature will be triggered by turning the screw into the anchor sleeve. If the screw is removed, the sleeve will not turn and stays in the anchorage material (see Detail 2).
- Low space requirement behind the sheet (only 1.5 mm).
- Can be used without any setting tools with a cordless screwdriver and suitable bit for the corresponding screw.
- Drywall anchor and the screw can be screwed in with the same bit.
- The newly developed centring point allows easy positioning and drilling into the sheet.
- Cost effective and quick mounting without pre-drilling.
- Quick installation using a cordless screwdriver.
- The component can be attached with wood or chipboard screws (Type Z = \varnothing 4.5 mm).

3. Characteristics

- High-quality zinc die casting.
- Functions at temperatures from -40 °C to $+80$ °C (-40 °F to $+176$ °F).
- Functions by mechanical interlock.

P. Qty: 200

ASSORTMENTS



Drywall Anchor Assortment

Art. No. 964.903250

Contents: 401 pieces

1 Zebra screwdriver

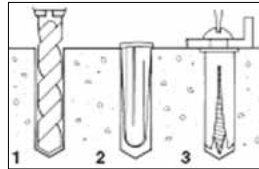
Anchors:

100 pc - 14.5 x 33 mm - plastic

100 pc - 14.5 x 33 mm - diecast

200 pc - matching screws

PLASTIC SCREW ANCHORS



Dia. x Length	Hole Dia.	Screw Size	Art. No.	P. Qty.
3/16 x 7/8	3/16	#8 - #10	904.8450	100
1/4 x 1	1/4	#10 - #12	904.8460	100
5/16 x 1-3/8	5/16	#14 - #16	904.8430	100

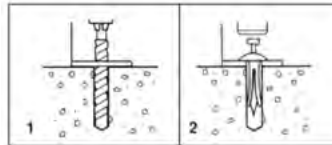
Application:

- Light loads only under dead or slightly variable conditions in all atmospheric conditions.
- Accepts both wood and sheet metal screws.
- Fast, easy installation.
- Material: polypropylene.

Directions:

1. Drill hole of proper diameter slightly deeper than length of anchor.
2. Clean hole of debris.
3. Insert plastic anchor into hole.
4. Place fixture over anchor and insert screw through fixture and into anchor.
5. Tighten screw

ZINC DRIVE ANCHORS



Anchor Dia. x Length	Hole Dia.	Embedment	Ultimate Loads in Lbs, 3000 PSI		Art. No.	P. Qty.
			Tension	Shear		
1/4 x 1"	1/4"	3/4"	750	1516	903.ZN14100	100
1/4 x 1-1/4"	1/4"	1"	1000	1516	904.3920	100
1/4 x 1-1/2"	1/4"	1-1/4"	1100	1516	904.3924	100

Features:

- Zinc body with zinc plated carbon steel nail.
- Required hole diameter equals anchor diameter.
- Fast, easy installation.
- Zinc plating allows for outdoor applications

Directions:

1. Drill hole to length of product selected.
2. Clean hole of debris.
3. Insert the anchor through material, place in hole and tap nail until flush with head.

Note: Dead loads only. Not recommended for overhead application.

DROP IN ANCHORS



Carbon Steel • Clear Zinc Plated

Features:

- Ideal for flush mounting applications.
- Preassembled for ease of installation.
- Female threads accept standard UNC bolts or threaded rods.
- Slotted body is precision-matched to tapered internal plug for uniform expansion.
- Knurled body increases frictional forces between anchor and wall of hole.

Directions:

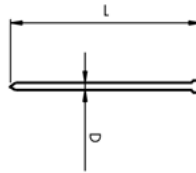
1. Drill hole same length as anchor. Do not use core bits. Maintain accurate hole size.
2. Clean hole of debris.
3. Drop in anchor, slotted end first.
4. To set, drive setting tool into anchor until shoulder of tool is flush with top of anchor.
5. Select proper bolt length.

Note: Dead loads only. Hole depth must be equal to anchor length. Do not over torque.

Hole Dia.	Min. Embed.	Max. torque ft. lbs	UNC Bolt Size	Ultimate tensile & shear loads in lbs.			Art. No.	P. Qty.
				2000 P.S.I.	4000 P.S.I.	Shear		
3/8"	1"	5	1/4"	2,050	2,104	1,321	903.D1425	100
1/2"	1-9/16"	10	3/8"	3,957	4,824	3,714	903.D3837	100

18 GAUGE 1-1/2 INCH BRAD NAILS

18-Gauge Brad Nails to complete fastening tasks in finishing applications.



Features:

- The convenient 5000-piece pack (100nailsx50) allows you to always keep your nailer loaded.
- For use with 703.580050

Art. No.	480.1325	480.1332	480.1338
P. Qty	5000	5000	5
Nominal diameter (D)	1.2mm	1.2mm	1.2mm
Length (L)	25mm	32mm	38mm
Head diameter	1.7mm	1.7mm	1.7mm
Material	steel	steel	steel
Surface	Galvanised	Galvanised	Galvanised

TOGGLE BOLT WITH SPRING WING

Round slotted head • Clear Zinc Plated



Screw Dia.	Dia. x length	Use Drill	Art. No.	P. Qty.
3/16	10 - 24 x 3	9/16	904.1024.3	25
3/16	10 - 24 x 4	9/16	904.1024.4	25
1/4	1/4 - 20 x 4	3/4	904.14.4	25

LIQUID ROCK 500



Art. No. 904.500 - 8.5 oz

A two-component, 100% solids epoxy-based system for use as a high-strength, non-shrink anchor grouting material in solid concrete

- Temperature range from +5 °C (40 °F) to +35 °C (95 °F).
- Can be used under water except where hydrostatic pressure is present.
- Color: white (part A) and black (part B).
- Low odour.
- 24 month shelf life
- Vibration resistant. Excellent where seismic or dynamic loading are considered.
- Exceptional strength when compared to expansion anchors. Can use fewer or smaller anchors to complete the job.
- Fast cure: 6 hours at +27 °C (80 °F). 90% tensile and shear strength. Full cure: 24 hours at +27 °C (80 °F). Reduces total job time.
- Moisture insensitive. Can be used in wet weather.
- Non-shrink, high modulus. Accommodates variances in drill bits & hole sizes.
- Thixotropic gel consistency. Allows material to be injected horizontally as well as vertically.
- Amine based epoxy. Low odor for installer.

P. Qty. 1

Technical Data							
Rod Size	Hole Dia.	Min. Embed.	Loads in Lbs.				
			2000 PSI		4500 PSI		
			Tension	Shear	Tension	Shear	
3/8" X 8"	1/2"	3-3/8"	9,300	5,810	9,540	5,810	
3/8" X 12"	1/2"	3-3/8"	9,300	5,810	9,540	5,810	
1/2" X 8"	5/8"	4-1/2"	15,660	10,640	17,100	10,640	
1/2" X 12"	5/8"	4-1/2"	15,600	10,640	17,100	10,640	
5/8" X 8"	3/4"	5-5/8"	22,000	16,950	24,180	16,950	
5/8" X 12"	3/4"	5-5/8"	22,000	16,950	24,180	16,950	
3/4" X 8"	7/8"	6-3/4"	26,440	25,050	31,970	25,050	
3/4" X 12"	7/8"	6-3/4"	26,440	25,050	31,970	25,050	
7/8" x 1"	1"	7-7/8"	30,960	34,650	40,000	34,650	
7/8" x 1"	1-1/8"	9"	37,520	45,450	50,780	45,450	

Directions:

1. Drill to correct size and depth using rotary-hammer. Remove dust and rubble from hole with compressed air, brush and water. Excess water should be removed although hole may be damp.
2. Cut static mixer tip to appropriate notch making sure opening is obstruction free. Twist off mixer nut on cartridge. Remove divider plugs.
3. Place static mixer over cartridge opening. Slide mixer nut over static mixer and tighten. Load into dispensing tool. Dispense and discard a bead of material to display proper mix (indicated by uniform color change) before use.
4. Dispense adhesive into hole, filling from bottom up.
5. Insert anchor rod into hole with a slight twisting motion.

Pack sizes subject to change without notice

Some sizes and finishes available OnDemand

BMW
INDEX

OEM No.	Art. No.	Type
0716-9-925-720	500.11577	U Type Nut
0716-9-925-737	500.13218	U Type Nut
51-11-1-908-077	500.20234	Scuff Plate Push-Type Retainer
51-11-1-944-537	500.20734	Bumper, Wheel Opening, Scuff Plate & Interior Trim Push-Type Retainer
51-11-1-944-537	500.105063	Rivet
51-11-1-964-186	500.105065	Rivet
51-11-8-174-185	500.20248	Bumper Trim Push-Type Retainer
51-41-1-973-500	500.20253	Trim Panel Retainer
51-44-1-854-624	500.105045	Rivet
51-48-1-884-779	500.105035	Rivet
51-48-1-938-725	500.20270	Hood & Trunk Insulation Push-Type Retainer
51-71-7-006-953-2	500.20754	Rivet
	500.11522	U Type Nut
	500.11362	U Type Nut

BMW
U TYPE NUTS


Art. No. 500.11577
OEM #: 0716-9-925-720

Material: Zinc
Screw Size: 5.5mm
Clamping Range: 1.2mm-2.0mm
Center of Hole to Edge: 10.7mm
Qty: 100



Art. No. 500.13218
OEM #: 0716-9-925-737

Material: Zinc
Screw Size: 4.8mm(#10)
Clamping Range: .5mm-1.7mm
Center of Hole to Edge: 7mm
Qty: 50



Art. No. 500.11522

Material: Zinc
Screw Size: 4.8mm
Clamping Range: .5mm-1.7mm
Center of Hole to Edge: 7.5mm
Qty: 100



Art. No. 500.11362

Material: Zinc
Screw Size: 4.2mm
Clamping Range: .5mm-1.7mm
Center of Hole to Edge: 7.5mm
Qty: 100

BMW
RETAINERS


Bumper, Grille, Scuff Plate & Trim Push-Type Retainer
Art. No. 500.20234
OEM #: 51-11-1-908-077

Material: Black Nylon
Head Dia: 15mm
Stem Length: 15mm
Fits Into: 6.3mm hole
BMW Series 3, 5, & 7 1984 - On
Mercedes Benz 2014-1994
Mercedes OEM #: 000-990-54-92
Qty: 50



Bumper, Wheel Opening, Scuff Plate & Interior Trim Push-Type Retainer
Art. No. 500.20734
OEM #: 51-11-1-944-537

Material: Black Nylon
Head Dia: 20mm
Stem Length: 15mm
Fits Into: 6.3mm Hole
BMW Series 3, 5, 7 & X5
1989 - On
Qty: 25



Bumper Trim Push-Type Retainer
Art. No. 500.20248
OEM #: 51-11-8-174-185

Material: Black Nylon
Head Dia: 20mm
Stem Length: 17mm
Fits Into: 6.3mm Hole
BMW Series 3, 5 & 7
1995 - On
Qty: 100

BMW
RETAINERS


Trim Panel Retainer
Art. No. 500.20253
OEM #: 51-41-1-973-500

Material: White Nylon
 Top Head Dia: 14mm
 Middle Head Dia: 15mm
 Bottom Head Dia: 18mm
 Stem Dia: 9mm
 Stem Length: 15mm
 BMW Series 3, 5 & 7
 1987 - On
Qty: 100



Hood & Trunk Insulation Push-Type Retainer
Art. No. 500.20270
OEM #: 51-48-1-938-725

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 9mm
 Fits Into: 7mm Hole
 BMW Series 3, 5 & 7
 2001 - 84
Qty: 25



Black Nylon Side Shield & Trim Retainer
Art. No. 502.22509
OEM#: 07-14-7-296-886

Head Diameter: 24mm
 Stem Diameter: 4mm
 Stem Length: 23mm
 T27 Drive
Qty: 25



Green Nylon Door Panel Retainer
Art. No. 502.22585
OEM#: 51-41-1-870-718

Top Head Diameter: 15mm
 Bottom Head Diameter: 18mm
 Stem Diameter: 9.5mm
 Stem Length: 12mm
 Fits into 8mm Hole
Qty: 50

BMW
RIVETS


Art. No. 500.105063
OEM #: 51111944537

Material: Black Nylon
Qty: 100



Art. No. 500.105045
OEM #: 51441854624

Material: Black Nylon
Qty: 100



Art. No. 500.105065
OEM #: 51111964186

Material: Black Nylon
Qty: 100



Art. No. 500.105035
OEM #: 51481884779

Material: Black Nylon
Qty: 100



Nylon Blind Rivet
Art. No. 500.20754
OEM #: 51-71-7-006-953-2

Material: Black Nylon
 Hole Dia: 6mm
 Panel Range (Grip): 2.5mm - 4.8mm
Qty: 25

Pack sizes subject to change without notice

Some sizes and finishes available **OnDemand**

BMW
SPECIALTY CLIPS/MOULDING CLIPS

Black & White Nylon Wheel Flare & Rocker Moulding Clip
Art. No. 502.22559
OEM#: 51-71-8-259-025

Top Head Size: 20mm x 30mm

Grommet Head Diameter: 12mm

Grommet Stem Diameter: 7.4mm

Grommet Length: 15mm

Qty: 25
CHRYSLER
INDEX

OEM No.	Art. No.	Type
10185925	502.18301	Bumper Fascia Retainer
12337920	502.12737	Door Panel Retainer
15153415	502.19615	Rear Bumper Cover Push-Type Retainer
153297	502.16478	PH Flat Top Round Washer Head Tek®
20374473	502.12737	Door Panel Retainer
22569178	502.18927	Front & Rear Door Window Sash Attachment
22579423	502.18927	Front & Rear Door Window Sash Attachment
2964547	502.11129	Weatherstrip Retainer
2998430	502.10332	Radiator Grille Retainer
34201621	502.12567	Front Fender Mud Skirt & Fender Liner Push-Type Retainer
34201631	502.18108	Blind Nylon Rivet
3691590	502.10831	Fender & Bumper Shield Retainer
3861577	502.11679	Mud Shield Retainer
4341060	502.17004	Hood Insulation & Fender Shield Retainer
4370138	502.17101	Blind Nylon Rivet
4381395	502.20316	Door Frame Spacer Retainer
4630088	502.18028	Blind Nylon Rivet
4630253	502.18029	Rear Fascia Push-Type Retainer
4658444	502.19191	Door Lock Rod Clip - RH
4658673	502.19149	Weatherstrip Retainer Front & Rear Doors
4676356	502.19339	Grille To Fascia Fastener
4696129	502.18033	Weatherstrip Retainer
4805405AA	502.19638	Front Bumper Fascia Push-Type Retainer
4857345-AA	502.20457	Tail Light Housing Push-Type Retainer Large Head
4878883AA	502.20164	Hood Insulation Retainer
5023111AA	502.19804	Trim Panel Retainer with Sealer
5028438-AA	502.20428	Door Trim Panel Retainer
5116530-AA	502.20990	Fascia & General Purpose Push-Type Retainer
55055098	502.18248	Headlight Grille Retaining Cup
55156429-AA	502.20523	Rocker Panel & Bumper Fascia Clip
6000943	502.9377	Radiator Grille Nut
6003349	502.11351	Door Trim Panel Retainer
6003349	502.11678	Door Trim Panel Retainer
6003351	502.11136	Hood Insulation Retainer
6023171	502.10053	Extruded U Nut
6023925	140.6000	1/4" Screw Size License Plate Nut
6025329	235.14	"1/4"-20 x 1" Hex Head Sems®with Dog Point 5/8" Washer O.D."
6029501	502.12735	Headlight Bezel Nut
6030441	502.11146	Radiator Yoke, Fender & Bumper Shield Retainer
6031383	502.11704	Grille Retainer
6032363	502.11351	Door Trim Panel Retainer
6032856	502.17615	Chrysler Aluminum Rivet
6035201	502.17639	Split-Type Rivet

OEM No.	Art. No.	Type
6036148-AA	502.20629	Split-Type Rivet
6100048	502.15329	Metric Free Spinning Washer Nuts
6100049	502.15331	Metric Free Spinning Washer Nuts
6100539	502.12232	Hex Head Sems® Thread Cutting Screw With Dog Point
6500787	502.14016	Tail Light Retainer
6500898	502.13755	Blind Nylon Rivet
6500911	502.13750	Blind Nylon Rivet
6501067	502.15481	Fascia Retainer
6501086	502.20316	Door Frame Spacer Retainer
6501301	502.16818	Trim Panel Retainer
6501559	502.13751	Blind Nylon Rivet
6501590	502.14019	Splash Shield & Fascia Retainer
6501773	502.12569	Grommet-Tail Lamp
6501925	502.18030	Push-Type Retainer
6502625	502.896652	Rear Bumper Fascia Retainer
6502842	502.17975	Hood Insulation Retainer
6502907	502.17669	Trim Panel Retainer
6502991	502.17685	Trim Panel Retainer & Tail Gate Retainer
6503204	502.18862	Trim Panel Retainer
6503339	502.18249	Cowl Top Stud Retainer Cover
6503401	502.19417	Screw-Square Rivet Drive Truss
6503453	502.18394	Fascia To Bumper Push-Type Retainer
6503454	502.18327	Front Bumper Fascia Push-Type Retainer
6503709	502.19213	Trim Panel Retainer
6503800	502.13748	Blind Nylon Rivet
6503819	502.19417	Screw-Square Rivet Drive Truss
6503860	502.17101	Blind Nylon Rivet
6503938	502.18913	Blind Nylon Rivet
6504014	502.18915	Door Trim Panel Retainer
6504090	502.12567	Front Fender Mud Skirt & Fender Liner Push-Type Retainer
6504135	502.19541	Hood Insulation Retainer
6504521	502.19422	Fascia Push-Type Retainer
6505292AA	502.19386	Door Trim Panel Retainer
6505539-AA	502.19628	Door Trim Panel Retainer
6505759-AA	502.20427	Door Trim Panel Retainer
6505918-AA	502.20515	Trim Panel Retainer
6506104AA	502.20173	Roof Rack Threaded Insert with Sealer Under Head
6506136-AA	502.20458	Side Radiator Shield Push-Type Retainer
6508712AA	502.20888	Fender, Wheel & Bumper Push-Type Retainer
66824-01G00	500.16783	Push-Type Retainer
9422202	502.13708	PH Flat Top Washer Head Tapping Screw
9422246	502.13707	PH Flat Top Washer Head Tapping Screw
9423950	502.15827	PH Flat Washer Head
9427977	502.13709	PH Flat Top Washer Head Tapping Screw
9428273	502.13027	PH Flat Washer Head Tapping Screw
MB888869	500.19140	Push-Type Retainer
W701971-S	502.20169	Door Trim Panel Push-Type Retainer
	502.19837	Panel Retainer
	502.20181	Weatherstrip Retainer
	502.2625	License Plate Nut & Headlight Door Mounting Screw Nut
	502.20275	Grommet
	502.10262	Door Lock Rod & Push Rod Clip
	502.2385	Door Trim Panel Fastener
	502.20180	Weatherstrip Retainer

CHRYSLER

RETAINERS



Front Fender Mudskirt Retainer
Art. No. 502.12567
OEM #: 34201621

Material: Black Nylon
 Head Dia: 11/16"
 Stem Length: 9/16"
 Fits Into: 1/4" Hole
 GM 1981 - On
 GM OEM #: 14019205
Qty: 25



Grille Retainer
Art. No. 502.11704
OEM #: 6031383

Material: Black Nylon
 Head Dia: 11/16"
 Stem Length: 7/16"
 Fits Into: 9/32" Hole
 Chrysler 1978 - On
Qty: 25



Tail Light Retainer
Art. No. 502.14016
OEM #: 6500787

Material: Black Nylon
 Large Head Dia: 3/8"
 Stem Length: 7/16"
 Fits Into: 3/16" Hole
 GM OEM #: 16500308
Qty: 25



Push Type Retainer
Art. No. 500.16783
OEM #: 66824-01G00

Material: Black Nylon
 Head Dia: 12mm
 Stem Length: 8mm
 (Not Including the Pin)
 Fits Into: 6mm
Qty: 25



Trim Panel Retainer
Art. No. 502.19837

Material: Black Nylon
 Bottom Head Dia: 3/4"
 Stem Dia: 11/32"
 Stem Length: 13/16"
Qty: 75



Headlight Grille Retaining Cup
Art. No. 502.18248
OEM #: 55055098

Material: Black Nylon
 Head Dia: 11mm
 Fits Into: 3mm Hole
 Dodge Ram 1994 - On
Qty: 25

CHRYSLER

RETAINERS



Tail Light Housing Push-Type Retainer
Art. No. 502.20457
OEM #: 4857345-AA

Material: Black Nylon
 Large Head
 Dia: 21mm
 Stem Length: 23mm
 Fits Into: 9.5mm Hole
 Chrysler Caravan, Town & Country and
 Voyager Mini Vans
 2002 - On
Qty: 25



Fascia & General Purpose Push-Type Retainer
Art. No. 502.20990
OEM #: 5116530-AA

Material: Black Nylon
 Head Dia: 19mm
 Stem Length: 16mm
 Panel Range: 5.0mm - 7.0mm
 Fits Into: 8mm hole
 GM 2007 - On
 GM OEM #: 15296830
Qty: 25



Splash Shield & Fascia Retainer
Art. No. 502.14019
OEM #: 6501590

Material: Black Nylon
 Head Dia: 1"
 Shoulder Length: 1/8"
 Stem Length: 7/8"
 Fits Into: 5/16" Hole
 Ford OEM #: N803421-S
Qty: 40



Push-Type Retainer
Art. No. 502.18030
OEM #: 6501925

Material: Black Nylon
 Head Size: 11/16"
 Stem Length: 13/16"
 Fits Into: 1/4" Hole
 Chrysler Concorde & LHS Dodge
 Intrepid & Eagle Vision 1993 - On
 Coolant Recovery Reservoir GM 1992 - On
 GM OEM #: 10134407
Qty: 50



Fender Wheel & Bumper Push-Type Retainer
Art. No. 502.20888
OEM #: 6508712AA

Material: Black Nylon
 Head Dia: 18mm
 Stem Length: 20mm
 Panel Range: 3.0mm - 5.8mm
 Fits Into: 9.5mm hole
 GM 2004 - On
 Jeep Wrangler 2000 - On
 GM OEM #: 11561368
Qty: 25



Fascia Push-Type Retainer
Art. No. 502.19422
OEM #: 6504521

Material: Black Nylon
 Head Dia: 23/32"
 Stem Length: 29/32"
 Fits Into: 5/16" Hole
 LHS, Concorde, Intrepid & Eagle Vision
 1998 - On
Qty: 25

CHRYSLER

RETAINERS



Push-Type Retainer
Art. No. 500.19140

Material: Black Nylon
Head Dia: 20mm
Stem Length: 21mm
Fits Into: 8mm Hole
Acura, Dodge Avenger, Eagle Talon,
Geo Prizm, Mitsubishi Eclipse &
Galant and Toyota 1993 - On
Acura OEM #: 90505-SL0-003
Mitsubishi OEM #: MB888869
Toyota OEM #: 90467-08155
GM OEM #: 94852368
Qty: 10



Rear Bumper Fascia Retainer
Art. No. 502.896652
OEM #: 6502625

Material: Black Nylon
Head Dia: 21mm (27/32")
Stem Length: 25mm (1")
Fits Into: 12mm Hole (1/2")
Panel Range: 3mm (1/8")
GM APV Vans 1990 - On
GM OEM #: 10140480
Qty: 10



Trim Panel Retainer with Sealer
Art. No. 502.19804
OEM #: 5023111AA

Material: White Nylon
Top Head Dia: 16mm
Bottom Head Dia: 22mm
Stem Dia: 9mm
Stem Length: 15mm
Dodge Neon 2000 - On
Qty: 15



Door Frame Spacer Retainer
Art. No. 502.20316
OEM #: 4381395, 6501086

Material: Black Nylon
Bottom Head Dia: 1"
Stem Dia: 5/16"
Stem Length: 13/16"
Chrysler 1985 - On, Bumper Retainer
Ford 1981 - On
Ford OEM #: 388904-S
Qty: 50



Hood Insulation Retainer
Art. No. 502.19541
OEM #: 6504135

Material: Black Nylon
Bottom Head Dia: 1"
Stem Dia: 9/32"
Stem Length: 5/8"
Chrysler Mini-Vans &
Durango 1997 - On
Qty: 25



Rear Bumper Cover Push-Type Retainer
Art. No. 502.19615

Material: Black Nylon
Head Dia: 20mm
Stem Length: 21mm
Fits Into: 9mm Hole
GM C&K Trucks 1999 - On
GM OEM #: 15153415
Qty: 25



Black Nylon Front Bumper Push-Type Retainer
Art. No. 502.22459
OEM#: 6509761-AA

Head Diameter: 20mm
Stem Length: 13.5mm
Fits into 10mm Hole
Qty: 30



Black Nylon Cowl Grille & Exterior Trim Push-Type Retainer
Art. No. 502.22543
OEM#: 6509135-AA

Head Diameter: 11mm
Stem Length: 20mm
Fits Into 6mm Hole
Qty: 25

CHRYSLER

RETAINERS



Weatherstrip Retainer
Art. No. 502.11129
OEM #: 2964547

Material: Black Nylon
 Chrysler - 1997 - On
Qty: 100



Mud Shield, Retainer
Art. No. 502.11679
OEM #: 3861577

Material: Black Nylon
 Bottom Head Dia: 3/4"
 Stem Dia: 9/32"
 Stem Length: 1/2"
 GM OEM #: 20032850
 Ford OEM #: 387258-S
Qty: 50



Fender & Bumper Shield Retainer
Art. No. 502.10831
OEM #: 3861577

Material: Black Nylon
 Bottom Head Dia: 11/16"
 Stem Dia: 5/16"
 Stem Length: 5/8"
 GM OEM #: 332364, 14093311, 20732399;
 Ford OEM #: 387258-S
Qty: 100



Door Trim Panel Retainer
Art. No. 502.11351
OEM #: 6003349, 6032363

Material: Black Nylon
 Head Dia: 15/16"
 Stem Length: 11/16"
 Ford, Chrysler, VW 1975 - On
 Ford OEM #: 385661-S
 Volkswagen OEM #: N989022
Qty: 50



Hood Insulation Retainer (Chrysler) Grille To Radiator Retainer (Ford)
Art. No. 502.11136
OEM #: 6003351

Material: Black Nylon
 Head Dia: 1/2" x 1-1/2"
 Stem Dia: 9/32"
 Stem Length: 5/8"
 Chrysler 1972 - On
 Ford 1973 - On
 Ford OEM #: 385330-S, D30Z-16776A
Qty: 50



Cowl Top Stud Retainer Cover
Art. No. 502.18249
OEM #: 6503339

Material: Black Nylon
 Head Dia: 13/16"
 Dodge Ram 1994 - On
Qty: 25



Radiator Yoke, Fender, & Bumper Shield Retainer
Art. No. 502.11146
OEM #: 6030441

Material: Black Nylon
 Head Dia: 11/16"
 Stem Dia: 5/16"
 Stem Length: 13/16"
 GM OEM #: 1605396
 Ford OEM #: 388577S
Qty: 100



Fascia Retainer
Art. No. 502.15481
OEM #: 6501067

Material: Black Nylon
 Head Dia: 25mm
 Stem Dia: 7.5mm
 Stem Length: 20mm
 Chrysler 1985 - On
Qty: 50



Weatherstrip Retainer Front & Rear Doors
Art. No. 502.19149
OEM #: 4658673

Material: Black Nylon
 Chrysler Neon 1996 - On
Qty: 50

CHRYSLER

RETAINERS



Hood Insulation & Fender Shield Retainer
Art. No. 502.17004
OEM #: 4341060

Material: Black Nylon
 Bottom Head Dia: 1-5/16"
 Stem Length: 3/4"
 Stem Dia: 3/8"
 Chrysler 1985 - On
Qty: 25



Rear Fascia Push-Type Retainer
Art. No. 502.18029
OEM #: 4630253

Material: Black Nylon
 Head Size: 7/8" x 1-25/32" (22mm x 45mm)
 Stem Length: 1-1/16" (27mm)
 Fits Into: 1/2" Hole (12.7mm)
 Chrysler Concorde & LHS Dodge
 Intrepid & Eagle Vision 1993 - On
Qty: 15



Hood Insulation Retainer
Art. No. 502.20164
OEM #: 4878883AA

Material: Black Nylon
 Chrysler LH & LHS Series 1997 - On
Qty: 50



Door Trim Panel Retainer
Art. No. 502.11678
OEM #: 6003349

Material: White Nylon
 Chrysler, GM, AMC & VW 1976 - On
 AMC OEM #:4005470
 Volkswagen OEM #:N98905101
 GM OEM #: 9685057
Qty: 50



Bumper Fascia Retainer
Art. No. 502.18301
OEM #: 10185925

Material: Black Nylon
 Bottom Head Dia: 3/4"
 Stem Dia: 11/32"
 Stem Length: 11/32"
 Chevy Lumina APV, Olds Silhouette &
 Pontiac Trans Sport 1993 - On
 GM OEM#: 10185925
 Chrysler OEM#: 6503768
Qty: 25



Radiator Grille Retainer
Art. No. 502.10332
OEM #: 2998430

Material: Black Nylon
 Bottom Head Dia: 1-1/4"
 Stem Length: 1/2"
 Stem Dia: 5/16"
Qty: 25

CHRYSLER

RETAINERS



Weatherstrip Retainer
Art. No. 502.20180

Material: Black Nylon
Head Dia: 6.5mm x 11mm
Stem Dia: 6mm
Stem Length: 8mm
Chrysler LH & LHS Series 1997 - On
Qty: 100



Trim Panel Retainer
Art. No. 502.16818
OEM #: 6501301

Material: Black Nylon
Stem Dia: 11/32"
Stem Length: 7/8"
Bottom Head Dia: 3/4"
GM Saturn 1999 - On
Sliding Door & Lift Gate
Trim Panel Retainer
Chrysler Mini Vans 1987 - On
GM OEM #: 21094146
Qty: 25



Front Bumper Fascia Push-Type Retainer
Art. No. 502.18327
OEM #: 6503454

Material: Black Nylon
Head Dia: 11/16"
Stem Length: 5/8"
Fits Into: 1/4" Hole
Jeep Grand Cherokee1994 - On
Qty: 25



Hood Insulation Retainer
Art. No. 502.17975
OEM #: 6502842

Material: Black Nylon
Bottom Head Dia: 1-3/16"
Stem Length: 1/2"
Stem Dia: 5/16"
Chrysler Concorde, Dodge Intrepid,
Eagle Vision 1993 - On
GM Corvette, Equinox, Saturn
1992 - On
GM OEM #: 21039129
Qty: 50



Fascia To Bumper Push-Type Retainer
Art. No. 502.18394
OEM #: 6503453

Material: Black Nylon
Large Head Dia: 1"
Stem Length: 1-1/8"
Fits Into: 1/4" Hole
Jeep Grand Cherokee1994 - On
Qty: 25



Front Bumper Fascia Push-Type Retainer
Art. No. 502.19638
OEM #: 4805405AA

Material: Black & White Nylon
Head Dia: 34mm
Stem Length: 20mm
Fits Into: 8mm Hole
Chrysler Concorde, Intrepid, Eagle, Pacifica,
PT Cruiser 1998 - On
Ford Trucks 2005 - On
Ford OEM #: 1L5Z-17K826AA
Qty: 15

CHRYSLER

RETAINERS



Weatherstrip Retainer
Art. No. 502.18033
OEM #: 4696129

Material: White Nylon
 Head Dia: 1/4" x 21/32"
 Stem Dia: 1/4"
 Stem Length: 15/32"
 Chrysler Concorde & LHS Dodge
 Interpid & Eagle Vision 1993 - On
 Oldsmobile Alero & Pontiac
 Grand Am 1999 - On
Qty: 100



Trim Panel Retainer
Art. No. 502.17669
OEM #: 6502907

Material: Yellow Nylon
 Top Head Dia: 1/2"
 Bottom Head Dia: 23/32"
 Stem Dia: 5/16"
 Stem Length: 9/16"
 Jeep Grand Cherokee &
 Dodge Trucks 1993 - On
Qty: 50



Door Trim Panel Retainer
Art. No. 502.18915
OEM #: 6504014

Material: White Nylon
 Top Head Dia: 1/2"
 Bottom Head Dia: 23/32"
 Stem Dia: 5/16"
 Stem Length: 9/16"
 Chrysler Caravan Cirrus, Neon, Ram
 Truck, Stratus & Voyager 1995 - On
Qty: 50



Door Trim Panel Retainer
Art. No. 502.19386
OEM #: 6505292AA

Material: Natural Nylon
 Top Head Dia: 15mm
 Bottom Head Dia: 20mm
 Stem Dia: 9mm
 Stem Length: 15mm
 Chrysler Vans 1998 - On
Qty: 25



Trim Panel Retainer
Art. No. 502.19213
OEM #: 6503709

Material: Natural Nylon
 Hole: 5/16"
 Grip Range: 1/16 - 9/16
 Dodge Ram 1994 - On
Qty: 50



**Side Radiator Shield
 Push-Type Retainer**
Art. No. 502.20458
OEM #: 6506136-AA

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 17mm
 Fits Into: 7mm Hole
 Sebring & Stratus 2001 - On
Qty: 25



Weatherstrip Retainer
Art. No. 502.20181

Material: White Nylon
 Chrysler LH & LHS Series 1997 - On
Qty: 100



Tail Gate Retainer
Art. No. 502.17685
OEM #: 6502991

Material: Yellow Nylon
 Jeep Cherokee 1993 - On
Qty: 25



Trim Panel Retainer
Art. No. 502.18862
OEM #: 6503204

Material: Green Nylon
 Bottom Head Dia: 23/32"
 Top Head Dia: 19/32"
 Stem Dia: 5/16"
 Stem Length: 5/8"
 Chrysler Cirrus & Stratus 1995 - On
Qty: 50



Door Trim Panel Retainer
Art. No. 502.19628
OEM #: 6505539-AA

Material: White Nylon
 Top Head Dia: 15mm
 Bottom Head Dia: 18mm
 Stem Dia: 8.5mm
 Stem Length: 14mm
Qty: 25



Door Trim Panel Retainer
Art. No. 502.20427
OEM #: 6505759-AA

Material: Gray & White Nylon
 Bottom: 20mm
 Middle: 18mm
 Top: 15mm
 Stem Dia: 9mm
 Stem Length: 18mm
 Chrysler Vans 2001 - On
Qty: 25



**White Nylon
 Door Trim Panel Retainer**
Art. No. 502.22461
**OEM #: 55116997AB,
 55116997AA**

Top Head Diameter: 16mm
 Middle Head Diameter: 18mm
 Bottom Head Diameter: 22mm
 Stem Diameter: 12mm
 Stem Length: 19mm
Qty: 25

CHRYSLER
RETAINERS


Trim Panel Retainer
Art. No. 502.20515
OEM #: 6505918-AA

Material: Yellow & White Nylon
 Bottom Head Dia: 20mm
 Top Head Dia: 15mm
 Stem Dia: 9mm
 Stem Length: 14mm
 Chrysler Caravan, Town & Country
 and Voyager Mini Vans 2001 - On
Qty: 25



Door Trim Panel Retainer
Art. No. 502.20428
OEM #: 5028438-AA

Material: Green & White Nylon
 Top: 15 mm
 Middle: 17mm
 Bottom: 20mm
 Stem Dia: 9mm
 Stem Length: 18 mm
Qty: 25



Door Panel Retainer
Art. No. 502.12737
OEM #: 12337920, 20374473

Material: White Nylon
 Top Head Dia: 21/32"
 Bottom Head Dia: 3/4"
 Stem Dia: 5/16"
 Stem Length: 3/4"
 Camaro & Firebird 1982 - On
 GM Truck 1989 - On
Qty: 50



Door Trim Panel Push-Type Retainer
Art. No. 502.20169
OEM #: W701971-S

Material: White Nylon
 Head Dia: 15mm
 Stem Length: 13mm
 Fits Into: 7mm Hole
 Lincoln LS 2000 - On
Qty: 25

CHRYSLER
SPECIALTY CLIPS/RETAINERS/MOULDING CLIPS


Black Hex Washer Head Sems®
Screw Assembled in Grommet
Black Nylon Rocker Panel &
Splash Shield Screw Grommet
With Specialty Screw
Art. No. 502.22535
OEM#: 6510123AA

Grommet Head Diameter: 18mm
 Length Under Head: 36mm
Qty: 10



Grille To Fascia Fastener
Art. No. 502.19339
OEM #: 4676356

Material: Phosphate
 Width: 1/2"
 Height 23/32"
 Town & Country, Caravan
 and Voyager
 1997 - On
Qty: 25



Rocker Panel &
Bumper Fascia Clip
Art. No. 502.20523
OEM #: 55156429-AA

Material: Phosphate
 Top Head Size: 1/2" x 1-3/16"
 Stem Length: 27/32"
 Jeep Liberty 2002 - On
Qty: 15



Black Nylon Rocker
Moulding Clip With Sealer
Art. No. 502.22531
OEM#: 68283229AA

Top Head Size: 14mm x 20mm
 Bottom Head Size: 14mm x 32mm
 Stem Length: 15mm
 Fits Into 9mm Hole
Qty: 20

CHRYSLER

SCREW GROMMETS



Radiator Grille Nut
Art. No. 502.9377
OEM #: 60000943

Material: White Nylon
 Screw Size: #8
Qty: 100



License Plate Nut
Art. No. 140.6000
OEM #: 6023925

Material: White Nylon
 Screw Size: 1/4" (#14)
Qty: 100



**License Plate Nut & Headlight
 Door Mounting Screw Nut**
Art. No. 502.2625

Material: Nylon
 Screw Size: #8
Qty: 100



Grommet-Tail Lamp
Art. No. 502.12569
OEM #: 6501773

Material: Black Nylon
 Head Dia: 17.75 Sq./ Screw M6
 Hole: M10
 Ford 1981 - On
Qty: 25



Door Panel Grommet
Art. No. 502.20275

Material: White Nylon
 Head Dia: 19mm
 Stem Length: 12mm
 Fits Into: 9mm Hole
 LH Series 2000 - On
Qty: 50



Headlight Bezel Nut
Art. No. 502.12735
OEM #: 6029501

Material: Nylon
 Screw Size: #6
 GM, Chrysler & VW 1982 - On
 GM OEM #: 1370853
 Volkswagen OEM #: VW/179-813-883
 Renault OEM #: 8934-201-262
Qty: 50



**White Nylon Headlamp
 Mounting Grommet**
Art. No. 502.22577
OEM#: 68211658-AD

Head Size: 16mm x 23mm
 Overall Length: 12mm
 Fits into 10mm x 18mm Hole
 Accepts 7mm Diameter Ball Stud
Qty: 25

CHRYSLER
HARDWARE/BODY BOLTS/SCREWS


Hex Head Sems® w/Dog Point
Art. No. 235.14
OEM #: 6025329

Material: Phosphate
 Thread: 1/4-20
 Length: 1"
 Washer: 5/8"
 Hex: 7/16"
Qty: 20



Hex Head Sems® Thread Cutting Screw With Dog Point
Art. No. 502.12232
OEM #: 6100539

Material: Phosphate
 Dia: M5-0.8
 Length: 20mm
 Washer: 1/2"
 Hex: 8mm
Qty: 100



Screw-Square Rivet Drive Truss, Attaches foam to Bumper Fascia
Art. No. 502.19417
OEM #: 6503401

Material: Black Nylon
 Dia: M7.5
 Length: 35mm
 Head Dia: 22mm
 Shoulder Dia: 9mm
Qty: 30



PH Flat Washer Head
Art. No. 502.15827
OEM #: 9423950

Material: Phosphate
 Screw Size: #10 x 1/2"
 Washer Head: 15/32"
Qty: 100



PH Flat Top Round Washer Head Tek®
Art. No. 502.16478
OEM #: 153297

Material: Black Zinc
 Screw Size: #8-18 x 1/2"
 Washer Head: 13/32"
Qty: 100



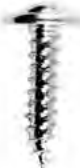
PH Flat Top Washer Head Tapping Screw
Art. No. 502.13708
OEM #: 9422202

Material: Zinc
 Screw Size: #8 x 1/2"
 Washer Head: 13/32" O.D.
Qty: 100



PH Flat Top Washer Head Tapping Screw
Art. No. 502.13707
OEM #: 9422246

Material: Zinc
 Screw Size: #8 x 3/8"
 Washer Head: 13/32"
Qty: 100



PH Flat Top Washer Head Tapping Screw
Art. No. 502.13709
OEM #: 9427977

Material: Zinc
 Screw Size: #10 x 3/4"
 Washer Head: 15/32"
Qty: 100



PH Flat Washer Head Tapping Screw
Art. No. 502.13027
OEM #: 9428273

Material: Zinc
 Washer Head: 15/32"
Qty: 100

CHRYSLER
HARDWARE/BODY BOLTS/SCREWS


Extruded U Nut
Art. No. 502.10053
OEM #: 6023171

Material: Phosphate
 Screw Size: 5/16-18
 Panel Range: .025"-.150"
 Center of Hole to Edge: 9/16"
 Ford OEM #: 45264
Qty: 50



Roof Rack Threaded Insert with Sealer Under Head
Art. No. 502.20173
OEM #: 6506104AA

Material: Zinc & Yellow
 M6-1.0 Thread
 Grip: 7mm - 3.2mm
 Head Dia: 17mm
 Hex: 9.5 mm (3/8")
 Jeep, 1999 - On
Qty: 25



Metric Free Spinning Washer Nuts
Art. No. 502.15329
OEM #: 6100048

Material: Phosphate
 Thread Size: M6-1.0
 Type B
 Washer O.D.: 18mm
 Height: 9mm
 Hex: 10mm
Qty: 25



Metric Free Spinning Washer Nuts
Art. No. 502.15331
OEM #: 6100049

Material: Phosphate
 Thread Size: M6-1.0
 Type B
 Washer O.D.: 20mm
 Height: 9mm
 Hex: 10mm
Qty: 25

CHRYSLER
HEADLIGHT/DOOR/WINDOW/HOOD ACCESSORIES


Door Lock Rod Clip-RH
Art. No. 502.19191
OEM #: 4658444

Material: Lavender Nylon
 Diameter Rod: Size: 1/8"
 Chrysler Neon, Cirrus, Stratus &
 Jeep Cherokee 1995 - On
Qty: 25



Door Lock Rod & Hood Latch Locking Push Rod Clip
Art. No. 502.10262

Latch Locking Push Rod Clip
 Rod Size: 5/32"
 Fits Into: 1/4" Hole
Qty: 20



Door Trim Panel Fastener
Art. No. 502.2385

Qty: 100

CHRYSLER
NYLON RIVETS


Blind Nylon Rivet
Art. No. 502.13751
OEM #: 6501559

Material: Black Nylon
 Hole: 1/4"
 Panel Range: 5/32"-13/32"
 GM OEM #: 20452072
 Ford OEM #: N803866-S
Qty: 25



Blind Nylon Rivet
Art. No. 502.13748
OEM #: 6503800

Material: Black Nylon
 Hole: 13/64"
 Panel Range: 1/8"-15/64"
 GM OEM #: 20432975
 Volkswagen OEM #:
 175-853-57701C
Qty: 25



Blind Nylon Rivet
Art. No. 502.17101
OEM #: 4370138, 6503860

Material: Black Nylon
 Hole: 1/4"
 Panel Range: 5/16"-15/32"
 Ford OEM #: N804675S
Qty: 25



Blind Nylon Rivet
Art. No. 502.18913
OEM #: 6503938

Material: Black Rivet Body
 & White Mandrel
 Hole: 15/64"
 Panel Range: 5/32"-9/32"
Qty: 100



Blind Nylon Rivet
Art. No. 502.18108
OEM #: 34201631

Material: Black Nylon
 Hole: 1/4"
 Panel Range: 5/32"-3/8"
Qty: 100



Blind Nylon Rivet
Art. No. 502.18028
OEM #: 4630088

Material: Black Nylon
 Hole: 1/4"
 Panel Range: 1/32"-11/64"
Qty: 25



Blind Nylon Rivet
Art. No. 502.13755
OEM #: 6500898

Material: Black Nylon
 Hole: 13/64"
 Panel Range: 15/64"-25/64"
Qty: 25



Blind Nylon Rivet
Art. No. 502.13750
OEM #: 6500911

Material: Black Nylon
 Hole: 1/4"
 Panel Range: 5/32"-13/32"
 GM OEM #: 14063981
 Ford OEM #: N803043-S
Qty: 50

CHRYSLER
SPECIALTY RIVETS


Front & Rear Door Window Sash Attachment
Art. No. 502.18927
OEM #: 22569178, 22579423

Material: Aluminum
 Dia: 3/16"
 Grip: 5/16" - 7/16"
 Flange Dia: 7/16"
Qty: 25



Chrysler Aluminum Rivet
Art. No. 502.17615
OEM #: 6032856

Material: Aluminum Black Mandrel
 Dia: 1/8"
 Grip: 3/16"-3/8"
 Flange Dia: 3/8"
Qty: 50



Split-Type Rivet
Art. No. 502.20629
OEM #: 6036148-AA

Material: Black Aluminum & Aluminum Mandrel
 Dia: 5/32"
 Grip: 3/64" - 1/4"
 Flange Dia: 7/16"
Qty: 25



Split Type Rivet/Attachment of Bumper Cover & Front License Plate Bracket to Bumper Cover
Art. No. 502.17639
OEM #: 6035201

Material: Aluminum Rivet Black/Aluminum Mandrel
 Dia: 1/4"
 Flange Dia: 11/16"
 Grip Range: 3/16"-3/8"
 Ford OEM #: N806830-S100
Qty: 20

FIAT
RETAINER


Push-Type Retainer
Art. No. 500.025205

Material: Black Nylon
 Head Dia: 16mm
 Stem Length: 8mm
Qty: 100

FORD
INDEX

OEM No.	Art. No.	Type
10008002	502.10052	Extruded "U" Nut
1016937	502.12669	Extruded "U" Nut M6-1.0 Screw Size
11503957	502.12669	Extruded "U" Nut M6-1.0 Screw Size
11504531	502.9879	Spring Type U-Nut #8 Screw Size
12337873	502.10054	Extruded "U" Nut
14074081	502.14036	Rear Hood Seal Retainer
1494254	502.10054	Extruded "U" Nut
379830-S	502.9862	Headlight Door, Grille & Mirror Nut
381863-S2	502.9879	Spring Type U-Nut #8 Screw Size
383229-S	502.11104	Stainless Steel Rivet
384931-S36	502.17035	Hex Head Sems® with Dog point
385323-S100	502.11621	Peel Type Rivet
385330-S	502.11136	Grille to Radiator Retainer
385661-S	502.11351	Door Trim Panel Retainer
385677	502.19425	Weatherstrip Retainer
386553-S	502.19655	Hood Insulation Retainer
387258-S	502.11679	Mud Shield Retainer
387477-S	502.11797	Interior Trim Panel Retainer
387843-S	502.11705	Fender Shield Retainer
387944-S	502.11706	Grille To Metal Stamping Retainer
388047-S102	502.12653	Peel Type Rivet
388246S	502.11612	Weatherstrip Fastener
388446-S100	502.12652	Rivet Bumper Assembly
388577S	502.11146	Radiator Yoke, Fender & Bumper Shield Retainer
388664-S100	502.14127	Fascia Bumper Fascia
388908-S	502.14163	Hood Insulation Retainer
388930-S	502.12909	Trim Panel Retainer
389268-S100	502.12658	"Peel-Type" Rivet Window Regulator
389358	502.10831	Fender & Bumper Shield Retainer
389443-S	502.12571	Fascia to Bumper Retainer
390018-S	502.17664	Shield Retainer
45263-S2	502.10050	Extruded "U" Nut
45264	502.10053	Extruded "U" Nut
45265-S2	502.10054	Extruded "U" Nut
45267	502.10051	Extruded "U" Nut
45268-S2	502.10052	Extruded "U" Nut
4L3Z-1510186-AA	502.20862	Roof Garnish Moulding Clip
55914-S2	502.13021	Hex Washer Head
56910-S2	502.13025	PH Washer Head Tapping Screw
56911-S2	502.13711	PH Washer Head Tapping Screw
56916-S2	502.13026	PH Washer Head Tapping Screw
56929-S2	502.13711	PH Washer Head Tapping Screw
9440178	502.9879	Spring Type U-Nut #8 Screw Size
C5ZZ-6543413-B	502.8941	Windshield & Rear Window Reveal Moulding Clip
D30Z-16776-A	502.11136	Grille to Radiator Retainer
E83Z-16758-A	502.16832	Bumper Hood Kit
F1CZ-16774-A	502.18458	Hood Insulation Retaining Clip
FITZ-7810186-A	502.19441	Rocker Panel Ground Effects Moulding Clip
F2UZ-1602354AAA	502.19846	Trim & Garnish Retainer
F58Z-16237A06-A	502.18848	Door Trim Panel Retainer
F5TZ-6734-BA	502.20453	Drain Plug Rubber Gasket
F6DZ-5410186-AA	502.20358	Rocker Panel Moulding Clip
F7UZ-1513284-BA	502.19421	Front Door Scuff Plate Retainer
GJ21-68885-B69	500.896579	Push Type Retainer
MB-455-56143	500.17632	Push Type Retainer
N606676-S2, S100	502.12160	Hex Head Sems® With Dog Point Class 9.8
N606677-S36	275.100	Hex Head Sems® With Dog Point
N606690-S2	502.15780	Metric Body Bolt Hex Head Sems® With Dog Point
N620391-S36	502.17495	Metric Hex Flange Nut
N620480	502.15316	Metric Flange Lock Nut
N621903	502.15326	Metric Free Spinning Washer Nut
N621905	502.15328	Metric Free Spinning Washer Nut
N623336-S2, S53&S100	502.12669	Extruded "U" Nut M6-1.0 Screw Size
N623333-S2	502.11629	Extruded "U" Nut
N6233343-S2 & S100	502.11630	Extruded "U" Nut
N800744-S	502.16986	Stainless Steel Capped Pan Head w/o Nuts
N800928-S45	502.14947	Internal Torx Dr. Sems® Truck Mirror Mounting Bracket Bolt
N801603-S2	502.20271	PH Pan Head Sems®
N80176-S	502.12569	#10 Screw Size Grommet
N801851-S	502.14947	Internal Torx Dr. Sems® Truck Mirror Mounting Bracket Bolt
N801925-S	502.12565	Door Trim Panel Retainer
N802538-S100	502.14526	"U" Type Special Nuts
N802781-S	502.14020	Splash Shield & Fascia Retainer
N802900	502.13470	Door Trim Panel Retainer
N803043-S	502.13750	Blind Nylon Rivet

FORD
INDEX

N803170-S	502.14021	Fascia Retainer
N803421-S	502.14019	Splash Shield & Fascia Retainer
N803494S	502.14953	Fascia Trim & Grille Retainer
N803613S	502.16863	Hood Insulation Retainer
N803866-S	502.13751	Blind Nylon Rivet
N803934S	502.13994	Push Rivet
N803946S	502.14992	Push Type Retainer
N804189S	502.13747	Blind Nylon Rivet
N804343S	502.13748	Blind Nylon Rivet
N804448	502.14757	Engine Mount Heat Shield Retainer
N804570S	502.14753	Radiator Shroud & Trim Retainer
N804583	502.15187	Blind Nylon Rivet
N804614S	502.13994	Push Rivet
N804675S	502.17101	Blind Nylon Rivet
N804837S	502.14994	Push Type Retainer
N804851-S100	502.19516	Split Type Rivet
N805155-S	502.17124	Trim Panel Retainer
N805596-S100	502.17121	Split Type Rivet, Wheel House Moulding & General Purpose
N806289-S	502.17339	Weatherstrip Retainer
N806326-S	502.18893	Trim Panel Push Type Retainer
N806334-S	502.20245	Nylon Nut #8 Screw Size
N806340-S	502.19850	Weatherstrip Retainer
N806345-S47, -S433	502.14947	Internal Torx Drive Sems® Truck Mirror Mounting Bracket Bolt
N806830-S100	502.17639	Split Type Rivet
N807154S	502.19373	Trim Panel Retainer
N807168-S	502.19111	Specialty Rivet
N807389S	502.17216	Air Baffle To Under Carriage Push Type Retainer
N807578-S	502.18894	Screw Retainer
N807721-S	502.17612	Trim Panel Retainer
N808336-S	502.18894	Trim Panel Push Type Retainer
N808689-S417	502.19458	Peel Type Rivet
N808846-S	502.19338	Hood Insulation Retainer
N811257-S100	502.20421	M5-.8 Specialty Insert with Sealer
N811283-S	502.20545	Trim Panel Push Type Retainer
N811460-S100	502.19419	Door Moulding Rivet
W525175-S	502.19456	Peel Type Rivet
W701054-S300	502.18503	Front Bumper Push-Type Retainer
W701380SSW	502.18379	Retainer
W705589-S300	502.11146	Radiator Yoke, Fender & Bumper Shield Retainer
W705849-S300	502.20355	Front End Moulding Clip
W706176-S309	502.20401	M6-1.0 Specialty Insert With Sealer
W706713-S300	502.20367	Bumper Cover Push Type Retainer
W708384-S309	502.20401	M6-1.0 Specialty Insert With Sealer
W708621-S300	502.20190	Trim Panel Retainer
W709006-SAA	502.20624	Fender Flare Retainer
W712196-S300	502.20889	Cowl Vent & Fender Push Type Retainer
W712665-S300	502.20993	Fender, Flare, Gas Tank & Panel Attachment
XL3Z-17E971-AA	502.19607	Front Bumper Cover Push-Type Retainer
YS4Z-16K266-AA	502.20191	Push Type Retainer
	502.20363	Panel Retainer
	502.19849	Push Type Retainer
	502.20192	Retainer
	502.19678	Weatherstrip Retainer
	502.19614	Front Air Deflector Grommet
	278.506	Body Bolt Hex Head Sem
	502.10642	PH Oval Head Washer
	502.5076	Caster & Camber & Ball Joints
	502.5077	Caster & Camber & Ball Joints
	502.18304	Moulding Rivet

FORD
RETAINERS


**Grille To Metal
Stamping Retainer**
Art. No. 502.11706
OEM #: 387944-S

Material: Black Nylon
Head Dia: 3/4" (19mm)
Shoulder Length: 1/4" (6.4mm)
Fits Into: 1/4" Wide Slot (6.4mm)
Qty: 50



Push Type Retainer
Art. No. 500.896579
OEM #: GJ21-68885-B69

Material: Gray Nylon
Head Dia: 18mm
Stem Length: 12mm
Fits Into: 6mm
Ford Probe & Mazda MX6 1989 - On
Qty: 15



Splash Shield & Fascia Retainer
Art. No. 502.14020
OEM #: N802781-S

Material: Black Nylon
Head Dia: 1"
Fits Into: 1/4" Hole
GM OEM #: 14093088
Qty: 40



**Yellow Nylon Pillar, Scuff
Plate & Trim Panel Retainer**
Art. No. 502.22484
OEM#: E120-68-
AB1; MR975267

Top Head Diameter: 13mm
Middle Head Diameter: 16.5mm
Bottom Head Diameter: 18mm
Stem Diameter: 9.3mm
Stem Length: 13mm
Overall Length: 20mm
Qty: 25



**Air Baffle To Under Carriage
Push-Type Retainer**
Art. No. 502.17216
OEM #: N807389S

Material: Black Nylon
Head Dia: 20mm
Stem Length: 20mm
Fits Into: 8mm Hole
GM Saturn 2 & 4 Door
Models 1991 - On
GM OEM #: 21030249
Acura OEM #: 6503598
Qty: 25



**Front Bumper Cover
Push-Type Retainer**
Art. No. 502.19607
OEM #: XL3Z-17E971-AA

Material: Natural Nylon
Head Dia: 16mm
Fits Into: 10mm
Stem Length: 12mm
Ford F150 & F250 Trucks 1999 - On
Qty: 25



Door Trim Panel
Art. No. 502.20363

Material: White Nylon
Top Head Dia.: 15mm
Bottom Head Dia.: 20mm
Stem Length: 12mm (excluding the pin)
Fits Into: 9mm Hole
Ford 2001 - On
Qty: 25



**Black Nylon Splash
& Heat Shield
Push-Type Retainer**
Art. No. 502.22532
OEM#: W717823-S300

Head Diameter: 25mm
Stem Length: 11mm
Fits Into 6.5mm Hole
Qty: 25

FORD
RETAINERS


Splash Shield & Fascia Retainer
Art. No. 502.14019
OEM #: N803421-S

Material: Black Nylon
 Head Dia: 1" (25.4mm)
 Shoulder Length: 1/8" (3.2mm)
 Stem Length: 7/8" (22mm)
 Fits Into: 5/16" Hole (8mm)
 Chrysler OEM #: 6501590
Qty: 25



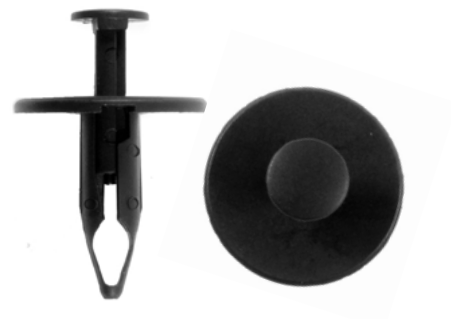
Splash Shield, Seat Cushion & Spare Tire Retainer
Art. No. 502.13994
OEM #: N804614-S; N803934-S

Material: Black Nylon
 Head Dia: 1"
 Stem Length: 7/8"
 Fits Into: 5/16" Hole"
 GM OEM #: 20570245
Qty: 25



Screw Retainer
Art. No. 502.18894
OEM: N807578-S, N808336-S

Material: Black Nylon
 Head Dia: 11/16"
 Stem Length: 3/4"
 Fits Into: 1/4" Hole
Qty: 25



Front Bumper Push Retainer
Art. No. 502.18503
OEM #: W701054-S300

Material: Black Nylon
 Head Dia: 1"
 Stem Length: 1"
 Fits Into: 5/16" Hole
Qty: 25



Cowl Vent, & Fender Push Type Retainer
Art. No. 502.20889
OEM: W712196-S300

Head Dia: 20mm
 Stem Length: 22mm
 Panel Range: 4.5mm - 7.0mm
 Fits Into: 8.5mm hole
 Buick Century, LaCrosse & Regal, Cadillac, Chevrolet Equinox, GM Trucks, Hummer H3, Pontiac Grand Prix & Torrent 1997 - 2008
 Ford Years: 2006 - 2008
 GM OEM #: 11589293
Qty: 25



Fender Flare, Gas Tank & Panel Attachment
Art. No. 502.20993
OEM: W712665-S300

Material: Black Nylon
 Head Dia: 25mm
 Stem Length: 20mm
 Panel Range: 3.0mm - 6.0mm
 Fits Into: 10.5mm hole
 Chevrolet Cobalt & HHR, GM C&K Trucks and Pontiac G5 2005 - 2008
 GM OEM #: 11589295
Qty: 25

FORD
RETAINERS


Push-Type Retainer
Art. No. 500.17632
OEM #: MB-455-56143

Material: Black Nylon
 Head Dia: 18mm
 Stem Length: 12mm
 Fits Into: 8mm Hole
 Mazda OEM #: B096-51-833
Qty: 25



Fascia Trim & Grille Retainer
Art. No. 502.14953
OEM #: N8034945

Material: Black Nylon
 Head Dia: 15/32" x 15/32"
 Fits Into: 1/4" sq. Hole
 Ford Aerostar, Escort & Lynx 1985 - On
 GM 1994 - On
Qty: 25



Push-Type Retainer
Art. No. 502.14994
OEM #: N8048375

Material: Black Nylon
 Head Dia.: .250mm
 Flange Dia.: 1.000mm
 Stem Length: .900mm
 Panel Range: .100-.240mm
Qty: 50



Bumper Cover Push-Type Retainer
Art. No. 502.20367
OEM #: W706713-S300

Material: Black Nylon
 Head Dia: 18mm
 Stem Length: 18mm
 Fits Into: 8mm Hole
 Ford Escape 2001 - On
Qty: 25



Fender Flare Retainer
Art. No. 502.20624
OEM #: W709006-SAA

Material: Black Nylon
 Bottom Head Dia: 18mm
 Stem Dia: 7.5mm
 Stem Length: 33mm
 Ford Expedition & Navigator 2003 - On
Qty: 25



Bumper Push-Type Retainer
Art. No. 502.19849

Material: Black Nylon & Santoprene Rubber
 Head Dia.: 18mm
 Stem Length: 18mm
 Fits Into: 8mm Hole
 Ford Taurus & Sable 2000 - On
Qty: 25

FORD
RETAINERS


Weatherstrip Fastener
Art. No. 502.11612
OEM #: 3882465

Material: Black Nylon
 Head Dia: 7/16"
 Stem Dia: 3/16"
 Stem Length: 5/8"
 GM OEM #: 20413107
 AMC OEM #: 4006516
Qty: 75



Mud Shield Retainer
Art. No. 502.10831
OEM #: 389358

Material: Black Nylon
 Bottom Head Dia: 11/16"
 Stem Dia: 5/16"
 Stem Length: 5/8"
 GM OEM #: 20032850
 Chrysler OEM #: 3861577
Qty: 100



Fascia Retainer
Art. No. 502.14021
OEM #: N803170-S

Material: Black Nylon
 Head Dia: 7/16"
 Stem Length: 1/2"
Qty: 25



Hood Insulation Retainer (Chrysler)
Grille To Radiator Retainer (Ford)
Art. No. 502.11136
OEM #: 385330-S,D30Z-16776A

Material: Black Nylon
 Head Dia: 1/2" x 1-1/2"
 Stem Dia: 9/32"
 Stem Length: 5/8"
 Chrysler OEM #: 6003351
Qty: 50



Push-Type Retainer
Art. No. 502.20191
OEM #: YS4Z-16K266-AA

Material: Black Nylon
 Head Dia: 16mm
 Stem Length: 18mm
 Fits Into: 6mm Hole
 Ford Focus 2000 - On
Qty: 25



Radiator Shroud Retainer
Art. No. 502.14753
OEM #: N804570S

Material: Black Nylon
 Head Dia: 11/16"
 Fits Into: 1/4" Hole
 GM 1982 - On
 Ford 1986 - On
 Chrysler 1998 - On
 GM OEM #: 20664092
Qty: 25



Door Trim Panel Retainer
Art. No. 502.11351
OEM #: 385661-S

Material: Black Nylon
 Head Dia: 15/16"
 Stem Length: 11f/16"
 Chrysler OEM #: 6003349, 6032363
 Volkswagen OEM #: N989022
Qty: 50



Mud Shield Retainer
Art. No. 502.11679
OEM #: 387258-S

Material: Black Nylon
 Bottom Head Dia.: 3/4"
 Stem Dia.: 9/32"
 Stem Length: 1/2"
 GM OEM #: 20032850
 Chrysler OEM #: 3861577
Qty: 50



Radiator Yoke, Fender, & Bumper Shield Retainer
Art. No. 502.11146
OEM #: 388577S

Material: Black Nylon
 Head Dia: 11/16"
 Stem Dia: 5/16"
 Stem Length: 13/16"
 GM OEM #: 1605396
 Chrysler OEM #: 6030441
Qty: 100

FORD
RETAINERS


Fascia to Bumper Retainer
Art. No. 502.12571
OEM #: 389443-S

Material: Black Nylon
 Head Dia: 1"
 Stem Dia: 5/16"
 Stem Length: 13/16"
Qty: 50



**Shield Retainer Battery Post
 Cable Shield, Engine Splash Shield
 Radiator Side Air Baffle**
Art. No. 502.17664
OEM #: 390018-S

Material: Black Nylon
 Head Dia: 11/16"
 Stem Dia: 5/16"
 Stem Length: 1-1/16"
 GM OEM #: 10121502
 GM 1989 - On
Qty: 50



Trim Panel Retainer
Art. No. 502.12909
OEM #: 388930-S

Material: Black Nylon
 Head Dia: 1"
 Stem Dia: 9/32"
 Stem Length: 1-1/16"
 Ford 1980 - On
Qty: 50



Rear Hood Seal Retainer
Art. No. 502.14036
OEM #: 14074081

Material: Black Nylon
 Head Dia.: 3/4"
 Stem Dia.: 5/16"
 Stem Length: 1-3/8"
 GM 1983 - On
Qty: 25



Retainer-Mud Flaps
Art. No. 502.20192

Material: Black Nylon
 Head Dia: 11/16"
 Stem Dia: 5/16"
 Stem Length: 1-3/4"
 Ford Expedition & F150 1997 - On
Qty: 25



Trim & Garnish Retainer
Art. No. 502.19846
OEM #: F2UZ-1602354AAA

Material: Black Nylon
 Bottom Head Dia: 1"
 Stem Dia: 5/16"
 Stem Length: 1-3/4"
Qty: 25

FORD
RETAINERS


Hood Insulation Retainer
Art. No. 502.14163

Material: Black Nylon
Bottom Head Dia: 1-3/4"
Stem Length: 3/4"
Stem Dia: 3/8"
Ford 1975 - On
Qty: 50



Hood Insulation Retainer
Art. No. 502.16863
OEM #: N803613S

Material: Black Nylon
Bottom Head Dia: 1-3/4"
Stem Length: 29/32"
Stem Dia: 5/16"
Ford Bronco, Explorer & Ranger 1988 - On
Qty: 25



Push-Type Retainer
Art. No. 502.14992
OEM #: N803946S

Material: Black Nylon
Head Dia: 19/32"
Stem Length: 29/32"
Fits Into: 1/4" Hole
Ford & Chrysler 1987 - On
Chrysler OEM #: 6502871
Qty: 50



Trim Panel Push-Type Retainer
Art. No. 502.18893
OEM #: N806326-S

Material: Black Nylon
Head Dia: 11/16"
Stem Length: 1/2"
Fits Into: 1/4" Hole
Qty: 15



Trim Panel Retainer
Art. No. 502.17612
OEM #: N807721-S

Material: Black Nylon
Bottom Head Dia: 5/8"
Stem Dia: 3/8"
Stem Length: 3/4"
Ford Explorer 1993 - On
Chrysler OEM #: 6504043
Qty: 50



Fender Shield Retainer
Art. No. 502.11705
OEM #: 387843-S

Material: Black Nylon
Bottom Head Dia: 19/32"
Stem Length: 5/8"
Fits Into: 1/4" hole
Ford 1978 - On
Qty: 50

FORD
RETAINERS


Weatherstrip Retainer
Art. No. 502.19425
OEM #: 385677

Material: Natural Nylon
 Bottom Head Dia: 9/32" x 1/2"
 Stem Dia: 7/32"
 Stem Length: 21/32"
Qty: 75



Headliner Retainer
Art. No. 502.8853
OEM #: C5AB-6220586A

Material: Natural Nylon
 Bottom Head Dia: 3/16" x 1/2"
 Stem Dia: 3/16"
 Stem Length: 5/8"
 Ford 1997 - On
Qty: 50



Weatherstrip Retainer
Art. No. 502.17339
OEM #: N806289-S

Material: Black Nylon
 Bottom Head Dia: 5 mm x 15mm
 Stem Dia: 4mm
 Stem Length: 12mm
 Fits Into: 1/4" hole
 Lincoln 1989 - On
Qty: 100



Weatherstrip Retainer
Art. No. 502.20770
Not available from OEM

Material: Yellow Nylon
 Head Dia: 10mm
 Stem Dia: 9mm
 Stem Length: 14.5mm
 Ford F Series Pick-Ups 2004 - On
Qty: 100



Weatherstrip Retainer
Art. No. 502.19850
OEM #: N806340-S

Material: Natural Nylon
 Bottom Head Dia: 5mm x 15mm
 Stem Dia: 5mm
 Stem Length: 8mm
 Ford F150 1999 - On
Qty: 100



Trim Panel Push-Type Retainer
Art. No. 502.20545
OEM #: N811283-S

Material: Black Nylon & Santoprene Rubber
 Head Dia: 18mm
 Stem Length: 18mm
 Fits Into: 6.3mm Hole
 Ford Expedition & Navigator 1997 - On
Qty: 25



Door Trim Panel Retainer
Art. No. 502.13470
OEM #: N802900

Material: White Nylon
 Top Head Dia: 1/2"
 Bottom Head Dia: 3/4"
 Stem Dia: 5/16"
 Stem Length: 5/8"
Qty: 50



Trim Panel Retainer
Art. No. 502.20190
OEM #: W708621-S300

Material: Caramel & Natural Nylon
 Top Head Dia: 13mm
 Bottom Head Dia: 20mm
 Stem Dia: 8.5mm
 Stem Length: 16mm
 Ford Taurus & Sable 2000 - On
Qty: 25



Weatherstrip Retainer
Art. No. 502.19678

Material: White Nylon
 Head Dia: 5mm-15mm
 Stem Dia: 6mm
 Stem Length: 10mm
 Ford Windstar 1995 - On
Qty: 25

FORD
RETAINERS


Interior Trim Panel
Art. 502.11797
OEM #: 387477-S

Material: White Nylon
 Top Head Dia: 1/2"
 Bottom Head Dia: 3/4"
 Stem Dia: 11/32"
 Stem Length: 9/16"
 Ford 1977 - On
Qty: 50



Door Trim Panel Retainer
Art. No. 502.18848
OEM #: F58Z-16237A06-A

Material: Yellow Nylon
 Top Head Dia: 1/2"
 Bottom Head Dia: 3/4"
 Stem Dia: 3/8"
 Stem Length: 11/16"
 Ford Windstar 1995 - On
Qty: 50



Door Trim Panel Retainer
Art. No. 502.12565
OEM #: N801925-S

Material: Black Nylon
 Top Head Dia: 1/2"
 Bottom Head Dia: 25/32"
 Stem Dia: 5/16"
 Stem Length: 5/8"
 Ford 1981 - On
Qty: 50

FORD
GROMMETS


**Headlight Door, Grille
 & Mirror Nut**
Art. No. 502.9862
OEM #: 379830-S

Material: White Nylon
 Hole: 1/4" sq Hole
 Screw Size: #8 or #10
Qty: 100



#10 Screw Size
Art. No. 502.12569
OEM #: N80176-S

Material: Black Nylon
 Ford 1981 - On
 Chrysler OEM #: 6501773
Qty: 25



Nylon Nut, #8 Screw Size
Art. No. 502.20245
OEM #: N806334-S

Material: Natural Nylon
 Head Size: 10mm x 10mm
 Fits Into: 6mm Square Hole
 Ford 1999 - On
Qty: 75



**Black Nylon Rear
 Lamp Grommet**
Art. No. 502.22474
OEM#: W717970-S300

Head Diameter: 18mm
 Stem Length: 16mm
 Overall Length: 18mm
Qty: 20



**Black Nylon Rear Lamp
 Grommet with Sealer**
Art. No. 502.22475
OEM#: W718369-S300

Head Diameter: 18mm
 Stem Length: 13mm
 Overall Length: 15.6mm
Qty: 15

FORD
SPECIALTY CLIPS/RETAINERS/MOULDING CLIPS


Trim Panel Retainer
Art. No. 502.17124
OEM #: N805155-S

Material: Black Nylon
 Bottom Head Dia: 3/4"
 Top Head Dia: 1/2"
 Stem Dia: 11/32"
 Stem Length: 3/4"
 Ford 1985 - On
Qty: 25



Hood Insulation Retaining Clip
Art. No. 502.18458
OEM #: F1CZ-16774-A

Material: Black Nylon
 Bottom Head Dia: 14mm
 Stem: 6mm
 Stem Length: 10mm
 Fits Into: 6mm Hole
 Ford Probe & Mazda MX6 1992 - 88
 Mazda OEM #: B455-56-741
Qty: 25



Front Air Deflector Grommet
Art. No. 502.19614

Material: Black Nylon
 Head Dia: 28mm
 Hole: 13mm
 C&K Trucks 1999 - On
Qty: 25



Roof Garnish Moulding Clip
Art. No. 502.20862
OEM #: 4L3Z-1510186-AA

Material: Black Nylon
 Tip To Tip: 42mm
 Front To Back: 12mm
 Height: 21mm
 Ford Taurus 2005 - On
Qty: 15



Trim Panel Retainer
Art. No. 502.19373
OEM #: N8071545

Material: Zuca Granite (Light Grey Nylon)
 Ford 1991 - On
Qty: 50



Retainer Trunk Liner, Rear Seat Carpet & Radiator Side Shield
Art. No. 502.18379
OEM #: W701380SSW

Material: Black Nylon
 Bottom Head Dia: 23/32"
 Stem Dia: 5/16"
 Stem Length: 7/8"
 Ford Contour & Mercury Mystique 1995-On
Qty: 25



Rocker Panel Moulding Clip
Art. No. 502.20358
OEM #: F6DZ-5410186-AA

Material: Black Nylon
 Head Size: 13mm x 39mm
 Stem Length: 14mm
 Fits Into: 9mm Hole
 Sable, Taurus & Lincoln LS2000 1996 - On
Qty: 10



Rocker Panel Ground Effects Moulding Clip
Art. No. 502.19441
OEM #: FITZ-7810186-A

Material: Black Nylon
 Explorer, Expedition & F150 1991-On
Qty: 25

FORD
HARDWARE/BOLTS/SCREWS


**Hex Head Sems® w/
Dog Point Class 9.8**
Art. No. 502.12160
OEM #: N-606676-S2, S100

Material: Phosphate
Dia.: M6-1.0 x 22mm
Washer O.D.: 19mm (3/4")
Hex: 8mm
Qty: 50



**Hex Head Sems® w/
Dog Point Class 9.8**
Art. No. 275.100
OEM #: N606677-S36

Material: Zinc & Yellow
Dia: M6x1.0 x 28mm
Washer O. D.: 19mm
Hex: 8mm
Qty: 25



**Bolt-Bumper Stainless Steel
Capped Pan Head w/o Nuts**
Art. No. 502.16986
OEM #: 14003784

Material: Zinc
Head Dia: M8 -1.25 x 25mm
Shoulder Length: 3mm
Qty: 25



**Internal Torx Drive
Sems® Truck Mirror
Mounting Bracket Bolt**
Art. No. 502.14947
OEM #: N800928-S45,
N806345-S47,
-S433, N801851-S

Material: Chrome Plated
Dia: M6-1.0 x 26mm
Head Dia: 14mm
Washer O.D T-30 Dr.: 13mm
Qty: 25



PH Pan Head Sems®
Art. No. 502.20271
OEM #: N801603-S2)

Material: Phosphate
Screw Size M4.6-1.41 x 20mm
Washer Head Dia: 5/8"
Qty: 50



Hex Hd. Sems® with Dog Pt.
Art. No. 502.17035
OEM #: 384931-S36

Material: Zinc & Yellow Dichromate
5/16"-18 x 1-1/16"
Washer Head Dia: 7/8"
Hex: 1/2"
Qty: 25



Hex Washer Head
Art. No. 502.13021
OEM #: 55914-S2

Material: Phosphate
Washer Head Dia: 1/2"
Hex: 3/8"
Qty: 100



Oil Drain Plug Rubber Gasket
Art. No. 502.20453
OEM #: F5TZ-6734-BA

I.D.: 13mm
O.D.: 22mm
Qty: 10



Front End Moulding Cup
Art. No. 502.20355
OEM #: W705849-S300

Material: Nylon
Top Head Size: 1/2" x 13/16"
Bottom Head Size: 11/16" x 25/32"
Stem Length: 3/8"
Ford 2000 - On
Qty: 10



**Caster and Camber and Ball
Joints**
Art. No. 502.5076

Material: Zinc
Size: 1-1/8" x 1-1/8"
Slot: 1/2"
Thickness: 1/16"
Qty: 50



**Caster and Camber and Ball
Joints**
Art. No. 502.5077

Material: Zinc
Size: 1-1/8" x 1-1/8"
Slot: 1/2"
Thickness: 1/8"
Qty: 50



**M6-1.0 Specialty
Insert with Sealer**
Art. No. 502.20401
OEM #: W706176-S309,
W708384-S309

Material: Zinc & Yellow
Head Dia: 13mm
Grip: .5mm - 4.2mm
Hex Size: 9.5mm
Roof Rack Ford Escape, Excursion,
Expedition, Explorer, Navigator
& Mountaineer 2000 - On
Qty: 15

FORD
HARDWARE/BOLTS/SCREWS


PH Washer Head Tapping Screw
Art. No. 502.13025
OEM #: 56910-S2

Material: Phosphate
 #8 x 1/2"
 Washer Head Dia: 31/64"
Qty: 100



PH Washer Head Tapping Screw
Art. No. 502.13711
OEM #: 11505104

Material: Phosphate
 Screw Size: #8 x 5/8"
 Washer Head Dia: 34/64"
Qty: 100



PH Washer Head Tapping Screw
Art. No. 502.13026
OEM #: 56916-S2

Material: Phosphate
 #8 x 3/4"
 Washer Head Dia: 31/64"
Qty: 100



Metric Body Bolt. Hex Head Sems@ w/Dog Point. CLASS: 9.8
Art. No. 502.15780
OEM #: N606690-S2

Material: Phosphate
 Dia: M8-1.25 x 33mm
 Washer O.D.: 22mm
 Hex: 10mm
Qty: 50



Body Bolt. Hex Head Sem.
Art. No. 278.506

Material: Phosphate
 Dia: 5/16-18 x 1"
 Length: 1"
 Washer: 7/8"
 Hex: 1/2"
Qty: 25



PH Oval Head Washer, Wheel Opening Mouldings
Art. No. 502.10642

Material: Zinc
 Dia: #8 x 3/8"
 Washer O.D.: 3/8"
Qty: 100



Metric Hex Flange Nut
Art. No. 502.17495
OEM #: N620391-S36

Material: Zinc
 Thread Size M4-.7
 Flange O.D.: 14mm
 Height: 6mm
 Hex: 8mm
Qty: 50



Metric Flange Lock Nut
Art. No. 502.15316
OEM #: N620480

Material: Phosphate
 Thread Size: M6-1.0
 Flange O.D.: 14mm
 Height: 7.5mm
 Hex: 10mm
Qty: 50



Metric Free Spinning Washer Nuts
Art. No. 502.15328
OEM #: N621905

Material: Phosphate
 Thread Size: M6-1.0
 Type B
 Washer O.D.: 16mm
 Height: 8.5mm
 Hex: 11mm
Qty: 50



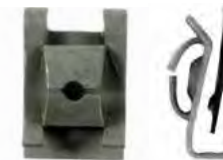
M5-.8 Specialty Insert with Sealer
Art. No. 502.20421
OEM #: N811257-S100

Material: Zinc & Olive Drab
 Grip: .5mm-2.5mm,
 Head Dia: 10mm,
 Hex Size: 7mm
 General Purpose
 Ford Escape, Excursion,
 Expedition, Explorer, Navigator
 & Mountaineer 2001 - On
Qty: 10



Metric Free Spinning Washer Nut
Art. No. 502.15326
OEM #: N621903

Material: Phosphate
 Thread Size: M5-0.8
 Type B
 Washer O.D.: 15mm
 Height: 7mm
 Hex: 10mm
Qty: 50



"U" Type Special Nuts
Art. No. 502.14526
OEM #: N802538-S100

Material: Green Phosphate
 Screw Size: #8
 Panel Range: 1/16" - 5/32"
 Center of hole to Edge: 5/16"
 Width: 17/32"
 Length: 51/64"
Qty: 50

FORD
HARDWARE/BOLTS/SCREWS


Extruded "U" Nuts
Art. No. 502.12669
OEM #: 1016937, 11503957;
N623336-S2, -S53 & -S100

Material: Phosphate
 Center of Hole to Edge:
 13.5mm (17/32")
 Screw Size: M6-1.0
 Panel Range: .80mm-4.00mm
 (.30-.160")
Qty: 50



Extruded "U" Nuts
Art. No. 502.10050
OEM #: 45263-S2

Material: Phosphate
 Center of Hole to Edge: 17/32"
 Screw Size: 1/4"-20mm
 Panel Range: .025"-.150"
Qty: 50



Extruded "U" Nuts
Art. No. 502.10051
OEM #: 45267, 1494257

Material: Phosphate
 Center of Hole to Edge: 25/32"
 Screw Size: 1/4"-20
 Panel Range: .025"-.150"
Qty: 50



Extruded "U" Nut
Art. No. 502.10054
OEM #: 1494254, 12337873,
45265-S2

Material: Phosphate
 Screw Size: 3/8"-16
 Panel Range: .050-.200"
 Center of Hole to Edge: 3/4"
Qty: 25



Spring Type U-Nut
Art. No. 502.9879
OEM #: 9440178, 11504531,
381863-S2

Material: Phosphate
 Center of Hole to Edge: 5/8"
 Screw Size: #8
 Panel Range: .025"-.150"
Qty: 100



Extruded "U" Nuts
Art. No. 502.11629
OEM #: N623333-S2

Material: Phosphate
 Center of Hole to Edge: 14.5mm
 (9/16")
 Screw Size: M8-1.25
 Panel Range: .80mm-4.0mm
 (.30-.160")
 GM OEM #: 11500660, 11502617
Qty: 50



Extruded "U" Nuts
Art. No. 502.11630
OEM #: N6233343-S2 & S100

Material: Phosphate
 Center of Hole to Edge:
 20mm (13/16")
 Screw Size: M8-1.25
 Panel Range: .80mm-4.50mm
 (.30-.170")
 GM OEM #: 11500661, 11503317
Qty: 50



Extruded "U" Nuts
Art. No. 502.10052
OEM #: 10008002 45268-S2

Material: Phosphate
 Screw Size: 5/16"-18
 Panel Range: .025"-.150"
 Center of Hole to Edge: 7/8"
Qty: 50



Extruded "U" Nut
Art. No. 502.10053
OEM #: 45264

Material: Phosphate
 Screw Size: 5/16"-18
 Panel Range: .025"-.150"
 Center of Hole to Edge: 9/16"
 Chrysler OEM #: 6023171
Qty: 50

FORD
NYLON RIVETS


Blind Nylon Rivet
Art. No. 502.13750
OEM #: N803043-S

Material: Black Nylon
 Fits Into: 1/4" Hole
 Panel Range: 5/32"-13/32"
 GM OEM #: 14063981
 Chrysler OEM #: 6500911
Qty: 50



Blind Nylon Rivet
Art. No. 502.13747
OEM #: N804189S

Material: Black Nylon
 Fits Into: 13/64" Hole
 Panel Range: 1/16-11/64"
 GM OEM #: 20423647
Qty: 25



Blind Nylon Rivet
Art. No. 502.13751
OEM #: N803866-S

Material: Black Nylon
 Fits Into: 1/4" Hole
 Panel Range: 5/32"-13/32"
 GM OEM #: 10184895
 Chrysler OEM #: 6501559
Qty: 25



Black Nylon Rivet
Art. No. 502.17101
OEM #: N804675S

Material: Black Nylon
 Fits Into: 1/4" Hole
 Panel Range: 5/16"-15/32"
 Chrysler OEM #: 4370138,
 6503860
Qty: 25



Blind Nylon Rivet
Art. No. 502.13748
OEM #: N804343S

Material: Black Nylon
 Fits Into: 13/64" Hole
 Panel Range: 1/8"-15/64"
 GM OEM #: 20432975
 Volkswagen OEM #:
 175-853-57701C
 Chrysler OEM# 6503800
Qty: 25



Blind Nylon Rivet
Art. No. 502.15187
OEM #: N804583S

Material: Black Nylon
 Fits Into: 4mm Hole
 Panel Range: 6mm-10.5mm
Qty: 50

FORD
SPECIALTY RIVETS


Window Regulator
Art. No. 502.12658
OEM #: 389268-S100

Material: Aluminum Rivet/Steel Mandrel (Zinc & Yellow)
 Dia: 1/4"
 Flange Dia: 1/2"
 Grip Range: 11/16"-3/4"
 GM & Ford 1979 - On
 GM OEM #: 2338158, 20184399
Qty: 25



Rivet Bumper Fascia
Art. No. 502.19396
OEM #: N808426-S100

Material: Aluminum Rivet (Black)/Aluminum Mandrel
 Dia: 1/4"
 Flange Dia.: 1/2"
 Grip Range: 1/8" - 1/4"
 Ford Taurus & Sable 1996 - On
Qty: 25



Fascia Bumper Rivet
Art. No. 502.14127
OEM #: 388664-S100

Material: Black Aluminum Rivet/ Aluminum Mandrel
 Dia: 3/16"
 Flange Dia: 9/16"
 Grip Range: 3/8"-1/2"
 Ford 1982 - On
Qty: 50



Split Type Rivet - Attachment of Bumper Cover to Bumper & Front License Plate Bracket to Bumper Cover
Art. No. 502.17639
OEM #: N806830-S100

Material: Aluminum Rivet (Black)/Aluminum Mandrel
 Dia: 1/4"
 Flange Dia: 11/16"
 Grip Range: 3/16"-3/8"
 Ford 1992 - On, Chrysler 1993 - On
 Chrysler OEM #: 6035201
Qty: 20



Rivet Bumper Assembly
Art. No. 502.12652
OEM #: 388446-S100

Material: Steel Rivet (Black) Steel Mandrel
 Dia: 1/4"
 Flange Dia: 3/4"
 Grip Range: 1/8"-1/4"
 Ford Escort & Lynx 1981 - On
Qty: 25



Peel Type Rivet Door Handle Assembly
Art. No. 502.12653
OEM #: 388047-S102

Material: Aluminum Rivet (Black) Steel Mandrel
 Dia: 1/4"
 Flange Dia: 1/2"
 Grip Range: 3/32"-1/8"
 Ford 1981 - On
Qty: 25



Split Type Rivet, Wheel House Moulding & General Purpose
Art. No. 502.17121
OEM #: N805596-S100

Material: Black Aluminum Rivet/ Aluminum Mandrel
 Dia: 3/16"
 Flange Dia: 7/16"
 Grip Range: 5/64"-15/64"
 GM OEM #: 25618730
Qty: 25



Peel Type Stainless Steel Rivet
Art. No. 502.11104
OEM #: 383229-S

Material: Stainless Steel Mandrel
 Dia: 1/8"
 Flange Dia: 3/16"
 Grip Range: 3/16" - 1/4"
Qty: 100

FORD
SPECIALTY RIVETS


Grille & Bumper Specialty Rivet
Art. No. 502.19111
OEM #: N807168-S

Material: Aluminum Rivet & Mandrel
 Dia: 3/16"
 Flange Dia: 3/4"
 Grip Range: 11/16" - 13/16"
 Ford Windstar 1995-On
Qty: 25



Peel-Type Rivet
Art. No. 502.19458
OEM #: N808689-S417

Material: Aluminum Rivet (Black)
 Aluminum Mandrel
 Dia: 1/4"
 Grip: 1/8"-21/64"
 Flange Dia: 3/4"
 Door Lock Actuator Ford Continental,
 Crown Victoria, F Series Truck,
 Grand Marquis, Mark VII, Mustang,
 Ranger, Sable, Taurus, Town Car &
 Windstar 1995-On
Qty: 25



Peel-Type Rivet
Art. No. 502.19456
OEM #: W525175-S

Material: Aluminum Rivet Steel Mandrel
 (Zinc)
 Dia: 1/4"
 Grip: 25/64" - 21/32"
 Flange Dia: 5/8"
 Front Door Window Ford Continental,
 Crown Victoria, Explorer,
 Grand Marquis,
 Mark VIII, Mustang, Ranger, Sable,
 Taurus, Town Car & Windstar 1996-On
Qty: 25



Peel Type Rivet
Art. No. 502.11621
OEM #: 385323-S100

Material: Aluminum Rivet
 & Steel Mandrel
 Dia: 1/4"
 Flange Dia: 1/2"
 Grip Range: 33/64" - 19/32"
 Ford, GM, Chrysler 1976 - On
 GM OEM #: 9437938
 Chrysler OEM #: 6031091
Qty: 50



Front Bumper Split-Type Rivet
Art. No. 502.19516
OEM#: N804851-S100

Material: Aluminum Rivet
 (Black)/Steel Mandrel
 Dia: 1/4"
 Flange Dia: 9/16"
 Grip Range: 3/64"-1/4"
 Ford Taurus 1996 - On
Qty: 15



**Attachment Of Door Glass
 Moulding Rivet**
Art. No. 502.18304

Material: Aluminum Rivet
 & Steel Mandrel
 Dia: 1/8"
 Flange Dia: 3/8"
 Grip Range: 1/16"-1/8"
 Ford 1993 - On
Qty: 50



Door Moulding Rivet
Art. No. 502.19419
OEM #: N811460-S100

Material: Steel Rivet
 (Black) Steel Mandrel
 (Zinc & Yellow)
 Dia: 1/8"
 Flange Dia: 3/8"
 Grip Range: 1/8" - 3/16"
 Ford Taurus 1996 - On
Qty: 25



**Aluminum Rivet &
 Steel Mandrel
 Bumper & Lower Deflector
 Specialty Rivet**
Art. No. 502.22540
OEM#: W525157-S300

Diameter: 4.8mm (3/16")
 Flange Diameter: 9.3mm (3/8")
 Grip Range: 3.20mm -
 6.35mm (.126" - .250")
Qty: 50

Pack sizes subject to change without notice

Some sizes and finishes available **OnDemand**

FORD
HEADLIGHT/DOOR/WINDOW/HOOD ACCESSORIES


Bumper-Hood Kit includes Nut w/6mm Threaded Insert Rubber Bumper Metal Stool Adjuster
Art. No. 502.16832
OEM #: E83Z-16758-A

Ford 1989 - On
Qty: 2 Sets



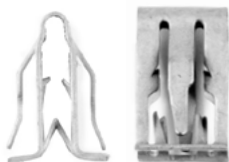
Hood Insulation Retainer
Art. No. 502.19655
OEM #: 386553-S

Material: Black Nylon
 1975 - On
Qty: 50



Hood Insulation Retainer
Art. No. 502.19338
OEM #: N808846-S

Material: Black Nylon
 Head Dia: 1-1/4"
 Stem Length: 11/16"
 Stem Dia: 5/16"
 Chrysler Sebring 1996-On Ford Taurus, Sable & Mark VIII 1996-On
 Chrysler OEM #: 6504098
Qty: 40



Front Door Scuff Plate Retainer
Art. No. 502.19421
OEM #: F7UZ-1513284-BA

Material: Zinc Organic
 Econoline Van
 E150/350
 1997 - On
Qty: 25



Engine Mount Heat Shield Retainer
Art. No. 502.14757
OEM #: N804448

Material: Black Nylon
 Head Dia: 1/2"
 Stem Dia: 1/4"
 Ford Taurus & Sable 1986 - On
Qty: 25



Windshield & Rear Window Reveal Moulding Clip
Art. No. 502.8941
OEM #: C5ZZ-6543413-B

Ford 1966 - On
Qty: 50

OEM No.	Art. No.	Type
10053182	502.14997	Push Type Retainer
10053388	502.15045	Bumper Fascia Retainer
10077283	502.15042	Bumper Fascia Retainer
10089262	502.14987	Push Type Retainer
10098645	502.18682	Front Door Lower Moulding Retainer
10109689	502.15490	Blind Nylon Rivet
10121502	502.17664	Shield Retainer
10134407	502.18030	PushType Retainer
10139822	502.14991	Push Type Retainer
10140480	502.16835	Rear Bumper Fascia Retainer
10153057	502.16695	Door Trim Panel Retainer
10157900	502.16622	Front Bumper Fascia Retainer
1016937	502.12669	Metric U Nut
10169777	502.20344	Weatherstrip Retainer
10184895	502.13751	Blind Nylon Rivet
10195515	502.14995	Push Type Retainer
10246149	502.19788	Rocker Panel Push Type Retainer
10281487	502.20395	M6-1.0 Specialty Insert
10285935	502.19270	Trim Panel Retainer
10301966	502.20365	Cowl Vent Push Type Retainer
10323057	502.20607	Rocker Moulding Retainer
10408480	502.19527	Door Garnish Moulding & Pillar Trim Panel Retainer
10421018	502.20338	Trim Panel Retainer
10423553	502.20481	Moulding Clip
10425306	502.20365	Cowl Vent Push Type Retainer
10431524	502.19757	Rocker Panel Moulding Clip
10431761	502.19821	Rocker Panel Moulding Clip
11500086	502.12350	Hex Washer Head
11500434	502.15373	Hex Head Sems®
11500658	502.11628	Spring Type Fold Nut
11500660	502.11629	Extrude "U" Nuts
11500661	502.11630	Extrude "U" Nuts
11500662	502.11631	Extrude "U" Nut M10-1.5 Screw Size
11500663	502.18339	Extruded "U" Nuts M10-1.5 Screw Size
11500971	502.12348	Hex Washer Head
11500994	502.12057	Hex Head Sems®
11500997	502.12354	Hex Head Sems®
11501188	502.13614	Body Bolt Hex Head Sems®
11501193	502.11641	Hex Head Sems®
11501800	502.15334	Metric Free Spinning Washer Nuts
11501835	502.12253	Self Threading Nut
11501836	502.12255	Self Threading Nuts
11501883	502.12059	PH Oval Washer Head Pozi-Drive
11501884	502.12060	PH Washer Head
11501889	502.11644	Metric Hex Flange Nuts
11501896	502.12061	PH Round Washer Head Pozi-Drive
11501903	502.12062	PH Washer Head Pozi-Drive
11502483	502.12097	PH Pan Head Sems®
11502605	275.107	Body Bolt Hex Washer Head
11502617	502.11629	Extrude "U" Nuts
11502624	275.107	Body Bolt Hex Washer Head
11502790	275.103	Body Bolt Hex Head Sems®
11502941	502.12693	Hex Head Sems®
11503317	502.11630	Extrude "U" Nuts
11503395	502.12741	Hex Head Sems®
11503396	502.12742	Hex Head Sems®
11503483	502.12742	Hex Head Sems®
11503503	502.12097	PH Pan Head Sems®
11503578	502.18261	Hex Washer Head Sems®
11503619	502.13613	Body Bolt Hex Head Sems®
11503632	502.12336	Body Bolt Hex Head
11503695	502.15335	Metric Free Spinning Washer Nuts
11503714	502.11864	Extrude "U" Nuts
11503715	502.12575	Extrude "U" Nuts
11503716	502.11864	Extrude "U" Nuts
11503754	502.12596	Spinning Washer Nuts
11503756	502.12596	Spinning Washer Nuts
11503785	502.18261	Hex Washer Head Sems®
11503812	502.12064	Hex Head Sems®
11503815	502.12322	Hex Head Sems®
11503892	502.15373	Hex Head Sems®
11503957	502.12669	Metric U Nut
11503982	275.102	Body Bolt Hex Head Sems®
11504056	502.12738	Washer Hex Head Sems®
11504493	275.201	Body Bolt

OEM No.	Art. No.	Type
11504531	502.9879	Spring Type U-Nut
11504570	275.105	Hex Head Sems®
11504978	502.12666	Extrude "U" Nuts
11504981	502.12068	Hex Head Sems®
11505022	502.12351	Hex Washer Head Sems®
11505044	502.18416	Body Bolt Hex Head Sems®
11505182	502.14053	Tapping Screws
11505596	502.18338	Extruded "U" Nuts
11506174	502.12693	Hex Head Sems®
11508023	502.12322	Hex Head Sems®
11508241	502.12575	Extrude "U" Nuts
11509511	275.107	Body Bolt Hex Washer Head
11516807	502.20741	Split-Type Rivet
11517803	502.16622	Front Bumper Fascia Retainer
11517992	502.20615	Fender Liner Retainer
11518017	502.20632	Push Type Retainer
11518201	502.20281	Fascia Retainer
11518357	502.20377	Rocker Panel Moulding Clip
11519444	502.20359	Push Type Retainer
11519952	502.20422	M6-1.0 Specialty Insert
11561368	502.20888	Fender Wheel & Bumper Push-Type Retainer
11561878	502.17222	Push Type Retainer
11562563	502.21128	Moulding Clip
11588650	502.20883	Garnish, Interior Trim, Bezel & Scuff Plate Fastener
11589176	502.20972	Rocker Panel Moulding Clip
11589181	502.21199	Bumper and Fender Apron Retainer
11589289	502.20988	Air distributor & windshield defroster push type retainer
11589290	502.20880	Air inlet grill, bumper fascia, front brake calliper cooling duct
11589291	502.20989	Air dam & grill push type retainer
11589292	502.20991	Bumper fascia flares & air dam push type retainer
11589293	502.20889	Cowl Vent, & Fender Push Type Retainer
11589294	502.20992	Bumper fascia, fender and toe / floor panel push type retainer
11589295	502.20993	Fender flare, gas tank & panel attachment push type retainer
11589296	502.20994	Panel attachment & general purpose push type retainer
11609417	502.20826	Fender Apron Push-Type Retainer
12040983	502.19851	Wire Loom Routing Clip
12040984	502.19440	Wire Loom Routing Clip
12160858	502.20397	Wire Loom Routing Clip
12337868	502.15518	Door Lock Rod Clip
12337873	502.10054	Extrude "U" Nut
12337915	502.15490	Blind Nylon Rivet
12337920	502.12737	Door Panel Retainer
12338074	502.16936	Door Upper Hinge Splined O.D. Bushing
12338153	502.12658	Window Regulator
1254815	502.11838	#6 Screw Size Grommet
1370853	502.12735	Headlight Bezel Nut
14003784	502.16986	Stainless Steel Capped Pan Head w/o Nuts
14007510	502.13231	Hex Washer Head w/ Sems®
14007940	502.12999	Special Purpose Jack Nuts
14011722	278.504	Body Bolt Hex Head Sems®
14019205	502.12567	Front Fender Mudskirt Retainer
14019226	502.14011	Radiator Overflow Bottle/Windshield Washer Bottle Retainer
14027471	502.12759	Trim Panel Retainer
14037239	502.18926	Tailgate Rod Clip
14040999	502.16322	Extrude "U" Nuts
14045480	502.14010	Fascia Retainer
14048060	502.13005	Well Nuts
14063981	502.13750	Blind Nylon Rivet
14071289	502.14011	Radiator Overflow Bottle/Windshield Washer Bottle Retainer
14074081	502.14036	Rear Hood Seal Retainer
14093311	502.10831	Mud Shield Retainer
14103461	502.15043	Bumper Fascia Retainer
1494254	502.10054	Extrude "U" Nut
1494258	502.8814	Extrude "U" Nut
15056810	502.20362	Bumper Fascia Retainer
15076791	502.20444	Trim Panel Retainer
15078238	502.20860	Radiator Grille & Bumper Cover Fastener
15149708	502.19639	Radiator, Wheelhouse, Fender & Front Bumper Cover Push-Type Retainer
15153415	502.19615	Rear Bumper Cover Push Type Retainer
15296830	502.20990	Fascia & General Purpose Push Type Retainer
15545178	502.18926	Tailgate Rod Clip
15562609	502.16937	Door Lower Hinge, Splined O.D. Bushing
15562610	502.17976	Door Hinge Pin Retainer
15588078	502.14032	Pillar Cover Retainer
15591860	502.17204	Door Hinge Pin

OEM No.	Art. No.	Type
15596280	502.14037	Cowl Vent Nut
15600382	502.12992	Door Trim Panel Retainer
15607165	502.15970	Trim Panel Retainer
15612948	502.15970	Trim Panel Retainer
15653790	502.19781	Door Hinge Pin
15672330	502.14998	Push Type Retainer
15685099	502.20415	M6-1.0 Specialty Insert with sealer
15686142	502.18153	Grille Nut
15691493	502.16936	Door Upper Hinge Splined O.D. Bushing
15707256	502.19317	Front Fender Ext. & License Plate Bracket
15733971	502.19613	Front Air Deflector Retainer
15748479	502.20268	Garnish Moulding Fastener
15773445	502.14753	Radiator Shroud & Trim Retainer
15955172	502.13752	Blind Nylon Rivet
15956470	502.14998	Push Type Retainer
15960325	502.18353	Door Trim Panel Push Type Retainer
15993201	502.16622	Front Bumper Fascia Retainer
1605396	502.11146	Radiator Yoke, Fender, & Bumper Shield Retainer
1619321	502.12137	Radiator Apron Panel Retainer
1631564	502.15478	Bumper Fascia Retainer
1640810	502.15373	Hex Head Sems®
1644290	502.18948	Hood Insulation, Rear Bumper Fascia & Door Trim Plate Retainer
16500308	502.14016	Tail Light Retainer
16632192	502.16937	Door Lower Hinge, Splined O.D. Bushing
16632193	502.16936	Door Upper Hinge Splined O.D. Bushing
16662182	502.19519	Front Bumper, Grille Mounting & Headlight Cover Fastener
1689827	502.12095	PH Washer Head
20032850	502.11679	Mud Shield Retainer
20046147	502.14559	Door Hinge Pin
20064875	502.15456	Hood Insulation Retainer
20130258	502.13003	Well Nuts
20184399	502.12658	Window Regulator
20374473	502.12737	Door Panel Retainer
20413107	502.11612	Weatherstrip Fastener
20421672	502.13752	Blind Nylon Rivet
20421800	502.12992	Door Trim Panel Retainer
20423550	502.15774	PH Washer Head
20423647	502.13747	Blind Nylon Rivet
20429500	502.14553	Bushing, Splined O.D.
20432975	502.13748	Blind Nylon Rivet
20433026	502.13753	Blind Nylon Rivet
20451401	502.13461	Retains Conduit to Sheet Metal Retainer
20452072	502.13996	Exterior Body Retainer
20452072	502.14753	Radiator Shroud & Trim Retainer
20455900	502.14006	Moulding Retainer
20510029	502.13993	Body Retainer
20511451	502.13454	Cowl Vent Retainer
205-14862	502.15367	Screen Shroud Vent Retainer
20570245	502.13994	Splash Shield, Seat Cushion & Spare Tire Retainer
20582532	502.18392	Door Lock Rod Clip
20582533	502.18393	Door Lock Rod Clip
20590899	502.13996	Exterior Body Retainer
20603072	502.11067	Wind shield & Rear Window Reveal Moulding Clip
20635065	502.13994	Splash Shield, Seat Cushion & Spare Tire Retainer
20664092	502.14753	Radiator Shroud & Trim Retainer
20699808	502.14921	Door Weatherstrip Retainer
20732399	502.10831	Mud Shield Retainer
20734005	502.17092	Trim Panel Retainer
21030249	502.17216	Push Type Retainer
21039129	502.17975	Hood Insulation Retainer
21042098	502.14987	Push Type Retainer
21047094	502.16816	Push Type Retainer
21075686	502.17222	Push Type Retainer
21077123	502.19801	Wheel Opening Moulding Push Type Retainer
21077131	502.17616	Bumper Fascia Push Type Retainer
21094146	502.16818	Trim Panel Retainer
21095797	502.18896	Bumper Fascia Retainer
22189414	502.20360	Engine Compartment & Front End Retainer
22512276	502.12766	Front End Stone Shield Retainer
22531616	502.11631	Extrude "U" Nut M10-1.5 Screw Size
22535007	502.15044	Bumper Fascia Retainer
22538004	502.14993	Push Type Retainer
22542705	502.15045	Bumper Fascia Retainer
22603384	502.19820	Rocker Panel Moulding Clip
14013246	502.13960	Headlight Bezel Nut

OEM No.	Art. No.	Type
22642756	502.20262	Trim Retainer
22657634	502.19788	Rocker Panel Push Type Retainer
22677979	502.20666	Trim Push Type Retainer
22677980	502.20666	Trim Push Type Retainer
25016383	502.11680	Dash Panel Retainer
25603960	502.18389	Radiator Baffle Retainer
25609048	502.17641	Blind Rivet
25618730	502.17121	Split Type Rivet, Wheel House Moulding & General Purpose
25631448	502.19417	Screw Square Head
25680782	502.14991	Push Type Retainer
25693852	502.19822	Rocker Panel Moulding Clip
25724529	502.20774	Rocker Moulding & Grille Moulding Clip
3065575	502.11796	Door Trim Panel Retainer
3078511	502.11130	Hood Insulation Retainer
332364	502.10831	Mud Shield Retainer
347347	502.13450	Front Lights #8 Screw Size
3540146	502.17640	Channel Retainer Rivet
3548011	502.17640	Channel Retainer Rivet
3548804	502.18685	License Plate Bracket & Bumper Fascia Retainer
363137	502.16017	Trim Panel Retainer
367292	502.12995	Jack Nuts
3783006	502.2558	License Plate Nut
379831-5	502.8814	Extrude "U" Nut
380370	502.8418	License Plate Nut
380382	502.9829	Headlight Bezel to Body Nut
3816659	773.14547	Routing Clip
381818-52	502.9880	Spring Type U-Nut
381863-52	502.9879	Spring Type U-Nut
3893980	502.10330	Front End & Instrument Panel Nut
3907444	502.11719	#1/4 Screw Size License Plate Nut
3919773	502.11691	Headlight Bezel Nut
3977775	502.11130	Hood Insulation Retainer
3986997	278.504	Body Bolt Hex Head Sems®
411700	502.11721	Trim Panel Retainer
4234830	502.15518	Door Lock Rod Clip
45265-52	502.10054	Extrude "U" Nut
4755299	502.11719	#1/4 Screw Size License Plate Nut
4755299	502.8435	1/4" Screw Size License Plate Nut
4876498	502.10744	Weatherstrip Retainer
528846	502.13004	Well Nuts
5480852	502.20756	Rocker Panel Moulding Clip with Sealer
5973400	502.12757	Fascia Retainer
6270163	502.10832	Fender & Bumper Shield Retainer
6271989	502.14559	Door Hinge Pin
796255	502.11349	Door Panel Retainer
8731909	502.11120	Door Weatherstrip Retainer
88970494	502.20577	Rocker Panel & Garnish Moulding Push-Type Retainer
88973676	502.20577	Rocker Panel & Garnish Moulding Push-Type Retainer
89025539	502.20485	Truck Door Hinge Pin & Bushing Repair Kit.
8911472	773.14546	Routing Clip
8917320	773.14547	Routing Clip
9420052	502.12097	PH Pan Head Sems®
9424837	502.9880	Spring Type U-Nut
9431530	502.9880	Spring Type U-Nut
9432137	502.16687	Steel Mandrel Countersunk Head Trunk Lock Swivel Emblem Rivet
9432552	502.16686	Multi Purpose Rivet
9433043	502.11628	Spring Type Fold Nut
943348	235.12	Stainless Steel Capped Pan Head w/o Nuts
9436175	502.11620	Window Regulator Rivet
9439719	502.12657	Specialty Rivet
9440178	502.9879	Spring Type U-Nut
9442361	502.17641	Blind Rivet
95005064	502.14144	Trim Panel Retainer
96057847	502.17383	Radiator Grille & Trim Panel Push-Type Retainer
9606232	502.11067	Wind shield & Rear Window Reveal Moulding Clip
9662950	502.11067	Wind shield & Rear Window Reveal Moulding Clip
9669486	502.11855	Side Marker Nut, Rear License Plate Bracket
9685057	502.11678	Door Trim Panel Retainer
9721917	502.14550	Door Hinge Bushing
N621940	502.15335	Metric Free Spinning Washer Nuts
N623336-52	502.12669	Metric U Nut
N804349S	502.15479	Bumper Fascia Retainer
W701374-S	502.20399	Hood Insulation Retainer
W701855-S300	502.20366	Fender Liner & Mud Flap Retainer
	502.13933	Grille Nut

OEM No.	Art. No.	Type
	275.101	Hex Head Sems® Class 9.8
	278.506	Hex Head Sems®
	278.503	Hex Washer Head
	502.10642	Metric Special Tapping Screw, Torx Washer Head
	502.9757	Hex Head Sems® Body Bolts
	502.10066	Spring Type U-Nut
	502.19725	Door Roller Pin Assembly
	502.2288	Door & Window Crank. Handle Retaining Clip.

RETAINERS


Front Fender Mudskirt Retainer
Art. No. 502.12567
OEM #: 14019205,14019206, 16514113

Material: Black Nylon
 Head Dia: 11/16"
 Panel Range: 9/32"
 Fits Into: 1/4" Hole
 GM 1981- On
 Chrysler OEM #: 34201621, 6504090
Qty: 50



**Radiator Overflow Bottle/
 Windshield Washer
 Bottle Retainer**
Art. No. 502.14011
OEM #: 14019226, 14071289

Material: Black Nylon
 Head Dia: 21/32"
 Fits Into: 5/16"
 GM 1981- On
Qty: 40



**Rear Bumper Cover
 Push-Type Retainer**
Art. No. 502.19615
OEM #: 15153415

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 21mm
 Fits Into: 9mm Hole
 C & K Trucks
 1999 - On
Qty: 25



**Air Baffle to Under Carriage
 Push-Type Retainer**
Art. No. 502.17216
OEM #: 21030249

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 20mm
 Fits Into: 8mm Hole
 GM Saturn
 2 Door & 4 Door Models
 1991 - On
 Ford OEM #: N8073895
 Acura OEM #: 6503598
Qty: 25



Push Type Retainer
Art. No. 502.16816
OEM #: 21047094

Material: Black Nylon
 Head Dia: 14mm
 Stem Length: 14mm
 Fits Into: 6mm Hole
 GM Saturn
 1991 - On
Qty: 50



Fascia Retainer
Art. No. 502.12757
OEM #: 5973400

Material: Black Nylon
 Head Dia: 1"
 Fits Into: 1/2" Hole
 Panel Range: 1/8"
Qty: 25



Body Retainer
Art. No. 502.13993
OEM #: 20510029

Material: Black Nylon
 Head Dia: 11/16"
 Fits Into: 1/4" Hole
 1984 - On
 Ford OEM #: N803366-S
 Chrysler OEM #: 34202672
Qty: 50



**Front Bumper Push-
 Type Retainer**
Art. No. 500.19233

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 13mm
 Fits Into: 10mm Hole
 Acura 3.5 RL Sedan & Honda
 1996 - On
 Honda, Acura OEM #: 91503-
 SZ3-003
Qty: 25

Pack sizes subject to change without notice

Some sizes and finishes available OnDemand

GM

RETAINERS



Bumper Fascia Retainer
Art. No. 502.15042
OEM #: 10077283

Material: Black Nylon
 Head Dia: 1"
 Stem Length: 1-1/8"
 Fits Into: 1/2" Hole
 Panel Range: 1/4"
 GM 1982 - On
Qty: 25



Bumper Fascia Retainer
Art. No. 502.15045
OEM #: 10053388, 22542705

Material: Black Nylon
 Head Dia: 1"
 Panel Range: 1/8"
 Stem Length: 1-7/64"
 Fits Into: 1/2" Hole
 GM 1987 - On
Qty: 25



Bumper Fascia Retainer
Art. No. 502.15043
OEM #: 14103461

Material: Black Nylon
 Head Dia: 7/8"
 Stem Length: 1-3/64"
 Fits Into: 1/2" Hole
 Panel Range: 5/32"
 GM 1987 - On
Qty: 50



Bumper Fascia Retainer
Art. No. 502.15044
OEM #: 22535007

Material: Black Nylon
 Head Dia: 1"
 Stem Length: 1"
 Fits Into: 1/2" Hole
 Panel Range: 1/8"
Qty: 40



Push-Type Retainer
Art. No. 502.18030
OEM #: 10134407

Material: Black Nylon
 Head Dia: 11/16"
 Stem Length: 13/16"
 Fits Into: 1/4" Hole
 Chrysler Concorde, LHS
 Dodge Intrepid
 & Eagle Vision
 Coolant Recovery Reservoir
 GM 1992 - On
 Chrysler OEM #: 6501925
Qty: 50



Fender Wheel & Bumper
Push Type Retainer
Art. No. 502.20888
OEM #: 11561368

Head Dia: 18mm
 Stem Length: 20mm
 Panel Range: 3.0mm - 5.8mm
 Fits Into: 9.5mm hole
 Chevrolet Impala & Monte Carlo
 and Pontiac Grand Prix & Solstice
 Years: 2004 - On
 Jeep Wrangler
 2000 - On
Qty: 25



Air Inlet Grill, Bumper
Fascia, Front Brake
Caliper Cooling Duct
Art. No. 502.20880
OEM #: 11589290

Head Dia: 18mm
 Stem Length: 20mm
 Panel Range: 4.5mm - 7.0mm
 Fits Into: 6.5mm hole
 Buick Enclave, Cadillac CTS &
 STS, Chevrolet Cobalt, Equinox & SSR,
 GM Trucks and Pontiac G5 & Torrent
 2002 - On
Qty: 25



Wheel Opening Moulding
Push-Type Retainer
Art. No. 502.19801
OEM #: 21077123

Material: Black Nylon
 Head Dia: 19/32"
 Stem Length: 3/4"
 Fits Into: 1/4" Hole
 Saturn 1991 - On
 Ford 2002 - On
 Chrysler 2010 - On
 Ford OEM #: W705436-S300
 Chrysler OEM #: 6509103AA
Qty: 25



Bumper Fascia Retainer
Art. No. 502.18896
OEM #: 21095797

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 28mm
 Fits Into: 8mm Hole
 GM 1996 - On
Qty: 25



Air Distributor & Windshield Defroster Push Type Retainer
Art. No. 502.20988
OEM #: 11589289

Head Dia: 18mm
 Stem Length: 17.5mm
 Panel Range: 2.0mm - 4.5mm
 Fits Into: 6.5mm Hole
 Buick Enclave, Chevrolet Equinox, Chevrolet & GMC S&T Trucks, GMC Acadia and Pontiac Torrent 2002 - On
 Chrysler OEM #: 6508863-AA
Qty: 25



Air Dam & Grill Push Type Retainer
Art. No. 502.20989
OEM #: 11589291

Head Dia: 18mm
 Stem Length: 22mm
 Panel Range: 7.0mm - 9.5mm
 Fits Into: 6.5mm Hole
 Cadillac CTS, SRX and STS
 Years: 2003 - On
 Ford OEM #: W713331-S300
Qty: 25



Cowl Vent, & Fender Push Type Retainer
Art. No. 502.20889
OEM #: 11589293

Head Dia: 20mm
 Stem Length: 22mm
 Panel Range: 4.5mm - 7.0mm
 Fits Into: 8.5mm Hole
 Buick Century, LaCrosse & Regal, Cadillac, Chevrolet Equinox, GM Trucks, Hummer H3 and Pontiac Grand Prix & Torrent
 Years: 1997 - On Ford Edge, Fusion, Lincoln MKX, Milan and Zephyr Years: 2006 - On
 Ford OEM #: W712196-S300
Qty: 25



Bumper Fascia Push-Type Retainer
Art. No. 502.17616
OEM #: 21077131

Head Dia: 1-3/16"
 Stem Length: 2"
 Fits Into: 7/16" Hole
 Material: Black Nylon
 GM Saturn 1991 - On
Qty: 10



Hood Insulation, Rear Bumper Fascia & Door Trim Plate Retainer
Art. No. 502.18948
OEM #: 1644290

Material: Black Nylon
 Bottom Head Dia: 11mm
 Stem Length: 17.5mm
 Stem Dia: 5.5mm
 GM 1991 - On
 Nissan 2002 - On
 Nissan OEM #: 01553-0075U
Qty: 25



Interior Trim Retainer
Art. No. 502.15479
OEM #: N8043495

Material: Black Nylon
 Bottom Head Dia: 26mm
 Stem Length: 38mm
 Stem Dia: 8mm
 Ford 1986 - On
Qty: 25



Fender Flare, Gas Tank & Panel Attachment Push Type Retainer
Art. No. 502.20993
OEM #: 11589295

Head Dia: 25mm
 Stem Length: 20mm
 Panel Range: 3.0mm - 6.0mm
 Fits Into: 10.5mm hole
 Chevrolet Cobalt & HHR, GM C&K Trucks and Pontiac G5 2005 - On
 Ford OEM #: W712665-S300
Qty: 25

Pack sizes subject to change without notice

Some sizes and finishes available **OnDemand**

GM

RETAINERS



Bumper Fascia Flares & Air Dam Push Type Retainer
Art. No. 502.20991
OEM #: 11589292

Head Dia: 20mm
 Stem Length: 20mm
 Panel Range: 2.0mm - 4.5mm
 Fits Into: 8.5mm hole
 Chevrolet & GMC C & K Trucks
 2007 - On
Qty: 25



Bumper Fascia, Fender & Toe / Floor Panel Push Type Retainer
Art. No. 502.20992
OEM #: 11589294

Head Dia: 20mm
 Stem Length: 24mm
 Panel Range: 7.0mm - 10.0mm
 Fits Into: 8.5mm hole
 Buick Enclave & LaCrosse,
 Chevrolet &
 GMC C & K Trucks, GMC Acadia,
 Hummer H3 and Saturn Outlook
 2005 - On
Qty: 25



Weatherstrip Retainer
Art. No. 502.20344
OEM #: 10169777

Material: Black Nylon
 Bottom Head Dia: 18mm
 Stem Length: 20mm
 Stem Dia: 7.5mm
 Chevrolet Impala, Lumina
 & Monte Carlo &
 Pontiac Aztek
 1995 - On
Qty: 25



Cowl Vent Push-Type Retainer
Art. No. 502.20365
OEM #: 10301966, 10425306

Material: Black Nylon
 Head Dia: 18mm
 Stem Length: 13mm
 Fits Into: 7.5mm Square Hole
 Pontiac Aztek
 2001 - On
Qty: 25



Panel Attachment & General Purpose Push Type Retainer
Art. No. 502.20994
OEM #: 11589296

Head Dia: 25mm
 Stem Length: 23mm
 Panel Range: 6.0mm - 9.0mm
 Fits Into: 10.5mm hole
 Buick Enclave and GMC Acadia
 2007 - On
Qty: 25



Fascia & General Purpose Push Type Retainer
Art. No. 502.20990
OEM #: 15296830

Head Dia: 19mm
 Stem Length: 16mm
 Panel Range: 5.0mm - 7.0mm
 Fits Into: 8mm Hole
 2007 - On
 Chrysler: 5116530-AA
Qty: 25



Bumper Cover Push-Type Retainer
Art. No. 502.20359
OEM #: 11519444

Material: Black Nylon
 Head Dia: 18mm
 Stem Length: 26mm
 Fits Into: 10mm Hole
 Oldsmobile Intrigue, Pontiac
 Aztek & Grand Prix
 1997 - On
Qty: 25



Trunk Trim Retainer
Art. No. 502.20262
OEM #: 22642756

Material: Black Nylon
 Bottom Head Dia: 1"
 Stem Length: 9/16"
 Stem Dia: 7/16"
 Chevrolet Cavalier & Pontiac
 Sunfire 1995 - On
Qty: 25

GM
RETAINERS


Rear Bumper Fascia Retainer
Art. No. 502.896652
OEM #: 10140480

Material: Black Nylon
 Head Dia: 21mm (27/32")
 Stem Length: 25mm (1")
 Fits Into: 12mm Hole (1/2")
 Panel Range: 3mm (1/8")
 GM APV Vans
 1990 - On
 Chrysler OEM #: 6502625
Qty: 10



Fender Liner Retainer
Art. No. 502.20615
OEM #: 11517992

Material: Black Nylon
 Bottom Head Dia: 35mm
 Stem Length: 20mm
 Stem Dia: 8mm
 Pontiac Bonneville
 2000 - On
Qty: 25



Push-Type Retainer
Art. No. 502.14998
OEM #: 15672330,15956470

Material: Black Nylon
 Head Dia: .410"
 Flange Dia: .850"
 Stem Length: 1.000"
 Panel Range: .350-.470"
Qty: 25



Bumper Fascia Retainer
Art. No. 502.20281
OEM #: 11518201

Material: Black Nylon
 Bottom Head Dia: 21mm
 Stem Length: 27mm
 Stem Dia: 13mm
 Pontiac Grand Am
 1999 - On
Qty: 15



Engine Compartment & Front End Retainer
Art. No. 502.20360
OEM #: 22189414

Material: Black Nylon
 Bottom Head Dia: 15/16"
 Stem Dia: 3/8"
 Stem Length: 3/4"
 Buick LeSabre, Park Ave.,
 Rendezvous, & Riviera;
 Cadillac DeVille & Seville;
 Chevrolet Venture,
 Oldsmobile Silhouette
 and Pontiac Aztek,
 Bonneville & Montana
 2000 - On
 Chrysler
 2010 - On
Qty: 25



Front End Stone Shield Retainer
Art. No. 502.12766
OEM #: 22512276

Material: Black Nylon
 Bottom Head Dia: 7/8"
 Stem Length: 13/16"
 Stem Dia: 7/16"
Qty: 50



Fender Liner & Mud Flap Retainer
Art. No. 502.20366
OEM #: W701855-S300

Material: Black Nylon
 Bottom Head Dia: 22mm
 Stem Length: 35mm
 Stem Dia: 7.5mm
 Ford Explorer & Mountaineer
 2002 - On
Qty: 25



License Plate Bracket & Bumper Fascia Retainer
Art. No. 502.18685
OEM #: 3548804

Material: Black Nylon
 Bottom Head Dia: 31/32"
 Stem Length: 3/4"
 Stem Dia: 9/32"
 Cadillac Eldorado & Seville 1995 - On
Qty: 25

GM

RETAINERS



Bumper and Fender Apron Retainer
Art. No. 502.21199
OEM #: 11589181

Head Dia: 18mm
 Stem Length: 20mm
 Stem Dia: 7.5mm
 Ford Focus and
 GM Full-Size Pick-Up Trucks 2007 - On
 Ford OEM #: W711687-S300
Qty: 25



Weatherstrip Fastener
Art. No. 502.11612
OEM #: 20413107

Material: Black Nylon
 Head Dia: 7/16"
 Stem Length: 5/8"
 Stem Dia: 3/16"
 Ford OEM #: 388246S
 AMC OEM #: 4006516
Qty: 25



Retains Conduit To Sheet Metal In Doors
Art. No. 502.13461
OEM #: 20451401

Material: White Nylon
 Bottom Head Dia: 15/16"
 Top Head Dia: 29/32"
 Stem Length: 1-1/8"
 Stem Dia: 5/16"
Qty: 50



Grille to Panel Retainer
Art. No. 502.15367
OEM #: 205-14862

Material: Black Nylon
 Head Dia: 19/32"
 Stem Length: 3/4"
 Stem Dia: 7/32"
 GM 1985 - On
Qty: 100



Fender & Bumper Shield Retainer
Art. No. 502.10831
OEM #: 20732399, 332364, 14093311

Material: Black Nylon
 Bottom Head Dia: 11/16"
 Stem Dia: 5/16"
 Stem Length: 5/8"
 Ford OEM #: 389358,
 W701259-S300
 Chrysler OEM #: 3691590,
 6031321, 6505411-AA
 AMC OEM #: 4004569
Qty: 100



Fender & Bumper Shield Retainer
Art. No. 502.10832
OEM #: 6270163, 6270163

Material: Gray Nylon
 Head Dia: 11/16"
 Stem Length: 5/8"
 Stem Dia: 5/16"
 GM 1973 - On
 Chrysler
Qty: 50



Cowl Vent Retainer
Art. No. 502.13454
OEM #: 20511451

Material: Black Nylon
 GM 1984 - On
Qty: 25



Door Weatherstrip Retainer
Art. No. 502.11120
OEM #: 8731909

Material: Black Nylon
 Bottom Head Dia: 13/32"
 Stem Length: 3/8"
 Stem Dia: 5/32"
 GM 1963 - On
Qty: 100

GM
RETAINERS


Mud Shield Retainer
Art. No. 502.11679
OEM #: 20032850

Material: Black Nylon
 Bottom Head Dia: 3/4"
 Stem Dia: 9/32"
 Stem Length: 1/2"
 GM, Ford & Chrysler
 1976 - On
 Ford OEM #: 387258-S
 Chrysler OEM #: 3861577
Qty: 50



Rocker Panel Moulding Clip
Art. No. 502.19822
OEM #: 25693852

Material: Gray Nylon
 Top Head: 9/16" x 3/4"
 Bottom Head: 5/8" x 3/4"
 Stem Length: 9/16"
 Snaps Into: 7/16" hole
 Buick LeSabre, Cadillac Concours,
 DeVille, Eldorado & Seville;
 Chevrolet Impala, Lumina
 & Monte Carlo; Oldsmobile
 Aurora & Pontiac Bonneville
 1995 - On
Qty: 25



Moulding Retainer
Art. No. 502.14006
OEM #: 20455900

Material: Black Nylon
 GM 1984 - On
Qty: 50



Trim Panel Retainer
Art. No. 502.11721
OEM #: 411700

Material: Black Nylon
 Head Dia: 1/2"
 Stem Length: 9/32"
 Stem Dia: 3/4"
 GM 1968 - On
Qty: 50



Weatherstrip Retainer
Art. No. 502.10744
OEM #: 4876498

Material: Black Nylon
 Head Dia: 3/16" x 1/2"
 Stem Dia: 3/16"
 Stem Length: 7/16"
 Bottom Head Dia: 3/16" x 1/2"
Qty: 100



**Rocker Panel &
 Garnish Moulding
 Push-Type Retainer**
Art. No. 502.20577
OEM #: 88970494, 88973676

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 8mm
 Fits Into: 7mm Hole
 Pontiac Vibe 2003 - On
 Lexus & Toyota 2000 - On
 Toyota OEM #: 90467-07168
Qty: 25



Trim Panel Retainer
Art. No. 502.16818
OEM #: 21094146, 21110201

Material: Black Nylon
 Stem Length: 7/8"
 Stem Dia: 11/32"
 Bottom Head Dia: 3/4"
 GM Saturn 1991 - On
 Sliding Door & Lift Gate
 Chrysler Mini Vans 1987- On
 Chrysler OEM #: 6501301
Qty: 25



**Radiator Yoke,
 Fender, & Bumper
 Shield Retainer**
Art. No. 502.11146
**OEM #: 1605396,
 15958694, 11569768**

Material: Black Nylon
 Head Dia: 11/16"
 Stem Length: 13/16"
 Stem Dia: 5/16"
 Ford OEM #: 388577S,
 W705589-S300
 Chrysler OEM #: 6030441
Qty: 100

GM

RETAINERS



**Shield Retainer Battery Post
Cable Shield, Engine Splash
Shield Radiator Side Air Baffle**
Art. No. 502.17664
OEM #: 10121502

Material: Black Nylon
Head Dia: 11/16"
Stem Length: 1-1/16"
Stem Dia: 5/16"
GM 1989 - On
Ford OEM #: 390018-S
Chrysler OEM #:
6033082, 6033840
Qty: 50



Exterior Body Retainer
Art. No. 502.13996
OEM #: 20452072, 20590899

Material: Black Nylon
Head Dia: 11/16"
Stem Length: 7/8"
Fits Into: 9/32" Hole
1984 - On
Qty: 50



Push-Type Retainer
Art. No. 502.14997
OEM #: 10053182

Material: Black Nylon
Head Dia: 19/32"
Stem Length: 13/16"
Fits Into: 5/16" Hole
GM 1987 - On
Qty: 50



Rear Hood Seal Retainer
Art. No. 502.14036
OEM #: 14074081

Material: Black Nylon
Head Dia: 3/4"
Stem Length: 1-3/8"
Stem Dia: 5/16"
GM 1983 - On
Qty: 25



Bumper Fascia Retainer
Art. No. 502.20362
OEM #: 15056810

Material: Black Nylon
Head Dia: 25mm
Stem Length: 15mm
Stem Dia: 13mm
GM S & T Trucks
2002 - On
Qty: 25



Radiator Apron Panel Retainer
Art. No. 502.12137
OEM #: 1619321

Material: Black Nylon
Head Dia: 1"
Stem Length: 13/16"
Stem Dia: 7/16"
Fits Into: 3/8" Hole
GM 1977 - On
Qty: 50



**Splash Shield, Seat Cushion &
Spare Tire Retainer**
Art. No. 502.13994
OEM #: 20570245, 20635065

Material: Black Nylon
Head Dia: 1"
Stem Length: 7/8"
Fits Into: 5/16" Hole"
Ford OEM #: N804614S
Qty: 25

GM
RETAINERS


Push-Type Retainer
Art. No. 502.14987
OEM #: 10089262, 21042098

Material: Black Nylon
 Head Dia: 7/16"
 Stem Length: 11/16"
 Fits Into: 6mm 15/64" Hole
 Chrysler OEM #: 55075139
Qty: 25



Push-Type Retainer
Art. No. 502.14995
OEM #: 10195515

Material: Black Nylon
 Head Dia: 1/2"
 Stem Length: 1-13/64"
 Fits Into: 9/32" Hole
 GM, Ford & Chrysler
 1987 - On
 Ford OEM #: N805026S
 Chrysler OEM #: 4696488, 6503163
Qty: 25



Fascia Retainer
Art. No. 502.14010
OEM #: 14045480

Material: Black Nylon
 Head Dia: 1"
 Stem Length: 23/32"
 Fits Into: 3/8" Hole
 GM 1982 - On
Qty: 25



Rear Bumper Fascia Retainer
Art. No. 502.16835
OEM #: 10140480

Material: Black Nylon
 Head Dia: 21mm
 Shoulder Length: 3mm
 Stem Length: 25mm
 Fits Into: 1/2" Hole
 APV Vans 1990 - On
 Chrysler OEM #: 6502625
Qty: 25



Radiator Shroud & Trim Retainer
Art. No. 502.14753
OEM #: 15773445, 20452072, 20664092

Material: Black Nylon
 Head Dia: 11/16"
 Stem Length: 7/8"
 Fits Into: 1/4" Hole
 Chrysler OEM #: 4638136
 Ford OEM #: N804570S
Qty: 25



Tail Light Retainer
Art. No. 502.14016
OEM #: 16500308

Material: Black Nylon
 Large Head Dia: 3/8"
 Stem Length: 7/16"
 Fits Into: 3/16" Hole
 Chrysler OEM #: 6500787
Qty: 25



Push-Type Retainer
Art. No. 502.14993
OEM #: 22538004

Material: Black Nylon
 Head Dia: 11/16"
 Stem Length: 7/8"
 Fits Into: 1/4" Hole
 GM 1987 - On
Qty: 25



Radiator Grille & Trim Panel Push-Type Retainer
Art. No. 502.17383
OEM #: 96057847, 94847334

Material: Black Nylon
 Head Dia: 11mm
 Stem Length: 14mm
 Fits Into: 7mm Hole
 Geo Tracker & Prizm 1996-89
 Toyota OEM #: 90467-07066
 Suzuki OEM #: 09409-07313
Qty: 20

GM
RETAINERS


Front Bumper Fascia Retainer
Art. No. 502.16622
OEM #: 10157900, 11517803, 15993201

Material: Black Nylon
 Head Dia: 18mm
 Stem Length: 23mm
 Fits Into: 9.5mm (3/8") Hole
 Old Cutlass 1990 - On
 GM Light Truck 1996 - On
Qty: 25



Rocker Panel Push-Type Retainer
Art. No. 502.19788
OEM #: 10246149, 22657634

Material: Black Nylon
 Head Dia: 11mm
 Stem Length: 20mm
 Fits Into: 6mm Hole
 Achieva, Cutlass, Grand Am & Malibu
 GM 1999 - On
Qty: 25



Fender Apron Push-Type Retainer
Art. No. 502.20826
OEM #: 11609417

Material: Black Nylon
 Head Dia: 19mm
 Stem Length: 14mm
 Panel Range: 2.7mm - 5.3mm
 Fits Into: 8.5mm Hole
 Buick Enclave & LaCrosse, Cadillac
 CTS, SRX & STS, Chevrolet Cobalt,
 Equinox & Malibu, GM Trucks
 and Pontiac G5, G6 & Torrent
 2003 - On
Qty: 50



Trim Panel Retainer
Art. No. 502.12759
OEM #: 14027471

Material: Black Nylon
 Bottom Head Dia: 1"
 Stem Dia: 9/32"
 Stem Length: 1-7/16"
 GM Trucks 1981-On
Qty: 25



Push-Type Retainer
Art. No. 502.17222
OEM #: 11561878, 21075686

Material: Black Nylon
 Head Dia: 15mm
 Stem Length: 20mm
 Fits Into: 8mm Hole
 Rocker Panel, Wheel Liner & Air Inlet
 Duct Applications
 GM Saturn, 2 Door & 4 Door Models
 1991 - On
 Ford OEM #: F3LY-14570-B
Qty: 25



**Radiator, Wheelhouse, Fender
 & Front Bumper Cover
 Push-Type Retainer**
Art. No. 502.19639
OEM #: 15149708

Material: Black Nylon
 Head Dia: 17mm
 Stem Length: 16mm
 Fits Into: 6mm Hole
 Chrysler OEM #: 6506008AA
Qty: 25



Door Trim Push-Type Retainer
Art. No. 502.20666
OEM #: 22677979, 22677980

Material: Gray Nylon
 Head Dia: 12mm
 Stem Length: 14mm (Exc. Pin)
 Fits Into: 6mm Hole
 Chevrolet Malibu
 2004 - On
Qty: 25



Push-Type Retainer
Art. No. 502.14991
OEM #: 10139822; 25680782

Material: Black Nylon
 Head Dia: 11/16"
 Stem Length: 11/16"
 Fits Into: 1/4" Hole
 GM & Ford 1987 - On
 Ford OEM #: N8081475
Qty: 25

GM

RETAINERS



Bumper Cover & Fender Shield Push-Type Retainer
Art. No. 502.20632
GM OEM #: 11518017

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 26mm
 Fits Into: 8mm Hole
 GM & Ford 1997 - On
 Ford OEM #: W708530-S300
Qty: 25



Door Panel Retainer
Art. No. 502.11349
OEM #: 796255

Material: Black Nylon
 Bottom Head Dia: 3/4"
 Top Head Dia: 19/32"
 Stem Length: 11/16"
 Stem Dia: 5/16"
 American Motors 1976 - On
 GM 1988 - 81
 Jeep Wrangler 1991 - On
 AMC OEM #: 4005099
 Chrysler OEM #: 6033862
Qty: 25



Pillar Cover Retainer
Art. No. 502.14032
OEM #: 15588078

Material: Black Nylon
 Bottom Head Dia: 3/4"
 Stem Length: 1-1/4"
 Stem Dia: 5/16"
 1985 - On
Qty: 20



Hood Insulation Retainer
Art. No. 502.15456
OEM #: 20064875

Material: Black Nylon
 Bottom Head Dia: 1-21/32"
 Stem Length: 3/4"
 Stem Dia: 5/16"
 GM 1980 - On
Qty: 50



Trim Panel Retainer
Art. No. 502.14144
OEM #: 95005064

Material: Black Nylon
 Bottom Head Dia: 18mm
 Top Head Dia: 13mm
 Stem Length: 14mm
 Stem Dia: 9.5mm
 Toyota OEM #: 67771-01010
Qty: 25



Front Door Lower Moulding Retainer
Art. No. 502.18682
OEM #: 10098645

Material: Black Nylon
 Bottom Head Dia: 1/2"
 Stem Length: 3/4"
 Stem Dia: 1/4"
 Pontiac Grand Prix with Sport Performance Package
 1994 - On
Qty: 75



Bumper Fascia Retainer
Art. No. 502.15478
OEM #: 1631564

Material: Black Nylon
 Bottom Head Dia: 22mm
 Stem Length: 28mm
 Stem Dia: 11mm
 Buick Cadillac & Olds 1981 - On
 Taurus & Sable 1986 - On
 Ford OEM #: N804379S,
 W706358-S300
Qty: 50



Door Weatherstrip Retainer
Art. No. 502.14921
OEM #: 20699808

Material: Black Nylon
 Bottom Head Dia: 10mm
 Stem Length: 12mm
 Stem Dia: 6mm
 Chrysler OEM #: 6502328
Qty: 100

GM
RETAINERS


Front Air Deflector Retainer
Art. No. 502.19613
OEM #: 15733971

Material: Black Nylon
 Head Dia: Small: 18mm
 Medium: 26mm
 Flange Dia: 30mm
 Stem Length: 24mm
 Use with 19614 C & K Trucks
 1999 - On
Qty: 15



Dash Panel Retainer
Art. No. 502.11680
OEM #: 25016383

Material: Black Nylon
 Bottom Head Dia: 7/16"
 Stem Length: 5/8"
 Stem Dia: 3/16"
 GM 1977 - On
Qty: 50



Radiator Baffle Retainer
Art. No. 502.18389
OEM #: 25603960

Material: Black Nylon
 Bottom Head Dia: 1/2"
 Stem Length: 7/16"
 Stem Dia: 9/32"
 Olds 98 Regency
 1994 - On
Qty: 60



Door Trim Panel & Headliner Retainer
Art. No. 502.10621
OEM #: 2064891, 9818648, 9883583

Material: White Nylon
 Bottom Head Dia: 3/4"
 Top Head Dia: 11/16"
 Stem Length: 1/2"
 Stem Dia: 5/16"
 GM 1971 - On
Qty: 100



Door Trim Panel Retainer
Art. No. 502.12992
OEM #: 15600382, 20421800, 10073833

Material: White Nylon
 Bottom Head Dia: 3/4" x 7/8"
 Top Head Dia: 9/32" x 19/32"
 Stem Length: 3/4"
 Stem Dia: 5/16"
 GM 1983 - On
Qty: 50



Door Trim Panel Push-Type Retainer
Art. No. 502.18353
OEM #: 15960325

Material: White Nylon
 Dia: 9/16"
 Stem Length: 41/64"
 Fits Into: 1/4" Hole,
Qty: 50



Air Conditioning Vent & General Purpose Push-Type Retainer
Art. No. 502.11854
OEM #: 14005089

Material: Natural Nylon
 Head Dia: 7/16"
 Stem Length: 9/32"
 Fits Into: 3/16" Hole
Qty: 25



Trim Panel Retainer
Art. No. 502.20444
OEM #: 15076791

Material: White Nylon
 Bottom Head Dia: 19mm
 Top Head Dia: 20mm
 Stem Length: 17mm
 Stem Dia: 11mm
 GM Trucks: Rendezvous,
 S & T 2002 - On
Qty: 15



Trim Panel Retainer
Art. No. 502.19270
OEM # 10285935

Material: White Nylon
 Bottom Head Dia: 20mm
 Top Head Dia: 18mm
 Stem Length: 24mm
 Stem Dia: 8mm
 Buick Century & Regal,
 Chevrolet Venture,
 GM Truck, Express Savana, Olds
 Silhouette & Pontiac Trans Sport
 1977 - On
Qty: 50



Door Panel Retainer
Art. No. 502.12737
OEM #: 12337920, 20374473

Material: White Nylon
 Bottom Head Dia: 3/4"
 Top Head Dia: 21/32"
 Stem Length: 3/4"
 Stem Dia: 5/16"
 Camaro & Firebird 1982 - On
 GM Truck 1989 - On
Qty: 50



Front Door Trim Panel Retainer
Art. No. 502.16695
OEM #: 10153057

Material: White Nylon
 Bottom Head Dia: 20mm
 Top Head Dia: 18mm
 Stem Length: 23mm
 Stem Dia: 8mm
 GM 1982 - On
Qty: 50



Door Trim Panel Retainer
Art. No. 502.20338
OEM #: 10421018

Material: White Nylon
 Bottom Head Dia: 25/32"
 Top Head Dia: 11-16"
 Stem Length: 1-1/4"
 Stem Dia: 5/16"
 GM 1997 - On
Qty: 25



Door Trim Panel Retainer
Art. No. 502.11796
OEM #: 3065575

Material: White Nylon
 Bottom Head Dia: 7/8"
 Top Head Dia: 29/32"
 Stem Length: 3/4"
 Stem Dia: 5/16"
 GM 1978 - On
Qty: 50



Door Trim Panel Retainer
Art. No. 502.17092
OEM #: 20734005

Material: Yellow Nylon
 Bottom Head Dia: 13/16" x 29/32"
 Top Head Dia: 5/8"
 Stem Length: 3/4"
 Stem Dia: 5/16"
 GM 1982 - On
Qty: 50



Trim Panel Retainer
Art. No. 502.16017
OEM #: 363137

Material: White Nylon
 Bottom Head Dia: 3/4"
 Top Head Dia: 5/8"
 Stem Length: 1"
 Stem Dia: 5/16"
 Chev. Truck & GMC
 1976 - On
Qty: 100



Retainer-Door Trim Panel
Art. No. 502.11678
OEM #: 9685057, 6003349,
4005470
N98905101

Material: White Nylon
 Bottom Head Dia: 15/16"
 Top Head Dia: 29/32"
 Stem Length: 11/16"
 Stem Dia: 5/16"
 Chrysler, GM, AMC & VW
 1976 - On
 Chrysler OEM #: 6003349
 AMC OEM #: 4005470
 Volkswagen OEM #: N98905101
Qty: 50

GM

RETAINERS



Trim Panel Retainer
Art. No. 502.15970
OEM #: 15607165, 15612948

Material: White Nylon
 Bottom Head Dia: 9/16" x 11/16"
 Top Head Dia: 9/32" x 1/2"
 Stem Length: 3/4"
 Stem Dia: 5/16"
 GM Trucks 1976 - On
Qty: 25



Black Nylon Front Bumper Push-Type Retainer
Art. No. 502.22552
OEM#: 9130754

Head Diameter: 16mm
 Stem Length: 10mm
 Fits Into 6mm Hole
Qty: 25



Natural Nylon Weatherstrip Retainer
Art. No. 502.22533
OEM#: 11611342

Top Head Size: 6.5mm x 14mm
 Bottom Head Diameter: 9.5mm
 Stem Diameter: 7mm
 Stem Length: 8mm
Qty: 100



Headliner Retainer
Art. No. 502.22576
OEM#: 13475541

Head Diameter: 25mm
 Stem Diameter: 7.3mm
 Stem Length: 21mm
 Fits into 6.5mm Hole
Qty: 25



Hood Insulation Retainer
Art. No. 502.17975
OEM #: 21039129

Material: Black Nylon
 Bottom Head Dia: 1-3/16"
 Stem Length: 1/2"
 Stem Dia: 5/16"
 Chrysler Concorde, Dodge Intrepid & Eagle Vision 1993 - On
 GM corvette, Equinox & Saturn 1992 - On
 Chrysler OEM #: 6502842
Qty: 50



Rocker Panel Moulding Clip
Art. No. 502.19757
OEM #: 10431524

Material: Black Nylon
 Top Head: 9/16" x 3/4"
 Bottom Head: 5/8" x 3/4"
 Stem Length: 9/16"
 Fits Into: 7/16" hole
 Buick LeSabre; Cadillac Concours, DeVille, Eldorado & Seville; Chevrolet Impala, Lumina & Monte Carlo; Oldsmobile Aurora & Pontiac Bonneville 1995 - On
Qty: 30



Hood Insulation Retainer
Art. No. 502.11130
OEM #: 3078511, 3977775

Material: Black Nylon
 Bottom Head Dia: 2"
 Stem Length: 3/4"
 Stem Dia: 5/16"
Qty: 50



GM
SCREW GROMMETS


#6 Screw Size Grommet
Art. No. 502.11838
OEM #: 1254815

Material: Natural Nylon
 Panel Range: .060"-.150"
 Screw Size: #6
 GM 1977 - On
Qty: 50



Headlight Bezel Nut
Art. No. 502.12735
OEM #: 1370853

Material: Natural Nylon
 Screw Size: #6
 GM, Chrysler & VW 1982 - On
 Chrysler OEM #: 6029501
 Volkswagen OEM #: VW/179813-883
Qty: 50



Grille Nut Radiator Support
Art. No. 502.18153
OEM #: 15686142, 11561448

Material: Zinc Phosphate
 Screw Size: #8
 GM Trucks, C & K, 1, 2 & 3
 1993 - On
Qty: 25



License Plate Nut
Art. No. 502.8418
OEM #: 380370

Material: Nylon
 Screw Size: #14
Qty: 50



License Plate Nut
Art. No. 502.2558
OEM #: 3783006

Material: Zinc
 Thread Size: 10-24
 Hex Width: 3/8"
 O.D.: 3/4"
 Screw Size: #10
Qty: 100



Headlight Bezel To Body Nut #6 or 8 Screw Size
Art. No. 502.9829
OEM #: 380382

Material: Natural Nylon
 Screw Size: #8/#6
Qty: 100



Front End & Instrument Panel Nut
Art. No. 502.10330
OEM #: 3893980

Material: Natural Nylon
 Screw Size: #8
 GM 1967 - On
Qty: 100



Rear Light Housing Upper Grommet
Art. No. 502.20529
OEM #: 15745991

Head Size: 13mm x 20mm
 Stem Length: 17mm
 Fits Into: 9mm x 16mm Hole
 GM Bravada, Envoy & Trailblazer
 2002 - On
Qty: 15



Side Marker Nut, Rear License Plate Bracket
Art. No. 502.11855
OEM #: 9669486

Material: Natural Nylon
 Screw Size: #8
 GM 1980 - On
 Renault OEM #: 8934-201-262
Qty: 25



Front Fender Ext. & License Plate Bracket
Art. No. 502.19317
OEM #: 15707256

Material: Zinc Organic
 Screw Size: M6-1.0
 GM Express & Savanna
 1996 - On
Qty: 10



Headlight Bezel Nut
Art. No. 502.13960
OEM #: 14013246

Material: Natural Nylon
 Screw Size: #8
 GM 1967 - On
Qty: 50



1/4" (#14) Screw Size License Plate Nut
Art. No. 502.11719
OEM #: 3907444

Material: Nylon
 Screw Size: 1/4" (#14)
Qty: 100



Front Lights #8 Screw Size
Art. No. 502.13450
OEM #: 347347

Material: Natural Nylon
 Panel Range: 1/16"-5/32"
 GM 1967 - On
Qty: 50



Headlight Bezel Nut
Art. No. 502.11691
OEM #: 3919773

Material: Natural Nylon
 Screw Size: #8
 GM 1974 - On
Qty: 100



Grille Nut
Art. No. 502.13933

Material: Natural Nylon
 Screw Size: #8 or #10
 Head Size: 1/2"
Qty: 100



Cowl Vent Nut
Art. No. 502.14037
OEM #: 15596280

Material: Black Nylon
 Screw Size: #6 or #8
 Head Size: 1/2"
 GM Astro & Safari
 Chrysler OEM #: 6035274
Qty: 25

Pack sizes subject to change without notice

Some sizes and finishes available **OnDemand**

GM

SPECIALTY CLIPS/MOULDING CLIPS



Side Moulding, Fender & Rocker Panel Moulding Clip
Art. No. 502.20481
OEM #: 10423553

Material: Green Nylon
 Top Head Size: 1/2" x 13/16"
 Bottom Head Size: 19/32" x 13/16"
 Stem Length: 9/16"
 Fits Into: 7/16" Hole
 Pontiac Aztek And GM C & K Trucks
 2001 - On
Qty: 15



Rocker Panel Moulding Clip
Art. No. 502.19821
OEM #: 10431761

Material: Gray Nylon
 Head Dia: Top: 11/16" x 1-1/2"
 Bottom: 7/8 x 1-9/16"
 Stem Length: 1-1/4"
 Fits Into: 7/16" Hole
 Chevrolet Impala, Lumina & Monte Carlo
 2000 - On
Qty: 30



Rocker Panel Moulding Clip
Art. No. 502.20377
GM OEM #: 11518357

Material: White Nylon
 Head Dia: Top 9/16"x13/16"
 Bottom 13/16"x13/16"
 Stem Length: 9/16"
 Fits Into: 7/16" Hole
Qty: 15



White Nylon Body Side & Exterior Trim Moulding Clip with Sealer
Art. No. 502.22492
OEM#: 11547581

Top Head Size: 12mm x 20mm
 Bottom Head Diameter: 19mm (Including Sealer)
 Stem Length: 11mm
 Fits into 9mm Hole
Qty: 25



Rocker Moulding & Grille Moulding Clip
Art. No. 502.20774
OEM #: 25724529

Material: White Nylon
 Top Head Size: 9/16" x 13/16"
 Bottom Head Size: 5/8" x 13/16"
 Stem Length: 9/16"
 Fits Into: 3/8" Hole
 Buick LeSabre & Rainier; Cadillac Concours, CTS, DeVille, Eldorado, Escalade, Seville, SRX & STS; Chevrolet Avalanche, Impala, Lumina, Monte Carlo, SSR, Vans & Trucks; Oldsmobile Aurora & Bravada and Pontiac Bonneville 1992 - On
Qty: 25



Windshield Garnish Moulding, Rear Side Door Garnish Moulding & Liftgate Trim Finish Panel Fastener
Art. No. 502.19519
OEM #: 16662182

Material: Zinc Organic
 Height: 9/16"
 Width: 1/2"
 Chevrolet Camaro, Corvette & Venture; Oldsmobile, Silhouette and Pontiac Firebird, Grand Prix & Trans Sport 1993 - On
 Chrysler 1996 - On
 Chrysler OEM #: 6502988
Qty: 15



Rocker Panel Moulding Clip
Art. No. 502.19820
OEM #: 22603384

Material: White Nylon
 Head Size: 3/4" x 1-3/16"
 Stem Length: 19/32"
 Fits Into: 7/16" Hole
 Oldsmobile Alero & Pontiac Grand Am
 1999 - On
Qty: 25



White Nylon Wheel Opening Moulding Clip
Art. No. 502.22534
OEM#: 11588818

Top Head Size: 16mm x 26mm
 Bottom Head Size: 14mm x 20mm
 Stem Length: 16mm
 Fits Into 9mm Hole
Qty: 25

GM

SPECIALTY CLIPS/MOULDING CLIPS



**Black Nylon Hood
Release Cable Clip**
Art. No. 502.22529
OEM#: 22581725

Top Head Diameter: 19mm
Holds 4.76 - 6.35mm Diameter Cable
Bottom Head Diameter: 17mm
Stem Diameter: 8mm
Stem Length: 16mm
Qty: 25



Wire Loom Routing Clip
Art. No. 502.19440
OEM #: 12040984

Material: Black Nylon
I.D.: 1/4"
O.D.: 3/8"
Qty: 15



Wire Loom Routing Clip
Art. No. 773.14547
OEM #: 3816659, 8917320

Material: Black Nylon
I.D.: 3/4"
O.D.: 1"
Qty: 25



Wire Loom Routing Clip
Art. No. 773.14546
OEM #: 8911472

Material: Black Nylon
I.D.: 1/2"
O.D.: 11/16"
Qty: 25



**Wire Loom Routing Clip Type 6
For Conduit Size 10mm x 13mm**
Art. No. 502.20397
OEM #: 12160858

Material: Gray Nylon
Qty: 30



Wire Loom Routing Clip
Art. No. 502.19851
OEM #: 12040983

Material: Black Nylon
I.D.: 1/2"
O.D.: 11/16"
Qty: 30



GM

SPECIALTY CLIPS/MOULDING CLIPS



Rocker Panel Moulding Clip
Art. No. 502.20972
OEM #: 11589176

Material: White Nylon
 Top Head Size: 3/4" x 1-1/32"
 Bottom Head Size: 19/32" x 1-1/32"
 Stem Length: 9/16"
 Fits Into: 3/8" Hole
 Chevrolet Malibu 2004 - On
Qty: 25



Rocker Moulding Clip
Art. No. 502.20607
OEM #: 10323057

Material: White Nylon
 Top Head Size: 12mm x 20mm
 Stem Length: 14mm
 Fits Into: 9mm Hole
 Pontiac Grand Prix 2004 - On
Qty: 25



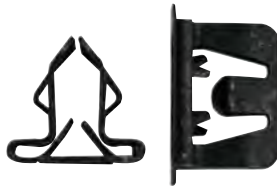
Rocker Panel Moulding Clip with Sealer
Art. No. 502.20756
OEM #: 5480852

Material: Yellow Nylon
 Top Head Size: 9/16" x 25/32"
 Bottom Head Size: 5/8" x 13/16"
 Stem Length: 9/16"
 Chevrolet Equinox 2005 - On
Qty: 25



Rocker Moulding Clip
Art. No. 502.21128
OEM #: 11562563

Material: White Nylon
 Upper Head Size: 12mm x 20mm
 Bottom Head Size: 12mm x 32mm
 Stem Length: 15mm
 Fits Into: 10mm Hole
 Chevrolet Malibu 2008 - On
Qty: 15



Radiator Grille & Bumper Cover Fastener
Art. No. 502.20860
OEM #: 15078238

Material: Black
 Width: 5/8"
 Length: 1"
 Overall Height: 5/8"
 GM Trucks & Vans 1999 - On
Qty: 25



Garnish, Interior Trim, Bezel & Scuff Plate Fastener
Art. No. 502.20883
OEM #: 11588650

Material: Zinc
 Width: 15/32"
 Height: 11/16"
 GM Cars & Light Trucks 2002 - On
Qty: 25



Windshield & Rear Window Reveal Moulding Clip
Art. No. 502.11067
OEM #: 9606232, 9662950, 20603072

1973 - On
Qty: 100



Garnish Moulding Fastener
Art. No. 502.20268
OEM #: 15748479

Material: Zinc
 Width: 1/2"
 Height: 5/8"
 GM Cars & Trucks
 1994 - On
Qty: 25



White Nylon Rocker Panel Moulding Clip
Art. No. 502.22575
OEM#: 11549137

Top Head Size: 33mm x 45mm
 Bottom Head Size: 25mm x 37mm
 Stem Length: 15mm
 Fits into 9mm x 20mm Slot
Qty: 20

GM
HARDWARE/BODY BOLTS/SCREWS


Hex Head Sems® Class 9.8
Art. No. 275.105
OEM #: 11504570, 11509816, 11514623

Material: Phosphate
 Size: M6-1.0 x 20mm
 Washer: 17mm (21/32")
 Hex: 10mm
Qty: 25



Stainless Steel Capped Pan Head w/o Nuts
Art. No. 235.12
OEM #: 943348, 9433489

Material: Zinc
 Head Dia: 3/8"-16 x 1"
 Head: 7/8"
 Shoulder Length: 3/32"
Qty: 10



Metric Tapping Screw Hex Head Sems®
Art. No. 502.12068
OEM #: 11504981

Material: Phosphate
 Size: M6.3-1.81 x 30mm
 Washer O.D.: 24mm
 Hex: 10mm
Qty: 50



M10-1.50 x 40mm Hex Head Sems® Class 9.8
Art. No. 502.11641
OEM #: 11501193

Material: Phosphate
 Hex: 15mm
 Washer Dia: 29mm (1-5/32")
 Material: Phosphate
Qty: 25



Hex Head Sems® Class 9.8
Art. No. 502.12693
OEM #: 11502941, 11506174

Material: Phosphate
 Size: M6-1.0 x 20 mm
 Washer O.D.: 17 mm (21/32")
 Hex: 10 mm
Qty: 50



Bolt-Bumper Stainless Steel Capped Pan Head w/o Nuts
Art. No. 502.16986
OEM #: 14003784

Material: Zinc
 Size: M8 -1.25 x 25mm
 Shoulder Length: 3mm
Qty: 25



Body Bolt Hex Head Sems® Class 9.8
Art. No. 275.102
OEM #: 11503982

Material: Phosphate
 Size: M6-1.0x25mm
 Washer O.D.: 24mm (15/16")
 High Hex Head Sems®
 Hex: 10mm
Qty: 50



Body Bolt Class 9.8
Art. No. 275.201
OEM #: 11504493

Material: Black Polyseal
 Size: M6x1.0 x 25mm
 Hex: 10mm
 Washer O.D.: 24mm
Qty: 25

GM

HARDWARE/BODY BOLTS/SCREWS



Metric Body Bolt. Hex Head Sems® Class: 9.8
Art. No. 502.18416
OEM #: 11505044

Material: Black Phosphate
 Size: M6-1.0 x 35mm
 Washer O.D.: 17mm
 Hex: 10mm
Qty: 50



Body Bolt Hex Head Sems® Class 9.8
Art. No. 502.13614
OEM #: 11501188

Material: Phosphate
 Size: M8-1.25 x 30mm
 Washer O.D.: 24mm (15/16")
 Hex Head Sems®
 Hex: 13mm
Qty: 25



Body Bolt Hex Head Sems® Class 9.8
Art. No. 502.13613
OEM #: 11503619

Material: Phosphate
 Size: M8-1.25 x 25mm
 Washer O.D.: 24mm (15/16")
 Hex: 13mm
Qty: 25



Hex Washer Head Art. No. 502.12348
OEM #: 11500971

Material: Phosphate
 Size: M8-1.25 x 30mm
 Class 9.8
 Hex: 13mm
 Washer Head Dia: 17mm
Qty: 100



Hex Head Sems® Class 9.8
Art. No. 275.101

Material: Phosphate
 Size: M6-1.0 x 25mm
 Length: 25mm
 Washer O. D.: 17mm
 Hex: 10mm
Qty: 50



PH Washer Head Art. No. 502.12060
OEM #: 11501884

Material: Black Oxide
 Size: M4.6--1.41 x 20mm
 Washer Dia: 1mm
Qty: 100



PH Round Washer Head Pozi-Drive Art. No. 502.12061
OEM #: 11501896

Material: Black Oxide
 Size: M4.6--1.41 x 13mm
 Washer Dia: 8.5mm
Qty: 100



Metric Body Bolt Hex Head Sems®. Class: 9.8
Art. No. 275.103
OEM #: 11502790

Material: Zinc
 Size: M6.3-1.0 x 25mm
 Washer: 17mm (21/32")
 Hex: 10mm
Qty: 25



Washer Head Sems® Art. No. 502.12738
OEM #: 11504056,11513801

Material: Phosphate
 Size: M4.6-1.41 x 20mm
 Washer OD: 12mm
 Hex: 7mm
Qty: 50



Hex Head Sems® Art. No. 502.12064
OEM #: 11503812

Material: Zinc & Yellow
 Size: M6-1.0 x 16mm
 Class: 9.8
 Hex: 10mm
 Washer Dia: 18.5mm
Qty: 50



Metric Special Tapping Screw. Hex Head Sems® Art. No. 502.12057
OEM #: 11500994, 11509371

Material: Phosphate
 Size: M6.3-1.81 x 16mm
 Washer: 17mm (11/16")
 Hex: 10mm
Qty: 50



Metric Special Tapping Screws. Hex Head Sems® Art. No. 502.12741
OEM #: 11503395

Material: Phosphate
 Size: M4.6-1.41 x 16mm
 Length: 5/8
 Washer: 12mm (15/32")
 Hex: 7mm
Qty: 100

GM
HARDWARE/BODY BOLTS/SCREWS

**Body Bolt, Hex Head Sems®
Art. No. 278.506**

Material: Phosphate
Size: 5/16-18 x 1"
Length: 1"
Washer: 7/8"
Hex: 1/2"
Qty: 25


**Metric Body Bolt Hex
Washer Head Class 9.8
Art. No. 275.107
OEM #: 11502605,11502624,
11509511**

Material: Phosphate
Size: M8-1.25 x 25mm
Washer: 17mm
Hex: 13mm
Qty: 25


**Body Bolt Hex Head Sems®
Art. No. 278.504
OEM #: 3986997, 14011722**

Material: Phosphate
Size: 3/8-16 x 1"
Washer: 1"
Hex: 9/16"
Qty: 25


**Metric Body Bolt Hex
Head Class 9.8
Art. No. 502.12336
OEM #: 11503632**

Material: Black Polyseal
Size: M8-1.25 x 25mm
Washer: 17mm
Hex: 13mm
Qty: 25


**Square Head Drive Truss,
foam to Bumper Fascia
Art. No. 502.19417
OEM #: 25631448**

Material: Nylon-Black
Size: M7.5 x 35mm
Head Dia: 22mm
Shoulder Dia: 9mm
GM 1997 - On
Chrysler 1993 - On
Chrysler OEM #: 6503819, 6503401
Qty: 30


**Metric Special Tapping Screw,
PH Oval Washer Head
Art. No. 502.10642**

Material: Zinc
Size: #8 x 3/8"
Washer O.D.: 3/8"
Qty: 100


**Hex Washer Head
Art. No. 278.503**

Material: Black Phosphate
Size: 5/16"-18 x 3/4"
Washer: 21/32"
Hex: 1/2"
Qty: 25


**PH Washer Head
with Teks® Point
Art. No. 502.12095
OEM #: 1689827**

Material: Zinc
Size: #8 x 1/2"
Washer Dia: 7/16"
Qty: 100


**PH Washer Head with
Teks® Point
Art. No. 502.15774
OEM #: 20423550**

Material: Black Phosphate
Dia: #8 x 1/2"
Washer Dia: 7/16"
Ford OEM #:381801-S2, 390017-S2
Qty: 100


**PH Pan Head Sems® Pozi-Drive
Art. No. 502.12097
OEM #:
9420052,11502483,11503503**

Material: Chrome
Size: M4.6-1.41 x 20mm
Washer Dia: 1/2"
Qty: 50


**Front End & Air
Conditioner Hex
Head Sems®
Art. No. 502.12742
OEM #: 11503396, 11503483**

Material: Phosphate
Dia: M4.6-1.41 x 20mm
Washer Head Dia: 12mm
Hex: 7mm
Qty: 100


**Hex Washer Head w/ Sems®
Nylon Washer
Art. No. 502.13231
OEM #: 14007510**

Material: Phos. Organic
Size: 1/4 - 20 x 7/8"
Washer I.D.: 5/8"
Hex: 3/8"
Qty: 25

Pack sizes subject to change without notice

●●● Some sizes and finishes available OnDemand

GM

HARDWARE/BODY BOLTS/SCREWS



PH Oval Washer Head Pozi-Drive
Art. No. 502.12059
OEM #: 11501883

Material: Zinc
 Size: M4.6-41 x 13mm
 Washer O.D.: 11mm
Qty: 100



Hex Washer Head Sems®
Art. No. 502.12351
OEM #: 11505022

Material: Black Polyseal
 M6.3-1.81 x 20mm
 Washer Dia: 17mm
 Hex: 10mm
Qty: 50



Metric Torx® Head Tapping Screws
300 Series Stainless Steel
Art. No. 502.14053
OEM #: 11505182

Material: Black Oxide
 Size: M4.6-1.41 x 25mm
 Head Style: M7 Oval
Qty: 50



Hex Head Sems®
Art. No. 502.15373
OEM #: 11503892,11500434

Material: Phosphate
 Size: M4.6-1.41 x 20mm
 Washer Head Dia: 16mm
 Hex: 7mm
Qty: 50



Hex Washer Head
Art. No. 502.12350
OEM #: 11500086

Material: Phosphate
 Size: M8-2.12 x 20mm
 Washer Dia: 16mm
 Hex: 13mm
Qty: 25



PH Washer Head Pozi-Drive
Art. No. 502.12062
OEM #: 11501903

Material: Black Oxide
 Size: M4.6-1.41 x 10mm
 Washer Dia: 11mm
Qty: 100



Hex Head Sems® Class 9.8
Art. No. 502.12322
OEM #: 11503815, 11508023

Material: Phosphate
 Size: M6-1.0 x 20mm
 Washer Dia: 21/32"
 Hex: 10mm
Qty: 25



Hex Head Sems®
Art. No. 502.12354
OEM #: 11500997

Material: Phosphate
 Size: M6.3-1.81 x 30mm
 Washer Dia: 17mm
 Hex: 10mm
Qty: 50



Hex Washer Head Sems® with Teks® Point
Art. No. 502.18261
OEM #: 11503578, 11503785

Material: Phosphate
 Size: M4.2 - 1.41 x 16mm (#8 x 5/8)
 Washer O.D: 12mm
 Hex: 7mm
Qty: 100



M6-1.0 Specialty Insert
Art. No. 502.20395
OEM #: 10281487

Material: Zinc & Yellow
 Grip: .7mm-4.2mm
 Head Dia: 13mm
 Hex Size: 9.5mm (3/8")
 Front Fender Buick, Cadillac,
 Corvette, L.D. Truck, Olds Aurora
 and Pontiac 1997 - On
Qty: 10



M6-1.0 Specialty Insert
Art. No. 502.20422
OEM #: 11519952

Material: Zinc & Yellow
 Grip: .7mm-4mm
 Head Dia: 13mm
 Hex Size: 9.5mm (3/8")
 Front Core Support &
 General Purpose
 GM Envoy & Trailblazer 2002 - On
Qty: 15



M6 - 1.0 Specialty Insert w/ Sealer
Art. No. 502.20415
OEM #: 15685099

Material: Zinc & Yellow
 Grip: .65mm - 2.0mm
 Head Dia: 12mm
 Hex Size: 8mm
 Roof Rack, Tailgate &
 General Purpose
 GM APV Vans, C & K Trucks
 and Ford Explorer 1991 - On
 Ford OEM #: N803763-S100
Qty: 10

GM

HARDWARE/BODY BOLTS/SCREWS



Hex Head Sems® Body Bolts
Art. No. 502.9757

Material: Phosphate
Size: 1/4"-20 x 1"
Washer O.D.: 1"
Hex: 3/8"
Qty: 100



Well Nut
Art. No. 502.13005
OEM #: 14048060

Thread: #8-32
Hole Size: 5/16"
Grip Range: .015-.172
Qty: 25



Well Nut
Art. No. 502.13003
OEM #: 20130258

Material: Neoprene w/ Captive Brass Nut
Head Dia: .787
Length: .630
Hole: 1/2
Panel Thickness: 015-.094
Qty: 10



Well Nut
Art. No. 502.13004
OEM #: 528846

Thread: 1/4 - 20"
Hole Size: 1/2"
Grip Range: .015 - 111
AMC OEM #: 4003120
Qty: 25



Special Purpose Jack Nut
Art. No. 502.12999
OEM #: 14007940

Material: Zinc w/Raintite
Thread Size: M6-1.0
Qty: 10



Jack Nut
Art. No. 502.12995
OEM #: 367292

Material: Zinc with Sealer
Thread: 1/4"-20
Chrysler OEM #: 6031438
Qty: 25



Door Hinge Bushing
Art. No. 502.14550
OEM #: 9721917

Height: 19/64"
O.D.: 27/64"
Flange O.D.: 19/32"
I.D.: 11/32"
Ford OEM #: D1AZ-6522841A
Qty: 25



Washer Type Metric Self Threading Nut
Art. No. 502.12255
OEM #: 11501836

Material: Zinc
Stud: 6.3mm
Washer O.D.: 18mm
Hex: 11mm
Qty: 100



Metric Hex Flange Nut
Art. No. 502.11644
OEM #: 11501889

Material: Phosphate
Thread Size: M8-1.25
Washer O.D.: 17mm
Height: 8mm
Hex: 13mm
Qty: 50



Metric Free Spinning Washer Nut
Art. No. 502.15335
OEM #: 11503695, N621940

Material: Phosphate
Thread Size: M8-1.25
Type B
Washer O.D.: 24mm
Height: 10.5mm
Hex: 13mm
Qty: 25



Metric Free Spinning Washer Nut
Art. No. 502.12596
OEM #: 11503754, 11503756

Material: Phosphate
Thread Size: M6-1.0
Type A
Washer O.D.: 19mm
Height: 9.5mm
Hex: 11mm
Qty: 50



Metric Free Spinning Washer Nut
Art. No. 502.15334
OEM #: 11501800

Material: Phosphate
Thread Size: M8-1.25
Type B
Washer O.D.: 19mm
Height: 10mm
Hex: 13mm
Qty: 100

Pack sizes subject to change without notice

Some sizes and finishes available OnDemand

GM

HARDWARE/BODY BOLTS/SCREWS



Washer Type Self Threading Nut
Art. No. 502.12253
OEM #: 11501835

Material: Phosphate
 Stud: 5mm
 Washer O.D.: 15mm
 Hex: 10mm
Qty: 100



Extruded "U" Nut
Art. No. 502.11864
OEM #: 11503714, 11503716

Material: Phosphate
 Size: M6-1.0
 Panel Range: .80mm-4.00mm
 Center of Hole to Edge:13.5mm
Qty: 50



Extruded "U" Nut
Art. No. 502.12575
OEM #: 11503715, 11508241

Material: Phosphate
 Size: M6-1.0
 Panel Range: .80mm-4.0mm
 (.030"-.160")
 Center of Hole to Edge:19.5mm (25/32")
Qty: 50



Spring Type Fold Nut
Art. No. 502.11628
OEM #: 9433043, 11500658

Material: Phosphate
 Size: M6.3-1.0
 Panel Range: 80mm-4.00mm(.030"-.160")
 Center of Hole to Edge:13.5 mm (17/32")
Qty: 50



Spring Type "U" Nut
Art. No. 502.9879
OEM #: 9440178, 11504531, 381863-S2

Material: Phosphate
 Screw Size: 8
 Panel Range: .025"-.150"
 Center of Hole to Edge: 5/8"
Qty: 100



Extruded "U" Nut
Art. No. 502.8814
OEM #: 1494258, 379831-S

Material: Phosphate
 Screw Size: 5/16"-18
 Panel Range: .025"-.150"
 Center of Hole to Edge: 27/32"
Qty: 25



Extruded "U" Nuts
Art. No. 502.12666
OEM #: 11504978

Material: Zinc Organic Phosphate
 Screw Size: M6-1.0
 Panel Range: 1.0mm-5.0mm
 Center of Hole to Edge: 14.5mm
Qty: 25



Spring Type "U" Nut Extruded Locking
Art. No. 502.10066

Material: Phosphate
 Screw Size: #10
 Panel Range: .025-.125"
 Center of Hole to Edge: 11/32"
Qty: 50



1/4" (#14) Screw Size License Plate Nut
Art. No. 502.8435
OEM #: 4755299

Material: Nylon
Qty: 50



Spring Type "U" Nuts
Art. No. 502.9880
OEM #: 9424837, 9431530

Material: Phosphate
 Screw Size: #8
 Panel Range: .025"-.150"
 Center of Hole to Edge: 3/8"
 Ford OEM #: 381818-S2
Qty: 100



Extruded "U" Nuts
Art. No. 502.16322
OEM #: 14040999

Material: Phosphate
 Screw Size: M6-1.0
 Panel Range: 1.0mm-2.5mm
 Center of Hole to Edge: 19.5mm
Qty: 50

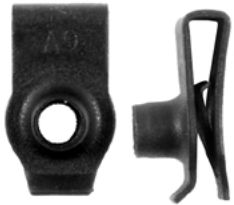


Extruded "U" Nut
Art. No. 502.18338
OEM #: 11505596

Material: Phosphate
 Size: FM5-8
 Panel Range: .60mm-3.8mm
 Center of Hole to Edge: 11mm
 Ford OEM #: N623331-S2
Qty: 45

GM

HARDWARE/BODY BOLTS/SCREWS



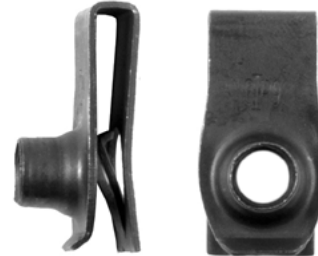
Metric U Nut
Art. No. 502.12669
OEM #: 1016937, 11503957
N623336-S2

Screw Size: M6-1.0
 Panel Range: .80mm-4.00mm
 Center Of Hole To Edge: 13.5mm (17/32")
Qty: 50



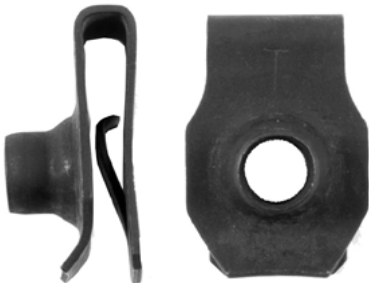
Extruded "U" Nut
Art. No. 502.11629
OEM #: 11500660, 11502617

Material: Phosphate
 Screw Size: M8-1.25
 Panel Range: .80mm-4.0mm (.30"-1.60")
 Center of Hole to Edge: 14.5mm (9/16")
 Ford OEM #: N623333-S2
Qty: 50



Extruded "U" Nut
Art. No. 502.11630
OEM #: 11500661, 11503317

Material: Phosphate
 Screw Size: M8-1.25
 Panel Range: .80mm-4.50mm (.30"-1.70")
 Center of Hole to Edge: 20mm (13/16")
 Ford OEM #: N6233343-S2 & S100
Qty: 50



Extruded "U" Nut
Art. No. 502.10054
OEM #: 1494254, 12337873, 45265-S2

Screw Size: 3/8"-16
 Panel Range: .050-.200"
 Center of Hole to Edge: 3/4
Qty: 25



Extruded "U" Nut
Art. No. 502.18339
OEM #: 11500663

Material: Zinc Organic
 Size: M10-1.5
 Panel Range: 1.5mm-5.5mm
 Center of Hole to Edge: 28mm
 Ford OEM #: N623344-S2
Qty: 10



Extruded "U" Nut M10-1.5
Art. No. 502.11631
OEM #: 1150-0662, 2253-1616

Screw Size: M10-1.50
 Panel Range: 1.0mm-6.0mm
 Center of Hole to Edge: 19mm
Qty: 25

GM
NYLON RIVETS


Blind Nylon Rivet
Art. No. 502.13750
OEM #: 14063981

Material: Black Nylon
 Hole: 1/4"
 Panel Range: 5/32"-13/32"
 Ford OEM #: N803043-S
 Chrysler OEM #: 6500911
Qty: 50



Blind Nylon Rivet
Art. No. 502.13747
OEM #: 20423647

Material: Black Nylon
 Hole: 13/64
 Panel Range: 1/16-11/64"
 Ford OEM #: N804189S
Qty: 25



Blind Nylon Rivet
Art. No. 502.13748
OEM #: 20432975

Material: Black Nylon
 Hole: 13/64"
 Panel Range: 1/8"-15/64"
 Volkswagen OEM #: 175-853-57701C
 Ford OEM #: N804343S
 Chrysler OEM #: 6503800
Qty: 25



Blind Nylon Rivet
Art. No. 502.13753
OEM #: 20433026

Material: Black Nylon
 Hole: 17/64"
 Panel Range: 3/32"-3/16"
 Volkswagen OEM #: 175-853-577A
Qty: 50



Blind Nylon Rivet
Art. No. 502.13751
OEM #: 10184895

Material: Black Nylon
 Hole: 1/4"
 Panel Range: 5/32"-13/32"
 Ford OEM #: N803866-S
 Chrysler OEM #: 6501559
Qty: 25



Blind Nylon Rivet
Art. No. 502.15490
OEM #: 10109689,12337915

Material: Black Nylon
 Hole: 9/32"
 Panel Range: 3/32"-15/64"
Qty: 100



Blind Nylon Rivet
Art. No. 502.13752
OEM #: 15955172, 20421672

Material: Black Nylon
 Hole: 17/64"
 Panel Range: 3/32"-3/16"
Qty: 25

GM
SPECIALTY RIVETS


Split-Type Rivet
Art. No. 502.20741
OEM #: 11516807

Material: Black Aluminum Rivet/
 Aluminum Mandrel
 Dia: 3/16"
 Grip: 3/64" - 23/64"
 Flange Dia: 5/8"
Qty: 25



Window Regulator Rivet
Art. No. 502.11620
OEM #: 9436175

Material: Aluminum
 Rivet, Steel Mandrel
 Dia: 1/4"
 Grip Range: 1/32"-9/64"
 Flange Dia: 1/2"
 GM 1971 - On
 Ford OEM #: 385189-S100
 Chrysler OEM #: 6031115
Qty: 50



Channel Retainer Rivet
Art. No. 502.17640
OEM #: 3540146, 3548011

Material: Steel Rivet &
 Mandrel (Zinc & Yellow Dichromate)
 Dia: 1/4"
 Flange Dia.: 3/4"
 Grip Range: .070-.083
Qty: 15



Window Regulator
Art. No. 502.12658
OEM #: 12338158, 20184399

Material: Aluminum Rivet/Steel
 Mandrel (Zinc/Yellow)
 Dia: 1/4"
 Flange Dia: 1/2"
 Grip Range: 11/16"-3/4"
 GM & Ford 1979 - On
 Ford OEM #: 389268-S100
Qty: 25



Blind Rivet
Art. No. 502.17641
OEM #: 9442361, 25609048

Material: Aluminum Rivet
 Steel Mandrel
 Dia: 3/16"
 Flange Dia: 9/16"
 Grip Range: 3/64"-13/64"
Qty: 25



**Aluminum Rivet Steel Mandrel
 Large Flange Multi-
 Purpose Rivet**
Art. No. 502.16686
OEM #: 9432552

Material: Aluminum Steel Mandrel
 Dia: 1/8"
 Grip: 1/8" - 3/16"
 Flange Dia: 3/8"
 GM 1978+/On
Qty: 100



Specialty Rivet
Art. No. 502.12657
OEM #: 9439719

Material: Steel Rivet (Black) & Steel
 Mandrel
 Dia: 3/16"
 Grip: 1/4"-3/8"
 Flange Dia: 5/8"
 Attaches Fascia To Underside Bumper
 GM 1981-On
Qty: 100

GM

SPECIALTY RIVETS



**Aluminum Rivet, Steel Mandrel
Countersunk Head Trunk Lock
Swivel Emblem Rivet**
Art. No. 502.16687
OEM #: 9432137

Material: Aluminum Steel Mandrel
Dia: 5/32"
Grip: 1/8"-3/16"
Flange Dia: 5/16"
Chrysler OEM #: 6032138
Qty: 100



**Split Type Rivet, Wheel House
Moulding & General Purpose**
Art. No. 502.17121
OEM #: 25618730

Material: Black Aluminum
Rivet/ Aluminum
Mandrel
Dia: 3/16"
Flange Dia: 7/16"
Grip Range: 5/64"-15/64"
Ford OEM #: N805596-S100
Qty: 25



Rivet Step Bumper
Art. No. 502.21124
OEM #: 11610383

Material: Steel, Zinc & Yellow
Dia: 1/4"
Grip: 1/64 - 1/8
Flange Dia: 1/2
GM Silverado & Sierra
Pick Ups 2007 - On
Qty: 25

HEADLIGHT/DOOR/WINDOW/HOOD ACCESSORIES



**Door Upper Hinge,
Splined O.D.
Bushing**
Art. No. 502.16936
**OEM #: 12338074, 15691493,
16632193**

Flange Dia: 43/64"
O.D.: 1/2"
I.D.: 11/32"
Height: 23/64"
GM Trucks C-K Models '88 & on
Qty: 25



**Door Lower Hinge,
Splined O.D.
Bushing**
Art. No. 502.16937
**OEM #: 15562609, 15964972,
16632192**

Flange Dia: 11/16"
O.D.: 17/32"
I.D.: 25/64"
Height: 23/64"
Qty: 25



Door Hinge Pin Retainer
Art. No. 502.17976
OEM #: 15562610

Material: Stainless Steel
Shoulder Dia: 1/64"
Washer O.D.: 9/16"
I.D.: 21/64"
Qty: 50



**Bushing, Sintered
Bronze, Type2**
Art. No. 502.14553
OEM #: 20429500

Flange Dia.: 19/32"
O.D.: 31/64"
I.D.: 11/32"
Height: 23/64"
All GM (including Vans and Pickups)
1968 - On
Qty: 25

GM

HEADLIGHT/DOOR/WINDOW/HOOD ACCESSORIES



Truck Door Hinge Pin & Bushing Repair Kit.
Art. No. 502.20485
OEM #: 89025539

GM
Qty: 1



Hood Insulation Retainer
Art. No. 502.20399
OEM #: W701374-S

Material: Black Nylon
 Bottom Head Dia: 3/4"
 Stem Dia: 7/32"
 Stem Length: 15/32"
 Ford Escape 2001-On
Qty: 25



Tailgate Rod Clip
Art. No. 502.18926
OEM #: 14037239, 15545178

Material: Natural Nylon
 Rod Size: 3/16"
 GM Trucks C, K, 1, 2, 3
 1981 - On
Qty: 10



Door Lock Rod Clip
Art. No. 502.18392
OEM #: 20582532

Material: Black Nylon
 Diameter Rod Size: 5/32"
 Gm, Pontiac, Chevrolet Caprice, Olds
 Custom Cruiser & Cutlass
Qty: 25



Door Lock Rod Clip
Art. No. 502.18393
OEM #: 20582533

Material: Natural Nylon
 Dia: 5/32"
 GM: Buick Regal & Roadmaster; Chevy
 Caprice; Olds Custom Cruiser/Cutlass;
 & Pontiac Grand Prix 1992 & on
Qty: 25



Door Lock Rod Clip
Art. No. 502.15518
OEM #: 4234830, 12337868

GM 1964 - On
Qty: 25



**Door & Window Crank
 Handle Retaining Clip.**
Art. No. 502.2288

Material: Zinc & Yellow
Qty: 100

GM

HEADLIGHT/DOOR/WINDOW/HOOD ACCESSORIES



Door Roller Pin Assembly
Art. No. 502.19725

Material: Zinc
Dia: 9/16"
Length: 5-1/2"
Roller O.D.: 3/4"
Roller Groove Dia: 5/8"
Knurl Dia: 19/32"
Qty: 1



Door Hinge Pin
Art. No. 502.17204
OEM #: 15591860, 15691595, 15967691, 88891731

Material: Stainless Steel
Pin Dia: 11/32"
Shoulder Dia: 3/8" O.D.
Head O.D.: 9/16"
Length: 5-1/4"
Qty: 5



Door Hinge Pin
Art. No. 502.14559
OEM #: 6271989, 20046147

Material: Phosphate
Head O.D.: 9/16"
Length: 4-1/16"
Pin Dia: 11/32"
Qty: 10



Door Hinge Pin
Art. No. 502.19781
OEM #: 15653790

Material: Zinc & Yellow
Length: 4-1/8"
Pin Dia: 11/32"
Shoulder O.D.: 3/8"
Head O.D.: 1/2"
Qty: 2

HONDA
INDEX

OEM No.	Art. No.	Type
66435-648-0000	500.14291	Retaining Clip
71144-SR3-A00	500.18415	Bumper Grommet
74846-659-0030	500.16779	Retaining Clip
75521-611-0000	500.14274	#10 Screw Size Grommet
75526-611-0000	500.14255	Screw Grommet
90107-SXO-003	500.19734	Bumper Grommet
90108-SW3-003	500.19470	Bumper Retainer
90114-SEO-000	500.20259	PH Truss Head Sems® Splash & Shield General Purpose¹
90505-SM4-003	500.17057	Push-Type Retainer
90505-SXO-003	500.19453	Garnish Side Protector Push-Type Retainer
90654-SA4-003	500.19730	Wire Routing Clip
90661-SC7-0030	500.14695	Screw Grommet #8
90666-671-0030	500.14313	Clip
90666-693-003	500.14281	Screw Grommet
90664-671-0030	500.14328	Weatherstrip Retainer
90666-SA0-0030	500.14289	Retainer
90667-SA7-0030	500.16775	Trim Panel Retainer
90667-SA0-0030	500.16776	Trim Panel Retainer
90667-SOD-003ZC	500.20334	Trunk Garnish Retainer
90670-SG0-003	500.19741	Door Panel Screw Grommet
90676-SA7-003	500.17058	Headlight Adjusting Screw Nut
90686-SEA-003	500.20954	Fender Apron Screw Grommet
90683-SA5-003	500.19311	Front Fender Skirt Push-Type Retainer
90684-SA5-0030	500.14696	Push Type Retainer
90687-SA5-0030	500.896715	Retaining Clip
90687-SBO-003	500.17287	Cowl Vent Panel Retainer
90687-SBO-013	500.17287	Cowl Vent Panel Retainer
90688-SBO-003	500.14698	Push-Type Retainer
90700-SB6-003	500.15998	Hood Insulation Retainer
91501-S04-003	500.19118	Front Fender Retainer
91501-S1K-003	500.20609	Hood Insulation Retainer
91501-SEA-003	500.20882	Cowl & Garnish Retainer
91501-SM4-003	500.17205	Cowl Top Retaining Clip
91506-SM4-000	500.17143	Push-Type Retainer
91506-SP0-003	500.18119	Front & Rear Bumper Push-Type Retainer
91503-S0K-A01	500.20608	Grille Mounting Push-Type Retainer
91503-SZ3-003	500.19233	Front Bumper Push Type Retainer
91503-SZ5-003	500.20564	Front & Rear Bumper Push-Type Retainer
91504-SM4-000	500.17144	Push-Type Retainer
9156-S9A-003	500.21173	Push-Type Retainer
91508-SM4-003	500.17192	Cowl Panel Retainer
91508-SR3-000	500.18165	Cowl Grille Panel Push Type Retainer
91516-SM-4-003	500.17379	Fender Splash Shield Retainer
91516-SR3-004	500.20472	Tubular Nut
91516-SX0-003	500.19239	Front Fender Push-Type Retainer
91513-SM4-000	500.17096	Rocker Panel Moulding w/Sealer Washer
91516-SK7-013	500.17350	Splash Shield Push-Type Retainer PH Drive
91518-S10-003	500.19682	Hood Seal Retaining Clip Head
91518-SM4-003	500.19114	Hood/Trunk Molding Retaining Clip
91520-SM4-C010	500.18114	Hood Insulation Retaining Clip
91524-SE0-003	500.17081	Cowl Push-Type Retainer
91527-SM4-003	500.19415	Belt Moulding Clip
91527-SZ3-003	500.19415	Belt Moulding Clip
91530-SP1-003	500.18877	Weatherstrip Retainer
91530-ST5-003	500.19116	Weatherstrip Retainer
91545-SE0-0030-W1	500.16782	Push-Type Retainer
91560-SP0-003	500.19145	Front & Rear Door Trim Panel Retainer
91561-S84-A00-M1	500.20352	Rear Panel Assembly Push-Type Retainer
91561-S84-A01	500.19415	Belt Moulding Clip
91566-SP0-003	500.18294	Retainer-Seat Panel
91578-SV4-003	500.18457	Radiator Grille Clip
91626-SH3-003	500.19741	Door Panel Screw Grommet
MR200300(Mitsubishi)	500.20247	Fender & Bumper Retainer

ACURA

INDEX - PREFIX 500

OEM No.	Art. No.	Description
90505-SL0-003	500.19140	Push-Type Retainer
90657-SB0-003	500.19186	Front Bumper Cover Push-Type Retainer
90666-SA7-003ZW	500.19506	Trunk Lining Retainer
90700-SJ4-000	500.18746	Hood Insulation Retainer
91506-SZ5-003	500.19232	Front Fender Push-Type Retainer
91503-SP0-003	500.17267	Front & Rear Bumper Push-Type Retainer
91503-SZ3-003	500.19233	Front Bumper Push-Type Retainer
91516-SX0-003	500.19239	Front Fender Push-Type Retainer
91560-SZ3-003	500.19466	Door Trim Panel Retainer

HONDA/ACURA

RETAINERS



Splash Shield Push-Type Retainer
PH Drive
Art. No. 500.17350
OEM #: 91516-SK7-013

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 15mm
 Fits Into: 8mm Hole
 10mm Hex
 Civic 1992 - On
Qty: 20



Front & Rear Bumper Push-Type Retainer
Art. No. 500.18119
OEM #: 91506-SP0-003

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 25mm
 Fits Into: 10mm Hole
 Honda 1990 - On
Qty: 10



Hood Insulation Retainer
Art. No. 500.18746
OEM #: 90700-SJ4-000

Material: Black Nylon
 Head Dia: 30mm
 Stem Dia: 15mm x 18mm
 Stem Length: 10mm
 Acura Legend 1991 - On
 Honda 1998 - On
Qty: 25

HONDA/ACURA RETAINERS


Push-Type Retainer
Art. No. 500.19140
OEM #: 90505-SL0-003

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 21mm
 Fits Into: 8mm Hole
 1993 - On
 Acura, Dodge Avenger, Eagle
 Talon, Geo Prizm, Mitsubishi Eclipse
 & Galant, Toyota 1993 - On
 Mitsubishi OEM #: MB888869
 GM OEM #: 94852368
 Toyota OEM #: 90467-08155
Qty: 10



**Front Bumper Cover
 Push-Type Retainer**
Art. No. 500.19186
OEM #: 90657-SB0-003

Material: Black Nylon
 Head Dia: 11mm
 Stem Length: 10mm
 Fits Into: 8mm Hole
 Acura Legend, Honda Accord & Odys-
 sey
 1991 - On
Qty: 10



**Front & Rear Bumper
 Push-Type Retainer**
Art. No. 500.17267
OEM #: 91503-SPO-003

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 15mm
 Fits Into: 10mm Hole
 Legend 1991 - On
Qty: 25



**Front Bumper Push-
 Type Retainer**
Art. No. 500.19233
OEM #: 91503-SZ3-003

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 13mm
 Fits Into: 10mm Hole
 Acura 3.5 RL Sedan & Honda
 1996 - On
Qty: 25



Front Fender Push-Type Retainer
Art. No. 500.19239
OEM #: 91516-SX0-003

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 11mm
 Fits Into: 8mm Hole
 Acura 3.5RL, Honda Accord, Prelude &
 Odyssey 1994 - On
 GM 1997 - On
 Mitsubishi Lancer 2002 - On
Qty: 25



Door Trim Panel Retainer
Art. No. 500.19466
OEM #: 91560-SZ3-003

Material: White Nylon
 Stem Dia: 9.5mm
 Stem Length: 12mm
 Small Head Dia: 13mm
 Large Head Dia: 17mm
 Acura 3.5RL 1996 - On
Qty: 25



Front Fender Push-Type Retainer
Art. No. 500.19232
OEM #: 91506-SZ5-003

Material: Black Nylon
 Head Dia: 17mm
 Stem Length: 13mm
 Fits Into: 7mm Hole
 3.5 RL Sedan 1996 - On
Qty: 10



Trunk Lining Retainer
Art. No. 500.19506
OEM #: 90666-SA7-003ZW

Material: Black Nylon
 Head Dia: 16mm
 Stem Dia: 5mm
 Stem Length: 16mm
 Acura 2.5TL, 3.2TL, 3.5,
 Integra & Legend,
 Honda Accord Wagon &
 Prelude 1987 - On
Qty: 25

HONDA/ACURA RETAINERS



Black Nylon Rocker Moulding Push-Type Retainer
Art. No. 502.22482
OEM#: 91514-TF0-003

Head Diameter: 18mm
 Stem Length: 13mm
 Fits into 9mm Square Hole
Qty: 25



Black Nylon Inner Fender Wheel Well Retainer Head
Art. No. 502.22514
OEM#: 91512-SED-003

Diameter: 18mm
 Stem Diameter: 4.1mm
 Stem Length: 16mm
Qty: 25



Black Nylon Weatherstrip Retainer
Art. No. 502.22541
OEM#: 91563-TG7-A00

Head Diameter: 12mm
 Stem Diameter: 8mm
 Stem Length: 10mm
Qty: 100



Black Nylon Cowl Vent Retaining Clip
Art. No. 502.22560
OEM#: 90602-SJK-003

Top Head: 14mm x 16mm
 Bottom Head Diameter: 16mm
 Stem Size: 8mm x 10mm
 Stem Length: 13mm
Qty: 20



Gray Nylon Tail Light Screw Grommet With Sealer
Art. No. 502.22547
OEM#: 91626-STK-A01

Head Diameter: 18mm
 Stem Length: 14mm
 Overall Length: 16mm
Qty: 25



Yellow Nylon Garnish Retainer with Sealer
Art. No. 502.22499
OEM#: 91560-TX4-A01

Top Head Diameter: 13mm
 Middle Head Diameter: 16.3mm
 Bottom Head Diameter: 18mm
 Stem Diameter: 9.5mm
 Stem Length: 13mm
Qty: 25



Green Nylon Garnish Retainer With Sealer
Art. No. 502.22544
OEM#: 91560-TG1-T01

Top Head Diameter: 13mm
 Middle Head Diameter: 16.5mm
 Bottom Head Diameter: 18mm
 Stem Diameter: 9.3mm
 Stem Length: 12mm
Qty: 25



Tan Nylon Garnish Retainer with Sealer
Art. No. 502.22545
OEM#: 91560-TL0-G21

Top Head Diameter: 13mm
 Middle Head Diameter: 16.5mm
 Bottom Head Diameter: 18mm
 Stem Diameter: 9mm
 Stem Length: 9mm
Qty: 25



Black Nylon Weatherstrip Retainer
Art. No. 502.22553
OEM#: 90651-T2M-003

Head Size: 4mm x 10mm
 Stem Diameter: 6.5mm
 Stem Length: 7mm
Qty: 25



Black Nylon Door Seal Retainer
Art. No. 502.22586
OEM#: 90651-TG7-000

Head Diameter: 10.6mm
 Stem Diameter: 5.5mm
 Stem Length: 8mm
Qty: 50



Black Nylon Engine Cover Retainer
Art. No. 502.22588
OEM#: 91547-TZ5-A02

Top Head Diameter: 13mm
 Bottom Head Diameter: 14mm
 Stem Length: 17mm
 Overall Length: 22mm
Qty: 50



Black Metal Nylon, Front Fender Liner & Engine Cover Push-Type Retainer, Phillips Truss Head Stainless Steel Screw
Art. No. 502.22434
OEM#: 91514-SLN-A01

Head Diameter: 15.5mm
 Grommet Head: 19.3mm x 19.3mm
 Stem Length: 10mm
 Fits into 10mm Hole
Qty: 10

HONDA/ACURA RETAINERS



Weatherstrip Retainer
Art. No. 500.19116
OEM #: 91530-ST5-003

Material: Natural Nylon
 Head Size: 5mm x 15mm
 Stem Length: 10mm
 Fits Into: 6mm Hole
Qty: 25



Weatherstrip Retainer
Art. No. 500.18877
OEM #: 91530-SP1-003

Material: Red Nylon
 Head Size: 5mm x 15mm
 Stem Length: 10mm
 Fits Into: 6mm Hole
 Acura 3.5 RL & Honda Accord, Civic,
 & Odyssey 1992 - On
Qty: 25



Weatherstrip Retainer
Art. No. 500.14328
OEM #: 90664-671-0030

Material: White Nylon
 Width: 7mm
 Length: 16mm
 Stem Length: 10mm
 Fits Into: 5mm Hole
Qty: 75



Retainer-Seat Panel
Art. No. 500.18294
OEM #: 91566-SP0-003

Material: White Nylon
 Small Head Dia: 13mm
 Large Head Dia: 18mm
 Stem Length: 14mm
 Fits Into: 9mm Hole
Qty: 25



Front Fender
Art. No. 500.19118
OEM #: 91501-S04-003

Material: Black Nylon
 Head Dia.: 20mm
 Stem Length: 10mm
Qty: 25



Front Bumper Push-Type Retainer
Art. No. 500.19233
OEM #: 91503-SZ3-003

Material: Black Nylon
 Head Dia.: 20mm
 Stem Length: 13mm
 Fits Into: 10mm
 Acura OEM #: 91503-SZ3-003
Qty: 25



Cowl Grille Panel Push Type Retainer
Art. No. 500.18165
OEM #: 91508-SR3-000

Material: Black Nylon
 Head Dia.: 17.5mm
 Stem Length: 9mm
 Fits Into: 8mm Hole
Qty: 10



Retaining Clip
Art. No. 500.16779
OEM #: 74846-659-0030

HONDA
 Material: Black Nylon
 Bottom Head Dia: 18mm
 Stem Dia: 11mm
 Stem Length: 15mm
 Toyota OEM #: 90467-12078
Qty: 25



Cowl Vent Panel Retainer
Art. No. 500.17287
OEM #: 90687-SBO-003, 90687-SBO-013

Material: Black Nylon
 Head Dia: 13mm
 Stem Length: 11mm
 Fits Into: 6mm Hole
Qty: 50



Cowl Push-Type Retainer
Art. No. 500.17081
OEM #: 91524-SE0-003

Material: Black Nylon
 Head Dia: 18mm
 Stem Length: 12mm
 Fits Into: 6mm Hole
Qty: 25



Fender Splash Shield Retainer
Art. No. 500.17379
OEM #: 91516-SM-4-003

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 9mm
 Fits Into: 8mm Hole
Qty: 25



Push-Type Retainer
Art. No. 500.16782
OEM #: 91545-SE0-0030-W1

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 14mm
 Fits Into: 8mm Hole
 Nissan OEM #: 63848-01G00
Qty: 25

HONDA/ACURA RETAINERS



Retainer
Art. No. 500.14289
OEM #: 90666-SAO-0030

Material: Black Nylon
 Bottom Head Dia: 13mm
 Stem Dia: 5mm
 Stem Length: 16mm
Qty: 100



Trim Panel Retainer
Art. No. 500.16776
OEM #: 90667-SAO-0030

Material: Black Nylon
 Bottom Head Dia: 18mm
 Stem Dia: 7.5mm
 Stem Length: 20mm
 Nissan OEM #: 76996-01P02
Qty: 25



Cowl & Garnish Retainer
Art. No. 500.20882
OEM #: 91501-SEA-003

HONDA
 Material: Black Nylon
 Bottom Head Dia: 20mm
 Stem Dia: 7mm
 Stem Length: 15mm
 Honda Civic 2006 - On
Qty: 25



Push-Type Retainer
Art. No. 500.17143
OEM #: 91506-SM4-000

HONDA
 Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 27mm
 Fits Into: 10mm Hole
 Bumper Fascia, Accord 1990 - On
Qty: 50



Bumper & Splash Shield Push-Type Retainer with Metal Insert
Art. No. 500.21173
OEM #: 9156-S9A-003

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 16mm
 Fits Into: 10mm Hole
 Acura MDX, RDX & TSX and Honda Accord, Civic CR-V & Fit 2009 - 04
Qty: 10



Fender & Bumper Retainer
Art. No. 500.20247

Material: Black Nylon
 Head Dia: 18mm
 Stem Length: 12mm
 Fits Into: 9mm Hole
 Mitsubishi OEM #: MR200300
Qty: 15



Cowl Panel Retainer
Art. No. 500.17192
OEM #: 91508-SM4-003

Material: Black Nylon
 Head Dia: 18mm
 Stem Length: 14mm
 Fits Into: 8mm Hole
Qty: 10



Push Type Retainer
Art. No. 500.14696
OEM #: 90684-SA5-0030

Material: Black Nylon
 Head Dia: 15mm
 Stem Length: 11mm
 Fits Into: 6mm Hole
 Nissan OEM #: 10998-30880
 Isuzu OEM #: 8942981190
Qty: 50



Hood Seal Retaining Clip
Art. No. 500.19682
OEM #: 91518-S10-003

Material: Black Nylon
 Dia.: 11mm
 Stem Length: 8mm
 Fits Into: 6mm Hole
Qty: 25



Hood/Trunk Molding Retaining Clip
Art. No. 500.19114
OEM #: 91518-SM4-003

Material: Black Nylon
 Head Dia: 12mm
 Stem Length: 9mm
 Fits Into: 6mm
 Acura Integra & Honda Civic 1994 - On
Qty: 30



Hood Insulation Retaining Clip
Art. No. 500.18114
OEM #: 91520-SM4-C010

Material: Black Nylon
 Head Dia: 10mm
 Stem Length: 10mm
 Hole: 6mm
 Panel Thick.: 4mm
 Honda & Acura 1990 - On
Qty: 50



Front Fender
Art. No. 500.19239
OEM #: 91516-SX0-003

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 11mm
 Acura 3.5RL, Honda Accord, Prelude & Odyssey 1994 - On
 GM 1997 - On
 Mitsubishi Lancer 2002 - On
 GM OEM #: 11519949
 Mitsubishi OEM #: MU000319
Qty: 25

HONDA/ACURA RETAINERS



Rear Bumper Retainer
Art. No. 500.19470
OEM #: 90108-SW3-003

Material: Blue Nylon
 Bottom Head Dia: 16mm
 Stem Dia: 4mm
 Stem Length: 21mm
 Honda Accord, Odyssey & Prelude 1995-On
Qty: 25



Retaining Clip
Art. No. 500.896715
OEM #: 90687-SA5-0030

Material: Black Nylon
 Head Dia.: 13mm
 Stem Length: 15mm
 Panel Thick.: 4mm
 Fits Into: Snaps into a 5mm
Qty: 25



Hood Insulation Retainer
Art. No. 500.15998
OEM #: 90700-SB6-003

Material: Black Nylon
 Head Dia.: 30mm
 Stem Length: 9mm
 Fits Into: 6mm Hole
 Honda Prelude 1985 - On
Qty: 30



Push-Type Retainer
Art. No. 500.17144
OEM #: 91504-SM4-000

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 24mm
 Fits Into: 10mm Hole
 Bumper Fascia Accord 1990 - On
Qty: 25



Retaining Clip
Art. No. 500.14291
OEM #: 66435-648-0000

Material: Black Nylon
 Head Dia: 11mm
 Stem Length: 13mm
 Fits Into: Snaps into 5mm
 Panel Thick.: 5mm
Qty: 25



Trim Panel Retainer
Art. No. 500.16775
OEM #: 90667-SA7-0030

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 15mm
 Fits Into: 5mm Hole
 Nissan OEM #: 89427-98070
Qty: 25



Front & Rear Door Trim Panel Retainer
Art. No. 500.19145
OEM #: 91560-SP0-003

Material: Grey Nylon
 Head Dia: Bottom:17mm-Lg
 Top:13mm-5m
 Stem Dia: 9mm
 Stem Length: 12mm
Qty: 25



Hood Insulation Retainer
Art. No. 500.20609
OEM #: 91501-S1K-003

Material: Black Nylon
 Bottom Head Dia: 30mm
 Stem Dia: 15mm x 20mm
 Stem Length: 14mm
 Acura 3.5RL & RSX and Honda Civic & CR-V 2000 - On
Qty: 25



Trunk Garnish Retainer
Art. No. 500.20334
OEM #: 90667-SOD-003ZC

Material: Black Nylon
 Head Dia.: 18mm
 Stem Dia.: 7.5mm Sq.
 Stem Length: 20mm
Qty: 15



Push-Type Retainer
Art. No. 500.14698
OEM #: 90688-SB0-003

Material: Black Nylon
 Head Dia: 18mm
 Stem Length: 11mm
 Fits Into: 6mm Hole
 Acura & Honda
Qty: 50



Cowl Top Retaining Clip
Art. No. 500.17205
OEM #: 91501-SM4-003

Material: Black Nylon
 Head Dia: 14mm
 Stem Length: 15mm
 Fits Into: 6mm Hole
Qty: 25



Grille Mounting Push-Type Retainer
Art. No. 500.20608
OEM #: 91503-S0K-A01

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 14mm
 Fits Into: 10mm Hole
 Element 2003 - On
Qty: 25

Pack sizes subject to change without notice

Some sizes and finishes available OnDemand

HONDA/ACURA RETAINERS



Push-Type Retainer
Art. No. 500.17057
OEM #: 90505-SM4-003

Material: Black Nylon
 Head Dia: 18mm
 Stem Length: 21mm
 Fits Into: 8mm Hole
 Accord 1990 - On
Qty: 10



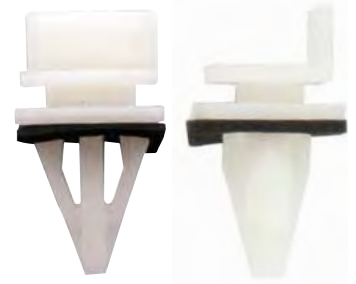
**Rear Panel Assembly
 Push-Type Retainer**
Art. No. 500.20352
OEM #: 91561-S84-A00-M1

Material: Black Nylon
 Head Dia: 16mm
 Stem Length: 21mm
 Fits Into: 8mm Hole
Qty: 10



**Front & Rear Bumper
 Push-Type Retainer**
Art. No. 500.20564
OEM #: 91503-SZ5-003

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 18mm
 Fits Into: 10mm Hole
 Acura 3.5RL and Honda
 Accord & Odyssey
 1996 - On
Qty: 30



**Rocker Panel Moulding
 w/Sealer Washer**
Art. No. 500.17096
OEM #: 91513-SM4-000

Material: Nylon
 Width: 20mm
 Length: 20mm
 Fits Into: 12mm Hole
Qty: 10



**Front Fender Skirt
 Push-Type Retainer**
Art. No. 500.19311
OEM #: 90683-SA5-003

Material: Black Nylon
 Head Dia: 15mm
 Stem Length: 13mm
 Fits Into: 6mm Hole
 Prelude 1996 - 92
Qty: 15



**Black Nylon Rear Bumper
 Garnish Retainer**
Art. No. 502.22469
OEM#: 90651-T3L-003

Top Head Diameter: 13mm
 Middle Head Diameter: 16.5mm
 Bottom Head Diameter: 18mm
 Stem Diameter: 9.3mm
 Stem Length: 14mm
Qty: 25



**Natural Nylon Door Panel
 & Weatherstrip Retainer**
Art. No. 502.22551
OEM#: 90651-TA0-003

Top Head: 5mm x 12mm
 Bottom Head Diameter: 12mm
 Stem Diameter: 6mm
 Stem Length: 4.5mm
Qty: 50



**Garnish Side Protector
 Push-Type Retainer**
Art. No. 500.19453
OEM #: 90505-SX0-003

Material: Black Nylon
 Head Dia: 18mm
 Stem Length: 15mm (not
 including the pin)
 Fits Into: 8mm Hole
 Odyssey 1995 - On
Qty: 25

HONDA/ACURA

SCREW GROMMETS



#10 Screw Size
Art. No. 500.14274
OEM #: 75521-611-0000

Material: Natural Nylon
 13mm Wide, 13mm Long
 Snaps Into: 8.5mm x 8.5mm Hole
 Mazda OEM #: 9991-00-601
 Nissan OEM #: 9676-P0105
 Toyota OEM #: 90189-06010
Qty: 100



Screw Grommet #8 Screw Size
Art. No. 500.14695
OEM #: 90661-SC7-0030

Material: White Nylon
 Head Dia: 16mm
 Stem Length: 17mm
 Fits Into: 8mm x 8mm Hole
 Toyota OEM #: 90189-06042
 Nissan OEM #: 01651-00481
 Mazda OEM #: H001-50-841
 Mitsubishi OEM #: MS-480012
Qty: 50



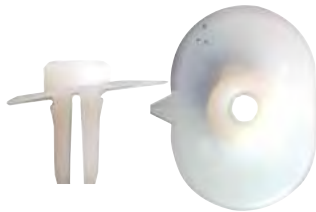
Clip
Art. No. 500.14313
OEM #: 90666-671-0030

Material: Natural Nylon
 Screw Size: #10
 Length: 17mm
 Width: 17mm
 Fits Into: 8mm x 8.5mm Hole
 Nissan OEM #: 68425-H5000
 Mazda OEM #: 9991-00-503
Qty: 50



Screw Grommet
Art. No. 500.14281
OEM #: 90666-693-003

Material: White Nylon
 Screw Size: #6
 Head Dia: 14mm
 Stem Length: 10mm
 Fits Into: 7mm x 7mm Hole
 Toyota OEM #: 90189-04066
Qty: 25



Bumper Grommet
Art. No. 500.18415
OEM #: 71144-SR3-A00

Material: Natural Nylon
 Screw Size: #8
 Honda Civic 1993 - On
Qty: 25



Screw Grommet
Art. No. 500.14255
OEM #: 75526-611-0000

Material: Black Nylon
 Screw Size: #8
 9.5mm Wide, 9.5mm Long
 Snaps Into: 7mm x 7mm Hole
 Mazda OEM #: 9991-00-412
 Mitsubishi OEM #: MS-480001
Qty: 50



Bumper Grommet
Art. No. 500.19734
OEM #: 90107-SXO-003

Material: Black Nylon
 Screw Size: #10
 Acura 2.2CL, 2.3CL,
 2.5TL, 3.2TL, & 3.5RL
 Honda Accord & Prelude
 1996 - On
Qty: 15



Door Panel Screw Grommet
Art. No. 500.19741
OEM #: 90670-SG0-003, 91626-SH3-003

Material: Natural Nylon
 Screw Size: #8 (M4.2)
 Head Dia: 12mm
 Stem Length: 16mm
 Fits Into: 7mm x 7mm Hole
 Civic & CR-V 1993 - On
Qty: 15



Headlight Adjusting Screw Nut
Art. No. 500.17058
OEM #: 90676-SA7-003

Material: Natural Nylon
 Screw Size: M5-.8
 Prelude & Accord 1986 - On
Qty: 25



Fender Apron Screw Grommet
Art. No. 500.20954
OEM #: 90686-SEA-003

Material: Black Nylon
 Screw Size: #8 (M4.2)
 Head Dia: 20mm
 Stem Length: 12mm
 Fits Into: 9mm Square Hole
 Acura TSX and Honda
 Civic & Odyssey
 2004 - On
Qty: 50



Clear Nylon Rear Tail Light Grommet Head
Art. No. 502.22365
OEM #: 90650-S5A-003

Diameter: 18.5mm
 Stem Length: 24mm
 Overall Length: 25mm
Qty: 25

HONDA/ACURA
SPECIALTY CLIPS/MOULDING CLIPS

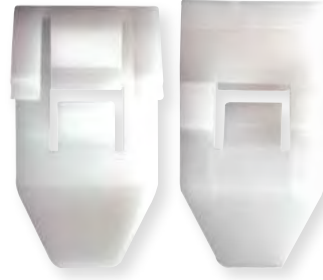

Radiator Grille Clip
Art. No. 500.18457
OEM #: 91578-SV4-003

Material: Nylon
 Accord, 1994 - On
Qty: 10



Wire Routing Clip
Art. No. 500.19730
OEM #: 90654-SA4-003

Material: Natural Nylon
 Holds 6mm Diameter Wire
 Fits Into: 7mm Hole
 Civic 1998 - On
Qty: 15



Belt Moulding Clip
Art. No. 500.19415
OEM #: 91527-SM4-003, 91527-SZ3-003, 91561-S84-A01

Material: White Nylon
 Accord & Odyssey 1990-On
Qty: 10



Black Nylon Hood Release Cable Clip
Art. No. 502.22518
OEM#: 91504-SDA-003

Holds 5mm Diameter
 Cable Stem Length: 6.5mm
 Fits into 7mm Hole
Qty: 25



Dark Gray Nylon Engine Cover Grommet
Art. No. 502.22599
OEM#: 91548-TZ5-A02

Head Size: 22mm x 14mm
 Stem Size: 13.5mm x 7.6mm
 Stem Length: 16mm
Qty: 25



Black Nylon Hood Prop Rod Clip
Art. No. 502.22548
OEM#: 90672-SNA-A01

Holds 8mm Rod
 Head Diameter: 18mm
 Stem Length: 10mm
 Overall Length: 26.5mm
Qty: 25



Green Nylon Door Belt Moulding Clip
Art. No. 502.22466
OEM#: 91503-SWA-A01

Width: 20mm
 Length: 38mm
Qty: 25



White Nylon Grille Clip
Art. No. 502.22546
OEM#: 90666-SDA-A01

Width Across Center Ears: 9mm
 Width Across Bottom Ears: 11mm
 Overall Height: 16.5mm
Qty: 25



Gray Nylon Pillar Garnish Clip
Art. No. 502.22467
OEM#: 91213-SZA-A01

Top Head Size: 7mm x 7mm
 Bottom Head Size: 10mm x 19mm
 Stem Length: 6mm
Qty: 30



Black Nylon Wheel Well Arch Protective Liner Moulding Clip with Sealer
Art. No. 502.22463
OEM#: 91513-T0A-A01

Top Head Size: 10mm x 10mm
 Bottom Head Size: 10mm x 19mm
 Stem Length: 11.5mm
Qty: 25



White Nylon Lower Door Garnish Moulding Clip with Sealer
Art. No. 502.22464
OEM#: 75316-TP6-A01

Top Head Size: 10mm x 12mm
 Bottom Head Size: 16mm x 21mm
 Stem Length: 9mm
 Fits into 10mm Hole
Qty: 25

HONDA/ACURA
SPECIALTY CLIPS/MOULDING CLIPS


**White Nylon Upper Side Sill
Garnish Clip with Sealer**
Art. No. 502.22468
OEM#: 91514-SYP-003

Top Head Size: 18mm x 16mm
Bottom Head Size: 22mm x 20mm
Stem Length: 7mm
Qty: 25

HONDA/ACURA
HARDWARE/BODY BOLTS/SCREWS


**PH Truss Head Sems® Splash
& Shield General Purpose'**
Art. No. 500.20259
OEM #: 90114-SEO-000

Material: Black E-coat
Dia: M4.8-1.6 x 19mm
Washer O.D.: 16mm
Stem Length: 19mm
Qty: 25

**Tubular Nut with Sealer
& Sealed End
For 3mm Stud**
Art. No. 500.20472
OEM #: 91516-SR3-004

Material: White Nylon
Head Dia: 8.5mm
Fits Into: 6mm Hole
Qty: 20

HONDA/ACURA
MISCELLANEOUS


Releasable Cable Strap
Art. No. 500.14298
OEM #: 90676-SA0-0030

Material: Nylon
Overall Length: 140mm (5-1/2")
Max. Bundle Dia: 30mm
Fits Into: 7mm Hole
Mazda OEM #: 9928-91-053
Qty: 25

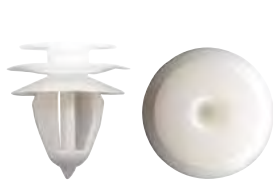
HYUNDAI/KIA

INDEX

OEM No.	Art. No.	Type
81126-37010	500.20543	Hood Insulation Retainer
82315-38000	500.21070	Trim Panel Retainer
87756-2E000	500.21136	Moulding Clip with Sealer
87756-38000	500.20567	Body Side Moulding Clip with Sealer
87756-3D000	500.20566	Body Side Moulding Clip with Sealer
87758-37000	500.21066	Fender & Rocker Moulding Nylon Nut with Sealer
87758-3D000	500.20568	Rocker Panel Clip with Sealer
92351-37000	500.21069	Headlight Assembly Grommet
OG032-50037-A	500.21146	Bumper, Fender, Grille, Interior & Exterior Trim and Pillar Push-Type Retainer

HYUNDAI/KIA

RETAINERS



Trim Panel Retainer
Art. No. 500.21070
OEM #: 82315-38000

Material: White Nylon
 Head Dia: 16mm
 Top Head Dia: 13mm
 Stem Dia: 9.5mm
 Stem Length: 10mm
 Chevrolet Aveo 2004 - On
 Hyundai Accent, Santa Fe, Sonata
 Tiburon & XG300/350 1999 - On
 and Kia Optima, Rio & Sorento 2001
 - On
 GM OEM #: 94530565
Qty: 25



**Bumper, Fender, Grille, Interior
 & Exterior Trim and Pillar
 Push-Type Retainer**
Art. No. 500.21146
OEM #: OG036-50037-A

Material: Black Nylon
 Head Dia: 18mm
 Stem Length: 12mm
 Fits Into: 8mm Hole
 Kia Amanti, Magentis, Optima, Rio,
 Sedona,
 Sephia, Sorrento, Spectra & Sportage
 2000 - On
Qty: 15



**Black Nylon Trunk
 Trim Retainer**
Art. No. 502.22555
OEM#: 0B102-68865

Head Diameter: 20mm
 Stem Diameter: 7mm
 Stem Length: 13mm
Qty: 25



**Black Nylon Bumper Cover
 Push-Type Retainer**
Art. No. 502.22595
OEM#: 86590-1W000

Head Diameter: 18mm
 Stem Length: 11mm
 Fits Into 8mm Hole
Qty: 25



**Red Nylon
 Weatherstrip Retainer**
Art. No. 502.22526
OEM#: 82133-37000

Head Size: 5mm x 13mm
 Stem Diameter: 5.5mm
 Stem Length: 6mm
Qty: 50

HYUNDAI/KIA
SPECIALTY CLIPS/MOULDING CLIPS


Black Nylon Rear Fender Liner Plug
Art. No. 502.22505
OEM#: 86825-26000

Head Diameter: 30mm
 Overall Height: 16.5mm
Qty: 30



Black Nylon Hood Prop Rod Clip
Art. No. 502.22507
OEM#: 81174-21000,
81174-11011 & 81174-21010

Bottom Base Size: 20mm x 20mm
 Stem Length: 9mm
 Overall Length: 25mm
Qty: 25



Black Nylon Hood Prop Rod Clip
Art. No. 502.22506
OEM#: 81174-2L000

Width: 20mm
 Length: 24mm
 Holds 8mm Rod
Qty: 25



White Nylon Door Trim, Roof & Spoiler Moulding Clip with Sealer
Art. No. 502.22438
OEM#: 87715-3K000

Head Size: 9mm x 18.3mm
 Stem Length: 10mm
Qty: 25



Gray Nylon Liftgate Moulding Clip with Sealer
Art. No. 502.22366
OEM#: 87382-2W000

Top Head Size: 10mm x 12mm
 Bottom Head Size: 14mm x 20mm
 Stem Length: 12mm
 Overall Length: 16mm
Qty: 25



White Nylon Fender, Body Side & Rocker Moulding Clip with Sealer
Art. No. 502.22470
OEM#: 87716-2W000

Top Head Size: 10mm x 12mm
 Bottom Head Size: 14mm x 20mm
 Stem Length: 11mm
Qty: 50

HYUNDAI/KIA
SPECIALTY CLIPS/MOULDING CLIPS


Moulding Clip with Sealer
Art. No. 500.21136
OEM #: 87756-2E000

Material: White Nylon
 Top Head Size: 10mm x 12mm
 Bottom Head Size: 14mm x 20mm
 Stem Length: 10mm
 Hyundai Entourage, Tucson & Veracruz
 and Kia Optima, Sedona, Spectra &
 Sportage
 2005 - On
Qty: 15



Body Side Moulding Clip with Sealer
Art. No. 500.20567
OEM #: 87756-38000

Material: Black Nylon
 Small Head Size: 8mm x 9mm
 Large Head Size: 14mm x 18mm
 Stem Length: 10mm
 Elantra & Sonata 2002 - On
Qty: 30



Body Side Moulding Clip with Sealer
Art. No. 500.20566
OEM #: 87756-3D000

Material: White Nylon
 Head Size: 14mm x 14mm
 Stem Length: 10mm
 M4.2 (#8) Screw Size
 Elantra & Sonata 2002 - On
Qty: 15



Rocker Panel Clip with Sealer
Art. No. 500.20568
OEM #: 87758-3D000

Material: Yellow Nylon
 Top Head Size: 16mm x 20mm
 Bottom Head Size: 14mm x 18mm
 Stem Length: 10mm
 Elantra & Sonata 2002 - On
Qty: 30



Yellow Nylon Trunk Side Trim Moulding Clip with Sealer
Art. No. 502.22500
OEM#: 87756-3N100

Top Head Size: 12mm x 12mm
 Bottom Head Size: 14mm x 18mm
 Stem Diameter: 14.5mm
 Stem Length: 16mm
Qty: 15



Pink Nylon Side Garnish Moulding Clip with Sealer
Art. No. 502.22508
OEM#: 87756-2J000

Head Size: 13mm x 16mm
 Stem Diameter: 11.5mm
 Stem Length: 9mm
Qty: 25



White Nylon Waist Line Moulding Trim Clip with Sealer
Art. No. 502.22565
OEM#: 87715-3S000

Head Size: 5mm x 14mm
 Stem Size: 5mm x 11mm
 Stem Length: 9mm
Qty: 25



White Nylon Moulding Clip with Sealer
Art. No. 502.22592
OEM#: 85818-37000

Top Head Size: 12.5mm x 14mm
 Bottom Head Diameter: 16mm
 Stem Diameter: 10mm
 Stem Length: 12.5mm
Qty: 25

HYUNDAI/KIA
HEADLIGHT/DOOR/WINDOW/HOOD ACCESSORIES


Hood Insulation Retainer
Art. No. 500.20543
OEM #: 81126-37010

Material: Black Nylon
 Bottom Head Dia: 26mm
 Stem Dia: 12mm
 Stem Length: 14mm
 Hyundai Elantra & Sonata and Kia Optima
 1995 - On
Qty: 15



Black Nylon Door Weatherstrip
Art. No. 502.22558
OEM#: 82134-22000

Clip Height: 14mm
 Length: 20mm
Qty: 25

HYUNDAI/KIA

GROMMETS



Fender & Rocker Moulding Nylon Nut with Sealer
Art. No. 500.21066
OEM #: 87758-37000

Material: White Nylon
 Screw Size: M4.2 (#8)
 Head Size: 17mm x 17mm
 Stem Length: 14mm
 Hyundai Accent & Sonata 1999 - On
 Kia 2001 - On
Qty: 25



Headlight Assembly Grommet
Art. No. 500.21069
OEM #: 92351-37000

Material: Natural Nylon
 Head Dia: 15mm
 Stem Length: 8mm
 Fits Into: 10mm Hole
 XG300/350 2001 - On
 Kia 2000 - On
Qty: 25



White Nylon Bumper & Side Marker Lamp Screw Grommet with Sealer
Art. No. 502.22557
OEM#: 97519-22000

Screw Size: M3.5 (#6)
 Head Diameter: 14mm
 Stem Length: 16mm
 Fits Into 7mm x 7mm Hole
Qty: 50



Gray Nylon Bumper Screw Grommet
Art. No. 502.22563
OEM#: 86699-1E010

Screw Size: M4.8 (#10)
 Head Size: 12mm x 12mm
 Stem Length: 8mm
 Overall Height: 10mm
Qty: 25



Black Nylon Engine Under Cover & Rear Bumper Moulding Grommet
Art. No. 502.22435
OEM#: 84219-3L000

Screw Size: M6-1.0
 Head Diameter: 20mm
 Stem Diameter: 14mm
 Stem Length: 7mm
 Overall Length: 9.5mm
Qty: 25



Natural Nylon License Plate Grommet
Art. No. 502.22564
OEM#: 14910-04000, 92561-25000

Screw Size: M3.5 (#6)
 Head Diameter: 12mm
 Stem Length: 7mm
 Overall Height: 9mm
Qty: 25

HYUNDAI/KIA

RIVETS



Black Aluminum Rivet & Steel Mandrel Front & Rear Bumper Specialty Rivet
Art. No. 502.22481
OEM#: 14160-03133

Diameter: 3.2mm (1/8")
 Flange Diameter: 6.3mm (1/4")
 Grip Range: 4.0mm - 7.9mm (.158" - .311")
Qty: 50



Aluminum Rivet & Steel Mandrel Windshield Moulding Specialty Rivet
Art. No. 502.22436
OEM#: 14160-05130

Diameter: 4.8mm (3/16")
 Flange Diameter: 10mm (3/8")
 Grip Range: 1.6mm - 6.3mm (.063" - .250")
Qty: 50



Black Aluminum Rivet & Steel Mandrel Front & Rear Bumper Specialty Rivet
Art. No. 502.22437
OEM#: 14160-03103

Diameter: 3.2mm (1/8")
 Flange Diameter: 6.3mm (1/4")
 Grip Range: 0.8mm - 4.8mm (.032" - .189")
Qty: 50

MAZDA

INDEX

OEM No.	Art. No.	Type
01553-09321	500.19274	Push Type Retainer
1395-68-676,9926-50-635	500.14369	Push Type Retainer
69293-12050	500.20534	Door Lock Rod Clip
69293-12060	500.20535	Door Lock Rod Clip
90467-09143	500.17988	Push Type Retainer
9924-90-512B	500.14367	Retainer
9926-40-531B	500.789006	Insulation Retainer
9926-40-531B	500.18271	Insulation Retainer
9927-40-825	500.14269	Door Panel Retainer
9928-91-053	500.14298	Releasable Cable Strap
9991-00-501	500.14357	Screw Grommet
9991-00-503	500.14313	Screw Grommet
9991-00-601	500.14274	Screw Grommet
B096-51-833	500.17632	Push Type Retainer
BC1D-56-145	500.19315	Mud Guard Push Type Retainer
FB01-5	500.16000	Push Type Retainer
G031-58-762	500.18692	Weatherstrip Retainer
G18K-51-SJ3	500.20932	Panel Retainer
G350-68-AB1	500.18824	Trim Panel Retainer
GA2A-58-762	500.19481	Front & Rear Door and Hood Weatherstrip
H001-50-841	500.14695	Screw Grommet #8
N304-13-356-A	500.14697	Push Type Retainer
UB39-45-919	500.20465	Front & Rear Fender Push-Type Retainer
UB39-50-795	500.19747	Stone Guard Push-Type Retainer

MAZDA

RETAINERS



Push Type Retainer
Art. No. 500.19274
OEM #: 01553-09321

Material: Black Nylon
 Head Dia: 20 mm
 Stem Length: 9 mm
 Fits Into: 8mm Hole
 Nissan Maxima & 300ZX
 1994 - On
Qty: 25



Push-Type Retainer
Art. No. 500.14369
OEM #: 1395-68-676, 9926-50-635

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 9mm
 Fits Into: 6mm Hole
Qty: 50



Push-Type Retainer
Art. No. 500.17632
OEM #: B096-51-833

Material: Black Nylon
 Head Dia: 18mm
 Stem Length: 12mm
 Fits Into: 8mm Hole
 Ford OEM #: MB-455-56143
Qty: 25



Push-Type Retainer
Art. No. 500.14697
OEM #: N304-13-356-A

Material: Black Nylon
 Head Dia: 14mm
 Stem Length: 11mm
 Fits Into: 7mm Hole
 GM OEM #: 94198687
 Honda OEM #: 90657-SA6-0030
Qty: 25



Retainer
Art. No. 500.14367
OEM #: 9924-90-512B

Material: Black Nylon
 Bottom Head Dia: 12mm
 Stem Dia: 5mm
 Stem Length: 12mm
Qty: 25



Push Type Retainer
Art. No. 500.16000
OEM #: FB01-56-964

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 9mm
 Fits Into: 8mm Hole
 Nissan OEM #: 63876-95596
 Honda OEM #: 90675-SB3-003
Qty: 25



Front & Rear Fender Push-Type Retainer
Art. No. 500.20465
OEM #: UB39-45-919

Material: Black Nylon
 Head Dia: 18mm
 Stem Length: 9mm
 Fits Into: 8mm Hole
 2000 - On
Qty: 25



Stone Guard Push-Type Retainer
Art. No. 500.19747
OEM #: UB39-50-795

Material: Black Nylon
 Head Dia: 18mm
 Stem Length: 10mm
 Fits Into: 8mm Hole
 MPV 1998-On
Qty: 10

MAZDA
RETAINERS


Push-Type Retainer
Art. No. 500.17988
OEM #: 90467-09143

Material: Black Nylon
 Head Dia: 19mm
 Stem Length: 26mm
 Fits Into: 9mm
Qty: 10



Mud Guard Push-Type Retainer
Art. No. 500.19315
OEM #: BC1D-56-145

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 9mm
 Fits Into: 8mm Hole
 Protege 1996-On
Qty: 15



Hood Insulation Retainer
Art. No. 500.789006
OEM #: 9926-40-531B

Material: Black Nylon
 Head Dia: 14mm
 Stem Dia: 6mm
 Stem Length: 15mm
Qty: 25
 Same as 500.18271



Weatherstrip Retainer
Art. No. 500.18692
OEM #: G031-58-762

Material: Natural Nylon
 Head Dia: 5mm x 15mm
 Stem Length: 10mm
 Fits Into: 5mm Hole
 Toyota OEM #: 67868-89101,
 6786789103
Qty: 50



Door Panel Retainer
Art. No. 500.14269
OEM #: 9927-40-825

Material: White Nylon
 Head Dia: Top 13mm
 Bottom 18mm
 Stem Length: 14mm
 Fits Into: 9mm Hole
 Overall Length: 21mm
 Toyota OEM #: 67771-12010,
 6777-01010
 Isuzu OEM #: 8942264920
Qty: 25



Door Trim Panel Retainer with Sealer
Art. No. 500.20932
OEM #: G18K-51-SJ3

Material: White Nylon
 Bottom Head Dia: 18mm
 Top Head Dia: 14mm
 Stem Length: 14mm
 Stem Dia: 12mm
 Mazda 3, 5, 6, CX-7, Miata & Protege
 2001 - On
Qty: 25



Wheel Opening Moulding Retainer with Sealer
Art. No. 502.22510
OEM#: KD51-51-W24

Top Head Diameter: 15mm
 Bottom Head Diameter: 18.5mm
 Stem Diameter: 10.8mm
 Stem Length: 14mm
Qty: 25



Gray Nylon Wheel Arch Moulding Retainer
Art. No. 502.22512
OEM#: KD53-51-W24

Top Head Diameter: 14mm
 Bottom Head Diameter: 18.5mm
 Stem Diameter: 11mm
 Stem Length: 14mm
Qty: 25



Green Nylon Rocker Panel Moulding Retainer with Sealer
Art. No. 502.22511
OEM#: D10E-51-SJ3

Top Head Size: 13mm x 17mm
 Bottom Head Diameter: 18.5mm
 Stem Diameter: 11.7mm
 Stem Length: 12mm
Qty: 30



Bumper Cover & Fender Liner Push-Type Retainer
Art. No. 502.22515
OEM#: BGV4-56-145

Head Diameter: 20mm
 Stem Length: 14mm
 Fits into 8mm Hole
Qty: 25



Yellow Nylon Pillar, Scuff Plate & Trim Panel Retainer
Art. No. 502.22484
OEM#: E120-68-AB1; MR975267

Top Head Diameter: 13mm
 Middle Head Diameter: 16.5mm
 Bottom Head Diameter: 18mm
 Stem Diameter: 9.3mm
 Stem Length: 13mm
 Overall Length: 20mm
Qty: 25

Pack sizes subject to change without notice

Some sizes and finishes available OnDemand

MAZDA

SPECIALTY CLIPS/MOULDING CLIPS



Gray Nylon Stone Guard Moulding Clip with Sealer
Art. No. 502.22520
OEM#: KD53-51-SJ3A

Top Head Size: 10mm x 15mm
 Bottom Head Diameter: 18mm
 Stem Diameter: 12mm
 Stem Length: 9mm
Qty: 25



White Nylon Instrument & Side Panel Clip
Art. No. 502.22483
OEM#: S47P-64-345; MQ907568

Width (Ear to Ear): 10.3mm
 Overall Height: 18.6mm
Qty: 25



Black Nylon Hood Release Cable Clip
Art. No. 502.22516
OEM#: D001-56-731

Holds 5mm Diameter Cable
 Stem Length: 9mm
 Fits into 6mm Hole
Qty: 25



Black Nylon Grille Emblem Clip
Art. No. 502.22517
OEM#: G46L-50-EB1

Head Size: 9mm x 22mm
 Stem Width: 9mm
 Stem Length: 13mm
Qty: 25



White Nylon Fender & Wheel Apron Moulding Clip with Sealer
Art. No. 502.22593
OEM#: : KD45-51-W24

Top Head Size: 14mm x 18mm
 Bottom Head Diameter: 18mm
 Stem Length: 12mm
 Stem Diameter: 11mm
Qty: 25



Gray Nylon Front Bumper Retainer Nut
Art. No. 502.22519
OEM#: C274-50-133

Screw Size: M4.8 (#10)
 Center of Hole to Edge: 11mm
 Panel Range: Up to 1mm
Qty: 25

Releasable Cable Strap (length 140mm, 5-1/2")
Art. No. 500.14298
OEM #: 9928-91-053

Material: Nylon
 Max bundle dia: 30mm
 Length: 140mm
 Fits Into: 7mm Hole
 Honda OEM #: 90676-SAO-0030
Qty: 25



MAZDA
GROMMETS


Screw Grommet
Art. No. 500.14313
OEM #: 9991-00-503

Material: Natural Nylon
 Length: 17mm
 Width: 17mm
 Fits Into: 8mm x 8.5mm
 Screw Size: #10
 Honda OEM #: 90666-671-0030
 Nissan OEM #: 68425-H5000
Qty: 50



Art. No. 500.14274
OEM #: 9991-00-601

Screw Grommet #8 Screw Size
Art. No. 500.14695
OEM #: H001-50-841

Material: Natural Nylon
 Dimensions: 13 x 13 mm
 Fits Into: Snaps into 8.5mm
 x 8.5mm Hole
 Screw Size: #10
 Honda OEM #: 75521-611-0000
 Toyota OEM #: 90189-06010
 Nissan OEM #: 9676-P0105
Qty: 100



Trim Panel Retainer
Art. No. 500.18824
OEM #: G350-68-AB1

Material: White Nylon
 Bottom Head Dia: 15mm
 Top Head Dia: 13mm
 Stem Length: 9.5mm
 Stem Dia: 9mm
 Mazda 626, MX-6,
 Millenia, MX3, 929,
 Protege, MPV Ford Probe 1990 - On
Qty: 50



Screw Grommet
Art. No. 500.14357
OEM #: 9991-00-501

Material: Natural Nylon
 Width: 12mm
 Length: 12mm
 Snaps Into 8mm x 8mm Hole
 Screw Size: #10
Qty: 50

MAZDA
WINDOWS/DOORS/HOOD ACCESSORIES


Door Lock Rod Clip
Art. No. 500.20535
OEM #: 69293-12060

Material: Yellow Nylon
 Rod Size: 5mm
 Fits Into: 8.5mm Hole Left (Driver) Side
 Lexus ES250, 300 & RX300
 and Toyota Tacoma
 1990 - On
Qty: 15



Door Lock Rod Clip
Art. No. 500.20534
OEM #: 69293-12050

Material: Natural Nylon
 Rod Size: 5mm
 Fits Into: 8.5mm Hole
 Left (Driver) Side
 Lexus ES250, 300 & RX300
 and Toyota Tacoma
 1990 - On
Qty: 15



Hood Insulation Retainer
Art. No. 500.18271
OEM #: 9926-40-531B

Material: Black Nylon
 Bottom Head Dia: 14mm
 Stem Length: 15mm
 Stem Dia: 6mm
Qty: 25

**Note: Will be discontinued
 when stock is depleted**



**Front & Rear Door and Hood
 Weatherstrip**
Art. No. 500.19481
OEM #: GA2A-58-762

Material: Blue Nylon
 Bottom Head Dia: 5mm x 15mm
 Stem Length: 8mm
 Stem Dia: 6mm
 Mazda 626 & Millennia 1995 - On
Qty: 50

MERCEDES-BENZ

INDEX

OEM No.	Art. No.	Type
000-994-09-14	500.13220	U-Type Nut
007-988-34-78	500.20879	Door Trim Panel Retainer
007-988-99-78	500.20879	Door Trim Panel Retainer
201-990-06-92	500.20638	Push-Type Retainer
GJ21-50-049	500.17003	Bumper Cover Retainer Front & Rear Bumpers

MERCEDES-BENZ

RETAINERS



Gray Nylon Headliner Retainer
Art. No. 502.22498
OEM#: 008-988-09-78

Top Head Diameter: 13.5mm
 Middle Head Diameter: 13.5mm
 Bottom Head Diameter: 20mm
 Stem Diameter: 9.5mm
 Stem Length: 13mm
Qty: 25



White Nylon Lower Weatherstrip Retaining Clip
Art. No. 502.22504
OEM#: 009-988-03-78

Top Head Size: 12mm x 15mm
 Grommet Head Diameter: 11.3mm
 Grommet Stem Length: 13mm
 Overall Length: 21mm
Qty: 25



Door Trim Panel Retainer
Art. No. 500.20879
OEM #: 007-988-99-78, 007-988-34-78

Material: Green Nylon
 Bottom Head Dia: 17mm
 Top Head Dia: 13mm
 Stem Length: 14mm
 Stem Dia: 9mm
 Mercedes-Benz 1996 - On
Qty: 25



Push-Type Retainer
Art. No. 500.20638
OEM #: 201-990-06-92

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 14mm
 Fits Into: 8.5mm Hole
Qty: 25

MERCEDES-BENZ

RIVETS



Split-Type Rivet
Art. No. 502.20971
OEM #: 003-990-94-97

Material: Aluminum Rivet, Aluminum Mandrel
 Dia: 5/32" (4mm)
 Grip: 3/64" - 9/32" (1mm-7mm)
 Flange Dia: 5/16" (8mm)
Qty: 25

MERCEDES-BENZ
HARDWARE/BODY BOLTS/SCREWS


Art. No. 500.13220
OEM #: 000-994-09-14

Material: Yellow Zinc
 6.3mm (#14) Screw Size
 Panel Range: .7mm-1.5mm
 Center of Hole to Edge: 13mm
 Volvo OEM #: 946-418
 Opel OEM #: 20-76-175
Qty: 50

MERCEDES-BENZ
SPECIALTY CLIPS/RETAINERS/MOULDING CLIPS


Bumper Cover Retainer Front & Rear Bumpers
Art. No. 500.17003
OEM #: GJ21-50-049

Mazda & Ford 1988 - On
 Ford OEM #: F32Z-17C756-S
Qty: 25

LAND ROVER
RETAINERS


Black Nylon Tailgate Moulding Retainer
Art. No. 502.22485
OEM#: DCE100560

Base Size: 17.3mm x 16.3mm
 Stem Diameter: 11mm
 Stem Length: 15mm
 Overall Height: 18.5mm
Qty: 30

MITSUBISHI
INDEX

OEM No.	Art. No.	Type
MB-253964	500.17351	Front & Rear Bumper Push-Type Retainer
MR435918	500.20571	Rocker Panel Retainer
MR478262	500.20580	Bumper Cover & Garnish Moulding Push-Type Retainer
MU481187	500.19323	Hood Insulation Retainer

MITSUBISHI
RETAINERS


Front & Rear Bumper Push-Type Retainer
Art. No. 500.17351
OEM #: MB-253964

Material: Black Nylon
 Head Dia: 17mm
 Stem Length: 10mm
 Fits Into: 7mm Hole
 Tredia 1988-83
Qty: 10



Rocker Panel Retainer
Art. No. 500.20571
OEM #: MR435918

Material: White Nylon
 Bottom Head Dia: 18mm
 Top Head Dia: 13mm
 Stem Dia: 9mm
 Stem Length: 9mm
 Mitsubishi Montero 2001 - On
Qty: 15



Bumper Cover & Garnish Moulding Push-Type Retainer
Art. No. 500.20580* use with 500.20581
OEM #: MR478262

Material: Black Nylon
 Top Head Dia: 15mm
 Bottom Head Dia: 14mm
 Stem Length: 12mm
 Fits Into: 7mm Hole
 Sebring & Stratus and Mitsubishi Eclipse
 2000 - On
Qty: 15



Yellow Nylon Pillar, Scuff Plate & Trim Panel Retainer
Art. No. 502.22484
OEM#: E120-68-AB1; MR975267

Top Head Diameter: 13mm
 Middle Head Diameter: 16.5mm
 Bottom Head Diameter: 18mm
 Stem Diameter: 9.3mm
 Stem Length: 13mm
 Overall Length: 20mm
Qty: 25



Black Nylon Hood Insulation Retainer
Art. No. 502.22589
OEM#: MU001282

Head Diameter: 26mm
 Stem Diameter: 10mm
 Stem Length: 10mm
 Fits into 9mm Hole
Qty: 25



Blue Nylon Rocker Moulding Retainer
Art. No. 502.22462
OEM#: MU000977

Top Head Diameter: 13mm
 Bottom Head Diameter: 18mm
 Stem Diameter: 9.8mm
 Stem Length: 9mm
Qty: 25



Hood Insulation Retainer
Art. No. 500.19323
OEM #: MU481187

Material: Black Nylon
 Bottom Head Dia: 26mm
 Stem Length: 8mm
 Stem Dia: 10mm
 Mitsubishi Diamante 1993 - On
Qty: 15



White Nylon Interior Speaker Grille & Rocker Moulding Retainer
Art. No. 502.22513
OEM#: MU000573

Top Head Diameter: 12mm
 Bottom Head Diameter: 16mm
 Stem Diameter: 8mm
 Stem Length: 10mm
Qty: 25

MITSUBISHI
SPECIALTY CLIPS / MOULDING CLIPS


White Nylon Instrument & Side Panel Clip
Art. No. 502.22483
OEM#: S47P-64-345; MQ907568

Width (Ear to Ear): 10.3mm
 Overall Height: 18.6mm
Qty: 25

NISSAN

INDEX

OEM No.	Art. No.	Type
01281-00711	500.20604	Rocker Moulding Screw Grommet
01533-00401	500.14355	Retaining Clip
01553-00172	500.788001	Retaining Clip
01553-00545	500.17452	Bumper Fascia Retainer
01553-03101	500.17378	Bumper & Fascia Attachments Push Type Retainer
01553-06721	500.17347	Front & Rear Bumper Cover Push-Type Retainer
01553-07111	500.20669	Trim Panel Retainer
01553-09241	500.19246	Bumper Push Type Retainer
01553-09311	500.19684	Weatherstrip Retainer
01553-09321	500.19274	Push Type Retainer
01553-09611	500.20349	Bumper Clip Push Type Retainer
01553-10051	500.19905	Push-Type Retainer
10998-30880	500.14696	Retainer
11296-AG000	500.20953	Front Bumper and Radiator Support Push-Type Retainer
62228-51500	500.19147	Front Bumper Retainer
63844-01A00	500.16858	Inner Fender Push-Type Retainer
63848-40Y00	500.20613	Front Bumper Push-Type Retainer
63848-9E001	500.20327	Bumper Fascia Push Type Retainer
63854-01A00	500.17472	Front Bumper Fascia Push-type Retainer
63878-01E10	500.20348	Push-Type Retainer
65836-F5000	500.17237	Hood Insulation Retainer
65846-30F00	500.17237	Hood Insulation Retainer
65846-40F00	500.19468	Hood Insulation Retainer
66820-3S500-C1	500.20672	Cowl Vent Retainer
66824-01G00	500.16783	Push Type Retainer
68425-H5000	500.14313	Screw Grommet
76886-57A00	500.18265	Body Side Moulding Push Type Retainer
80875-85E00	500.18166	Trim Panel Retainer
80999-05N07	500.16784	Push Type Retainer
89427-98070	500.16775	Trim Panel Retainer
90467-09139	500.19416	Retainer
9676-P0105	500.14274	Screw Grommet #10 Screw Size, White
91503-5Z3-003	500.19233	Push Type Retainer
N/A	500.20961	Moulding Clip

NISSAN

RETAINERS



Push Type Retainer
Art. No. 500.19274
OEM #: 01553-09321

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 9mm
 Fits Into: 8mm Hole
 Nissan Maxima A3002X
 1994 - On
Qty: 25



Bumper Fascia Push-Type Retainer
Art. No. 500.20327
OEM #: 63848-9E001

Material: Black Nylon
 Head Dia: 18mm
 Stem Length: 22mm
 Fits Into: 9mm Hole
 Altima 1997 - On
Qty: 25



Push Type Retainer
Art. No. 500.16783
OEM #: 66824-01G00

Material: Black Nylon
 Head Dia: 12mm
 Stem Length: 8mm
 Fits Into: 6mm Hole
Qty: 25



Push Type Retainer
Art. No. 500.16784
OEM #: 80999-05N07

Material: Black Nylon
 Head Dia: 18mm
 Stem Length: 11mm
 Fits Into: 7mm Hole
 Toyota OEM #: 90467-07043
Qty: 50

NISSAN
RETAINERS


Push Type Retainer
Art. No. 500.14696
OEM #: 10998-30880

Material: Black Nylon
 Head Dia: 15mm
 Stem Length: 11mm
 Fits Into: 6mm Hole
 Isuzu OEM #: 8942981190
 Honda OEM #: 90684-SA5-0030
Qty: 50



Bumper Clip Push Type Retainer
Art. No. 500.20349
OEM #: 01553-09611

Material: Black Nylon
 Dia: 18mm
 Stem Length: 12mm
 Fits Into: 8mm Hole
Qty: 15



Bumper Push Type Retainer
Art. No. 500.19246
OEM #: 01553-09241

Material: Black Nylon
 Head Dia: 18mm
 Stem Length: 15mm
 Fits Into: 10mm Hole
Qty: 25



Rivet Drive Type Front Bumper Cover & Wheel Housing
Art. No. 500.19416
OEM #: 90467-09139

Material: Black Nylon
 Head Dia: 18mm
 Stem Length: 12mm
 Honda, Mazda 626 & Toyota Corolla 1992 - On
Qty: 15



Body Side Moulding Push-Type Retainer
Art. No. 500.18265
OEM #: 76886-57A00

Material: Black Nylon
 Head Dia: 16mm
 Stem Length: 20mm
 Fits Into: 8mm Hole
Qty: 25



Front Bumper Push-Type Retainer
Art. No. 500.19233

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 13mm
 Fits Into: 10mm
 Acura OEM #: 91503-SZ5-003
 Honda OEM #: 91503-SZ3-003
Qty: 25



Trim Panel Retainer
Art. No. 500.16775
OEM #: 89427-98070

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 15mm
 Fits Into: 5mm Hole
 Honda OEM #: 90667-SA7-0030
Qty: 25



Hood Insulation Retainer
Art. No. 500.19468
OEM #: 65846-40F00

Bottom Head Dia: 28mm
 Stem Length: 10mm
 Stem Dia: 6mm
 Infiniti J30, M30 & Q45 1989 - On
Qty: 15



Front Bumper Fascia Push-type Retainer
Art. No. 500.17472
OEM #: 63854-01A00

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 20mm
 Fits Into: 8mm Hole
Qty: 25



Retaining Clip
Art. No. 500.788001
OEM #: 01553-00172

Material: Black Nylon
 Head Dia: 13mm
 Stem Length: 15mm
 Fits Into: 5mm Hole
 Panel Thick: 3mm
 Toyota OEM #: 90467-07050
Qty: 50



Trim Panel Retainer
Art. No. 500.18166
OEM #: 80875-85E00

Material: Black Nylon
 Head Dia: 10mm
 Stem Dia: 4mm
 Stem Length: 10mm
Qty: 25



Bumper & Fascia Attachments Push-Type Retainer
Art. No. 500.17378
OEM #: 01553-03101

Material: Black Nylon
 Head Dia: 22mm
 Stem Length: 14mm
 Fits Into: 11mm Hole
Qty: 15

NISSAN

RETAINERS



Bumper Fascia Retainer
Art. No. 500.17452
OEM #: 01553-00545

Material: Black Nylon
 Bottom Head Dia: 13mm
 Stem Length: 15mm
 Stem Dia: 5mm
 Nissan Sentra 1990 - On
Qty: 75



Push-Type Retainer
Art. No. 500.19905
OEM #: 01553-10051

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 8mm
 Fits Into: 8mm Hole
 Maxima 1999 - On
Qty: 25



Front Bumper and Radiator Support Push-Type Retainer
Art. No. 500.20953
OEM #: 11296-AG000

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 13mm
 Fits Into: 8mm Hole
 Infiniti FX 35/45 and Nissan Altima, Maxima & Quest 2002 - On
Qty: 25



Trim Panel Retainer
Art. No. 500.20669
OEM #: 01553-07111

Material: Black Nylon
 Bottom Head Dia: 18mm
 Top Head Dia: 13mm
 Stem Dia: 9mm
 Stem Length: 15mm
Qty: 25



Front & Rear Bumper Cover Push-Type Retainer
Art. No. 500.17347
OEM #: 01553-06721

Material: Black Nylon
 Head Diameter: 20mm
 Stem Length: 11mm
 Fits Into: 8mm Hole
 Maxima & Infiniti 1990 - On
Qty: 40



Front Bumper Push-Type Retainer
Art. No. 500.20613
OEM #: 63848-40Y00

Material: Black Nylon
 Head Dia: 18mm
 Stem Length: 20mm
 Fits Into: 9mm Hole
 Frontier & Xterra 1998 - On
Qty: 30



Inner Fender Push-Type Retainer
Art. No. 500.16858
OEM #: 63844-01A00

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 18mm
 Fits Into: 8mm Hole
 Nissan 1980 - On
 Kia OEM #: MNA01-56-145;
 Mazda OEM #: NA01-56-145;
 Ford OEM #: MNA01-56145, NA01-56145
Qty: 75



Push-Type Retainer
Art. No. 500.20348
OEM #: 63878-01E10

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 22mm
 Fits Into: 8mm Hole
 Maxima 1994 - On
Qty: 15

NISSAN
SCREW GROMMETS


Clip
Art. No. 500.14313
OEM #: 68425-H5000

Material: Natural Nylon
 Length: 17mm
 Width: 17mm
 Screw Size: #10
 Fits Into: 8mm x 8.5mm
 Honda OEM #: 90666-671-0030
 Mazda OEM #: 9991-00-503
Qty: 25



Rocker Moulding Screw Grommet
Art. No. 500.20604
OEM #: 01281-00711

Material: Natural Nylon
 Head Dia: 20mm
 Stem Length: 15mm
 Screw Size: M4.2 (#8)
 Nissan & Infiniti 1995 - On
Qty: 25



Art. No. 500.14274
OEM #: 9676-P0105

Material: Natural Nylon
 Dimensions: 13 x 13mm
 Screw Size: #10
 Fits Into: Snaps into 8.5mm x 8.5mm Hole
 Honda OEM #: 75521-611-0000
 Toyota OEM #: 90189-06010
 Mazda OEM #: 9991-00-601
Qty: 100

NISSAN
SPECIALTY CLIPS/MOULDING CLIPS


Weatherstrip Retainer
Art. No. 500.19684
OEM #: 01553-09311

Bottom Head Dia: 7mm x 16mm
 Stem Dia: 6mm hole
 Stem Length: 12mm
 Nissan Altima & Sentra 1994 - On
Qty: 25



Retaining Clip
Art. No. 500.14355
OEM #: 01533-00401

Material: Black Nylon
 Bottom Head Dia: 11mm
 Stem Dia: 6mm
 Stem Length: 13mm
Qty: 50



Front Bumper Retainer
Art. No. 500.19147
OEM #: 62228-51500

300ZX 1992 - On
Qty: 10



Cowl Vent Retainer
Art. No. 500.20672
OEM #: 66820-3S500-C1

Material: White Nylon
 Bottom Head Dia: 16mm
 Top Head Dia: 13mm
 Stem Dia: 4mm
 Stem Length: 13mm
 Nissan Frontier & Xterra
 1998 - On
Qty: 25



Drip Moulding Clip with Sealer
Art. No. 500.20961

Material: White Nylon
 Top Width: 25mm
 Overall Height: 16mm
 Fits Into: 5mm Hole
 Infiniti M45, I30 & G35 2005 - On
 Nissan Altima, Maxima & 350Z 2002 - On
Qty: 15



Hood Insulation Retainer
Art. No. 500.17237
OEM #: 65836-F5000, 65846-30F00

Material: Black Nylon
 Bottom Head Dia: 38mm
 Stem Dia: 7mm
 Stem Length: 9mm
 Mercury Villager 1999 - On
 Nissan 1981 - On
Qty: 15

NISSAN

NISSAN



Black Nylon Cowl Grille Clip
Art. No. 502.22476
OEM#: : 66820-4BA5A

Width: 13mm x 20mm
 Overall Height: 20mm
Qty: 50



Black Nylon Hood Release Cable Clip
Art. No. 502.22573
OEM#: 65625-8J000

Holds 6mm Diameter
 Cable Fits into 6mm Hole
Qty: 50



Zinc M5-.8 Specialty Insert
Art. No. 502.22480
OEM#: 01236-00051

Grip Range: .5mm - 1.5mm
 Head Diameter: 11mm
 Shoulder Size: 7mm x 7mm
 General Purpose
Qty: 15



Yellow Nylon Front & Rear Bumper Screw Grommet
Art. No. 502.22522
OEM#: 85099-1MA0A

Screw Size: M5.5 (#12)
 Top Head Size: 10mm x 10mm
 Bottom Head Size: 15mm x 16mm
 Stem Length: 9mm
Qty: 25



Green Nylon Rocker Panel Moulding Clip with Sealer
Art. No. 502.22523
OEM#: : 76882-1KA1A

Top Head Size: 10mm x 17mm
 Bottom Head Diameter: 18mm
 Stem Length: 12mm
 Fits into 8mm Hole
Qty: 25



White Nylon Lift Gate, Pillar & Quarter Panel Trim Retainer
Art. No. 502.22572
OEM#: 01553-0162U

Top Head Diameter: 13mm
 Middle Head Diameter: 16mm
 Bottom Head Diameter: 18mm
 Stem Diameter: 10mm
 Stem Length: 14mm
 Overall Length: 21mm
Qty: 25



Natural Nylon Front Bumper Screw Grommet
Art. No. 502.22494
OEM#: 01281-01431

Screw Size: M5.5 (#12)
 Head Diameter: 14mm
 Stem Length: 17mm
 Overall Length: 20mm
Qty: 25



Gray Nylon Quarter Panel, Rear Light & Spoiler Grommet with Sealer
Art. No. 502.22440
OEM#: 26557-2U000

Screw Size: M6.3-1.81 (#14)
 Head Size: 15mm x 19mm
 Stem Length: 16mm
 Overall Length: 17.5mm
Qty: 25



White Nylon Headliner Retainer
Art. No. 502.22574
OEM#: 73998-3TA0A

Top Head Size: 19mm x 23mm
 Bottom Head Diameter: 17mm
 Stem Size: 8mm x 11mm
 Stem Length: 9mm
 Overall Length: 13mm
Qty: 25



Black Nylon Front Bumper Cover Retainer
Art. No. 502.22503
OEM#: 01553-0170U

Head Diameter: 18mm
 Stem Diameter: 8.5mm
 Stem Length: 19mm
Qty: 25



Gray Nylon Rear Bumper Cover Moulding Clip
Art. No. 502.22452
OEM#: 85284-AL510

Width: 20mm
 Length: 32mm
 Overall Height: 20.5mm
Qty: 10

TOYOTA
INDEX

OEM No.	Art. No.	Type
1494258	502.10052	Extruded "U" Nuts
379831-5	502.10052	Extruded "U" Nuts
47749-58010	500.20757	Front Fender & Bumper Cover Pin Retainer
52161-16010	500.18873	Rear Bumper Cover Retainer
52161-20010	500.20931	Bumper Cover & Grille Push-Type Retainer
53879-14010-A	500.14750	Nylon "U" Nut
53879-14020	500.14750	Nylon "U" Nut
53879-14020	500.7793	Nylon "U" Nut Fender/Wheel Housing Application
53879-1410-A	500.7793	Nylon "U" Nut Fender/Wheel Housing Application
53879-22010	502.14276	Nylon "U" Nut Fender/Wheel Housing Applications
53879-22030	500.14750	Nylon "U" Nut Fender/Wheel Housing Applications
53879-58010	500.20758	Front Fender & Bumper Cover Clip
53879-60010	500.20335	Fender Liner Push Type Retainer
62217-13010	500.20558	Garnish Moulding Retainer
62217-13010	500.20559	Garnish Moulding Retainer
62955-20020	500.15695	Retainer w/ Sealer
6777-01010	500.14269	Door Panel Retainer
67771-02030	500.15709	Door Trim Retainer
67771-06010	500.18844	Panel & Pillar Retainer
67771-12010	500.14269	Door Panel Retainer
67771-12070	500.20473	Door Panel & Rocker Moulding Retainer with Sealer
67771-12080	500.20575	Door Panel & Rocker Moulding Retainer
67771-30090	500.19129	Trim Panel Retainer Cowl Side & Garnish Center Pillar Retainer
67771-32090	500.18844	Trim Panel Retainer Cowl Side & Garnish Center Pillar Retainer
67867-12150	500.19749	Weatherstrip Retainer
67867-89103	500.18692	Weatherstrip Retainer
67868-89101	500.18692	Weatherstrip Retainer
75397-35010	500.20688	Wheel Flare Moulding Clip with Sealer
75495-35010	500.20687	Rocker Moulding Clip with Sealer
75867-30120	500.21123	Rocker Moulding Push-Type Retainer
78567-30110	500.19842	Rocker Panel Clip
90075-10801	502.19783	Screw Grommet
90183-03001	500.845802	Front Bumper Cushion Clip
90189-04011	500.14271	Screw Anchor
90189-04014	500.7710	Screw Anchor
90189-04014	500.14256	Screw Grommet #8 Screw Size
90189-04066	500.14281	Screw Grommet
90189-05013	500.13932	Screw Grommet #10 Screw Size
90189-06001	500.14275	Screw Grommet #10 Screw Size
90189-06005	500.7757	Screw Grommet #14 (1/4") or M6.3-1.81 screw size
90189-06006	500.7758	Screw Grommet
90189-06006	500.14265	Screw Grommet #10 Screw Size
90189-06010	500.14274	Screw Grommet #10 Screw Size, White
90189-06028	500.19194	Screw Grommet #10 Screw Size
90189-06042	500.14695	Screw Grommet #8 Screw Size
90189-06065	500.20440	Hood & Fender Screw Grommet
90189-06104	500.19742	Fender Lining Screw Grommet
90189-06111	502.19783	Screw Grommet
90189-06157	500.19721	Fender Lining Screw Grommet
90189-06214	500.19756	Fender Lining Screw Grommet
90269-04053	500.20627	Rivet
90269-06013	500.20834	Gas Filler Door Rivet
90467-05045-22	500.19686	Weatherstrip Retainer
90467-05090-B1	500.21103	Front Bumper Fascia Push-Type Retainer
90467-05096-22	500.19312	Luggage Compartment Trim Panel Retainer
90467-05114	500.20956	Bumper & Fender Apron Nylon "U" Nut
90467-06133-CO	500.20196	Rocker Panel Push-Type Retainer
90467-06150	500.19490	Back Garnish Trim Panel Push-Type Retainer
90467-07041	500.17162	Push Type Retainer
90467-07043	500.16784	Push Type Retainer
90467-07044	500.19128	Quarter Panel Wheel Opening Moulding Push-Type Retainer
90467-07050	500.788001	Retaining Clip
90467-07059-22	500.19013	Rear Door Trim & Luggage Compartment Door Push-Type Retainer
90467-07121	500.19908	Door Trim Panel Push-Type Retainer
90467-07146	500.19552	Cowl Panel & Luggage Compartment Retainer
90467-07164	500.20908	Fender Splash Shield Push-Type Retainer
90467-07166	500.18888	Front Fender Liner Push Type Retainer
90467-08004	500.18297	Hood Seal Retaining Clip
90467-08011	500.18297	Retaining Clip
90467-08124	500.19113	Hood Insulation Retainer
90467-09004	500.19112	Retainer-Hood Insulation
90467-09006	500.18842	Hood Insulation Retainer
90467-09008	500.14738	Retaining Clip
90467-09050	500.19729	Hood Insulation Retainer
90467-09096	500.19219	Front Bumper Push-Type Retainer

TOYOTA
INDEX

OEM No.	Art. No.	Type
90467-09127	500.19739	Bumper Cover Push-Type Retainer
90467-09139	500.19416	Rivet Drive Type Front Bumper Cover & Wheel Housing
90467-09145	500.17206	Bumper Cover Push Type Retainer
90467-10077	500.19797	Door Moulding Clip with Sealer
90467-10183	500.20869	Front Fender Liner Push-Type Retainer
90467-11063	500.17481	Rocker Panel Moulding Clip with Sealer
90467-11100	500.20429	Fender & Wheel Flare Moulding Clip
90468-04030	500.876226	Bumper Strip Retainer
90904-67036	500.20390	Fender Moulding Clip (Blue)
90904-67037	500.20391	Fender Moulding Clip (Red)
90467-06017	500.7773	Push Retainer
N/A	502.14980	Metric Pushnut Bolt Retainers For Threaded Fasteners

LEXUS
INDEX

OEM No.	Art. No.	Type
75039-33060	500.19120	Door Lower Moulding Clip
90269-04050	500.20628	Specialty Rivet
90269-04051	500.20788	Specialty Rivet
90467-07117	500.18270	Push-Type Retainer
90467-09093	500.17439	Bumper Cover Push-Type Retainer
90467-09101	500.18939	Bumper Cover Push-Type Retainer
90467-09143	500.17988	Push-Type Retainer

TOYOTA/LEXUS
RETAINERS


Rocker Panel Push-Type Retainer
Art. No. 500.20196
OEM #: 90467-06133-CO

Material: Black Nylon
 Head Dia: 14mm
 Stem Length: 8mm
 Fits Into: 6mm Hole
 4-Runner 1998 - On
Qty: 25



Rear Bumper Cover Retainer Push Type Retainer
Art. No. 500.18873
OEM #: 52161-16010

Material: Black Nylon
 Head Dia: 18mm
 Stem Length: 28mm
 Fits Into: 9mm Hole
 Toyota Tercel 1988 - On
Qty: 15



Rivet Drive Type Front Bumper Cover & Wheel Housing
Art. No. 500.19416
OEM #: 90467-09139

Material: Black Nylon
 Head Dia: 18 mm
 Stem Length: 15mm
 Fits Into: 9mm Hole
 Honda, Mazda 626, Toyota Corolla 1992 - On
Qty: 15



Back Garnish Trim Panel Push-Type Retainer
Art. No. 500.19490
OEM #: 90467-06150

Material: Black Nylon
 Head Dia: 18mm
 Stem Length: 8mm
 Fits Into: 6mm Hole
 Tacoma 1995 - On
Qty: 10

TOYOTA/LEXUS
RETAINERS


Push Type Retainer
Art. No. 500.16784
OEM #: 90467-07043

Material: Black Nylon
 Head Dia: 18mm
 Stem Length: 11mm
 Fits Into: 7mm Hole
 Nissan OEM #: 80999-05N07
Qty: 50



Front Fender Liner Push Type Retainer
Art. No. 500.18888
OEM #: 90467-07166

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 8mm
 Fits Into: 7mm Hole
 Toyota Tercel 1994 - On
Qty: 30



Hood Seal Retaining Clip
Art. No. 500.18297
OEM #: 90467-08004,90467-08011

Material: Black Nylon
 Bottom Head Dia: 13mm
 Stem Length: 11mm
 Stem Dia: 7.5mm
 Lexus, Toyota, Geo Prizm & Nova 1985 - On
 GM OEM #: 94842841, 94849113
Qty: 50



Push Retainer
Art. No. 500.7773

Material: Steel Nickel Plated
 Size: 1-1/2" strap
 Fits Into: 1/4" Hole
 Center of Hole To Center of Hole: 6-5/8"
 Overall Length: 3-1/8"
Qty: 25



Fender Liner Push Type Retainer
Art. No. 500.20335
OEM #: 53879-60010

Material: Black Nylon
 Head Dia: 18mm
 Stem Length: 7mm
 Fits Into: 7mm Hole
 Toyota Land Cruiser, RAV 4 1998 - On
Qty: 15



Garnish Moulding Retainer
Art. No. 500.20558
OEM #: 62217-13010

Material: White Nylon
 Bottom Head Dia: 15mm
 Top Head Dia: 13mm
 Stem Dia: 8.5mm x 9.5mm
 Stem Length: 11mm
 Lexus and Toyota Corolla, Matrix & 4 Runner 2003 - On
Qty: 25



Door Panel Retainer
Art. No. 500.14269
OEM #: 67771-12010, 6777-01010

Material: White Nylon
 Head Dia: Top 13mm
 Stem Length: 14mm
 Fits Into: 9mm Hole
 Bottom: 18mm
 Mazda OEM #: 9927-40-825
 Isuzu OEM #: 8942264920
Qty: 25



Retainer w/ Sealer
Art. No. 500.15695
OEM #: 62955-20020

Material: Nylon
 Head Dia: 15mm
 Stem Length: 9mm
 Fits Into: 8mm Hole
 Toyota Pick-Up Truck, Pontiac Vibe
Qty: 25



Bumper Cover Push Type Retainer
Art. No. 500.17206
OEM #: 90467-09145

Material: Black Nylon
 Head Dia: 15mm
 Stem Length: 12mm
 Fits Into: 9mm Hole
 Toyota Camry 1992 - On
Qty: 15



Garnish Moulding Retainer
Art. No. 500.20559
OEM #: 62217-13010

Material: Blue Nylon
 Bottom Head Dia: 18mm
 Top Head Dia: 13mm
 Stem Dia: 9mm x 9mm
 Stem Length: 11mm
 Pontiac Vibe, Lexus and Toyota 2000 - On
 GM OEM #: 88970345
Qty: 25



Trim Panel Retainer Cowl Side & Garnish Center Pillar Retainer
Art. No. 500.18844
OEM #: 67771-06010, 67771-32090

Material: White Nylon
 Bottom Head Dia: 18mm
 Top Head Dia: 13mm
 Stem Dia: 10mm
 Stem Length: 13mm
 Toyota Camry 1991 - On
Qty: 15



Door Trim Retainer
Art. No. 500.15709
OEM #: 67771-02030

Material: Natural Nylon
 Bottom Head Dia: 17.5mm
 Top Head Dia: 13mm
 Stem Dia: 9.5mm
 Stem Length: 13mm
 Toyota Corolla 1990 - On
Qty: 25

TOYOTA/LEXUS
RETAINERS


**Fender Splash Shield
Push-Type Retainer**
Art. No. 500.20908
OEM #: 90467-07164

Material: Black Nylon
Head Dia: 20mm
Stem Length: 10mm
Fits Into: 7mm Hole
Toyota Camry, Echo, MR2 & Sienna
1997 - On
Qty: 25



**Rocker Moulding Push-
Type Retainer**
Art. No. 500.21123
OEM #: 75867-30120

Material: Black Nylon
Head Dia: 18mm
Stem Length: 12mm
Fits Into: 8mm Hole
Lexus GS350, GS430,
GS460 & LS460 and
Toyota Camry 2007 - On
Qty: 15



**Cowl Panel & Luggage
Compartment Retainer**
Art. No. 500.19552
OEM #: 90467-07146

Material: Black Nylon
Head Dia: 16mm
Stem Length: 9mm
Fits Into: 7mm Hole
Toyota Avalon, Camry,
Celica & Solara
1993 - On
Qty: 15



**Front Bumper Fascia
Push-Type Retainer**
Art. No. 500.21103
OEM #: 90467-05090-B1

Material: Black Nylon
Head Dia: 10mm
Stem Length: 12mm
Fits Into: 5mm Hole
Toyota Corolla, Matrix &
Scion 2008 - On
Qty: 10



**Quarter Panel Wheel Opening
Moulding Push-Type Retainer**
Art. No. 500.19128
OEM #: 90467-07044

Material: Black Nylon
Head Dia: 20mm
Stem Length: 9mm
Fits Into: 7mm Hole
Toyota T-100 1992 - On
Qty: 25



Hood Insulation Retainer
Art. No. 500.18842
OEM #: 90467-09006

Material: Black Nylon
Head Dia: 30mm
Stem Length: 17mm
Fits Into: 7mm Hole
Toyota Avalon, Camry, Lexus
1988 - On
Qty: 25



Retaining Clip
Art. No. 500.788001
OEM #: 90467-07050

Material: Black Nylon
Head Dia: 13mm
Stem Length: 15mm
Fits Into: 5mm Hole
Panel Thickness.: 3mm
Nissan OEM #: 01553-00172
Qty: 50



**Door Trim Panel Push-
Type Retainer**
Art. No. 500.19908
OEM #: 90467-07121

Material: Black Nylon
Head Dia: 20mm
Stem Length: 8mm
Fits Into: 7mm Hole
Toyota RAV4 1997 - On
Qty: 15



**Front Fender Liner
Push-Type Retainer**
Art. No. 500.20869
OEM #: 90467-10183

Material: Black Nylon
Head Dia: 18mm
Stem Length: 7.5mm
Fits Into: 7mm Hole
Celica, Corolla, Matrix
& Solara, Lexus and
Pontiac Vibe 1999 - On
GM OEM #: 88970767
Qty: 20



Push-Type Retainer
Art. No. 500.17162
OEM #: 90467-07041

Material: Black Nylon
Head Dia: 15mm
Stem Length: 13mm
Fits Into: 6.3mm Hole
Geo Metro & Tracker and
Toyota 1989 - On
GM OEM #: 96057846
Qty: 25



**Rear Door Trim & Luggage
Compartment Door
Push-Type Retainer**
Art. No. 500.19013
OEM #: 90467-07059-22

Material: Black Nylon
Head Dia: 15mm
Stem Length: 10mm
Fits Into: 7mm Hole
Toyota Camry & Celica 1990 - On
Qty: 25



Weatherstrip Retainer
Art. No. 500.19686
OEM #: 90467-05045-22

Material: Black Nylon
Stem Dia: 5mm
Stem Length: 6mm
Bottom Head Dia: 12mm
Toyota Solara 1998 - On
Qty: 25

Pack sizes subject to change without notice

Some sizes and finishes available OnDemand

TOYOTA/LEXUS RETAINERS



Hood Insulation Retainer
Art. No. 500.19112
OEM #: 90467-09004

Material: Black Nylon
 Head Dia: 30mm
 Stem Length: 16mm
 Stem Dia: 8mm
 Toyota Tacoma 1995 - On
Qty: 25



Retaining Clip
Art. No. 500.14738
OEM #: 90467-09008

Material: Black Nylon
 Head Dia: 30mm
 Stem Length: 17mm
 Fits Into: 7mm Hole
 Panel Thickness: 6mm
Qty: 25



Hood Insulation Retainer
Art. No. 500.19113
OEM #: 90467-08124

Material: Black Nylon
 Bottom Head Dia: 25mm
 Stem Dia: 8mm
 Stem Length: 12mm
 Toyota Supra 1993 - On, Lexus 1994 - 89
Qty: 25



Front Bumper Push-Type Retainer
Art. No. 500.19219
OEM #: 90467-09096

Material: Black Nylon
 Head Dia: 15mm
 Stem Length: 27mm
 Fits Into: 9mm Hole
 Toyota Lexus LS400 1993-On,
 Celica & Supra 1989 - On
Qty: 10



Bumper Cover & Grille Push-Type Retainer
Art. No. 500.20931
OEM #: 52161-20010

Material: Black Nylon
 Head Dia: 18mm
 Stem Length: 31mm
 Fits Into: 9mm Hole
 Toyota 2000 - On
Qty: 25



Front Fender & Bumper Cover Pin Retainer
Art. No. 500.20757
OEM #: 47749-58010

Material: Black Nylon
 Head Dia: 15mm
 Stem Length: 25mm
 Use With Auveco 20758
 Lexus and Toyota 4 Runner Highlander, Sienna & Solara 2000 - On
Qty: 10



Bumper Cover Push-Type Retainer
Art. No. 500.19739
OEM #: 90467-09127

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 26mm
 Fits Into: 9mm Hole
 Hole Size: 26mm
 Toyota Avalon, Camry, Corolla & Solara 1998 - On
Qty: 25



Rocker Panel & Garnish Moulding Push-Type Retainer
Art. No. 500.20577
OEM #: 90467-07168

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 8mm
 Fits Into: 7mm Hole
 Pontiac Vibe 2003 - On
 Lexus & Toyota 2000 - On
 GM OEM #: 88970494, 88973676
Qty: 15

TOYOTA/LEXUS

RETAINERS



Door Panel & Rocker Moulding Retainer with Sealer
Art. No. 500.20473
OEM #: 67771-12070

Material: White Nylon
 Bottom Head Dia: 18mm
 Top Head Dia: 13mm
 Stem Dia: 11mm
 Stem Length: 14mm
 Lexus SC300/400, Toyota Avalon & Corolla
 1992 - On
Qty: 15



Door Panel & Rocker Moulding Retainer
Art. No. 500.20575
OEM #: 67771-12080

Material: Yellow & White Nylon
 Bottom Head Dia: 18mm
 Top Head Dia: 13mm
 Stem Dia: 10mm
 Stem Length: 13mm
 Toyota & Lexus 1998 - On
 Pontiac Vibe 2003 - On
 GM OEM #: 88970656
Qty: 15



Trim Panel Retainer Cowl Side & Garnish Center Pillar Retainer
Art. No. 500.19129
OEM #: 67771-30090

Material: Yellow Nylon
 Bottom Head Dia: 18mm
 Top Head Dia: 13mm
 Stem Dia: 9.5mm
 Stem Length: 17mm
 Toyota Land Cruiser & 2WD Truck
 1991 - On
 GM OEM #: 95008221
Qty: 15



Weatherstrip Retainer
Art. No. 500.19749
OEM #: 67867-12150

Material: White Nylon
 Stem Length: 10mm
 Stem Dia: 6mm
 Bottom Head Dia: 5mm x 15mm
 Toyota Avalon 1995 - On
Qty: 25



Black Nylon Rocker Moulding Retainer
Art. No. 502.22457
OEM#: 76924-13020

Head Diameter: 25mm
 Stem Length: 11mm
 Fits into 14mm Hole
Qty: 50



Black Nylon Side Mud Guard Push-Type Retainer
Art. No. 502.22502
OEM#: 76923-52021

Head Diameter: 29mm
 Stem Length: 10mm
 Fits into 22mm Hole
Qty: 25



Black Nylon Rocker Moulding Retainer with Sealer
Art. No. 502.22570
OEM#: 90467-22015

Head Diameter: 47mm
 Stem Length: 35mm
 Fits into 22mm Hole
Qty: 20

TOYOTA/LEXUS RETAINERS



Push-Type Retainer
Art. No. 500.17988
OEM #: 90467-09143

Material: Black Nylon
 Head Dia: 19mm
 Stem Length: 26mm
 Fits Into: 9mm
Qty: 10



Push-Type Retainer
Art. No. 500.18270
OEM #: 90467-07117

Material: Black Nylon
 Head Dia: 17mm
 Stem Length: 9mm
 Fits Into: 7mm Hole
 Lexus 1990-On
Qty:10



Bumper Cover Push-Type Retainer
Art. No. 500.18939
OEM #: 90467-09101

Material: Black Nylon
 Head Dia: 18mm
 Stem Length: 23mm
 Fits Into: 9mm Hole
 ES300 1993-On
Qty: 25



Bumper Cover Push-Type Retainer
Art. No. 500.17439
OEM #: 90467-09093

Material: Black Nylon
 Head Dia: 15mm
 Stem Dia: 27mm
 Fits Into: 9mm Hole
Qty: 20



Black Nylon Trunk Side Trim Retainer
Art. No. 502.22473
OEM#: 90467-A0002-C0

Head Diameter: 16mm
 Stem Diameter: 8mm
 Stem Length: 16mm
Qty: 25



Blue Nylon Rocker Panel Retainer
Art. No. 502.22478
OEM#: 75867-52020

Top Head Diameter: 13mm
 Bottom Head Diameter: 18mm
 Stem Diameter: 9.5mm
 Stem Length: 13mm
 Overall Length: 19mm
Qty: 25



Blue Nylon Door Trim Retainer with Sealer
Art. No. 502.22486
OEM#: 67771-26240

Top Head Diameter: 13mm
 Middle Head Diameter: 16mm
 Bottom Head Diameter: 18mm
 Stem Diameter: 9.6mm
 Stem Length: 10mm
 Overall Length: 16.5mm
Qty: 25



Black Nylon Fender Seal Retainer
Art. No. 502.22598
OEM#: 90467-07208

Head Diameter: 16mm
 Stem Diameter: 8mm
 Stem Length: 16mm
 Fits Into 8mm Hole
Qty: 25



White Nylon Rocker Panel & Wheel Opening Moulding Retainer
Art. No. 502.22571
OEM#: 75867-68010

Top Head Diameter: 13mm
 Bottom Head Diameter: 18mm
 Stem Length: 14.5mm
 Stem Diameter: 9.5mm
Qty: 50



Black Nylon Fender Liner Push-Type Retainer
Art. No. 502.22439
OEM#: 90467-07215

Head Diameter: 20mm
 Stem Length: 10mm
 Fits into 7mm Hole
Qty: 50



White Nylon Door Scuff Plate Retainer
Art. No. 502.22479
OEM#: 51787-60070

Top Head Size: 12mm x 17mm
 Middle Head Diameter: 15mm
 Bottom Head Diameter: 18mm
 Stem Diameter: 8.5mm
 Stem Length: 9mm
Qty: 25



White Nylon Lower Door Moulding Retainer with Sealer
Art. No. 502.22455
OEM#: 90467-A0032

Top Head Diameter: 10mm
 Bottom Head Diameter: 15mm
 Stem Diameter: 8.3mm x 8.3mm
 Stem Length: 10mm
Qty: 25

TOYOTA/LEXUS
RETAINERS


Weatherstrip Retainer
Art. No. 500.18692
OEM #: 67868-89101, 67867-89103

Material: Natural Nylon
 Head Dia: 5mm x 15mm
 Stem Length: 10mm
 Fits Into: 5mm Hole
 Toyota 4-Runner 1989-83, Mazda 1996 - On
 Ford
 Mazda OEM #: G031-58-762
Qty: 50



White Nylon Scuff Plate Retainer
Art. No. 502.22471
OEM#: 90467-A0007

Top Head Diameter: 13mm
 Bottom Head Diameter: 18mm
 Stem Diameter: 9.3mm
 Stem Length: 11mm
Qty: 25

TOYOTA/LEXUS
SPECIALTY RIVETS


Rivet
Art. No. 500.20628
OEM #: 90269-04050

Material: Aluminum Rivet with Plastic Cap
 Steel Mandrel
 Dia: 1/8"
 Grip: 5/32" - 5/16"
 Flange Dia: 5/16"
 Lexus GS300, 400, 430 & SC430
 1998 - On
Qty: 25



"Peel-Type" & Specialty Rivets
Art. No. 500.20788
OEM #: 90269-04051

Material: Aluminum Rivet with Plastic Cap
 Steel Mandrel
 Dia: 1/8"
 Grip: 3/64" - 1/8"
 (1.2mm - 3.4mm)
 Flange Dia: 15/64" (6mm)
 Lexus 1998 - On
Qty: 25



Rivet
Art. No. 500.20627
OEM #: 90269-04053

Material: Aluminum Rivet (Black) with Plastic Cap
 Steel Mandrel (Black)
 Dia: 1/8"
 Grip: 3/64" - 3/16"
 Flange Dia: 5/16"
 Mouldings
 Toyota Land Cruiser 1998 - On
Qty: 25



Gas Filler Door Rivet
Art. No. 500.20834
OEM #: 90269-06013

Material: Aluminum Rivet with Plastic Cap
 Steel Mandrel
 Dia: 3/16"
 Grip: 1/16" - 1/4"
 Flange Dia: 9/16"
 Toyota Camry & Lexus IS300
 2001 - On
Qty: 15

TOYOTA/LEXUS
GROMMETS


Neon Yellow Nylon Headlamp Assembly Grommet
Art. No. 502.22566
OEM#: 90189-06238

Screw Size: M4.8 (#8)
 Head Diameter: 17mm
 Stem Length: 8mm
 Fits into 9mm x 9mm Hole
Qty: 25



Natural Nylon Rear Combination Tail Light Guide Grommet with Sealer
Art. No. 502.22488
OEM#: 81496-52020, 81496-0E020

Head Diameter: 16mm
 Stem Length: 14mm
 Overall Length: 15mm
Qty: 25



Screw Grommet
Art. No. 502.19783
OEM#: 90075-10801, 90189-06111

Material: White Nylon
 Head Dia: 13mm
 Stem Length: 9mm
 Fits Into: 11mm Hole
 Ford, Lexus & Toyota
 Ford OEM#: N811169-S, W705550-S300
Qty: 50



Fender Liner Screw Grommet
Art. No. 500.19756
OEM #: 90189-06214

Material: Black Nylon
 Head Dia: 16mm
 Stem Length: 18mm
 Screw Size: #12 (M5.5)
 Toyota Sienna, Tacoma & Tundra
 Pick-Up
 1999 - On
Qty: 25



Screw Grommet
Art. No. 500.14281
OEM #: 90189-04066

Material: White Nylon
 Head Dia: 14mm
 Stem Length: 10mm
 Fits Into: 7mm x 7mm Hole
 Screw Size: #6
 Honda OEM #: 90666-693-003
Qty: 25



Screw Grommet #8 Screw Size
Art. No. 500.14695
OEM #: 90189-06042

Material: White Nylon
 Head Dia: 16mm
 Stem Length: 17mm
 Fits Into: 8mm x 8mm Hole
 Honda OEM #: 90661-SC7-0030
 Nissan OEM #: 01651-00481
 Mazda OEM #: H001-50-841
 Mitsubishi OEM #: MS-480012
Qty: 50



Screw Grommet #10 Screw Size
Art. No. 500.14275
OEM #: 90189-06001

Material: White Nylon
 Head Dia: 18mm
 Stem Length: 17mm
 Fits Into: 8.5mm x 8.5mm Hole
 Nissan OEM #: 01281-00023;
 Mitsubishi OEM #: MB-098145
Qty: 50



Screw Grommet #10 Screw Size
Art. No. 500.19194
OEM#: 90189-06028

Material: Black Nylon
 Head Dia: 16mm
 Stem Length: 19mm
 Fits Into: 9mm x 9mm Hole
 Screw Size: #12
 GM OEM #: 94854203
Qty: 30



Screw Grommet #10 Screw Size
Art. No. 500.13932
OEM #: 90189-05013

Material: Natural Nylon
 Width: 12mm
 Length: 12mm
 Fits Into: 8mm x 9mm Hole
 Mitsubishi OEM #: MS-480002
Qty: 100



Art. No. 500.14274
OEM #: 90189-06010

Material: Natural Nylon
 Dimensions: 13mm x 13mm
 Fits Into: Snaps into 8.5mm x 8.5mm Hole
 Screw Size: #10
 Honda OEM #: 75521-611-0000
 Nissan OEM #: 9676-P0105
 Mazda OEM #: 9991-00-601
Qty: 75



Screw Grommet #10 Screw Size
Art. No. 500.14265
OEM #: 90189-06006

Material: Natural Nylon
 Head Dia: 17mm
 Fits Into: 9mm x 9mm Hole
Qty: 25



Screw Grommet #14 (1/4") or M6.3-1.81 screw size
Art. No. 500.7757
OEM #: 90189-06005

Material: White Nylon
 Head Dia: 18mm
 Stem Length: 16mm
 Fits Into: 8mm x 8mm Hole
Qty: 25

TOYOTA/LEXUS
GROMMETS


Fender Lining Screw Grommet
Art. No. 500.19721
OEM #: 90189-06157

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 22mm
 Fits Into: 8mm x 8mm Hole
 Screw Size: #12
 Toyota Avalon, Camry, Rav 4, Solara & Tacoma 1995 - On
Qty: 25



Hood & Fender Screw Grommet
Art. No. 500.20440
OEM #: 90189-06065

Material: Black Nylon
 Head Dia: 20mm
 Stem Length: 18mm
 Screw Size: M5.5 (#12)
 Fits Into: 9mm x 9mm Hole
 Toyota Camry & RAV 4 1999 - 95
Qty: 25



Fender Lining Screw Grommet
Art. No. 500.19742
OEM #: 90189-06104

Material: Natural Nylon
 Head Dia: 18mm
 Stem Length: 15mm
 Fits Into: 9mm Square Hole
 Screw Size: #12 (M5.5)
 Lexus IS300 & Toyota Avalon, Camry & Sienna 1997 - On
Qty: 15



Screw Anchor
Art. No. 500.7710
OEM #: 90189-04014

Material: Natural Nylon
 Dimensions: 10mm x 10mm
 Screw Size: #8
 Snaps Into: 7mm x 7mm Hole
Qty: 50



Screw Anchor
Art. No. 500.14271
OEM #: 90189-04011

Material: Natural Nylon
 Screw Size: #6
 Dimensions: 12mm x 12mm
 Fits Into: 7mm x 7.5mm Hole
Qty: 50



Screw Grommet
Art. No. 500.7758
OEM #: 90189-06006

Material: Natural Nylon
 Head Dia: 17mm
 Fits Into: 9mm x 9mm Hole
 Screw Size: #10
Qty: 25



Screw Grommet #8 Screw Size
Art. No. 500.14256
OEM #: 90189-04014

Material: Natural Nylon
 Width: 10mm
 Length: 10mm
 Fits Into: 7mm x 7mm Hole
Qty: 50

TOYOTA/LEXUS
SPECIALTY CLIPS/MOULDING CLIPS


Luggage Compartment Trim Panel Retainer
Art. No. 500.19312
OEM #: 90467-05096-22

Material: Black Nylon
 Bottom Head Dia: 16mm
 Stem Length: 13mm
 Stem Dia: 5mm
 Toyota Tercel & Paseo 1994 - On
Qty: 25



Bumper Strip Retainer
Art. No. 500.876226
OEM #: 90468-04030

Toyota 1984 - On
Qty: 25



Rocker Panel Clip
Art. No. 500.19842
OEM #: 78567-30110

Material: Black Nylon
 Head Dia: 18mm
 Stem Length: 22mm
 Fits Into: 9mm Hole
 Toyota Corolla 1997 - On
Qty: 15



Front Bumper Cushion Clip
Art. No. 500.845802
OEM #: 90183-03001

Toyota 1982 - On
Qty: 15

TOYOTA/LEXUS
SPECIALTY CLIPS/MOULDING CLIPS


Door Lower Moulding Clip
Art. No. 500.19120
OEM #: 75039-33060

Material: Brown & White Nylon
 ES300 1991-On
Qty: 10



Black Nylon Hood Release Cable Clamp Clip
Art. No. 502.22472
OEM#: 90467-06005

Head Size: 16mm x 21mm
 Holds 5mm Diameter Rod
 Stem Diameter: 12mm
 Stem Length: 9mm
Qty: 25



Rubber & Nylon Rear Door Rubber Bumper
Art. No. 502.22490
OEM#: 90541-09124

Rubber Diameter Top: 14mm
 Rubber Diameter Bottom: 17mm
 Overall Height: 16.5mm
Qty: 25



Black Nylon Hood Seal Retaining Clip
Art. No. 502.22497
OEM#: 65487-60010

Head Size: 5mm x 13mm
 Stem Diameter: 7mm
 Stem Length: 8mm
Qty: 25



Yellow Nylon Rocker Moulding Clip with Sealer
Art. No. 502.22525
OEM#: 75494-42010, 75395-42020

Top Head Size: 10.3mm x 16.5mm
 Bottom Head: 13.5mm x 17.5mm
 Stem Length: 19mm
Qty: 25



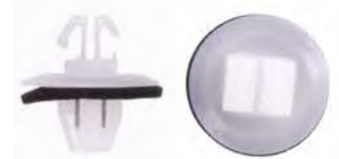
Black Nylon Fender Liner Retaining Clip
Art. No. 502.22487
OEM#: 90467-06192

Head Size: 14.5mm x 16mm
 Stem Diameter: 10.5mm
 Stem Length: 10mm
 Fits into 8mm Hole
Qty: 25



Black Nylon Front Fender Retaining Clip with Sealer
Art. No. 502.22495
OEM#: 90467-06205-C0

Head Diameter: 20mm
 Stem Diameter: 8mm
 Stem Length: 9mm
Qty: 25



Rocker Panel Moulding Clip with Sealer
Art. No. 500.17481
OEM #: 90467-11063

Material: White Nylon
 Head Dia: 18mm
 Stem Length: 9mm
 Toyota Previa 1990 - On
Qty: 25



Front Fender & Bumper Cover Clip
Art. No. 500.20758
OEM #: 53879-58010

Material: Black Nylon
 Width: 25mm
 Length: 34mm
 Lexus and Toyota 4 Runner, Highlander, Sienna & Solara 2000 - On
Qty: 5



Black Nylon Fender Liner Retaining Clip
Art. No. 502.22489
OEM#: 53879-30050

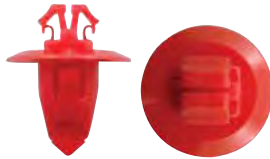
Width: 42mm
 Length: 29.5mm
Qty: 25



TOYOTA/LEXUS
SPECIALTY CLIPS/MOULDING CLIPS

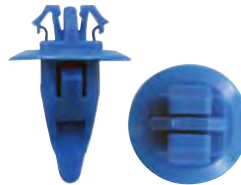

Fender & Wheel Flare Moulding Clip
Art. No. 500.20429
OEM #: 90467-11100

Material: Yellow Nylon
 Head Dia: 17mm
 Stem Length: 17mm
 Toyota Highlander, Land Cruiser,
 Tacoma & Tundra 2000 - On
Qty: 20



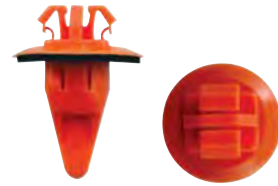
Fender Moulding Clip (Red)
Art. No. 500.20391
OEM #: 90904-67037

Material: Red Nylon
 Head Dia: 17mm
 Stem Length: 13mm
 Toyota Highlander, Land Cruiser,
 Tacoma & Tundra 2001 - On
Qty: 20



Fender Moulding Clip (Blue)
Art. No. 500.20390
OEM #: 90904-67036

Material: Blue Nylon
 Head Dia: 17mm
 Stem Length: 17mm
 Toyota Highlander, Land Cruiser,
 Tacoma & Tundra 2001 - On
Qty: 20



Wheel Flare Moulding Clip with Sealer
Art. No. 500.20688
OEM #: 75397-35010

Material: Orange Nylon
 Head Dia: 17mm
 Stem Length: 17mm
 4-Runner
 2003 - On
Qty: 10



Door Moulding Clip with Sealer
Art. No. 500.19797
OEM #: 90467-10077

Material: Butterscotch Nylon
 Head Dia: 15mm
 Stem Length: 9mm
 Fits Into: 8mm Hole
 Avalon & Corolla 1998 - On
Qty: 25



Rocker Moulding Clip with Sealer
Art. No. 500.20687
OEM #: 75495-35010

Material: Blue Nylon
 Head Dia: 17mm
 Stem Length: 10mm
 4-Runner 2003 - On
Qty: 10



Yellow Nylon Rocker & Quarter Vent Moulding Clip with Sealer
Art. No. 502.22456
OEM#: 62955-50010

Top Head Size: 8mm x 8mm
 Bottom Head Diameter: 15mm
 Stem Diameter: 8mm x 8mm
 Stem Length: 11mm
Qty: 25



Yellow Nylon Door Garnish Clip with Sealer
Art. No. 502.22454
OEM#: 76817-68010

Top Head Size: 10mm x 10mm
 Bottom Head Diameter: 16mm
 Stem Diameter: 9.5mm x 9.5mm
 Stem Length: 15mm
Qty: 25



Fender Flare and Bumper Clip
Art. No. 500.21016
OEM #: 75392-35200, 75392-04010

Material: Blue Nylon
 Head Dia: 13mm x 26mm
 Stem Length: 24mm
 Toyota Camry, FJ, RAV 4 & Tacoma
 2001 - On **Qty: 15**

TOYOTA/LEXUS
HARDWARE/BODY BOLTS/SCREWS


Extruded "U" Nuts
Art. No. 502.10052
OEM #: 1494258, 379831-S

Material: Phosphate
 Center of Hole To Edge: 27/32"
 Screw Size: 5/16"-18
 Panel Range: .025"-.150"
Qty: 50



**Nylon "U" Nut Fender/
 Wheel Housing Application**
Art. No. 500.7793
OEM #: 53879-1410-A,53879-4020

Material: Black Nylon
 Center of Hole To Edge: 11mm
 Screw Size: #10
 Length: 31mm
 Width: 20mm
 Panel Range: Up 1mm
Qty: 50



**Nylon "U" Nut Fender/Wheel
 Housing Applications**
Art. No. 502.14276
OEM #: 53879-22010

Material: Black Nylon
 Width: 20mm
 Length: 29mm
 Panel Range: Up to 1mm
 Center of Hole to Edge: 15mm
 Screw Size: #14 (1/4")
Qty: 15



**Bumper & Fender Apron
 Nylon "U" Nut**
Art. No. 500.20956
OEM #: 90467-05114

Material: Black Nylon
 Width: 20mm, Length: 36mm
 Center Of Hole to Edge: 14mm
 Panel Range: Up To 1mm
 Screw Size: M5.5 (#12)
 Lexus & Toyota
Qty: 10



**Nylon "U" Nut Fender/Wheel
 Housing Applications**
Art. No. 500.14750
**OEM #: 53879-14010-A, 53879-
 14020,53879-22030**

Width: 20mm
 Length: 31mm
 Panel Range: Up to 1mm
 Center of Hole To Edge: 11mm
 Screw Size: #10
 GM: 94841226;
 Mazda OEM #: LA01-56-135
Qty: 25

TOYOTA/LEXUS
HEADLIGHT/DOOR/WINDOW/HOOD ACCESSORIES


Hood Insulation Retainer
Art. No. 500.19729
OEM #: 90467-09050

Material: Black Nylon
 Bottom Head Dia: 25mm
 Stem Length: 10mm
 Stem Dia: 9mm
 Lexus, Toyota Camry & Solara 1998 - On
Qty: 15



Metric Pushnut Bolt Retainers
For Threaded Fasteners
Art. No. 502.14980

Material: Zinc
 Thread Size: M6 - 1.0
 Dia: 17mm
Qty: 100



White Nylon Door Sill, Headliner, Liftgate Trim Cover, Pillars, Scuff Plate & Window Trim Retainer
Art. No. 502.22460
OEM#: 62489-0E010

Top Head Diameter: 13mm
 Middle Head Diameter: 16mm
 Bottom Head Diameter: 18mm
 Stem Diameter: 11mm
 Stem Length: 14mm
 Overall Length: 20mm
Qty: 25

VOLKSWAGEN
INDEX

OEM No.	Art. No.	Type
161-867-299-01C	500.19195	Push-Type Retainer
380-868-243	500.20341	Door Trim Panel Retainer
823-867-299	500.20252	Trim Panel Retainer
N900-845-01	500.17006	Wheel Opening Moulding Attachment Specialty Rivet
N989022	502.11351	Door Trim Panel Retainer
179-813-883	502.12735	Headlight Bezel Nut

VW
SCREW GROMMETS


Headlight Bezel Nut
Art. No. 502.12735
OEM #: 179-813-883

Material: Nylon
 Screw Size: #6
 GM, Chrysler, VW 1982 - On
 GM OEM #: 1370853
 Chrysler OEM #: 6029501
Qty: 50

VW
SPECIALTY RIVETS


Wheel Opening Moulding Attachment Specialty Rivet
Art. No. 500.17006
OEM #: N900-845-01

Material: Aluminum Rivet (Black) Steel Mandrel
 Dia: 5/32"
 Grip: 1/4" - 3/8"
 Flange Dia. 15/32"
 VW Jetta, Rabbit & Golf
Qty: 100

VOLKSWAGEN/AUDI

RETAINERS



Black Nylon Carpet, Door Sill Plate, Floor Mat, Quarter Panel Trim, Scuff Plate & Wheel House Retainer
Art. No. 502.22447
OEM#: 6Q0-853-147

Top Head Size: 12mm x 14mm
 Overall Length: 21mm



Trim Panel Retainer
Art. No. 500.20252
OEM #: 823-867-299

Material: Black Nylon
 Bottom Head Dia: 18mm
 Top Head Dia: 14mm
 Stem Length: 14mm
 Stem Dia: 9mm
 VW Corrado, Eurovan, Jetta, Rabbit & Vanagon 1979 - On
Qty: 25



Black Nylon Interior Trim Panel & Cowl Cover Retainer
Art. No. 502.22449
OEM#: N90-911-301

Head Diameter: 20mm
 Stem Diameter: 8mm
 Stem Length: 16mm
Qty: 50



Push-Type Retainer
Art. No. 500.19195
OEM #: 161-867-299-01C

Material: Black Nylon
 Head Dia: 16mm
 Stem Length: 12mm
 Fits Into: 8mm Hole
 VW Golf & Jetta 1997-93
Qty: 25



Door Trim Panel Retainer
Art. No. 502.11351
OEM #: N989022

Material: Black Nylon
 Head Dia: 15/16"
 Stem Length: 11/16"
 Ford, Chrysler, VW 1975 - On
 Ford OEM #: 385661-S
 Chrysler OEM #: 6003349, 6032363
Qty: 50



Door Trim Panel Retainer
Art. No. 500.20341
OEM #: 3B0-868-243

Material: Black Nylon
 Head Dia: 22mm
 Stem Length: 12mm
 Fits into: 10mm Hole
 Beetle, Golf, Jetta & Passat 1998 - On
Qty: 25

VOLVO
INDEX

OEM No.	Art. No.	Type	Page No.
1268176-3	500.19248	Bumper Cover Push-Type Retainer	6-281
9133417-7	500.19904	Rocker Panel Retainer	6-281
979878-6	500.19376	Specialty Rivet	6-282

VOLVO
RETAINERS


Bumper Cover Push-Type Retainer
Art. No. 500.19248
OEM #: 1268176-3

Material: Black Nylon
 Head Dia: 16mm
 Stem Length: 14mm
 Fits Into: 6mm Hole
 740, 760 1993 - On
Qty: 15



Rocker Panel Push-Type Retainer
Art. No. 500.19904
OEM #: 9133417-7

Material: Black Nylon
 Head Dia: 16mm
 Stem Length: 14mm
 Fits Into: 9mm Hole
 850 Series 1994 - On
Qty: 25

VOLVO
SPECIALTY RIVETS


Specialty Rivet
Art. No. 500.19376
OEM #: 979878-6

Material: Aluminum Rivet & Aluminum
 Mandrel
 Black Polyethylene Coating
 Bumper & Wheel Housing
 Dia: 4mm
 Grip: 1/8"-11/32"
 Flange Dia: 15/32"
 Volvo 1993 - On
Qty: 25

MISCELLANEOUS INDEX

OEM No.	Art. No.	Type
10283414	502.19368	Door Weatherstrip Retainer
10405030	502.19368	Door Weatherstrip Retainer
11501850	502.11645	Metric Hex Flange Nuts
11503752	502.12595	Washer Nuts
11505329	502.12595	Washer Nuts
11508275	502.15330	Metric Free Spinning Washer Nuts
25601491	502.18174	Radiator Air Side Baffle & Door Trim Panel Retainer
445429	502.11292	U & "J" Type Nut
45334	502.15347	Free Spinning Washer Nuts
4637277	502.20175	Moulding Fastener - Universal
4689929	502.2818	Moulding Fastener - Universal
4730773	502.20175	Moulding Fastener - Universal
4778814	502.2818	Moulding Fastener - Universal
6023204	502.15347	Free Spinning Washer Nuts
6025004	502.15347	Free Spinning Washer Nuts
6025007	502.15350	Free Spinning Washer Nuts
6100047	502.19216	Metric Free Spinning Washer Nuts
9422552	502.11292	U & "J" Type Nut
N90100001	502.12595	Metric Free Spinning Washer Nuts
W525170-S417	502.19414	Side Door Lock Attachment "Peel-Type" Rivet
	502.7595	Hog Ring
	502.19250	Trim Panel Retainer (White version of 502.11146)
	502.19373	Universal Moulding Fastener
N8071545	502.19373	Trim Panel Retainer
	502.20455	M4.8-2.12 x 20mm PH Truss Head Tapping Screw
	502.15775	Hex Head Sems® w/Teks® Point
	502.2805	PH Washer Head
	502.2806	PH Round Washer Head.
	502.12957	PH Oval Head Flush Washer Tapping Screw
	502.10654	PH Oval Head Flush Washer Tapping Screws
	502.10164	PH Oval Head Tapping Screws
	502.10166	PH Oval Head Tapping Screws
	502.11449	PH Oval Head Sems® Teks® Finishing Screws with No. 6 Head & No. 2 Drill Point
	502.11454	PH Oval Head Sems® Teks® Finishing Screws with No. 6 Head & No. 2 Drill Point
	502.11455	PH Oval Head Sems® Teks® Finishing Screws with No. 6 Head & No. 2 Drill Point
	502.10652	PH Oval Head Sems® Flush Washer Tapping Screws
	502.10653	PH Oval Head Sems® Flush Washer Tapping Screws
	502.11451	PH Oval Head Sems® Teks® Finishing Screws with No. 6 Head & No. 2 Drill Point
	502.11456	PH Oval Head Sems® Teks® Finishing Screws with No. 6 Head & No. 2 Drill Point
	502.11457	PH Oval Head Sems® Teks® Finishing Screws with No. 6 Head & No. 2 Drill Point
	502.11914	Super Teks® - Hex Washer Head #3 Teks® Point
	502.12213	PH Flat Top Washer Head Tapping Screws Black E-Coat or Zinc
	502.12215	PH Flat Top Washer Head Tapping Screws Black E-Coat or Zinc
	502.12216	PH Flat Top Washer Head Tapping Screws Black E-Coat or Zinc
	502.12217	PH Flat Top Washer Head Tapping Screws Black E-Coat or Zinc
	502.12218	PH Flat Top Washer Head Tapping Screws Black E-Coat or Zinc
	502.12820	PH Pan Head Sems® Tapping Screws
	502.12953	PH Flat Top Washer Head Tapping Screws
	502.12954	PH Flat Top Washer Head Tapping Screws
	502.12955	PH Flat Top Washer Head Tapping Screws
	502.16997	PH Oval Washer Head
	502.17650	PH Round Washer Head With Teks® Point
	502.19778	PH Round Washer Head with Teks® Point Tapping Screw
	502.19798	PH Flat Top Washer Head Tapping Screws
	502.11295	Hexagon Washer Head Thread Cutting Screws - Type "F"
	502.2730	PH Oval Head Tapping Screws
	502.2968	Hexagon Washer Head Tapping Screws
	502.2974	Hexagon Washer Head Tapping Screws
	502.2978	Hexagon Washer Head Tapping Screws
	502.2979	Hexagon Washer Head Tapping Screws
	502.2980	Hexagon Washer Head Tapping Screws
	502.9620	Super Teks® - Hex Washer Head #3 Teks® Point
	500.19170	PH Truss Head - Japanese Imports
	500.20556	Hex Head Sems®
	502.5774	Hexagon Washer Head Thread Cutting Screws - Type "F"
	502.2981	Hexagon Washer Head Tapping Screws
	502.2989	Hexagon Head Sems® Tapping Screws
	502.5330	Indented Hex Head Tapping Screws
	502.5784	Hexagon Washer Head Thread Cutting Screws - Type "F"
	502.8443	Hexagon Washer Head Thread Cutting Screws - Type "F"
	502.9615	Teks® Self-Drilling Self-Tapping Screw, Hex Washer Head
	502.8863	Flat Push-On Retainer for Non-Threaded Fasteners, Plated
	502.8864	Flat Push-On Retainer for Non-Threaded Fasteners, Plated
	502.10086	Pushnut Bolt Retainers for Threaded Fasteners
	502.10087	Pushnut Bolt Retainers for Threaded Fasteners

INDEX

MISCELLANEOUS

OEM No.	Art. No.	Type
	502.8865	Flat Push-On Retainer for Non-Threaded Fasteners, Plated
	502.9297	Pushnut Bolt Retainers for Threaded Fasteners
	502.9299	Pushnut Bolt Retainers for Threaded Fasteners
	502.12123	Metric Pushnut Bolt Retainer for Threaded Fasteners
	502.12259	Metric Pushnut Bolt Retainer for Threaded Fasteners
	502.12127	Metric Pushnut Bolt Retainer for Threaded Fasteners
	502.2895	Thread Cutting Nuts
	502.2896	Thread Cutting Nuts
	502.12119	Metric Push-On Retainers
	502.12122	Metric Pushnut Bolt Retainers
	502.12125	Metric Pushnut Bolt Retainers
	502.12260	Metric Pushnut Bolt Retainers For Threaded Fasteners
	502.10733	Thread Cutting Nuts
	502.2897	Thread Cutting Nuts
	502.3405	Thread Cutting Nuts
	502.3404	Thread Cutting Nuts
	502.3403	Thread Cutting Nuts
	502.15752	Spring Type "U" Nuts
	502.10067	Spring Type "U" Nuts
	502.10064	Spring Type U-Nut
	502.10666	U & "J" Type Nut
	502.10065	Spring Type U-Nut
	502.11429	"U" & "J" Type Nuts
	502.13225	"U" & "J" Type Nuts
	502.2422	"U" & "J" Type Nuts
	500.13216	"U" & "J" Type Nuts
	502.5197	"U" & "J" Type Nuts
	502.3770	"U" & "J" Type Nuts
	502.17586	Well Nuts
	502.16242	Mirror/luggage rack Fastener Well Nut
	502.19309	Metric Free Spinning Washer Nuts
	502.19548	Washer Type Metric Self-Threading Nuts
	502.2562	Washer Lock Nuts
	502.2557	Washer Lock Nuts
	502.13016	Jack Nuts
	502.16792	Steel Rivet Washers
	502.3985	SAE Washer #10
	502.3984	SAE Washer #6
	502.16791	Steel Rivet Washers
	502.20448	Shim
	502.20449	Shim
	502.3155	Shim
	502.3156	Shim
	502.2452	Shim
	502.2453	Shim
	502.2999	Shim
	502.3000	Shim
	502.13755	Blind Nylon Rivet
	502.18502	Blind Nylon Rivet
	502.17410	Closed End Rivet
	502.9886	Door and Window Crank Handle Retaining Clip

SPECIALTY CLIPS/RETAINERS/MOULDING CLIPS



Hog Ring Upholstery Clip
Art. No. 502.7595

Wire Dia: .080
Qty: 500



Trim Panel Retainer
Art. No. 502.19250

Material: White Nylon
Bottom Head Dia: 11/16"
Stem Length: 13/16"
Stem Dia: 5/16"
Qty: 30



Trim Panel Retainer
Art. No. 502.19373
OEM #: N8071545

Material: Zuca Granite (Light Grey Nylon)
Ford 1991 - On
Qty: 50

Pack sizes subject to change without notice

Some sizes and finishes available OnDemand

MISCELLANEOUS

SPECIALTY CLIPS/RETAINERS/MOULDING CLIPS



Moulding Fastener
Art. No. 502.20175
OEM #: 4637277, 4730773

Plate Length: 1-5/8"
 Plate Width: 11/16"
 Screw Size: #10-24 x 3/4"
Qty: 25



Radiator Air Side Baffle & Door Trim Panel Retainer
Art. No. 502.18174
OEM #: 25601491

Material: Black Nylon
 Bottom Head Dia: 3/4"
 Stem Length: 13/16"
 Stem Dia: 5/16"
 Buick LeSabre, Olds Delta 88 Royale
 1992 - On
Qty: 75



Moulding Fastener
Art. No. 502.2818
OEM #: 4689929, 4778814

Plate Length: 3/4"
 Plate Width: 5/16"
 Screw Size: #10-24 x 3/4" Bolt
Qty: 10

HARDWARE/BODY BOLTS/SCREWS



PH Washer Head
Art. No. 502.2805

Material: Zinc
 Washer O.D.: 3.8"
 Screw Size: #8 x 7/16"
Qty: 100



PH Round Washer Head.
Art. No. 502.2806

Material: Chrome
 Length: 5/8"
 Washer O.D.: 13/32"
 Screw Size: #8 x 5/8"
Qty: 100



PH Oval Head Tapping Screws
Art. No. 502.10164

Screw Size: #8 x 3/4"
 Head: #6
Qty: 100



PH Oval Head Sems® Flush Washer Tapping Screws
Art. No. 502.10653

Screw Size: #8 x 11/16"
 Head: #6
Qty: 100



M4.8-2.12 x 20mm PH Truss Head Tapping Screw
Art. No. 502.20455

Material: Black Phosphate
 Screw Size: M4.8 - 1.12 x 20mm (#10 x 25/32")
 14mm Head O.D.
 Imports
Qty: 50



Hex Head Sems® w/Teks Point
Art. No. 502.15775

Material: Phosphate
 Screw Size: M4.6-1.41 x 20mm
 Washer O.D: 12mm
 Hex: 7mm
Qty: 50



PH Oval Head Sems® Teks® Finishing Screws with No. 6 Head & No. 2 Drill Point
Art. No. 502.11454

Washer Type: Countersunk
 Screw Size: #8 x 5/8"
Qty: 100



PH Oval Head Sems® Teks® Finishing Screws with No. 6 Head & No. 2 Drill Point
Art. No. 502.11455

Washer Type: Countersunk
 Screw Size: #8 x 3/4"
Qty: 100

MISCELLANEOUS
HARDWARE/BODY BOLTS/SCREWS


PH Oval Head Flush Washer Tapping Screw
Art. No. 502.12957

Material: Black Phosphate
 Head Dia: 1/2"
 Screw Size: #8 x 1"
Qty: 100



PH Oval Head Flush Washer Tapping Screws
Art. No. 502.10654

Material: Black Finish
 Screw Size: #8 x 1-1/4"
 Head: 6mm
 Screw Size: #8
 Length: 20mm
Qty: 100



PH Oval Head Tapping Screws
Art. No. 502.10166

Screw Size: #8 x 1"
 Head: #6
Qty: 100



PH Oval Head Sems® Teks® Finishing Screws with No. 6 Head & No. 2 Drill Point
Art. No. 502.11451

Washer Type: Countersunk
 Screw Size: #8 x 1"
Qty: 50



PH Oval Head Sems® Teks® Finishing Screws with No. 6 Head & No. 2 Drill Point
Art. No. 502.11456

Washer Type: Countersunk
 Screw Size: #8 x 1"
Qty: 50



Super Teks® - Hex Washer Head #3 Teks® Point
Art. No. 502.11914

Screw Size: #14 x 1"
Qty: 50



PH Flat Top Washer Head Tapping Screws Black E-Coat or Zinc
Art. No. 502.12216

Material: Black E-Coat
 Screw Size: #8 x 1"
 Washer Head Dia: 13/32"
Qty: 100



PH Flat Top Washer Head Tapping Screws Black E-Coat or Zinc
Art. No. 502.12215

Material: Black E-Coat
 Screw Size: #8 x 3/4"
 Washer Head Dia: 13/32"
Qty: 100



PH Oval Head Sems® Teks® Finishing Screws with No. 6 Head & No. 2 Drill Point
Art. No. 502.11457

Washer Type: Countersunk
 Screw Size: #8 x 1-1/4"
Qty: 50



PH Flat Top Washer Head Tapping Screws Black E-Coat or Zinc
Art. No. 502.12217

Material: Black E-Coat
 Screw Size: #8 x 1-1/4"
 Washer Head Dia: 13/32"
Qty: 100



PH Flat Top Washer Head Tapping Screws
Art. No. 502.12953

Material: Black E-Coat
 Screw Size: #10 x 3/4"
 Washer Dia: 15/32"
Qty: 50

MISCELLANEOUS
HARDWARE/BODY BOLTS/SCREWS


PH Flat Top Washer Head Tapping Screws Black E-Coat or Zinc
Art. No. 502.12213

Material: Black E-Coat
 Screw Size: #8 x 1/2"
 Washer Head Dia: 13/32"
Qty: 100



PH Oval Head Sems® Tek® Finishing Screws with No. 6 Head & No. 2 Drill Point
Art. No. 502.11449

Washer Type: Countersunk
 Screw Size: #8 x 5/8"
Qty: 100



PH Oval Head Sems® Flush Washer Tapping Screws
Art. No. 502.10652

Screw Size: #8 x 5/8"
 Head: #6
Qty: 100



PH Pan Head Sems® Tapping Screws
Art. No. 502.12820

Screw Size: #8 x 3/4"
 Washer Dia: 1/2"
Qty: 50



PH Flat Top Washer Head Tapping Screws
Art. No. 502.12954

Material: Black E-Coat
 Screw Size: #10 x 1"
 Washer Dia: 15/32"
Qty: 50



PH Flat Top Washer Head Tapping Screws
Art. No. 502.12955

Material: Black E-Coat
 Screw Size: #10 x 1-1/4"
 Washer Dia: 15/32"
Qty: 50



PH Oval Washer Head
Art. No. 502.16997

Material: Black E-Coat
 Screw Size: #8 x 3/8"
 Washer Head Outer Head Dia: 3/8"
Qty: 100



PH Round Washer Head With Tek® Point
Art. No. 502.17650

Material: Phosphate
 Screw Size: #8 x 3/4"
 Washer Head Outer Head Dia: 7/16"
Qty: 100



PH Flat Top Washer Head Tapping Screws Black E-Coat or Zinc
Art. No. 502.12218

Material: Black E-Coat
 Screw Size: #8 x 1-1/2"
 Washer Head Dia: 13/32"
Qty: 100



PH Round Washer Head with Tek® Point Tapping Screw
Art. No. 502.19778

Material: Zinc
 Screw Size: #8 x 1-1/4"
 Washer Head O.D: 7/16"
Qty: 50



Hexagon Washer Head Tapping Screws
Art. No. 502.2980

Material: Zinc
 Screw Size: 5/16 x 1-1/4"
 Hex Size: 7/16"
Qty: 25



Hexagon Washer Head Thread Cutting Screws - Type "F"
Art. No. 502.11295

Material: Bright Zinc Chromate
 Screw Size: 3/8"-16 x 1"
 Hex: 9/16"
Qty: 50

MISCELLANEOUS
HARDWARE/BODY BOLTS/SCREWS


Hexagon Washer Head Tapping Screws
Art. No. 502.2974

Material: Zinc
 Screw Size: #14 x 1"
 Hex Size: 3/8"
Qty: 50



Hexagon Washer Head Tapping Screws
Art. No. 502.2978

Material: Zinc
 Screw Size: 5/16 x 3/4"
 Hex Size: 7/16"
Qty: 50



Hexagon Washer Head Tapping Screws
Art. No. 502.2979

Material: Zinc
 Screw Size: 5/16 x 1"
 Hex Size: 7/16"
Qty: 50



Super Tek's® - Hex Washer Head #3 Tek's® Point
Art. No. 502.9620

Material: Zinc
 Screw Size: #14 x 3/4"
 Hex Size: 3/8"
Qty: 100



Hexagon Washer Head Thread Cutting Screws - Type "F"
Art. No. 502.8443

Material: Bright Zinc Chromate
 Screw Size: 5/16-18 x 1"
 Hex Size: 1/2"
Qty: 100



Hexagon Head Sems® Tapping Screws
Art. No. 502.2989

Material: Bright Zinc Chromate
 Screw Size: 14 x 1"
 Hex Size: 7/16"
 Washer O.D: 21/32"
Qty: 50



Indented Hex Head Tapping Screws
Art. No. 502.5330

Material: Bright Zinc Chromate
 Screw Size: 3/8 x 1"
 Hex Size: 9/16"
Qty: 25



Hexagon Washer Head Tapping Screws
Art. No. 502.2968

Material: Zinc
 Screw Size: #12 x 3/4"
 Hex Size: 5/16"
Qty: 100



Hexagon Washer Head Thread Cutting Screws
Art. No. 502.2981

Material: Zinc
 Screw Size: 5/16 x 1-1/2"
 Hex Size: 7/16"
Qty: 25



Hexagon Washer Head Thread Cutting Screws - Type "F"
Art. No. 502.5784

Material: Bright Zinc Chromate
 Screw Size: 1/4-20 x 3/4"
 Hex Size: 3/8"
Qty: 100



Teks® Self-Drilling Self-Tapping Screw, Hex Washer Head
Art. No. 502.9615

Material: Zinc
 Screw Size: 10 x 3/4"
 Hex Size: 5/16"
Qty: 100



PH Flat Top Washer Head Tapping Screws
Art. No. 502.19798

Material: Black Oxide
 Screw Size: #8 x 2"
 Washer Head O.D: 13/32"
Qty: 50

Pack sizes subject to change without notice

Some sizes and finishes available **OnDemand**

MISCELLANEOUS

HARDWARE/BODY BOLTS/SCREWS



PH Truss Head
Art. No. 500.19170

Material: Black Phosphate
Screw Size: M6.3-1.81 x 16mm
Head O.D: 15mm
Japanese Imports
Qty: 50



PH Hex Head Sems®
Art. No. 500.20556

Material: Black Zinc
Screw Size: M6.3-1.81 x 20mm
Washer O.D: 16mm
Hex: 10mm
Qty: 100



Hexagon Washer Head Thread Cutting Screws - Type "F"
Art. No. 502.5774

Material: Bright Zinc Chromate
Screw Size: 10-24 x 1/2"
Hex Size: 5/16"
Qty: 100



PH Oval Head Tapping Screws
Art. No. 502.2730

Material: Chrome
Screw Size: #10 x 1"
Head: #8
Qty: 100

HARDWARE/U-NUTS/PUSHNUTS



Flat Push-On Retainer for Non-Threaded Fasteners, Plated
Art. No. 502.8863

Material: Zinc
Stud: 1/8"
Washer O.D.: 3/8 O.D.
Qty: 100



Flat Push-On Retainer for Non-Threaded Fasteners, Plated
Art. No. 502.8864

Material: Zinc
Stud: 5/32"
Washer O.D.: 7/16"
Qty: 100



Pushnut Bolt Retainers for Threaded Fasteners
Art. No. 502.10086

Material: Zinc
Bolt Dia: 1/4"
Washer O.D.: 1/2"
Qty: 100



Thread Cutting Nuts
Art. No. 502.2896

Material: Zinc
Stud: 3/16"
Washer O.D.: 5/8"
Hex: 3/8"
Qty: 100



Pushnut Bolt Retainers for Threaded Fasteners
Art. No. 502.10087

Material: Zinc
Bolt Dia: 5/16"
Washer O.D.: 5/8"
Qty: 100



Flat Push-On Retainer for Non-Threaded Fasteners, Plated
Art. No. 502.8865

Material: Zinc
Stud: 3/16"
Washer O.D.: 7/16"
Qty: 100



Pushnut Bolt Retainers for Threaded Fasteners
Art. No. 502.9297

Material: Zinc
Bolt Dia: 3/8"
Washer O.D.: 25/32"
Qty: 50



Metric Pushnut Bolt Retainers
Art. No. 502.12125

Material: Zinc
Thread Size: M8-1.25
Dia: 16mm
Qty: 100



Metric Pushnut Bolt Retainer for Threaded Fasteners
Art. No. 502.12127

Material: Zinc
Stud: M12-1.75
Washer O.D.: 21mm
Qty: 100



Thread Cutting Nuts
Art. No. 502.2895

Material: Zinc
Stud: 1/8"
Washer O.D.: 17/32"
Hex: 5/16"
Qty: 100



Metric Push-On Retainers
Art. No. 502.12119

Material: Zinc
Stud Size: 4mm
Dia: 11mm
Qty: 100



Metric Pushnut Bolt Retainers
Art. No. 502.12122

Material: Zinc
Thread Size: M5 - 0.8
Dia: 11mm
Qty: 100

MISCELLANEOUS
HARDWARE/U-NUTS/PUSHNUTS


Pushnut Bolt Retainers for Threaded Fasteners
Art. No. 502.9299

Material: Zinc
Bolt Dia: 1/2"
Washer O.D.: 15/16"
Qty: 50



Metric Pushnut Bolt Retainer for Threaded Fasteners
Art. No. 502.12123

Material: Zinc
Stud: M6-1.0
Washer O.D.: 13mm
Qty: 100



Metric Pushnut Bolt Retainer for Threaded Fasteners
Art. No. 502.12259

Material: Zinc
Stud: M8-1.25
Washer O.D.: 24mm
Qty: 75



Thread Cutting Nuts
Art. No. 502.10733

Material: Zinc
Stud: 5/16"
Washer O.D.: 7/8"
Hex: 1/2"
Qty: 50



Thread Cutting Nuts
Art. No. 502.3405

Material: Zinc
Stud: 1/4"
Washer O.D.: 11/16"
Hex: 7/16"
Qty: 100



Thread Cutting Nuts
Art. No. 502.3404

Material: Zinc
Stud: 3/16"
Washer O.D.: 1/2"
Hex: 3/8"
Qty: 100



Thread Cutting Nuts
Art. No. 502.3403

Material: Zinc
Stud Size: 1/8"
Hex: 5/16"
Washer Dia: 7/16"
Qty: 100



Thread Cutting Nuts
Art. No. 502.2897

Material: Zinc
Stud: 1/4"
Washer O.D.: 19/32"
Hex: 7/16"
Qty: 100



Metric Pushnut Bolt Retainers For Threaded Fasteners
Art. No. 502.12260

Material: Dacromet
Thread Size: M10 - 1.50
Dia: 24mm
Qty: 100



#10 Screw Size
Art. No. 502.15752

Material: Phosphate
Panel Range: .025"-.150"
Center Of Hole To Edge: 9/16"
Qty: 50



Spring Type "U" Nuts
Art. No. 502.10067

Material: Phosphate
Screw Size: #14
Panel Range: .025"-.125"
Center Of Hole To Edge: 3/8"
Qty: 50



"U" & "J" Type Nut
Art. No. 502.11292
OEM #: 445429, 9422552

Material: Phosphate
Screw Size: #8
Panel Range: .045"-.062"
Center Of Hole To Edge: 3/8"
Qty: 50



"U" & "J" Type Nut
Art. No. 502.10666

Material: Phosphate
Screw Size: #8
Panel Range: .025"-.035"
Center Of Hole To Edge: 1 1/32"
Qty: 100



Spring Type U-Nut
Art. No. 502.10064

Material: Phosphate
Screw Size: #6
Panel Range: .025"-.125"
Center Of Hole To Edge: 3/8"
Qty: 50



"U" & "J" Type Nuts
Art. No. 502.2422

Material: Phosphate
Screw Size: #10
Panel Range: .025"-.064"
Center Of Hole To Edge: 3/8"
Qty: 50



"U" & "J" Nuts
Art. No. 500.13216

Material: Zinc & Yellow
Screw Size: 4.8mm
Panel Range: .9mm-2mm
Center of Hole to Edge: 8mm
Qty: 100

Pack sizes subject to change without notice

Some sizes and finishes available OnDemand

MISCELLANEOUS

HARDWARE/U-NUTS/PUSHNUTS



Spring Type U-Nut
Art. No. 502.10065

Material: Phosphate
Screw Size: #8
Panel Range: .025"-.125"
Center Of Hole To Edge: 3/8"
Qty: 100



"U" & "J" Type Nuts
Art. No. 502.11429

Material: Phosphate
Screw Size: #10
Panel Range: 0.15"-.060"
Center Of Hole To Edge: 15/32"
Qty: 50



"U" & "J" Nuts
Art. No. 502.13225

Material: Zinc
Screw size: 4.2mm
Panel Range: .5mm-2.5mm
Center of Hole to Edge: 8mm
Qty: 50



"U" & "J" Type Nuts
Art. No. 502.3770

Material: Phosphate
Screw Size: #10
Panel Range: .030"-.037"
Center Of Hole To Edge: 3/8"
Qty: 100



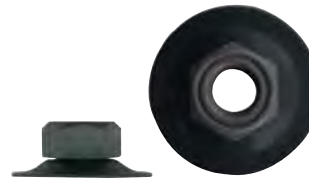
"U" & "J" Type
Art. No. 502.5197

Material: Phosphate
Machine Screw Size: #10-24
Panel Range: .045"-.062"
Center Of Hole To Edge: 9/16"
Qty: 50



Well Nuts
Art. No. 502.17586

Material: Neoprene with Captive Brass
Thread: #10-32
Head Dia: .750
Overall Length: .703
Shank Length: .625
Shank Dia: .375
Head Thickness: .078
Hole Size: 3/8"
Grip Range: .030 - .227
Qty: 30



Free Spinning Washer Nuts
Art. No. 502.15347
OEM #: 45334, 6023204, 6025004

Material: Phosphate
Thread Size: 1/4"-20
Washer Head Dia: 7/8"
Hex Size: 7/16"
Height: 5/16"
Qty: 50



Metric Free Spinning Washer Nuts
Art. No. 502.12595
GM OEM #: 11505329, 11503752, VWN90100001

Material: Phosphate
Thread Size: M6 - 1.0
Washer Dia: 16mm
Hex Size: 10mm
Height: 7mm
Qty: 50



Free Spinning Washer Nuts
Art. No. 502.15350
OEM #: 6025007

Material: Phosphate
Thread Size: 5/16"-18
Washer Head Dia: 3/4"
Hex Size: 1/2"
Height: 3/8"
Qty: 50



Metric Free Spinning Washer Nuts
Art. No. 502.19216
OEM #: 6100047

Material: Phosphate
Thread Size: M6-1.0
Washer O.D: 14mm
Hex Size: 10mm
Height: 8mm
Qty: 50



Metric Free Spinning Washer Nuts
Art. No. 502.19309

Material: Black Oxide
Thread Size: .M5-.8
Flange O.D: 11.5mm
Hex Size: 8mm
Height: 5mm
Qty: 100



Metric Free Spinning Washer Nuts
Art. No. 502.15330
OEM #: 11508275

Material: Zinc
Thread Size: M6-1.0
Washer Head Dia: 19mm
Hex Size: 10mm
Height: 8mm
Qty: 50

MISCELLANEOUS
HARDWARE/U-NUTS/PUSHNUTS


Washer Type Metric Self-Threading Nuts
Art. No. 502.19548

Material: Zinc
Stud Size: 6mm
Hex Width: 11mm
Washer Dia: 15mm
Qty: 50



Mirror/luggage rack Fastener Well Nut
Art. No. 502.16242

Material: Neoprene w/ Captive Brass Nut
Head Dia: .500"
Length: .554
Hole: 3/8
Panel Thickness: .015-.150
Qty: 25



Washer Lock Nuts
Art. No. 502.2562

Material: Zinc plated
Thread Size: .1/4"-20
Hex Width: 7/16"
O.D: 13/16"
Qty: 100



Washer Lock Nuts
Art. No. 502.2557

Material: Zinc plated
Thread Size: 10-24
Hex Width: 3/8"
O.D: 1/2"
Qty: 100



SAE Washer
Art. No. 502.3985

Material: Zinc
Bolt Size: #10 (3/16")
I.D: 7/32"
O.D: 1/2"
Thickness: 1/16"
Qty: 100



SAE Washer
Art. No. 502.3984

Material: Zinc
Bolt Size: #6 (1/8")
I.D: 5/32"
O.D: 3/8"
Thickness: 3/64"
Qty: 100



Steel Rivet Washers
Art. No. 502.16791

Material: Zinc
For 1/8" Dia.
O.D.: 1/2"
Qty: 100



Steel Rivet Washers
Art. No. 502.16792

Material: Zinc
For 3/16" Dia.
O.D.: 15/32"
Qty: 100



Metric Hex Flange Nuts
Art. No. 502.11645

OEM #: 11501850
Material: Phosphate
Thread Size: M10-1.5
Flange Dia: 21mm
Hex Size: 15mm
Height: 10mm
Qty: 50



Jack Nuts
Art. No. 502.13016

Thread Size: .438
Head Dia: .625
Cap Thickness: .073
Overall Length: .731
Grip Range: 1/64" - 3/16"
Required Hole Dia: .434-.450
Maximum Spread: .890
Qty: 25

HEADLIGHT/DOOR/WINDOW/HOOD ACCESSORIES



Door Weatherstrip Retainer
Art. No. 502.19368
OEM #: 10283414, 10405030)

Material: Natural Nylon
 Bottom Head Dia: 5mm x 15mm
 Stem Dia: 5mm hole
 Stem Length: 9mm
Qty: 25



Door and Window Crank Handle Retaining Clip
Art. No. 502.9886

Qty: 100

NYLON RIVETS



Blind Nylon Rivet
Art. No. 502.13755
OEM #: 6500898

Material: Black
 Dia: 13/64"
 Panel Range: 15/64"-25/64"
Qty: 50



Blind Nylon Rivet
Art. No. 502.18502

Material: Black
 Hole Dia: 1/4"
 Panel Range: 5/32"-1/4"
Qty: 100

SPECIALTY RIVETS



Side Door Lock Attachment "Peel-Type" Rivet
Art. No. 502.19414
OEM #: W525170-S417

Material: Aluminum Rivet (Black), Steel Mandrel (Zinc)
 Dia: 3/16"
 Grip: 1/32"-1/4"
 Flange Dia: 1/2"
Qty: 25



Closed End Rivet
Art. No. 502.17410

Material: Black Aluminum Rivet/Black Aluminum
 Mandrel
 Dia: 3/16"
 Flange Dia: 3/8"
 Rivet length excl. Flange: 11/16"
 Grip Range: 3/8"-1/2"
Qty: 25

MISCELLANEOUS
HARDWARE SHIMS


Shim
Art. No. 502.20448

Material: Zinc
O.D: 15/16"
Slot: 3/8"
Thickness: 1/16"
Qty: 50



Shim
Art. No. 502.20449

Material: Zinc
O.D: 15/16"
Slot: 3/8"
Thickness: 1/8"
Qty: 50



Shim
Art. No. 502.3155

Material: Zinc
Size: 1-1/4" x 1-1/8"
Slot: 3/8"
Thickness: 1/16"
Qty: 50



Shim
Art. No. 502.3156

Material: Zinc
Size: 1-1/4" x 1-1/8"
Slot: 3/8"
Thickness: 1/8"
Qty: 100



Shim
Art. No. 502.2452

Material: Zinc
1-3/4" x 1-1/4"
Slot: 1/2"
Thickness: 1/16"
Qty: 50



Shim
Art. No. 502.2453

Material: Zinc
1-3/4" x 1-1/4"
Slot: 1/2"
Thickness: 1/8"
Qty: 50



Shim
Art. No. 502.2999

Material: Zinc
Size: 2" x 1-1/2"
Slot: 5/8"
Thickness: 1/8"
Qty: 50



Shim
Art. No. 502.3000

Material: Zinc
Size: 2" x 1-1/2"
Slot: 3/4"
Thickness: 1/8"
Qty: 50

HEX HEAD DRAIN PLUGS

For domestic cars and trucks, used on oil pan drains.



G.M. Vehicles
Art. No. 801.4
M12 x 1.75 x 26mm



Standard
Art. No. 801.45
1/2"-20 x 9/16"



Regular Oversized
Art. No. 801.451
M14 x 1.5 x 14mm



Double Oversized
Art. No. 801.452
M14 x 1.5 x 14mm



Triple Oversized
Art. No. 801.453
M14 x 1.5 x 14mm



Art. No. 243.14.15
M14 x 1.5 x 16mm



Art. No. 243.16308
M14 x 1.5 x 11mm



Art. No. 243.18024
M14 x 1.25 x 16mm



Art. No. 243.18374
M12 x 1.75 x 25mm



Art. No. 243.19279
M12 x 1.5 x 20mm



Art. No. 243.19318
M10 x 1.5 x 9mm



Art. No. 243.19365
1/2"-20 x 43/64"



Art. No. 243.19588
M12 x 1.25 x 17mm



Art. No. 243.19589
M12 x 1.5 x 12mm



Art. No. 464.14678
M14 x 1.5 x 20mm



Art. No. 464.18664
M12 x 1.75 x 24.5mm



Art. No. 464.18023
M12 x 1.75 x 19mm



Art. No. 464.18663
M12 x 1.75 x 25mm

ASSORTMENTS



Art. No. 965.460801

Drain Plug & Washer Assortment

Contents (269 Pieces):

12 assorted washers and 12 assorted drain plugs

DRAIN GASKET ASSORTMENT



Art. No. 964.464000 - 110 pcs.

Art. No.	Description	Qty.
462.016.22	SEAL WASHER DIN 7603A CU - ASB FREE - M16 x 22MM x 2MM	10
463.14.20	SEAL WASHER DIN 7603A ALU - ASB FREE - M14 x 20MM x 1.5MM	
464.012242	SEAL WASHER TOYOTA DIN 7603 FIB - M12 x 24MM x 2MM	
464.11422	OIL PLUG WASHER HONDA - M14 x 1.5MM x 22MM	20
464.16026	OIL PLUG GASKET GM STEEL+RUB - 1/2" x 1" x 1/4"	25
464.18665	OIL DRAIN PLUG REPL GASKET - 11MM x 21MM	10
464.19630	OIL PLUG GASKET RUBBER - 11MM x 25MM x 7MM	25

PREMIUM DRAIN GASKET ASSORTMENT



Art. No. 965.464001 - 171 pcs.

Art. No.	Description	Qty.
243.16308	DRAIN PLUG BLT HEX FLNG ZN MF - M14 x 1.5MM x 11MM	5
243.18374	DRAIN PLUG BLT+RUB GASKET FORD ZN - M12 x 1.75MM x 25MM	
243.19279	DRAIN PLUG BLT+RUB GASKET FORD/CHRYSLER ZN - M14 x 1.5MM x 20MM	
243.19588	DRAIN PLUG BLT+GASKET HEX NISSAN ZN - M12 x 1.25MM x 17MM	
243.19589	DRAIN PLUG BLT+GASKET BMW/MERCEDES ZN - M12 x 1.5MM x 12MM	
243.14.15	DRAIN PLUG BLT FORD HEX ZN MF - M14 x 1.5MM x 16MM	10
460.14.22	SEAL WASHER DIN 7603A CU - M14 x 22MM x 1.5MM	
462.014.20	SEAL WASHER DIN 7603A CU - ASB FREE - M14 x 20MM x 2MM	
462.016.20	SEAL WASHER DIN 7603A CU - ASB FREE - M16 x 20MM x 2MM	
462.016.22	SEAL WASHER DIN 7603A CU - ASB FREE - M16 x 22MM x 2MM	
463.14.20	SEAL WASHER DIN 7603A ALU - M14 x 20MM x 1.5MM	
464.012242	SEAL WASHER TOYOTA DIN 7603 ALU - M12 x 24MM x 2MM	
464.018282	SEAL WASHER TOYOTA DIN 7603 ALU - M18 x 28MM x 2MM	
464.11422	OIL PLUG WASHER HONDA - M14 x 1.5MM x 22MM	
464.16026	OIL PLUG GASKET GM STEEL+RUB - 1/2" x 1" x 1/4"	
464.18663	DRAIN PLUG GM - M12 x 1.75MM x 25MM	5
464.18665	OIL DRAIN PLUG REPL GASKET - 11MM x 21MM	10
464.19630	OIL PLUG GASKET RUBBER - 11MM x 25MM x 7MM	
464.20454	OIL DRAIN PLUG GASKET BMW/MERC COPPER - 14MM ID x 20MM OD	6
464.8277	OIL DRAIN PLUG GASKET NYL - 1/2" ID x 3/4" x 3/32"	10
801.4	DRAIN PLUG GM - 12MM	5
801.45	DRAIN & FILL PLUG - 1/2" STD	

Pack sizes subject to change without notice

Some sizes and finishes available OnDemand

METRIC AND STANDARD LICENSE PLATE HARDWARE



Universal
Art. No. 140.14473 - P. Qty. 50
 M6-1.0 x 16mm
 14mm (9/16") washer head O.D.



Universal
Art. No. 140.15170 - P. Qty. 25
 #14 x 1/2", Thumb screw.
 Total length 1-1/8".



Ford
Art. No. 140.16421/140.16421.BK
P. Qty. 50/250
 Slotted, Hex washer head screw
 #14 (1/4) x 5/8" - Black E-coat
 5/8 washer head O.D., 5/16" Hex



Universal
Art. No. 140.7140/140.7140.BK
P. Qty. 100/500
 PH indented hex head/washer screw,
 M6-1.0 x 20mm 18.8 SS



Universal
Art. No. 140.17980 - P. Qty. 50
 Yellow Zinc Plated, M6-1.81 x 16mm
 (1/4-14 x 5/8"), PH Hex Washer Head.
 13mm (1/2") washer head O.D.
 10mm Hex



BMW
Art. No. 140.18156 - P. Qty. 50
 Yellow Zinc Plated, PH Wafer Head
 M4.8 - 1.59 x 16mm (#10 x 5/8")
 10mm (3/8") Head O.D.



Universal
Art. No. 140.18769 - P. Qty. 100
 M6-1.0 x 20 mm, PH Pan Head Screw
 Black E-Coat
 12mm (15/32") Head O.D.



GM
Art. No. 140.19777 - P. Qty. 50
 Dacromet 320, M6.3-1.81 x 16mm
 (#14 x 5/8"). Duo drive truss head
 license screw, 14mm head O.D.



Chrysler
Art. No. 140.6000 - P. Qty. 100
 Nylon, license plate nut #14
 (1/4") screw size
 Use with 140.7010 screw or 140.7060



Universal
Art. No. 140.7010 - P. Qty. 50
 Zinc-Plated, Slotted round
 washer head screw
 1/4" x 5/8" - 9/16" washer head O.D.



Universal
Art. No. 140.7020 - P. Qty. 100
 Zinc Plated, Slotted truss head screw
 #14 x 3/4" - 9/16 Head O.D.



GM
Art. No. 140.7030 - P. Qty. 100
 Zinc Plated, Slotted truss washer head screw
 #10 x 5/8" - 1/2" washer head O.D.



Honda, Geo Prism, Toyota
Art. No. 140.7040/140.7040.BK
P. Qty. 100/250
 Yellow zinc, PH hex washer head screw
 M6 - 1.81 x 20mm (1/4" x 3/4")
 12mm washer head O.D.
 10mm Hex
 Honda 1990 - on



Ford Contour & Mercury Mystique
1995 - on
Art. No. 140.7050 - P. Qty. 100
 Zinc & Yellow Dichromate,
 PH pan washer head,
 M5 - 0.8 x 12mm
 12.7mm washer head O.D.



Universal
Art. No. 140.7060 - P. Qty. 100
 1/4" x 3/4" Truss PH Type 'A', 18-8
 Stainless Steel, use with License
 Plate Nut Art. No. 140.6000



Universal
Art. No. 140.7070 - P. Qty. 100
 1/4 x 3/4" Hex Washer Head Slot Type 'A',
 18-8 Stainless Steel, use with License
 Plate Nut Art. No. 140.6000



Nissan
Art. No. 140.7075 - P. Qty. 100
 Black Phosphate, PH truss head screw
 M4.8 - 1.61 x 15mm (#10 x 19/32)
 14mm (9/16) Head O.D.

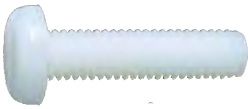


Universal
Art. No. 140.7150/140.7150.BK
P. Qty. 100/500
 PH indented hex/washer screw,
 M6.3 x 19mm 18.8 SS



Universal
Art. No. 210.46 - P. Qty. 100
 M6-1.0 x 20 mm, Zinc-Plated Steel
 License Plate Screw With Plastic Washer,
 metal washer & Metal Hex Nut

METRIC AND STANDARD LICENSE PLATE HARDWARE



Universal
Art. No. 210.911 - P. Qty. 100
 M6-1.0 x 25 mm, Slotted Pan Head Screw, Natural Nylon



Toyota/Universal
Art. No. 210.78/210.78.BK
P. Qty. 50/250
 M6-1.0 x 20 mm, Pan Slot Screw with Washer, White Nylon, & Hex Nut, Metal
 Toyota Canada O.E.M. No. 00999-00001



Universal
Art. No. 210.922/210.922.BK
P. Qty. 100/250
 M6-1.0 x 20 mm
 Slotted Pan Head Nylon Screw



Hyundai
Art. No. 210.930 - P. Qty. 100
 M6-1.0 x 25 mm, Pan Head Slot License Plate Screw washer
 O.D. 19 mm, Black Nylon



Universal
Art. No. 210.92 - P. Qty. 100
Art. No. 210.921 (Screw Only) P. Qty. 100
 M6-1.0 x 25 mm, Slotted Pan Head Screw & Hex Nut, Black Nylon



VW, Audi
Art. No. 140.70601 - P. Qty. 100
 #10 x 5/8 Flat Head PH SMS, License Plate Screw, 18.8



VW, Audi
Art. No. 140.70603 - P. Qty. 100
 #10 x 3/8 Truss Head PH SMS License Plate Screw, 18.8



VW, Audi
Art. No. 140.70604 - P. Qty. 100
 #10 x 1/2 Truss Head PH SMS License Plate Screw, 18.8



VW, Audi
Art. No. 140.70605 - P. Qty. 100
 #12 x 3/4 Truss Head PH SMS License Plate Screw, 18.8
 Screw head O.D. 1/2"



Mercedes Benz
Art. No. 140.70606 - P. Qty. 100
 #12 x 1 Truss Head PH SMS License Plate Screw, 18.8



Chrysler, Honda, AMC
Art. No. 140.16826 - P. Qty. 50
 M6-1.0 x 20 mm, Slotted Hex Washer Head License Plate Screw, Zinc
 Chrysler O.E.M. No. 34201287
 AMC O.E.M. No. 8934201287



Universal
Art. No. 210.90/210.90.BK
P. Qty. 50/250
 M6-1.0 x 20 mm, Black Nylon Pan Slot Screw, With Nylon Washer & Metal Hex Nut

METRIC SPECIALTY BOLTS - NORTH AMERICAN VEHICLES



Art. No. 275.100



Art. No. 275.101



Art. No. 275.102



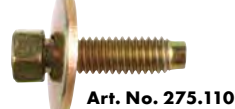
Art. No. 275.103



Art. No. 275.104



Art. No. 275.105



Art. No. 275.110



Art. No. 275.107



Art. No. 275.108



Art. No. 275.201



Art. No. 275.115



Art. No. 275.200



Art. No. 275.220



Art. No. 275.205



Art. No. 275.210



Art. No. 275.280

METRIC SPECIALTY BOLTS - NORTH AMERICAN VEHICLES



Art. No. 275.305



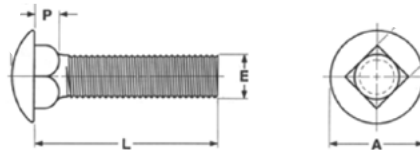
Art. No. 275.320



Art. No. 275.300

O.E.M. No.	Description	Dia. (mm)	Thread Pitch	Length (mm)	Hex Dia. (mm)	Washer O.D. (mm)	Art. No.	P. Qty.
Ford & GM (N606677-S36)	Yellow Zinc Dichromate Hex Head Sems Bolt With Dog Point - Class 9.8	6	1.00	28	8	19	275.100	25
GM (11503834)	Phosphate Hex Head Sems Bolt - Class 9.8	6	1.00	25	10	17	275.101	50
GM (11503982)	Phosphate Hex Head Sems Bolt - Class 9.8	6	1.00	25	10	24	275.102	50
GM (11502790)	Zinc Hex Head Sems Bolt - Class 9.8	6.3	1.00	25	10	17	275.103	25
GM (11500971)	Zinc Organic Hex Washer Head Bolt - Class 9.8	8	1.25	30	13	17	275.104	25
GM (11504570)	Phosphate Hex Head Sems Bolt - Class 9.8	6	1.00	20	10	17	275.105	25
GM	Phosphate Hex Washer Head Bolt - Class 9.8	8	1.25	25	13	17	275.107	25
GM (362029)	Phosphate Hex Washer Head Bolt with Serrations under the Head & Dog Point	8	1.25	16	13	18	275.108	25
Ford (N606676-S36)	Yellow Zinc Dichromate Hex Head Sems Bolt with Dog Point - Class 9.8	6	1.00	22.5	8	19	275.110	25
Ford (N606690-S2)	Phosphate Hex Head Sems Bolt with Dog Point - Class 9.8	8	1.25	33	10	22	275.115	25
GM (11508930)	Black Fluorocarbon Hex Head Sems Bolt - Class 9.8	6	1.00	16	10	17	275.200	25
GM (11504493)	Black Polyseal Hex Head Sems Bolt - Class 9.8	6	1.00	25	10	24	275.201	25
GM (11503800)	Black Polyseal Hex Washer Head Bolt - Class 9.8	6	1.00	20	10	13	275.205	25
GM (11502605, 11502624, 11509511)	Phosphate Hex Washer Head Bolt - Class 9.8	8	1.25	20	13	17	275.210	25
GM (11503825)	Phosphate Hex Head Sems Bolt - Class 9.8	6	1.00	30	10	24	275.220	25
-	Phosphate Hex Head Sems Bolt - Class 9.8	8	1.25	20	13	24	275.280	25
GM (11504982)	Phosphate Hex Washer Head Bolt - Class 9.8	8	1.25	35	13	24	275.300	25
-	Phosphate Hex Head Sems - Class 9.8	10	1.50	30	15	29	275.305	25
GM (11504056, 11513801)	Phosphate Hex Washer Head Sems	4.2	1.41	20	7	12	275.320	25

STANDARD CAPPED HEAD BUMPER BOLTS



Stainless Steel 18.8

Head Diameter A	7/8	29/32
Shoulder Length P	3/32	5/32
Application	GM	GM

No.	Dia in inches. (e)	Length in inches (l)	Art. No.	P. Qty.
1	3/8-16	1	235.12	10
2	7/16-14	1-3/8	235.13	10

HARDWARE / U-NUTS / SCREWS



Hex Washer Head Screw
Art. No. 502.22537
OEM#: W704874-S439

Zinc Organic
 M4.8-1.59 x 16mm
 Special Hi-Lo Thread
 Washer Diameter: 12.5mm
 Hex: 7mm
Qty: 25



Hex Washer Head Tapping Screw
Art. No. 502.22549
OEM#: W704875-S439

Zinc Organic
 M4.2-1.41 x 19mm
 Hex: 7mm
 Washer Diameter: 12.5mm
Qty: 25



Magni-554 Silver Metric Extruded U-Type Nut
Art. No. 502.22539
OEM#: 6105242-AA

Screw Size: M6-1.0
 Center of Hole to Edge: 13mm
 Panel Range: 0.5mm - 4.00mm
Qty: 25



Air Duct & Rear Bumper Bracket Nut
Art. No. 502.22491
OEM#: 11547582

Zinc Organic
 Thread Size: M6-1.0
 Head Size: 8mm x 18mm
 Overall Height: 11mm
Qty: 25



Zinc Organic Metric Extruded U-Nut
Art. No. 502.22578
OEM#: 6509799-AA

Screw Size: M4.8-1.6 (#10)
 Panel Range: .61mm - 3.8mm
 (.024" - .149")
 Center of Hole to Edge:
 11.5mm (.452")
Qty: 25



Zinc Organic Metric Extruded U-Nut
Art. No. 502.22581
OEM#: 11611321

Screw Size: M6-1.0
 Panel Range: .70mm - 2.0mm
 Center of Hole to Edge: 14mm
Qty: 20



Zinc Organic Metric Extruded U-Nut
Art. No. 502.22579
OEM#: W520822-S439;
6510185-AA, 6101956,
6503694

Screw Size: M6-1.0
 Panel Range: .8mm - 4.0mm
 (.030" - .160")
 Center of Hole to Edge: 13.5mm
 (17/32")
Qty: 25



Zinc Organic Metric Extruded U-Nut
Art. No. 502.22582
OEM#: 11548579

Screw Size: M4.2-1.41 (#8)
 Panel Range: 2.0mm - 3.0mm
 (.078" - .118")
 Center of Hole to Edge: 9.5mm (3/8")
Qty: 25



Round Washer Head Pozidrive Tapping Screw
Art. No. 502.22550
OEM#: 11609457

Black Zinc
 M4.2-1.41 x 20mm
 Head Diameter: 11mm
 Tail Lamp Assembly
Qty: 25



Black Zinc Hex Head Sems® Body Bolt
Art. No. 502.22536
OEM#: 11589031

M6-1.0 x 20mm
 Washer Diameter: 24mm
 Hex: 10mm / Class 9.8
 Front Bumper Support, Fender Liner,
 Grille & Headlamp Adjusting
Qty: 20



HONDA BODY CLIP ASSORTMENT



Art. No. 965.500100 - 360 pcs.

Art. No.	Description	Qty.
500.17379	HONDA - FENDER SPLASH SHIELD PUSH TYPE RET - 9MM HOLE	25
500.18114	HONDA - HOOD INSULATION RET CLIP - 6MM HOLE	
500.18877	HONDA - WEATHERSTRIP RET - 6MM HOLE	
500.19118	HONDA - PUSH TYPE RET FRONT FENDER - 8MM HOLE	
500.19233	ACURA/HONDA - FRONT BUMPER PUSH TYPE RET - 10MM HOLE	
500.19239	ACURA/HONDA - FRONT FENDER PUSH TYPE RET - 8MM HOLE	15
500.19311	HONDA - PUSH TYPE RET BLACK '92-96 - 6MM HOLE	
500.19453	HONDA ODYSSEY - MOULDING RET - 8MM HOLE	25
500.19682	HONDA - SEAL RETAINER CLIP - 6MM HOLE	
500.20247	HONDA/MITSUB - FENDER/BUMPER RET. '98 - 9MM HOLE	15
500.20259	HONDA - SPLASH SHIELD '86+	25
500.20564	HONDA - BUMPER RET BLACK - 20MM x 18MM	15
500.20608	HONDA - ELEMENT GRILL MOUNTING RET - 10MM	25
500.20954	FENDER APRON SCREW GROMMET #8 - 4.2MM	
500.21173	ACURA - BUMPER SPLASH SHIELD PUSH TYPE RET - 10MM HOLE	15
500.896715	HONDA - RET CLIP - 13MM x 15MM	25

TOYOTA BODY CLIP ASSORTMENT



Art. No. 965.500200 - 290 pcs.

Art. No.	Description	Qty.
500.15695	TOYOTA - RETAINER WITH SEALER - 8MM HOLE	15
500.17162	PUSH RETAINER - 15MM D x 13MM STEM x 6.3MM HOLE	
500.18844	TOYOTA - TRIM PANEL RETAINER - 8MM HOLE	
500.18873	TOYOTA - REAR BUMPER PUSH TYPE RET - 9MM HOLE	
500.18888	TOYOTA - FENDER LINER PUSH TYPE RET - 7MM HOLE	
500.19128	TOYOTA - WHEEL OPEN MOULDING RET - 7MM HOLE	
500.19194	TOYOTA - FENDER LINER SCREW GROMMET #12 - 9MM HOLE	
500.19721	TOYOTA - FENDER LINING SCREW GROMMET - 8MM HOLE	
500.19729	TOYOTA - HOOD INSULATION RET - 7MM HOLE	
500.19749	TOYOTA - WEATHERSTRIP RETAINER - 6MM HOLE	
500.19756	TOYOTA - FENDER LINER SCREW GROMMET	
500.19908	TOYOTA - DOOR TRIM PANEL PUSH TYPE RET - 7MM HOLE	
500.20440	HOOD/FENDER SCREW GROMMET - 5.5MM	
500.20687	MOULDING CLIP W/SEALER, BLUE - 17MM HEAD	
500.20688	WHEEL FLARE MOULDING CLIP W/SEALER, ORANGE - 17MM	
500.20757	TOYOTA - FRONT FENDER & BUMPER COVER PIN RET, BLACK - 15MM HEAD	10
500.20908	TOYOTA - FENDER SPLASH SHIELD PUSH TYPE RET - 20MM HEAD	15
500.20931	TOYOTA - BUMPER COVER & GRILLE PUSH TYPE RET - 18MM HEAD	
500.21103	TOYOTA - FRONT BUMPER FASCIA PUSH RET - 10MM HEAD x 5MM HOLE	10
500.7747	TOYOTA - SCREW GROMMET (#9018906013) - 8MM HOLE	15

NISSAN BODY CLIP ASSORTMENT



Art. No. 965.500300 - 270 pcs.

Art. No.	Description	Qty.
500.16784	TOYOTA/NISSAN - PUSH TYPE RET - 7MM HOLE	15
500.17472	NISSAN - FRONT BUMPER PUSH TYPE RET - 8MM HOLE	
500.18166	NISSAN - TRIM PANEL RET - STEM DIAMETER 4MM	
500.19246	NISSAN - BUMPER PUSH TYPE RET - 18MM x 15MM	
500.19274	NISSAN - PUSH TYPE RETAINER - 20MM x 9MM	
500.19684	NISSAN - WEATHERSTRIP RET - 6MM HOLE	
500.20327	ALTIMA - BUMPER FASCIA RET '97+ - 9MM HOLE	
500.20349	NISSAN - BUMPER CLIP, BLACK NYLON - 8MM HOLE	
500.20566	HYUNDAI - BODY SIDE MOULDING CLIP, WHITE - #8, 14MM HEAD	
500.20567	HYUNDAI - SIDE MOULDING CLIP - 10MM	
500.20568	HYUNDAI - ROCKER PANEL CLIP W/SEALER - 10MM	
500.20953	NISSAN - BUMPER & RADIATOR SUPPORT RET - 20MM HEAD	
500.21066	HYUNDAI/KIA - FENDER & ROCKER NYLON NUT - 17MM HEAD	
500.21070	HYUNDAI/KIA/CHEV - TRIM PANEL RETAINER	
500.21136	HYUNDAI/KIA - MOULDING CLIP W/SEALER	
500.21146	KIA - BUMPER/FENDER/GRILLE/TRIM RET - 8MM HOLE	
502.21321	HYUNDAI - MOULDING CLIP W/ SEALER - 12MM HEAD	
502.21588	INFINITI & NISSAN - RETAINER - 8MM HEAD	

GM BODY CLIP ASSORTMENT



Art. No. 965.502100 - 255 pcs.

Art. No.	Description	Qty.
502.11146	GM/CHRY/FORD - RADOATOR YOKE/FENDER/BUMPER SHIELD RET	30
502.12137	GM - RADIATOR APRON PANEL RETAINER	15
502.12766	GM - FRONT STONE SHEILD RETAINER	
502.16818	GM/CHRY - TRIM PANEL RETAINER	
502.17216	GM/FORD/CHRY - UNDER CARRIAGE PUSH TYPE RETAINER	
502.17222	GM - PUSH TYPE RET FOR ROCKER PANELS	
502.17664	GM - SHIELD RETAINER	
502.18153	GM - RADIATOR GRILLE NUT - #8 SCREW SIZE	
502.19615	GM - REAR BUMPER COVER PUSH RETAINER	
502.19639	GM - RAD/WHELLHOUSE/FENDER PUSH RET	
502.20377	GM - MOULDING CLIP, WHITE STEM	
502.20880	GM - GRILLE/BUMPER/CALIPER RETAINER, BLACK	
502.20889	GM/FORD - VENT/FENDER RETAINER, BLACK	
502.20988	GM/CHRY - AIR & WINDSHIELD RETAINER, BLACK	
502.20991	CHEV/GMC - BUMPER/FLARES RETAINER, BLACK	
502.21374	GM - MOULDING CLIP	

BODY RIVET ASSORTMENT



Art. No. 965.502130 - 285 pcs.

Art. No.	Description	Qty.
502.13750	CHRY/FORD/GM - BLACK RIVET - 6.3-10.0	25
502.13751	GM/FORD - BLACK RIVET - 6.3-10.0	
502.13753	GM/VW - BLACK PLASTIC RIVET - 6.63-5.0	
502.13755	CHRY - BLACK PLASTIC RIVET - 5.0-10.0	
502.17639	FORD/CHRY - SPLIT TYPE RIVET - 1/4" DIAMETER	10
502.17615	CHRYSLER - ALUMINUM RIVET - 3.2MM DIAMETER	25
502.906853	SPLIT RIVET, ALUMINUM GM U" VANS '90 - 3/16" DIAMETER	
502.20971	SPLIT RIVET, ALUMINUM - 4MM D x 1MM-7MM GR x 8MM FL	
502.17121	SPLIT TYPE RIVET ALUMINUM, BLACK - 3/16" D x 5/64"-15/16" GR x 7/16" FL	
502.11620	GM/FORD/CHRY - ALUMINUM RIVET - 1/4" D x 1/32"-9/64" GR x 1/2" FL	
502.11621	FORD/CHRY - PEEL TYPE RIVET, ALU - 1/4" D x 39/64"-19/32" GR x 1/2" FL	
502.20741	GM - SPLIT RIVET ALU, BLACK - 4.8MM D x 1MM-9MM GR x 16MM FL	

ESSENTIAL BULB ASSORTMENT



Art. No. 965.720001 - 57 pcs.

Art. No.	Description	Qty.
720.194000	14V-3.78W - MINI T3 1/4 WEDGE .27AMP - NO.194	10
720.194100	14V-3.78W - MINI T3 1/4 WEDGE .27AMP, AMBER - NO.194A	5
720.315600	12.8V-26W - MINI LAMP 2.1AMP - NO.3156 (P27W)	
720.315700	12.8/14V-26/8W - S8DF WEDGE 2.1/.59AMP - NO.3157	2
720.315710	12.8/14V-26/8W - S8DF WEDGE 2/.59AMP, AMBER - NO.3157A	
720.335700	12.8/14V-28/6W - S8DF WEDGE 2.2/.59AMP - NO.3457	
720.335720	12.8/14V-26/8W - S8DF WEDGE 2/.59AMP, AMBER - NO.3157NA	
720.744000	12V-21W - MINI LAMP 1.75AMP - NO.7440 (W21W)	
720.744010	12V-21W - MINI LAMP 1.75AMP, AMBER - NO.7440A	
720.744300	21V-21/5W - T6.5 WEDGE 1.75AMP - NO.7443(W21/5W)	
720.305700	12.8V-26.88W - S8DF WEDGE 2.1AMP - NO.3057	
720.305710	12.8/14V-26/6W - S8DF WEDGE 2/.48AMP, AMBER - NO.3057A	
720.235700	12.8/14V-28/8W - S8DC INDEX 2.2/.59AMP - NO.2357	
720.205700	12.8/14V-26/6W - S8DC INDEX 2.1AMP - NO.2057	
720.189100	14V-3.36W - MINI T3 1/4 M .24AMP - NO.1891	
720.189500	14V-3.78W - MINI LAMP G4 1/2 .27AMP - NO.1895	
720.115600	12.8V-26.88W - MINI LAMP S8 2.10AMP - NO.1156	
720.115610	12.8V-26.88W - MINI S8 2.10AMP, AMBER - NO.1156A	
720.115700	12.8/14V-26/8W - MINI S8DC 2.1/.59AMP - NO.1157	
720.115710	12.8/14V-26/8W - SCDC INDEX 2.1/.59AMP, AMBER - NO.1157A	

AUTOMOTIVE ASSORTMENTS



Art. No. 965.50200

Chrysler Specific Body Fastener Assortment

Contents (895 Pieces):
24 Chrysler Body Clips



Art. No. 965.50233

Honda Plastic Retainers Assortment

Contents: 215 Pieces



Art. No. 965.50250

Body Shop Trim Screws & Retainers Assortment



Art. No. 965.50244

Toyota Plastic Retainers, Grommets & Screws Assortment



Art. No. 965.50211

GM Specific Body Fastener Assortment

Contents (905 Pieces)



Art. No. 965.50222

Ford Specific Body Fastener Assortment

Contents (910 Pieces):
24 Ford Body Clips



Art. No. 965.500

Import Body Clip Assortment

Contents: 345 Pieces



Art. No. 964.50010

Import Vehicle Speed Nut Assortment

Contents (1375 Pieces):
16 Types/Size of Speed Nuts



Art. No. 965.502

Universal Body Bolt/Fastener Assortment

Contents (200 Pieces):
20 Types of Assorted Body Hardware



Art. No. 965.5021

Domestic Body Fastener Assortment

Contents (415 Pieces):
24 Types of Body Clips

ASSORTMENTS



Art. No. 964.5061

Tension Spring Assortment

Contents (378 Pieces):

20 popular sizes, 25 - 130 mm lengths



Art. No. 964.5062

Compression Spring Assortment

Contents (335 Pieces):

- Electro-galvanized
- 16 sizes from Lo 28 to Lo 65
- Spring steel wire DIN 17223 B galvanized, blue passivated (A2K)

METRIC & STANDARD HARDWARE BIN ASSORTMENTS

Assortments include 18 compartment heavy duty storage bin

STANDARD HARDWARE ASSORTMENT - ZINC PLATED



Art. No. 965.072 - 1575 pieces

Standard Hardware Bin Assortment

Standard Hex Bolts (UNC), Grade 5, Zinc-Plated: Prefix 072

1/4 x 1" (75), 1/4 x 1-1/2" (75), 1/4 x 2" (75)
 5/16 x 1" (75), 5/16 x 2" (75), 5/16 x 1-1/2" (75)
 3/8 x 1" (75), 3/8 x 1-1/2" (75), 3/8 x 2" (75)

Standard Hex Nuts (UNC), Grade 5, Zinc-Plated: Prefix 330

1/4" (100), 3/8" (100), 5/16" (100)

USS Flat Washer, Grade 5, Zinc-Plated: Prefix 408

1/4" (100), 3/8" (100), 5/16" (100)

Standard Lock Washers, Zinc-Plated: Prefix 442

1/4" (100), 3/8" (100), 5/16" (100)

* Must be entered on order by Back Office

METRIC & STANDARD HARDWARE BIN ASSORTMENTS

Assortments include 18 compartment heavy duty storage bin

METRIC HARDWARE ASSORTMENT - ZINC PLATED



Additional tools:

Metric and Standard Hardware Assortment - 2250 pieces

Art. No. 965.057072

Combination of **Art. No. 965.057** and **Art. No. 965.072** in a 36 compartment bin

*Must be entered on order by Back Office

Art. No. 965.057 - 675 pieces

Metric Hex Bolts (MC), 8.8 Zinc-Plated: Prefix 057

M6 x 10mm (25), M6 x 16mm (25), M6 x 20mm (25), M6 x 25mm (25) M8 x 20mm (25), M8 x 25mm (25), M8 x 30mm (25) M10 x 20mm (25), M10 x 30mm (25)

Metric Hex Nuts (MC), 8.8 Zinc-Plated - DIN 934: Prefix 317

M6 (50), M8 (50), M10 (50)

Metric Flat Washers, Zinc-Plated - DIN 125B: Prefix 407

M6 (50), M8 (50), M10 (50)

Metric Lock Washers, Zinc-Plated - DIN 127: Prefix 441

M6 (50), M8 (50), M10 (50)

STANDARD HARDWARE ASSORTMENT - 18.8 STAINLESS STEEL



Art. No. 965.077 - 810 pieces

Standard Hex Bolts (UNC), 18.8 SS: Prefix 076

3/8-16 x 1-1/4 UNC FT, 3/8-16 x 2 UNC PT, 1/2-13 x 2 UNC PT, 1/4-20 x 3/4 UNC FT, 1/4-20 x 1 UNC FT, 1/4-20 x 1-1/4 UNC FT, 1/4-20 x 2 UNC PT, 1/4-20 x 2 UNC PT, 1/4-20 x 2-1/2 UNC PT, 5/16-18 x 3/4 UNC FT, 5/16-18 x 1 UNC FT, 5/16-18 x 1-1/4 UNC FT, 5/16-18 x 1-1/2 UNC PT, 5/16-18 x 2 UNC PT, 5/16-18 x 2-1/2 UNC PT, 3/8-16 x 3/4 UNC FT, 3/8-16 x 1 UNC FT, 3/8-16 x 1-1/2, 3/8-16 x 2-1/2, 1/2-13 x 1 UNC FT, 1/2-13 x 1-1/2 UNC PT

Standard Hex Bolts (UNC), 18.8 SS: Prefix 340

1/4-20 UNC, 5/16-18 UNC, 3/8-16 UNC, 1/2-13 UNC

Standard Flat Washers, Stainless Steel: Prefix 426

#12 x 9/16 x 1/16, 1/4 x 5/8 x 1/16, 5/16 x 11/16 x 1/16, 3/8 x 13/16 x 1/16

Standard Lock Washers, Stainless Steel: Prefix 440

1/4 x 0.489 x 0.062, 5/16 x 0.586 x 0.078, 3/8 x 0.683 x 0.094, 1/2 x 0.873 x 0.125

*Must be entered on order by Back Office

AUTOMOTIVE HARDWARE "START-UP" ASSORTMENT - ZINC PLATED



Art. No. 965.972 - 3805 pieces

Metric and Standard Bin

Start-up hardware assortment includes a 32 & 40 compartment heavy duty storage bin.

Metric Flat Washers, Zinc-Plated - DIN 125: Prefix 407

6 mm(100), 8 mm(100), 10 mm(100)

Metric Split Lock Washers, Zinc-Plated - DIN 127B: Prefix 441

M6 (100), M8 (100), M10 (50)

Standard Hex Nuts - ERS Zinc-Plated: Prefix 330

1/4" (100), 5/16" (100), 3/8" (100)

Standard Sae Flat Washers, Zinc-Plated: Prefix 409

1/4" (100), 5/16" (100), 3/8" (100)

Standard Split Lock Washers, Zinc-Plated: Prefix 442

1/4" (100), 5/16" (100), 3/8" (100)

Standard Split Cotter Pins, Zinc-Plated: Prefix 471

1/16 x 1" (100), 3/32 x 1" (100), 1/8 x 2" (100)

Hex Washer Head Sheet Metal (Tapping)

Screws, Zinc-Plated: Prefix 111

#14 x 1" (50)

Hex Washer Head Sheet Metal (Tapping)

Screws, Zinc-Plated: Prefix 502

5/16" x 1" (50) **Art. No. 502.2979**

Metric Hex Bolts, 8.8 Zinc-Plated: Prefix 057

M6 x 12 (50), M6 x 20 (50), M6 x 25 (50), M6 x 30 (50), M6 x 40 (25), M8 x 20 (25), M8 x 25 (25), M8 x 30 (25), M8 x 35 (25), M8 x 40 (25), M10 x 20 (25), M10 x 25 (25), M10 x 30 (25), M10 x 35 (25), M10 x 40 (25)

Standard Hex Bolts, Grade 5, Zinc-Plated: Prefix 072

1/4 x 3/4 (100), 1/4 x 1 (100), 1/4 x 1-1/4 (100), 1/4 x 1-1/2 (100), 1/4 x 2 (50) 5/16 x 1 (50), 5/16 x 1-1/4 (50), 5/16 x 1-1/2 (50), 5/16 x 1-3/4 (50), 5/16 x 2 (50) 3/8 x 1 (50), 3/8 x 1-1/4 (50), 3/8 x 1-1/2 (50), 3/8 x 2 (50) 3/8 x 3 (10)

Metric Indented Hex Jis Bolt, Yellow Zinc Plated:

Prefix 062

10 x 40 mm (20)

Metric Flange Nuts (Serrated) Reduced Wrench Size

J.I.S.-B 1190, 10.9, Yellow Zinc Plated: Prefix 315

10 mm (100)

Black Wire Ties: Prefix 553

7" (100), 11" (100)

Metric Hex Nuts, 8.8 Zinc-Plated - DIN 934: Prefix 317

M6(100), M8(100), M10(50)

*Must be entered on order by Back Office

10.9 HARDWARE ASSORTMENT



Art. No. 965.068 - 2014 pieces

Note: ORSY Bins Art. No. 966.3 (x2) and Label Set Art. No. 965.068L are ordered separately.

Bin 1

Description	Art. No.	Qty
M6-1.0 x 20 mm MC Hex Bolt 10.9 Yellow Zinc	068.6..20	25
M6-1.0 x 25 mm MC Hex Bolt 10.9 Yellow Zinc	068.6..25	25
M6-1.0 x 30 mm MC Hex Bolt 10.9 Yellow Zinc	068.6..30	25
M6-1.0 x 35 mm MC Hex Bolt 10.9 Yellow Zinc	068.6..35	25
M6-1.0 x 40 mm MC Hex Bolt 10.9 Yellow Zinc	068.6..40	25
M6-1.0 x 45 mm MC Hex Bolt 10.9 Yellow Zinc	068.6..45	25
M6-1.0 x 50 mm MC Hex Bolt 10.9 Yellow Zinc	068.6..50	25
M8-1.25 x 20 mm MC Hex Bolt 10.9 Yellow Zinc	068.8..20	25
M8-1.25 x 25 mm MC Hex Bolt 10.9 Yellow Zinc	068.8..25	25
M8-1.25 x 30 mm MC Hex Bolt 10.9 Yellow Zinc	068.8..30	25
M8-1.25 x 40 mm MC Hex Bolt 10.9 Yellow Zinc	068.8..40	25
M8-1.25 x 50 mm MC Hex Bolt 10.9 Yellow Zinc	068.8..50	25
M8-1.25 x 60 mm MC Hex Bolt 10.9 Yellow Zinc	068.8..60	25
M8-1.25 x 70 mm MC Hex Bolt 10.9 Yellow Zinc	068.8..70	25
M10-1.5 x 20 mm MC Hex Bolt 10.9 Yellow Zinc	068.10.20	25
M10-1.5 x 25 mm MC Hex Bolt 10.9 Yellow Zinc	068.10.25	25
M10-1.5 x 30 mm MC Hex Bolt 10.9 Yellow Zinc	068.10.30	25
M10-1.5 x 40 mm MC Hex Bolt 10.9 Yellow Zinc	068.10.40	25
M10-1.5 x 50 mm MC Hex Bolt 10.9 Yellow Zinc	068.10.50	25
M10-1.5 x 60 mm MC Hex Bolt 10.9 Yellow Zinc	068.10.60	25
M10-1.5 x 70 mm MC Hex Bolt 10.9 Yellow Zinc	068.10.70	25
M12-1.75 x 30 mm MC Hex Bolt 10.9 Yellow Zinc	068.12.30	25
M12-1.75 x 40 mm MC Hex Bolt 10.9 Yellow Zinc	068.12.40	25
M12-1.75 x 50 mm MC Hex Bolt 10.9 Yellow Zinc	068.12.50	25
M12-1.75 x 60 mm MC Hex Bolt 10.9 Yellow Zinc	068.12.60	25
M12-1.75 x 70 mm MC Hex Bolt 10.9 Yellow Zinc	068.12.70	25
M12-1.75 x 80 mm MC Hex Bolt 10.9 Yellow Zinc	068.12.80	25
M12-1.75 x 90 mm MC Hex Bolt 10.9 Yellow Zinc	068.12.90	25
M14-2.0 x 30 mm MC Hex Bolt 10.9 Yellow Zinc	068.14.30	10
M14-2.0 x 40 mm MC Hex Bolt 10.9 Yellow Zinc	068.14.40	10
M14-2.0 x 45 mm MC Hex Bolt 10.9 Yellow Zinc	068.14.45	10
M14-2.0 x 60 mm MC Hex Bolt 10.9 Yellow Zinc	068.14.60	10
M14-2.0 x 70 mm MC Hex Bolt 10.9 Yellow Zinc	068.14.70	10
M14-2.0 x 80 mm MC Hex Bolt 10.9 Yellow Zinc	068.14.80	10
M14-2.0 x 90 mm MC Hex Bolt 10.9 Yellow Zinc	068.14.90	10

Bin 2

Description	Art. No.	Qty
M16-2.0X30 mm MC Hex Bolt 10.9 Yellow Zinc	068.16.30	10
M16-2.0X40 mm MC Hex Bolt 10.9 Yellow Zinc	068.16.40	10
M16-2.0X50 mm MC Hex Bolt 10.9 Yellow Zinc	068.16.50	10
M16-2.0X60 mm MC Hex Bolt 10.9 Yellow Zinc	068.16.60	10
M16-2.0X70 mm MC Hex Bolt 10.9 Yellow Zinc	068.16.70	10
M16-2.0X80 mm MC Hex Bolt 10.9 Yellow Zinc	068.16.80	10
M16-2.0X90 mm MC Hex Bolt 10.9 Yellow Zinc	068.16.90	10
M6-1.0 MC Hex Nut 10.9 Yellow Zinc	324.6	100
M8-1.25 MC Hex Nut 10.9 Yellow Zinc	324.8	100
M10-1.5 MC Hex Nut 10.9 Yellow Zinc	324.10	50
M12-1.75 MC Hex Nut 10.9 Yellow Zinc	324.12	50
M14-2.0 MC Hex Nut 10.9 Yellow Zinc	324.14	50
M16-2.0 MC Hex Nut 10.9 Yellow Zinc	324.16	25
Flat Wsh ZN Hard M6x12x1.6 mm	402.6	100
Flat Wsh ZN Hard M8x16x1.6 mm	402.8	100
Flat Wsh ZN Hard M10x20x2.0 mm	402.10	50
Flat Wsh ZN Hard M12x24x2.5 mm	402.12	50
Flat Wsh ZN Hard M14x28x2.5 mm	402.14	50
Flat Wsh ZN Hard M16x30x3.0 mm	402.16	25
Hardened Lock Washer M6 ZINC	446.6	100
Hardened Lock Washer M8 ZINC	446.8	100
Hardened Lock Washer M10 ZINC	446.10	100
Hardened Lock Washer M12 ZINC	446.12	50
Hardened Lock Washer M14 ZINC	446.14	50
Hardened Lock Washer M16 ZINC	446.16	25

*Must be entered on order by Back Office

TRUCKING "START-UP" ASSORTMENT - YELLOW ZINC PLATED

Art. No. 965.074 - 2420 pieces

Start-up trucking assortment includes two 36 compartment heavy duty storage bins



Standard Hex Bolts (UNC) Grade 8, Yellow Zinc Plated: Prefix 074

Technical Data		
Dia-Thread Pitch	Length	Quantity
1/2-20	3/4	100
5/16-18	3/4	25
3/8-16	3/4	50
7/16-14	3/4	25
1/2-13	3/4	25
1/4-20	1	100
5/16-18	1	50
3/8-16	1	50
7/16-14	1	50
1/2-13	1	25
9/16-12	1-1/4	10
5/8-11	1	25
1/4-20	1-1/2	100
5/16-18	1-1/2	50
3/8-16	1-1/2	50
7/16-14	1-1/2	25
1/2-13	1-1/2	25
9/16-12	1-1/2	10

Technical Data		
Dia-Thread Pitch	Length	Quantity
5/8-11	1-1/2	25
1/4-20	2	50
5/16-18	2	50
3/8-16	2	50
7/16-14	2	25
1/2-13	2	25
9/16-12	2	10
5/8-11	2	25
1/4-20	3	25
5/16-18	3	25
3/8-16	3	25
7/16-14	3	25
1/2-13	3	25
9/16-12	3	10
5/8-11	3	10
9/16-12	3-1/2	10
5/8-11	3-1/2	10

Standard Hex Nuts (UNC) Grade 8, Yellow Zinc Plated: Prefix 332

Technical Data	
Dia-Thread Pitch	Quantity
1/4-20	100
5/16-18	100
3/8-16	100
7/16-14	50
1/2-13	50
9/16-12	25
5/8-11	25

Standard SAE Flat Washers - F436 - Yellow Zinc Plated: Prefix 410

Technical Data	
Diameter	Quantity
1/4	100
5/16	100
3/8	100
7/16	50
1/2	50
9/16	50
5/8	50

Standard Split Lock Washers - High Alloy, Yellow Zinc Plated: Prefix 444

Technical Data	
Diameter	Quantity
1/4	50
5/16	50
3/8	50
7/16	25
1/2	25
9/16	25
5/8	25

*Must be entered on order by Back Office

ON DEMAND AVAILABLE PRODUCTS

BA	Bare (Not Plated)
ZN	Clear Zinc Plated
YZ	Yellow Zinc Plated
HDG	Hot Dip Galvanized
CDM	Cadmium Plated
CHR	Chrome Plated
N/S	Non-Standard Size
US	Undersized

UNC	Unified National Coarse (Coarse Thread - Imperial)
UNF	Unified National Fine (Fine Thread - Imperial)
MC	Metric Coarse
MF	Metric Fine
FT	Full Thread
PT	Partial Thread
SS	Stainless Steel

Important:

- Items marked as **New Prefix/OnDemand Only** will not be found on your product pages. Please check your price list or Wurthnet for all available sizes.
- Items marked with **Additional Sizes Added To OnDemand** have existing product pages with technical info, but additional sizes or finishes can only be found in your price list or on Wurthnet.
- When looking at your pricelist - all OnDemand items will have an Asterisk (*) in the far left column

OnDemand Only	Prefix	Description	Additional Sizes In OnDemand	Now Also Available In
✓	224	HEX BOLTS - UNC - GRADE 2 - BARE		CLEAR ZINC (ZN)
✓	097	HEX BOLTS - UNC - GRADE 2 - HDG		
	071	HEX BOLTS - UNF - GRADE 5 - ZN	✓	BARE & YELLOW ZINC (YZ)
	072	HEX BOLTS - UNC - GRADE 5 - ZN	✓	BARE & YELLOW ZINC (YZ)
	073	HEX BOLTS - UNF - GRADE 8 - YZ	✓	BARE
	074	HEX BOLTS - UNC - GRADE 8 - YZ	✓	BARE
	076	HEX BOLTS - UNC - 18.8 SS	✓	FINE THREAD
	077	HEX BOLTS - UNC - 316 SS	✓	FINE THREAD
✓	079	HEX BOLTS - UNC/UNF - L9 - YZ		
	053	HEX BOLTS - MC - 8.8 - ZN - DIN931	✓	
	057	HEX BOLTS - MC - 8.8 - ZN - DIN933	✓	BARE
✓	058	HEX BOLTS - MF - 8.8 - ZN - DIN931/933		
	068	HEX BOLTS - MC - 10.9 - YZ - DIN931/933	✓	CLEAR ZINC (ZN)
	096	HEX BOLTS - MC - A2 SS - DIN933	✓	DIN931
✓	226	HEX TAP BOLTS - GRADE 2 - BARE/ZN		
	228	HEX TAP BOLTS - GRADE 5 - BARE/ZN	✓	
✓	236	HEAVY HEX BOLTS - B7 - BARE (A193)		
✓	232	A325 STRCTL BIT & ASSY W/NUT&WSH - GR5 - BARE/HDG		
	192	HEX LAG SCREWS - ZN	✓	
	191	HEX LAG SCREWS - 18.8 SS	✓	
✓	190	HEX LAG SCREWS - GRADE 2 - HDG		
	220	CARRIAGE BOLTS - UNC - GRADE 5 - ZN	✓	GRADE 2 & BARE
✓	230	CARRIAGE BOLTS - UNC - GRADE 2 - HDG (US=UNDERSIZED)		
	223	CARRIAGE BOLTS - UNC - 18.8 SS	✓	
	221	PLOW BOLTS - UNC - GRADE 5 - BARE	✓	
✓	229	PLOW BOLTS - UNC - GRADE 5 - ZN		
✓	075	HANGER BOLTS - GRADE 2 - BARE		
	222	ELEVATOR BOLTS - GRADE 2 - BARE/ZN	✓	
✓	227	STEP BOLTS - GRADE 2 - BARE		
	082	SOCKET CAP SCREWS - UNC/UNF - ALLOY - BARE	✓	CLEAR ZINC (ZN)
	081	SOCKET CAP SCREWS - UNC - 316 SS	✓	FINE THREAD & 18.8 SS
✓	089	SOCKET CAP SCREWS - UNC/UNF - SILICON BRONZE/NI-CU ALLOY		
	083	SOCKET CAP SCREWS - MC - 12.9 - BARE - DIN912	✓	CLEAR ZINC (ZN)
✓	080	SOCKET CAP SCREWS - MF - 12.9 - BARE - DIN912		
	094	SOCKET CAP SCREWS - MC - A2 SS	✓	
	087	SOCKET CAP SCREWS - FLAT HEAD - UNC/UNF - ALLOY - BARE	✓	CLEAR ZINC (ZN) & 18.8 SS
	095	SOCKET CAP SCREWS - FLAT HEAD - MC - 12.9 - BARE	✓	
✓	093	SOCKET CAP SCREWS - FLAT HEAD - MC - 12.9 - ZN		
	086	SOCKET CAP SCREWS - FLAT HEAD - MC - A2 SS	✓	
	092	SOCKET CAP SCREWS - UNC - BUTTON HEAD - ALLOY - BARE	✓	CLEAR ZINC (ZN) & 18.8 SS & LOW HEAD BARE
	091	SOCKET CAP SCREWS - UNF - BUTTON HEAD - ALLOY - BARE	✓	CLEAR ZINC (ZN) & 18.8 SS
✓	099	SOCKET CAP SCREWS - BUTTON HEAD - MC - 12.9 - BARE/ZN		
	098	SOCKET CAP SCREWS - BUTTON HEAD - MC - A2 SS	✓	
✓	078	SOCKET CAP SCREWS - LOW HEAD - MC - 10.9 - BARE/A2 SS		
	088	SOCKET SHOULDER SCREWS - UNC - ALLOY - BARE	✓	18.8 SS
	085	SOCKET SHOULDER SCREWS - MC - 12.9 - BARE	✓	
	255	SET SCREWS - UNC/UNF - CUP PT - ALLOY - BARE	✓	CLEAR ZINC (ZN) & BRASS & NI-CU ALLOY
	256	SET SCREWS - UNC/UNF - CUP PT - 18.8 SS	✓	316 SS
✓	257	SET SCREWS - UNC/UNF - SLOTTED - GRADE 2 - ZN/18.8 SS		

OnDemand Only	Prefix	Description	Additional Sizes In OnDemand	Now Also Available In
✓	264	SET SCREWS - UNC/UNF - OVAL PT - ALLOY - BARE/18.8 SS		
✓	265	SET SCREWS - UNC/UNF - 1/2 DOG PT/FULL DOG PT - ALLOY - BARE/18.8 SS		
✓	267	SET SCREWS - UNC/UNF - CONE PT - ALLOY - BARE/18.8 SS		
✓	268	SET SCREWS - UNC/UNF - FLAT PT - ALLOY - BARE/18.8 SS		
✓	263	SET SCREWS - UNC - KNURL PT - ALLOY - BARE		
	261	SET SCREWS - MC - CUP PT - A2 SS	✓	
✓	254	SQUARE HEAD SET SCREWS - UNC/UNF - CUP PT - GRADE 2 - BARE/18.8 SS		
✓	237	SQUARE HEAD SET SCREWS - UNC - CONE PT - GRADE 2 -BARE		
✓	238	SQUARE HEAD SET SCREWS - UNC - OVAL PT - GRADE 2 -BARE		
✓	244	SQUARE HEAD SET SCREWS - UNC - 1/2 DOG PT - GRADE 2 -BARE		
✓	245	SQUARE HEAD SET SCREWS - UNC - FLAT PT - GRADE 2 -BARE		
✓	253	LOCKING SOCKET JAM SCREW - UNC/UNF - ALLOY - BARE		
	032,033	MACHINE SCREWS - PAN ROB/SLOT - ZN	✓	
✓	043	MACHINE SCREWS - FLAT ROB - ZN		
✓	031	MACHINE SCREWS - TRUSS PH - 18.8 SS		
	034	MACHINE SCREWS - FLAT PH - 18.8 SS	✓	
	036	MACHINE SCREWS - PAN PH - ZN	✓	
	035	MACHINE SCREWS - PAN PH - 316/18.8 SS	✓	
	038	MACHINE SCREWS - OVAL PH - 18.8 SS	✓	
	102	SMS (TAPPING) SCREWS - PAN ROB - ZN	✓	
✓	122	SMS (TAPPING) SCREWS - TRUSS ROB - ZN		
✓	126	SMS (TAPPING) SCREWS - FLAT ROB - ZN		
	123	SMS (TAPPING) SCREWS - TRUSS PH - 18.8 SS	✓	
	127	SMS (TAPPING) SCREWS - FLAT PH - 18.8 SS	✓	
✓	128	SMS (TAPPING) SCREWS - PAN PH - 18.8 SS/ZN		
	131	SMS (TAPPING) SCREWS - OVAL PH - 18.8 SS	✓	
	111	SMS (TAPPING) SCREWS - HEX+W SLOT - ZN	✓	
	101	DRILL PT SCREWS - PAN ROB/HEX+W - ZN/HDG	✓	
	213	DRILL PT SCREWS - PAN PH - ZN	✓	
	214	DRILL PT SCREWS - HEX - ZN	✓	
	219	DRILL PT SCREWS - WAFER ROB - ZN	✓	
	103	WOOD SCREWS - FLAT ROB - ZN	✓	
✓	106	WOOD SCREWS - ROUND ROB - ZN		
✓	216	WOOD SCREWS - FLAT ROB/PH - ZN (NIBS)		
✓	216	ROOFING SCREWS/SIDING SCREWS		
✓	141	THUMB SCREWS - ZN		
	958	THREADED ROD - UNC/UNF - GRADE 2 - ZN	✓	BARE
✓	953	THREADED ROD - UNF - GRADE 2 - BARE		
✓	951	THREADED ROD - UNC/UNF - B7 - BARE/YZ		
✓	952	THREADED ROD - UNF - B7 - YZ		
	960	THREADED ROD - UNC - 316 SS	✓	
	963	THREADED ROD - UNC - 18.8 SS	✓	
	957	THREADED ROD - 4.8/8.8 - ZN	✓	
✓	346	HEX NUTS - UNC - GRADE 2 - BARE		
✓	347	HEX NUTS - UNF - GRADE 2 - BARE/ZN		
	329	HEX NUTS (MACHINE SCREW) - GRADE 2 - ZN	✓	18.8 SS
✓	354	HEX NUTS - UNC - GRADE 2 - HDG		
	330	HEX NUTS - UNC - GRADE 5 - ZN	✓	BARE
	331	HEX NUTS - UNF - GRADE 5 - ZN	✓	BARE
✓	326	HEX NUTS - UNC/UNF - GRADE 8 - ZN		
	332	HEX NUTS - UNC - GRADE 8 - YZ	✓	BARE
	333	HEX NUTS - UNF - GRADE 8 - YZ	✓	BARE
	340	HEX NUTS - UNC - 18.8/316 SS	✓	FINE THREAD
✓	306	HEX NUTS - UNC/UNF - L9 - YLW/WAX		
✓	316	HEX NUTS - MC - 10.9 - BARE - DIN934		
	325	HEX NUTS - MC - 10.9 - ZN - DIN934	✓	
	323	HEX NUTS - MC - A2 SS	✓	
✓	313	HEX NUTS - HEAVY STYLE - GRADE 2 - BARE/ZN/18.8 SS/HDG		
✓	353	HEX NUTS - HEAVY STYLE - SEMI-FIN - GRADE 2/2H - ZN/BARE		
	313	HEX NUTS - SLOTTED - GRADE 2 - BARE	✓	
	308	HEX JAM NUTS - UNC - GRADE 2 - ZN	✓	BARE & 18.8 SS

OnDemand Only	Prefix	Description	Additional Sizes In OnDemand	Now Also Available In
	309	HEX JAM NUTS - UNF - GRADE 2 - ZN	✓	BARE & YELLOW ZINC (YZ) & 18.8 SS
✓	348	HEX JAM NUTS - UNC - GRADE 2 - HDG		
✓	371	NYLON LOCKNUTS - UNC/UNF - GRADE 2 - ZN		
✓	339	NYLON LOCKNUTS - UNC/UNF - GRADE C - YZ/PHOS&OIL		
	367	NYLON LOCKNUTS - UNC/UNF - 316/18.8 SS	✓	
	368	NYLON LOCKNUTS - MC/MF - 8.8 - ZN - DIN985	✓	HEAVY STYLE
	311	NYLON JAM LOCKNUTS - UNC - GRADE 2 - ZN	✓	
	312	NYLON JAM LOCKNUTS - UNF - GRADE 2 - ZN	✓	
✓	376	NYLON JAM LOCKNUTS - UNC/UNF - 316/18.8 SS		
	334	STOVER LOCK NUTS - UNF - GRADE C - CDM		CLEAR ZINC (ZN)
	335	STOVER LOCK NUTS - UNC - GRADE C - CDM		CLEAR ZINC (ZN)
✓	336	STOVER LOCK NUTS - UNC - GRADE B - ZN		
✓	338	STOVER LOCK NUTS - UNF - GRADE B - ZN		
	307	COLLAR LOCKNUTS - UNC/UNF - L9 - YLW/WAX	✓	
	313	TEE NUTS - 3 PRONG/4 PRONG	✓	
	314	HEX CASTLE NUTS - GRADE 5 - ZN		GRADE 2 - BARE
	322	FLANGE NUT SERRATED - UNC/UNF - GRADE 2 - ZINC	✓	
	327	KEPS LOCK NUTS - UNC - GRADE 2 - ZN	✓	
	328	KEPS LOCK NUTS - UNF - GRADE 2 - ZN	✓	
✓	337	SQUARE NUTS - UNC - GRADE 2 - BARE/HDG		
✓	359	SQUARE NUTS - MACHINE SCREW SIZE - GRADE 2 - ZN		
✓	351	TWO-WAY LOCKNUT - UNC/UNF - GRADE 2 - ZN/ZN&LUB		
✓	355	ACORN CAP NUT - GRADE 2 - ZN		
✓	341,343	WING NUTS - GRADE 2 - ZN	✓	
	974	HEX COUPLING NUT - GRADE 2 - ZN	✓	
✓	417	USS FLAT WASHERS - GRADE 2 - BARE/ZINC/HDG		
✓	421	SAE FLAT WASHERS - GRADE 2 - BARE/ZINC		
	408	USS FLAT WASHERS - GRADE 5 - BARE/ZN	✓	YELLOW ZINC (YZ)
	409	SAE FLAT WASHERS - GRADE 5 - ZN	✓	YELLOW ZINC (YZ) & BARE
	404	FLAT WASHERS - L9 - YZ	✓	USS & SAE
✓	418,419	FLAT WASHERS - HDG		
	410	STRUCTURAL FLAT WASHERS - F436 - YZ	✓	BARE & HDG
	412	FENDER WASHERS - GRADE 5 - ZN	✓	GRADE 2
✓	424	LOCK WASHERS - EXTERNAL CTSK TOOTH - ZN		
	427	LOCK WASHERS - EXTERNAL TOOTH - ZN	✓	
	425	LOCK WASHERS - INTERNAL TOOTH - ZN	✓	
✓	445	LOCK WASHERS - EXTRA DUTY		
	442	SPLIT LOCK WASHERS - GRADE 5 - ZN	✓	BARE & HDG
	440	SPLIT LOCK WASHERS - 316/18.8 SS	✓	
	441	SPLIT LOCK WASHERS - ZN/YZ - DIN127B	✓	
✓	466	SPLIT LOCK WASHERS - HDG		
✓	443	HI-COLLAR LOCK WASHER - GRADE 5 - BARE		
✓	448	SQUARE BEVELED MALLEABLE WASHERS - BARE/HDG		
✓	449	SQUARE BEVELED HARDENED WASHERS - BARE/HDG		
	405	BEVEL WASHERS - BARE	✓	
✓	269	DOWEL PINS/PULL-OUT DOWEL PINS - ALLOY - BARE/18.8 SS		
	480	DOWEL PINS - ALLOY - BARE - DIN6325	✓	
	481	PULL-OUT DOWEL PINS - ALLOY - BARE - DIN7979	✓	
✓	483	DOWEL PINS - A4 SS - DIN7		
	471	COTTER PINS - ZN	✓	
	476	ROLL PINS - BARE	✓	
✓	477	ROLL PINS - STAINLESS STEEL		
✓	479	WOODRUFF KEYS		

02 ABRASIVES

5 Bonded Abrasives

- 5 Grinding Wheels
- 10 Cut Off Wheels
- 15 Chop Saw Blades
- 16 Grinding Stones

17 Coated Abrasives

- 17 Resin Fibre Discs
- 23 Surface Conditioning Discs
- 26 Flap Discs
- 31 Flap Wheels
- 31 Cartridge Rolls & Accessories

32 Non-Woven Abrasives

- 32 Buff & Blend
- 34 Sanding Hand Pads
- 35 Nylon Abrasive Fleece

35 Nylon Fibre Discs

35 Quick Strip

38 Sanding Belts

39 Decal Residue Removers

39 Wire Wheels & Brushes

42 Hand Brushes

44 Bristle Type Discs

44 Sanding Discs, Paper & Accessories

52 Abrasive Assortments



GLOSSARY OF ABRASIVE TERMS

Abrasive A substance used for abrading - grinding - polishing - lapping, such as the natural materials Emery, Garnet, Flint, and Crocus, and the manufactured or electric furnace materials Aluminum Oxide, Silicon Carbide, Zirconia Alumina and Ceramics. One of the three basic components of a coated abrasive product (backing, bond, abrasive grain).

Aluminum Oxide An abrasive made by fusing the mineral bauxite (Al₂O₃).

Arbour The spindle of the grinding machine on which the contact wheel or idler pulley is mounted.

Arbour Hole The hole in the contact wheel or idler pulley sized to fit the machine arbor.

Backing A flexible or semi-rigid material to which abrasive grain is bonded by an adhesive. Paper, cloth, fibre and combination are the major backings used for coated abrasives.

Backing (Back-up) Pad Usually a rubber or composition type material to which an abrasive disc is attached. The backing pad supports the disc during the grinding operation and is normally the same diameter or slightly smaller than the disc.

Blending Using abrasives to develop a consistent finish over an entire work piece, as on a welded area.

Buffing The smoothing and brightening of a surface utilizing an abrasive compound applied to a fabric type wheel or belt.

Burning the Work A change in the characteristics of the work piece being ground. Detected by surface discolouration or a distinct "burning" odour.

Burnishing Refining a surface using fine grit coated abrasives to create a special effect with minimum stock removal.

Burrs A thin, ragged fin, left on the edge of a piece of metal by a cutting tool (including coated abrasives).

Bushing A metal or plastic insert used to alter the size of a center hole (primarily in rolls or flap wheels) to accommodate a smaller mandrel or arbour.

Cartridge Roll A strip of coated abrasive wound in multiple wraps around a center hole and glued. Mounted on a mandrel and used on a high speed portable tool for intricate polishing.

Chatter An undesirable, repetitive pattern created on the surface of a workpiece, usually at regularly-spaced intervals, due to an out-of-round or out-of-balance condition in the abrasive machine.

Chips Pieces of material removed by an individual abrasive grain during the abrasive grinding operation.

Closed Coat A coated abrasive product completely covered by abrasive grain on the coat side.

Concave (Curl) A coated abrasive product with a curved (curled) configuration in which the abrasive grain is in the inside curve (grain side concave).

Convex (Curl) A coated abrasive product with a curved (curled) configuration in which the abrasive grain is on the outside curve (grain side convex).

Cutting Rate The amount of material removed by a coated abrasive from the workpiece, per unit of time.

Deburring Act of removing burrs from metal.

Dressing Restoring the working face of a contact wheel or platen to its original configuration.

Dry Grinding Refers to any coated abrasive grinding operation that does not employ a coolant or lubricant in the grinding process.

Dulling The wearing away of the cutting edges of abrasive grains through use. It occurs to some degree during any abrasive operation and will finally result in inefficient cutting or abrading, at which time the coated abrasive should be discarded or shifted to lighter work, regardless of their appearance.

Feed Lines Undesirable pattern on the work produced by grinding. Most commonly found as a spiral pattern on centerless, cylindrical and roll grinding. Usually caused by incorrect grinding procedure or alignment.

Ferrous Any metal alloy containing iron, usually in major amount.

Fibre (Backing) A very hard, strong, coated abrasive backing material consisting of multiple plies of impregnated paper. Used primarily for disc products.

Flashing A fin of excess metal along the mold joint line of a casting. Occurring between mating die faces of a forging or expelled from a joint in resistance welding.

Glazing Formation of a layer of the material being ground over the cutting edges of abrasive grains. It can be avoided or minimized by proper selection of abrasive, contact wheels, use of fluids or greases, or changing belt speeds.

Grinding Aid The generic term covering coolants and lubricants applied to coated abrasives to improve cut, finish, and durability by reducing heat and loading. May be water, various oils (in emulsion or straight), or greases in stick form.

Grit Designation of abrasive grain size, reflecting the number of the smallest openings per linear inch in the screen through which the grain will pass.

Loading Filling of the spaces between abrasive grains on a coated abrasive product with grinding swarf, resulting in a decrease in stock removal and rate of cut. Loading can be reduced in many operations by using an open coat product construction or a lubricant.

Mandrel A metal rod or support used to mount cartridge rolls, cross and square pads, disc sets, or loose pieces of coated abrasives to be held in the chuck of a grinder for grinding and polishing.

Non-Ferrous Any metal other than iron, nickel, cobalt and their alloys.

Open Coat A coated abrasive product in which the abrasive grain covers approximately 50% to 70% of the coat side surface.

Orange Peel A pattern or condition on some metal and painted surfaces similar in appearance to the pattern on the skin of an orange. It must be removed by adequate sanding or polishing to produce a perfect finish.

"P" Grade Products graded to the F.E.P.A. ("Federation of European Producers of Abrasives") system may have the letter "P" prior to the grit designation, e.g., P240, P36

PSA (Pressure Sensitive Adhesive) An adhesive applied to the backing of coated abrasive products which permits easy product application and removal to and from a backup pad.

Resin A synthetic adhesive used as a bonding agent or coat for coated abrasive products.

RPM Revolutions per minute.

SFPM Surface Feet per Minute.

Silicon Carbide A manufactured abrasive made from coke and silica sand (SiC).

Snagging Grinding the gates, fins, and sprues from castings.

Swarf The mixture of workpiece residue and abrasive particles with grinding aid (water, oil) created by abrading action.

Truing

1. The procedure used to restore a flat surface to a worn contact wheel or platen.
2. Dressing a contact roll or wheel to make its surface run concentric with the axis.

Waterproof Abrasive A coated abrasive which will withstand grinding with water or water soluble oil as a grinding aid.

Wet Grinding A term used to describe full flood oil grinding and full flood water soluble methods. All methods other than absolutely dry are included.

Work Rest Blade Angle Angle at which the work rest blade meets the workpiece 20° to 30° angle is customary.

Zirconia A manufactured self sharpening abrasive grain that is effective on a variety of materials and applications.

CHOOSING THE RIGHT CUT OFF / GRINDING WHEEL

General Working and Safety Precautions

- Clearly laid-out and correct storage of wheels dry, at 20°C room temperature.
- Only works with corresponding protective clothing like goggles, gloves, work shoes with steel toes, hearing protection and a dust mask.
- Only secure cut off and roughing wheels with original clamping flanges provided for this purpose. Do not use defective or worn flanges.
- Only carry out cutting and roughing work with a corresponding guard.
- The use of damaged wheels increases the risk of an accident.
- Only process undamaged wheels. The permissible circumferential speed may not be exceeded.
- Do not mount worn wheels on smaller machines.

Special Working and Safety Precautions

Cutting:

- Cut off wheels are not permissible for rough grinding.
- Do not jam wheels in cut. Increased risk of breakage!
- A slight pendulum movement in the cut causes the wheel to be cut free.
- Ensure proper contact pressure. The machines own weight is generally sufficient!
- Ensure proper clamping of workpiece.
- Always clamp cut off wheels (straight version) with metal ring toward machine.
- Attention: With cut off wheels with a thickness of 1.0 mm, it must be checked whether the flange mounting of the angle grinder is suitable for the 1.0 mm wheel. Otherwise firm seating of the wheel must be ensured with the cardboard rings provided for this purpose.

Roughing:

- For free-handed grinding.
- Ensure the proper contact angle of the roughing wheel. A contact angle which is too flat will cause the wheel to break out around the edge.

Applications	
Materials	Material Designations
Steel 670, 669, 664	General construction steel High-strength construction steel Structural steel Tool steel Hardened steel
NF metals/Aluminum 664, 670	Aluminum Aluminum alloys Copper Brass Bronze Other lubricating non-ferrous metals
Stainless steel 664, 665, 670	Stainless steel sheets Non-alloyed stainless steel Alloyed and high-alloy steel Rust and acid-proof steels Chrome-nickel steel
Stone 670	Natural stone Artificial stone Chalky sandstone Concrete/reinforced concrete

Material	Würth prefix								
	664	669	670	664	670	664	665	670	670
General Construction Steel	A+	A+	A+						
High-Strength Steel	A+	A+	A+						
Structural Steel	A+	A+	A+						
Tool Steel	A+	A+	A+						
Hardened Steel	A+	A+	A+						
Aluminum				A+	A+				
Aluminum Alloys				A+	A+				
Copper				A+	A+				
Brass				A+	A+				
Bronze				A+	A+				
Other Non-Ferrous Metals				A+	A+				
Stainless Steel Sheets						A+	A+	A+	
Non-Alloyed Stainless Steel						A+	A+	A+	
Alloyed and High-Alloy Steel						A+	A+	A+	
Rust and Acid Proof Steels						A+	A+	A+	
Chrome-Nickel Steel						A+	A+	A+	
Natural Stone									A+
Artificial Stone									A+
Chalky Sandstone									A+
Concrete									A+

Steel
Non-Ferrous/Aluminum
Stainless Steel
Stone

664	Speed
665	Speed Ceramic
669	Roughing
670	Long life

HOW TO CHOOSE THE RIGHT COATED ABRASIVE

Material / Application	Disc Type (Grain)			
	Zirconia	Aluminum Oxide	Ceramic	Lubricated Aluminum Oxide
Steel	Red	Red	Red	Grey
Stainless Steel	Grey	Grey	Red	Black
Specialty Alloys	Red	Grey	Red	Black
Carbon Steel	Red	Grey	Red	Black
Wrought Iron	Red	Red	Grey	Black
Titanium	Grey	Grey	Grey	Red
Aluminum	Grey	Grey	Black	Red
Brass	Grey	Grey	Black	Red
Bronze	Grey	Grey	Black	Red
Lead	Grey	Grey	Black	Red
Fibreglass	Red	Grey	Black	Black

Best
Very Good
Not Recommended

Zirconia (Blue Grain)

This grain is made from a percentage of aluminum oxide and zirconium oxide. The combination results in a tough, durable abrasive that works well in rough grinding applications, on a broad range of steels and steel alloys. Provides a cool cut for high stock removal.

*Try our: Premium Zirconia Resin Fibre Discs - Prefix 580.01

Zebra Flap Discs, Zebra Mini Flap Discs and Zebra Flexi-Discs - Prefix 578

Aluminum Oxide (Brown Grain)

This synthetic material is the toughest of the grains and its toughness gives long life while its sharpness delivers a fast cut. Aluminum oxide has the greatest variety of uses among the coated abrasive minerals. It is usually the abrasive chosen for grinding carbon steel, alloy steel, high speed steel, malleable iron, wrought iron, and similar metals.

*Try our: Premium Aluminum Oxide Resin Fibre Discs - Prefix 580.1

Mini Resin Fibre Discs - Prefix 585

Ceramic (Red Grain)

This high-purity grain is an abrasive with the ability to fracture at a controlled rate, constantly creating thousands of new cutting points. Otherwise known as 'self-sharpening'. It is exceptionally hard and strong, and primarily used for precision grinding in demanding applications on steels and alloys that are the most difficult to grind.

*Try our: Premium Ceramic Coated Metal Discs - Prefix 579

Ceramic Mini Resin Fibre Discs - Prefix 585

Lubricated Aluminum Oxide (Brown-Waxed)

The use of grinding additives in this disc acts as a lubricant that resists disc loading. The disc disperses lubricants as it heats and grinds, which sheds the metal particles away from the disc. Traditionally designed for the fabrication industry for use on soft metals like bronze, brass and aluminum.

*Try our: Soft Metal Resin Fibre Discs - Prefix 580.4

CERAMIC SPEED-X GRINDING WHEEL



Steel
Stainless Steel



Roughing wheel with special multi-layer structure for high material removal and long service life.

Applications:

Suited for machining steel and stainless steel. Grinding edges, surfaces, hard weld seams, removing flash etc. (Also suitable for Aluminum/Non Ferrous applications)

Characteristics

Free of iron, chlorine and sulphur ($\leq 0.1\%$). Suitable for KWU Class II (e.g. pipeline and reactor construction).

Benefits:

Black fine-grained layer - Support layer

- Behaves like a support plate for the coarse-grained layer
- Increased safety during grinding
- No fraying of the wheel
- Wheel grinds down evenly
- Excellent vibration damping
- Prevents "white-finger disease"
- Easy on machines

Red coarse-grained layer

- High grind-off with low application of force
- Very cool grinding (no material discolouration)
- Very clean grinding pattern
- No clogging of wheel

Special fleece middle woven fabric

- Increased safety as a result of strong grain adhesion
- The combination of both a coarse and fine grain layer means that the grinding pattern can be changed depending on the angle.

Note: Outlasts Traditional Grinding Discs 5 to 1!!

Diameter		Thickness		Arbor hole		Design	Max. RPM	Art. No.	P. Qty
inch	mm	inch	mm	inch	mm				
4 1/2"	115	1/4"	6.0	7/8"	22,23	Depressed Center	13,300	664.181156	25
5"	125						12,200	664.181256	
7"	180						8,500	664.181806	



Black: Fine-grained layer

Red: Coarse-grained layer

ZEBRA GRINDING WHEELS



Stainless Steel

CONGLIFE

Long Life Grinding Wheel

- Iron, chlorine and sulphur free
- Meets KWU class II

Applications:

- Rough edges, deburring, weld seam preparation, etc.

Diameter		Thickness		Arbor hole		Design	Max. RPM	Art. No.	P. Qty
inch	mm	inch	mm	inch	mm				
4 1/2"	115	1/4"	7.0	7/8"	22.23	Depressed Center	13,300	670.181157	5
5"	125						12,200		



Steel

SPEED

Speed Grinding Wheel

Applications:

- Rough edges, deburring, weld seam preparation, etc.

Features:

- Synthetic bond, fibre-reinforced construction provides superior grinding properties, exceptional service life and drastically reduces disc failure
- Engineered to meet minimal measurement and imbalance tolerance thus eliminating excessive vibration and disc chatter
- Designed for use with electric and pneumatic angle grinders
- Maximum spherical speed 80 m/s
- Discs meet the strict safety requirements of the European standard (EN 12413) as well as the OSA (Organization for the Safety of Abrasives)

Diameter		Thickness		Arbor hole		Design	Max. RPM	Art. No.	P. Qty
inch	mm	inch	mm	inch	mm				
2 3/8"	60	1/4"	6.0	1/4"	6.0	Flat	25,000	664.160606	10
4 1/2"	115	5/32"	4.0	7/8"	22	Depressed Center	13,300	664.161154	
		1/4"	7.0					664.161157	
5"	125	5/32"	4.0	7/8"	22	Depressed Center	12,200	664.161254	10
			7.0					664.161257	
6"	150	1/4"	6.0	7/8"	22	Depressed Center	10,000	664.011253	10
7"	180		7.0					664.161807	

ZEBRA GRINDING WHEELS



Steel

LONGLIFE

Long Life Grinding Wheel

Applications:

- Rough edges, deburring, weld seam preparation, etc.

Diameter		Thickness		Arbor hole		Design	Max. RPM	Art. No.	P. Qty
inch	mm	inch	mm	inch	mm				
4 1/2"	115	5/32"	4.0	7/8"	22	Depressed Center 	13,300	670.161154	5
		1/4"	7.0					670.161157	
5"	125	5/16"	8.0					670.161257	
7"	180					8,500	670.161808		

GRINDING DISC



Steel

LONGLIFE

Applications:

- Rough edges, deburring, weld seam preparation, etc.

Diameter		Thickness		Arbor hole		Design	Max. RPM	Art. No.	P. Qty
inch	mm	inch	mm	inch	mm				
4 1/2"	115	5/32"	4.0	7/8"	22.23	Depressed Center	13,300	669.161256	25

ZEBRA GRINDING WHEELS



Aluminum / Non Ferrous

SPEED

Speed Grinding wheel

- A blend of additives combined with an open grain structure provides clog-free grinding on aluminum, soft bronze, brass and non-ferrous metals.
- Resists loading of soft metals

Diameter		Thickness		Arbor hole		Design	Max. RPM	Art. No.	P. Qty
inch	mm	inch	mm	inch	mm				
5"	125	1/4"	6.4	7/8"	22.23	Depressed Center	12,200	664.121351	10



Aluminum/Non Ferrous

LONGLIFE

Long Life Grinding Wheel

- An all-round harder disc
- Particularly long service life combined with good metal-removing properties
- Resists loading of soft metals

Applications:

- For the rough truing of cast-ons, casting skin and edges, preparing weld seams, etc.; also good for grinding brass

Diameter		Thickness		Arbor hole		Design	Max. RPM	Art. No.	P. Qty
inch	mm	inch	mm	inch	mm				
4 1/2"	115	5/32"	4.0	7/8"	22.23	Depressed Center	13,300	670.171157	5
5"	125	1/4"	7.0				12,200	670.171257	

ZEBRA COMBI ALL-IN-ONE DISC



SPEED

Steel

Stainless Steel

Cutting, grinding and polishing! All-in-One!

Features:

- Unique 3 layered reinforcement structure
- Highly aggressive
- Thermal and physical treatment for perfect disc structure
- Especially suited for machining steel and stainless steel, as well as some non-ferrous metals.

Applications:

- Metal machining and processing, steel construction, window and door construction
- On-site maintenance and repair
- Weld seam preparation and removal, general roughing, cleaning and finishing

Benefits:

- Cutting, grinding and polishing with a single product
- No more time loss due to machine or product change over
- The fine grit provides an excellent and uniform finish
- Low vibration
- Free of iron, sulphur and chlorine
- Low cutting temperature due to special fillers

Diameter		Thickness		Arbor hole		Design	Max. RPM	Art. No.	P. Qty
inch	mm	inch	mm	inch	mm				
4 1/2"	115	3/32"	2.2	7/8"	22.23	Depressed Center	13,300	665.131152	25
5"	125						12,200	665.131252	

RONDELLER GRINDING WHEELS



Aluminum/Non Ferrous metals

Stainless Steel

Steel

For use on all metals including non-ferrous!

Applications:

- Used for rough, medium and fine surface grinding, on all metals (ferrous and non-ferrous). Eg: mild and carbon steels, tool steels, stainless steels, aluminum, bronze, brass

Feature:

- No clogging
- Extended service life
- The patented construction and use of high-quality reinforcing guarantee high resistance to breaking
- Increased heat disbursement and operating noise level

Diameter		Thickness		Arbor hole		Design	Grit	Art. No.	P. Qty
inch	mm	inch	mm	inch	mm				
5"	125	5/32"	4.0	7/8"	22.23	Depressed Center	60	665.012560	5
7"	178						36	665.018036	

'XTREME CUT' CUT OFF DISC



Stainless Steel

Steel

The high-tech cutting disc with extreme cutting ability and high safety margin.

- Significantly cleaner and easier cutting due to rough side surfaces. As a result, no kick-back effect or disc jamming, even in extreme applications.
- Minimal burr formation
- Considerable less strain on the user from vibrations, cutting noise and flying sparks.
- Very high safety margin exceeds the safety requirements of the applicable standards due to its highly tear proof special woven fabric and innovative product composition.
- Free of iron, chlorine and sulfur: ≤ 0.1%

Features:

Service life:	●●●●
Cutting ability:	●●●●
Handling/User-friendliness:	●●●●
Cut quality:	●●●○
Versatility:	●●●○



Applications:

Especially suitable for machining steel and stainless steel. Cuts thick and thin materials: Pipes, profiles, solid materials, flat materials, cables, plastics, composite materials, etc.

Diameter		Thickness		Arbor Hole		Design	Max. RPM	Art No.	P. Qty
inch	mm	inch	mm	inch	mm				
4 1/2"	115	3/64"	1.0	7/8"	22.23	Flat	13,300	664.631150	25
5"	125	3/64"	1.0				12,250	664.631250	
4 1/2"	115	0.045"	1.3				13,300	664.631153	
5"	125	0.045"	1.3				12,250	664.631253	

ZEBRA CUT OFF WHEELS



Stainless Steel

SPEED

Speed Cut off Wheel

Features:

- Free of iron, chlorine and sulphur ($\leq 0.1\%$)
- Suitable for pipeline and reactor construction

Applications:

Pipe cutting, ventilation ducts, sheet metal (e.g. containers, sheet metal structures), piping, steel rods, steel reinforcement, profiles and rails (in plumbing sector), cable racks and cable ducts, high-voltage cables, steel cables, laminated materials, plastics, etc.

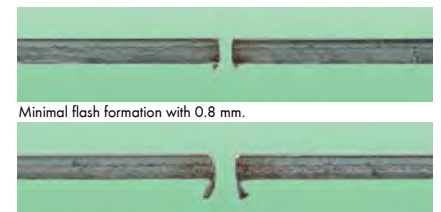
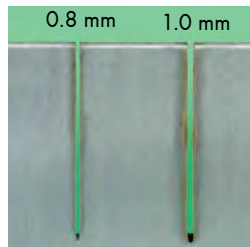
Diameter		Thickness		Arbour hole		Design	Max. RPM	Art. No.	P. Qty	
inch	mm	inch	mm	inch	mm					
2"	50	1/32"	1.0	1/4"	6.0	Flat 	30,500	664.130501	10	
2 3/8"	60	1/32"	1.0	1/4"	6.0		25,000	664.130601		
3"	76	0.04"	1.0	3/8"	10.0		20,100	664.130761	25	
4"	100	1/32"	1.0	3/8"	10.0		15,300	664.131000	10	
4 1/2"	115	1/32"	1.0	7/8"	22.23		13,300	664.131150		
4 1/2"	115	1/16"	1.6				13,300	664.131151		25
5"	125	1/32"	1.0				12,200	664.131250	10	
5"	125	1/16"	1.6	12,200	664.131251		25			
7"	180	1/16"	1.6	8,500	664.131801			Depressed Centre 	13,300	664.131148
4 1/2"	115	0.031"	0.8	12,200	664.131248		13,300		664.011150	
5"	125	0.031"	0.8	13,300	664.011151	12,200	664.011250			
4 1/2"	115	1/32"	1.0	12,200	664.011251	10,000	664.011252			
5"	125	0.04"	1.0	150	3.5					
5"	125	1/16"	1.6	150	1.6					
6"	150	1/8"	3.5							
6"	150	1/16"	1.6							

Advantages of 0.8 mm disc.

Super thin: Suited for cutting thin sheets, e.g. on vehicle bodies, thin-walled pipes, profiles and other thin-walled materials of steel and stainless steel.

Super fast: Extremely fast cutting - comparatively quiet, low-sparking and with extremely low dust development.

Minimal flash: Precision cutting with minimal flash formation.



Minimal flash formation with 0.8 mm.

For comparison: Flash formation with common 1.0 mm cut off wheel.

CUT OFF WHEELS

Stainless Steel



Cut Off Wheel

Applications:

- Cutting of metal sheets, pipes, profiles, steel cables, iron reinforcements, etc.

Features:

- Free of iron, chlorine and sulphur ($\leq 0.1\%$)
- Synthetic-resin bonded, fibre-reinforced standard cut off wheel
- High resistance to breakage
- Max. circumferential speed 80 m/s
- Complies with the most demanding safety requirements of European standard EN 12413 and the OSA (Organization for the Safety of Abrasives)

Diameter		Thickness		Arbor hole		Design	Max. RPM	Art. No.	P. Qty
inch	mm	inch	mm	inch	mm				
4 1/2"	115	1/32"	1.0	7/8"	22.23	Flat	13,300	669.131150	25
5"	125						12,200		

ZEBRA CUT OFF WHEELS



Steel

LONGLIFE

Long Life Cut Off wheel

Applications:

- Metal sheets, pipes, profiles, steel rope, reinforcement bar, etc.

Features:

- Thin blade design results in a quick, precise cut, while leaving a virtually burr-free edge
- High quality construction results in an extremely long service life and the highest resistance to disc failure
- Spark formation, dust, noise output and disc shatter are minimal
- Designed to cut effortlessly through thin-walled pipes, and thin-gauge sheet metal.

Diameter		Thickness		Arbor hole		Design	Max. RPM	Art. No.	P. Qty
inch	mm	inch	mm	inch	mm				
5"	125	3/32"	2.5	7/8"	22.23	Depressed Center	12,200	670.101252	10
7"	180						8,500		
12"	300	3/16"	3.5	25/32"	20.00	Flat	5,100	670.103023	
14"	350	5/32"	4.0				5,400	670.103524	

ZEBRA CUT OFF WHEELS

Steel



Applications:

- Cutting solid materials, pipes, profiles and sheet metal.

Features:

- Synthetic-resin bonded, fibre-reinforced cut off wheel
- High resistance to breakage
- Max. circumferential speed 80 m/s
- Complies with the most demanding safety requirements of the European standard EN 12413 and the OSA (Organization for Safety of Abrasives)

Diameter		Thickness		Arbor hole		Design	Max. RPM	Art. No.	P. Qty
inch	mm	inch	mm	inch	mm				
4 1/2"	115	3/32"	2.5	7/8"	22.23	Depressed Center	13,300	669.101152	25
5"	125						12,200		

Aluminum / Non Ferrous



LONG LIFE

Long Life Cut Off Wheel

Applications:

- Metal sheets, copper pipes, extruded aluminum and more.
- Resists loading on soft metals

Diameter		Thickness		Arbor hole		Design	Max. RPM	Art. No.	P. Qty
inch	mm	inch	mm	inch	mm				
4 1/2"	115	3/32"	2.5	7/8"	22.23	Depressed Center	13,300	670.121152	5
5"	125						12,200		

Aluminum / Non Ferrous



SPEED

Speed Cut Off Wheel

Applications:

- Metal sheets, pipes, profiles, roof coverings, gutters and more.

Diameter		Thickness		Arbor hole		Design	Max. RPM	Art. No.	P. Qty
inch	mm	inch	mm	inch	mm				
5"	125	1/16"	1.6	7/8"	22.23	Centre Bombé	12,200	664.121251	10

3" CUTTING DISC



Features:

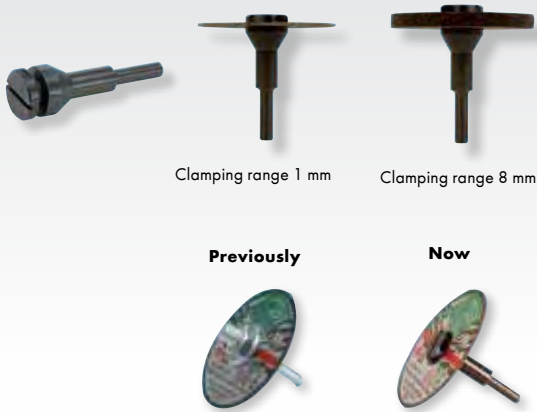
- High edge strength and extremely long service life ensures greater efficiency in daily use
- Maximum RPM - 25,000

Applications:

- Used for finishing applications, smooth cutting and burr-free finish
- Recommended for refineries and nuclear industries.

Dia.	Thickness	Arbor Hole	Art. No.	P. Qty
3"	1/32"	3/8"	670.761	10
	1/16"		670.7515	
	1/8"		670.763	

CLAMPING MANDRELS FOR CUT OFF AND ROUGHING WHEELS



Benefits:

- Clamping range from 0 to 8 mm
- Countersunk clamping screw
- No protruding thread sections, enabling work even in cramped spaces
- Clamping screw with large contact surface and right-hand threads (self-clamping effect)
- Reliable holding of wheels
- Clamping screw with large support surface and lengthwise slit
- Easy releasing or tightening with an open-end wrench, 17 mm, or straight-blade screwdriver

Arbor	Shank Diameter	Total length (mm)	Art. No.	P. Qty
6mm	6 mm	54	664.976	1
10mm		58	664.978	

CHOP SAW BLADES



Steel

General purpose, fast cutting

- Designed for a fast cut.
- Designed to avoid glazing on hard materials.
- Ideal for a wide variety of shapes and thicknesses.

Dimensions inch	Dimensions mm	RPM	Art. No.	P. Qty
12" x 3/32" x 1"	305 x 2.5 x 25.4 mm	5,100	670.07079	2
14" x 3/32" x 1"	355.5 x 2.5 x 25.4 mm	4,400	670.07086	10
16" x 3/32" x 1"	406.5 x 2.5 x 25.4 mm	3,800	670.08010	

Stainless Steel

Applications:

- Ferrous metals, light or heavy structural steels and solids.

Steel

General purpose, long life

- Designed for use on low-powered chop saws.

Dimensions inch	Dimensions mm	RPM	Art. No.	P. Qty
14" x 7/64" x 1"	355.5 x 2.8 x 25.4 mm	4,400	670.07080	2
16" x 3/32" x 1"	406.5 x 2.5 x 25.4 mm	3,800	670.08015	10

Stainless Steel

Applications:

- Ferrous metals, light structural steels, thin wall tubing and small solids.

CHOP SAW BLADES



Steel

Extra long life - for metal studs

General purpose, extra long life

- Designed to cut metal studs used in construction.
- The mixture of abrasive grains provides long life and cool cutting to outlast other wheels used for the same application.

Dimensions inch	Dimensions mm	RPM	Art. No.	P. Qty
14" x 3/32" x 1"	355.5 x 2.5 x 25.4 mm	4,400	670.07092	5

Applications:

- Metal studs, light ferrous metals, light structural steels, thin rebar, light gauge metal.

GRINDING STONES


Features:

- Ceramically bound
- Type A, straight
- Tool grinding machines or other stationary grinding machines
- For general purpose grinding of steel, iron, forging grade steel, and more

Note: Do not exceed 2,000 RPM. if tool is used above 2,000 RPM, personal injury or surface damage may occur.

Diameter	Thickness	Arbor hole	Grit	Design	Max. RPM	Art. No.	P. Qty
8"	3/4"	1"	36	Flat	2,000	679.203036	1
			60			679.203060	

ADAPTOR SLEEVES



- Grinding stone reducing bushing
- Made of plastic

Outer Dia.	Inner Dia. (inch equiv.)	Inner Dia. (mm)	Art. No.	P. Qty
1-1/4" (32mm)	15/32"	12mm	679.03212	2
	5/8"	16mm	679.03216	

CERAMIC PLUS RESIN FIBRE DISCS



Innovative grain technology that results in sharper grain edges and higher stock removal on high alloyed steels and stainless steel.

Features:

- Aggressive self-sharpening grain
- Microcrystals that produce sharper grain edges

Advantages:

- Long service life
- High removal rate
- Low contact pressure required
- Cool sanding

Applications:

- Stainless steel
- Steel
- Aluminum
- Rust resistant, acid resistant and heat resistant high alloyed steels

Diameter x Arbor Hole	Grit	Max RPM	Art. No.	P. Qty.
4-1/2" x 7/8"	36	13 330	580.911536	25
	60		580.911560	
	80		580.911580	
	120		580.911512	
5" x 7/8"	36	12 250	580.912536	
	60		580.912560	
	80		580.912580	
	120		580.912512	
7" x 7/8"	36	8 500	580.917836	
	60		580.917860	
	80		580.917880	
	120		580.917812	

PREMIUM CERAMIC COATED RESIN FIBRE DISCS



Works on the hardest metals

- Developed especially for use on stainless steel and other alloys
- Provides higher cut rates and cooler grinding temperatures

Features:

- Heat treated, blue fired, aluminum oxide and ceramic grain
- Custom blended grinding aid
- Synthetic wax

Applications:

- Stainless Steel 300 Series
- Carbon Steel
- Exotic Alloys
- Titanium

Benefits:

- Fast cut
- Works on the hardest metals
- Longer life, anti-glazing, anti-loading, cool grinding product

Diameter x Arbor Hole	Grit	Art. No.	P. Qty
4 1/2" x 7/8"	24	579.412.024	25
	36	579.412.036	
	80	579.412.080	
5" x 7/8"	24	579.5..024	
	36	579.5..036	
	50	579.5..050	
	60	579.5..060	
	80	579.5..080	
7" x 7/8"	24	579.7..024	
	36	579.7..036	

Note: For best results use with Art. No. 586 Air Cooled Backing Pads

PREMIUM ZIRCONIA RESIN FIBRE DISCS



High quality, multi layer, heavy duty vulcanized fibre discs

Features:

- Covered with a **resin bond coating** specially formulated to resist loading, glazing and grain stripping
- The bond coat is then covered with specially processed mineral abrasive grains formulated for toughness, sharpness and bond
- Outstanding cutting rates and maximum service life
- Especially suitable for stainless steel
- Powerful, versatile, flexible, safe and economical
- Most cost effective when used in high production applications where cutting rates are monitored

Applications:

- Stock removal (welds, protrusions)
- Finishing and blending
- Varying work piece substrates
- Flat surfaces
- Contour surfaces
- Stainless - Cobalt Titanium
- General purpose grinding ferrous and non-ferrous metals, fibreglass, wood

Diameter x Arbor Hole	Grit	Art. No.	P. Qty
4 1/2" x 7/8"	24	580.011524	25
	36	580.011536	
	60	580.011560	
	80	580.011580	
5" x 7/8"	24	580.012524	
	36	580.012536	
	60	580.012560	
	80	580.012580	
7" x 7/8"	24	580.018024	
	36	580.018036	
	60	580.018060	

Note: For best results use with Art. No. 586 Air Cooled Backing Pads

PREMIUM ALUMINUM OXIDE RESIN FIBRE DISCS



High quality, multi layer, heavy duty vulcanized fibre discs

Features:

- Covered with a **resin bond coating** specially formulated to resist loading, glazing and grain stripping
- The bond coat is then covered with specially processed mineral abrasive grains formulated for toughness, sharpness and bond
- A blend of advanced abrasive alloys and bonding agents delivers superior cutting rates and longer service life
- No breaking or tearing at the edges during grinding
- Provides optimal value when used in high stock removal applications and where cool cutting action is required

Applications:

- Stock removal (welds, protrusions)
- Finishing and blending
- Varying work piece substrates
- Flat surfaces
- Contour surfaces

Diameter x Arbor Hole	Grit	Art. No.	P. Qty
4 1/2" x 7/8"	24	580.11524	25
	36	580.11536	
	40	580.11540	
	60	580.11560	
	80	580.11580	
5" x 7/8"	24	580.12524	
	36	580.12536	
	50	580.12550	
	60	580.12560	
	80	580.12580	
	120	580.125120	
7" x 7/8"	24	580.18024	
	36	580.18036	

Note: For best results use with Art. No. 586 Air Cooled Backing Pads

SOFT METAL RESIN FIBRE DISCS



Waxed disc provides optimum lubrication and loading resistance

Features:

- Wax coating prevents the disc from loading
- Long life discs as a result of loading resistance
- Grinds soft metals quickly
- Reduces heat at the contact point
- Removes larger media chips
- Lubricates as they grind
- Resist loading
- Greater longevity
- Outlast conventional aluminum oxide discs
- RPM: 13,000 (4.5") and 12,000 (5")

Applications:

Soft Metals with lower melting temperatures including:

- Aluminum
- Bronze
- Brass
- Copper
- Lead

Advantages:

- Reduces the number of discs used
- Longer working life of disc
- Less down time
- Faster cut rates and better surface finish
- Resists loading

Diameter x Arbor Hole	Grit	Art. No.	P. Qty
4 1/2" x 7/8"	36	580.412.036	25
	80	580.412.080	
5" x 7/8"	36	580.5..036	
	50	580.5..050*	
	60	580.5..060*	
	80	580.5..080	

*Available OnDemand

Note: For best results use with Art. No. 586 Air Cooled Backing Pads

BACKING PADS – AIR COOLED FOR RESIN FIBRE DISCS



- Air Cooled
- Easy to assemble
- Max. RPM: 13,000
- Cools the disc while grinding

Size	Art. No.	P. Qty
4 1/2"	586.7004	1
5"	586.7005	
7"	586.7007	

CENTRE NUT FOR RESIN FIBRE DISCS



Art. No. 715.58 Qty: 1

- 5/8" - 11 centre locking nut for use with Air Cooled Backing Pads

TRIM-CUT GRINDING DISCS – ALUMINUM OXIDE



Grind



Trim



Reverse Thread
(For hard to reach places)

Features:

- Patented one-piece molded plastic grinding discs
- Insulated against heat build up allowing cooler high-speed grinding
- Can be repeatedly trimmed right down to the arbour
- Cost effective and time effective
- Reverse thread for hard to reach areas

Applications:

- Ideal for rust and paint as well as general auto body work. A great performance disc on plastic, fiberglass and composites
- Ideal for removing rust and paint, gaskets and adhesives
- Excellent for smoothing hardened alloy welds, grinding stainless steel, titanium, and non ferrous metal.

Grinding and removal of:

- Welds
- Body Filler
- Fibreglass
- Sheet metal burrs
- Paint
- Wood
- Plastic
- Rust

Size / Grit	Art. No.	P.Qty
3" Disc- Coarse (36 Grit)	585.936	10
3" Disc- Medium (60 Grit)	585.960	
1/4" Mandrel	715.5859	1

*Each box contains one 1/4" mandrel

Note: Rated up to 28,000 RPM

Patented Reverse Thread and Trimmable Technology

CERAMIC PLUS - MINI RESIN FIBRE DISCS



Innovative grain technology that results in sharper grain edges & higher stock removal on high alloyed steels and stainless steel



Compatible with 3M Roloc™ System

Features:

- Aggressive self-sharpening grain
- Microcrystals that produce sharper grain edges

Advantages:

- High removal rate
- Long service life
- Low contact pressure required
- Cool grinding

Applications:

- Stainless steel
- Steel
- Aluminum
- Rust resistant, acid resistant and heat resistant high alloyed steels



Diameter × Arbor Hole	Grit	Art. No.	P. Qty.
2"	24	585.91224	25
	40	585.91240	
	60	585.91260	
	80	585.91280	
3"	24	585.91324	
	40	585.91340	
	60	585.91360	
	80	585.91380	

PREMIUM CERAMIC – MINI RESIN FIBRE DISCS



Compatible with 3M Roloc™ System

Features:

- 100% ceramic grain with top coat (grinding aid)
- Superior life and fast cut
- Excellent for rapid stock removal on stainless steel and tough alloys
- Perfect for deburring, weld removal, corrosion and oxidization removal

Applications

GOOD Cast Iron

BETTER Mild Steel

BEST Stainless Steel, Titanium, Inconel

Note: Use with Type 'R' Mandrel Art. No. 585.41 and Art. No. 585.43

Diameter	Grit	Art. No.	P. Qty
2"	24	585.7210	50
	36	585.7215	
	40	585.7220	
	50	585.7225	
	60	585.7230	
	80	585.7235	
	100	585.7240	
3"	120	585.7245	25
	24	585.8210	
	36	585.8215	
	40	585.8220	
	50	585.8225	
	60	585.8230	
	80	585.8235	
100	585.8240		
	120	585.8245	

ZEE SUPREME – MINI RESIN FIBRE DISCS



Compatible with 3M Roloc™ System

Features:

- 100% zirconia with top coat (grinding aid)
- Superior life and fast cut
- Lubricated for cool grinding
- Excellent for rapid stock removal on carbon steel
- Great for removing sharp edges and burrs

Applications

GOOD Bronze, Brass, Aluminum

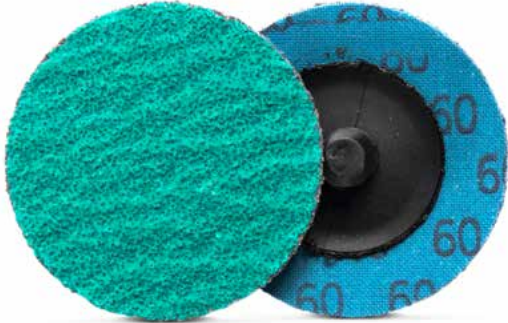
BETTER Mild Steel, Cast Iron

BEST Stainless Steel, Titanium, Inconel

Note: Use with Type 'R' Mandrel Art. No. 585.41 and Art. No. 585.43

Diameter	Grit	Art. No.	P. Qty
2"	24	585.2210	50
	36	585.2215	
	50	585.2225	
	60	585.2230	
	80	585.2235	
	100	585.2240	
	120	585.2245	
3"	24	585.2310	25
	36	585.2315	
	50	585.2325	
	60	585.2330	
	80	585.2335	
	100	585.2340	
	120	585.2345	

GREEN POWER ZIRCONIA – MINI CLOTH DISCS



Compatible with 3M Roloc™ System

Features

- 100% zirconia with top coat (grinding aid)
- Cloth backing allows flexibility when used on a contoured surface
- Superior life and fast cut
- Excellent for rapid stock removal on carbon steel
- Great performance on light gauged sheet metal
- Flexibility reduces gouging of metal resulting in a finer finish

Applications

GOOD Bronze, Brass, Aluminum

BETTER Mild Steel, Cast Iron

BEST Titanium, High Nickel Alloys

Diameter	Grit	Art. No.	P. Qty
2"	36	585.598422	25
	50	585.598424	
	60	585.598425	
	80	585.598426	
	120	585.598428	
3"	36	585.598522	25
	50	585.598524	
	60	585.598525	
	80	585.598526	
	120	585.598528	

Note: Use with Type 'R' Mandrel Art. No. 585.41 and Art. No. 585.43

PREMIUM ALUMINUM OXIDE – MINI RESIN FIBRE DISCS



Compatible with 3M Roloc™ System

Benefits:

- Type-R hub is made from the highest quality virgin plastic
- The fibre backing creates stiff, strong support for a more aggressive and faster cut
- Fits all existing Type 'R' style backing pads

Applications

GOOD Wood, Ferrous Metals

BETTER Aluminum, Copper, Brass

BEST Carbon Steel, Cast Iron

Diameter	Grit	Art. No.	P. Qty
2"	24	585.6224	50
	36	585.6236	
	50	585.6250	
	120	585.62120	
3"	24	585.6324	25
	36	585.6336	
	50	585.6350	
	120	585.6399	

Note: Use with Type 'R' Mandrel Art. No. 585.41 and Art. No. 585.43

ALUMAX – MINI RESIN FIBRE DISCS



Compatible with 3M Roloc™ System

Features:

- 100% ceramic grain with top coat (grinding aid)
- Cool cut with anti-loading agent for soft metals
- Superior life
- A premium product for aluminum, brass, copper etc.
- Rapid stock removal
- Drastically reduced aluminum galling due to anti-loading

Applications

GOOD Fibreglass, Composites

BETTER Copper, Brass

BEST Aluminum

Note: Use with Type 'R' Mandrel Art. No. 585.41 and Art. No. 585.43

Diameter	Grit	Art. No.	P. Qty
2"	24	585.3210	50
	36	585.3215	
	50	585.3225	
	60	585.3230	
	80	585.3235	
	100	585.3240	
	120	585.3245	
3"	24	585.3310	25
	36	585.3315	
	50	585.3325	
	60	585.3330	
	80	585.3335	
	100	585.3340	
	120	585.3345	

SURFACE CONDITIONING DISCS



Benefits:

- More flexible than a fibre sanding disc; less likely to gouge metal
- Open construction of disc material allows dust to work through the disc and away from the surface
- Disc is much quieter during use than a fibre disc
- Will remove sharp edges and spot welds
- Much easier to control

Diameter		Type	Colour	Max. RPM	Art. No.	P. Qty
Inches	mm					
5"	125	Coarse	Brown	20,000	585.4510	10
		Medium	Maroon		585.4520	
		Fine	Blue		585.4530	

Applications: Ideally suited for machining stainless steel, steel, brass, copper, paint and rust removal.

Note: Use with backing pad Art. No. 586.7005

Coarse

GOOD Heavy stock removal

BETTER Scale Removal

BEST Heavy Deburring

Medium

GOOD Light deburring

BETTER Cleaning

BEST Blending, Finishing

Fine

GOOD Blending

BETTER Finishing

BEST Cleaning

MINI SURFACING CONDITIONING DISCS - TYPE 'R'



Compatible with 3M Roloc™ System

Features:

- Removes old paint and coatings supplying a smooth, uniform surface
- Removes coarse grind lines, milling marks and micro burrs
- Removes light rust
- Minimizes undercutting and gouging, will not disturb critical tolerances
- Removes old gasket adhesives
- Cleans or deburrs hard to reach areas.
- Silicone free

Recommendations:

- Always wear protective eye wear when operating surface discs (**Prefix 899**)

Diameter	Type	Colour	Max. RPM	Art. No.	P. Qty
2"	Heavy Duty	Brown	23,000	585.42099	50
	Extra Coarse	Brown		585.4209	
	Coarse	Brown		585.4210	
	Medium	Maroon	20,000	585.4211	
	Fine	Blue	23,000	585.4230	
	Extra Fine	Grey		585.4240	
3"	Extra Coarse	Brown	15,000	585.4315	25
	Coarse	Brown		585.4310	
	Medium	Maroon	13,000	585.4320	
	Fine	Blue		585.4330	

Applications: Use **medium and coarse** surface conditioning discs for steel surfaces. Use **fine and extra fine** surface conditioning discs for aluminum surfaces.

Heavy Duty

GOOD Heavy stock removal
BETTER Scale Removal
BEST Heavy Deburring

Extra Coarse

GOOD Scale removal
BETTER Med stock removal
BEST Rust & paint removal

Coarse

GOOD Light Stock Removal
BETTER Scale Removal
BEST Light deburring

Medium

GOOD Light deburring
BETTER Cleaning
BEST Blending, Finishing

Fine

GOOD Blending
BETTER Finishing
BEST Cleaning

Extra Fine

GOOD Light Blending
BETTER Finishing
BEST Light Cleaning

Note: Use with Type R Mandrel Art. No. 585.41 and 585.43

TYPE 'R' MANDREL



For use with all Würth Type 'R' mini discs

Diameter	Art. No.	P. Qty.
1-1/2"	585.40	1
2"	585.41	
3"	585.43	
4"	585.44	

VELCRO SURFACE CONDITIONING DISCS



For use on electric and pneumatic angle grinders. Ideal for sanding flat surfaces.

Benefits:

- High tear resistance, even sanding pattern, water resistant
- No change in shape during sanding
- No clogging
- Cooler sanding (low working temperature)

Diameter		Type	Colour	Max. RPM	Art. No.	P. Qty
Inches	mm					
4 1/2"	115	Coarse	Brown	4,150	585.46080	10
		Medium	Maroon		585.460100	
		Fine	Blue		585.460180	
5"	125	Coarse	Brown	3,800	585.47080	
		Medium	Maroon		585.470100	

Applications: Burnishing, matting, polishing, removing paint runs, removing surface defects (light scratches) and smoothing surfaces

Coarse

GOOD Heavy stock removal

BETTER Scale Removal

BEST Heavy Deburring

Medium

GOOD Light deburring

BETTER Cleaning

BEST Blending, Finishing

Fine

GOOD Blending

BETTER Finishing

BEST Cleaning

Note: Use with backing pad Art. No. 586.12012, 586.12028 or 586.12035

Product Tip: Ideally suited for machining aluminum, steel, brass, copper, wood, plastics and paints.

BACKING PADS



Velcro Backing Pads

- Backing pad for use with Velcro discs. Incorporates unique hook and loop fastening system for simple application and removal.

Dia.	Shank size	Max. RPM	Art. No.	P. Qty
4 1/2"	5/8" - 11 Female	10,000	586.12012	1
5"			586.12035	

Safety Tip: Always check the RPM of the disc being used.

CERAMIC PLUS FLAP DISCS



Innovative grain technology that results in sharper grain edges and higher stock removal on high alloyed steels and stainless steel

Features:

- Aggressive self-sharpening grain
- Microcrystals that produce sharper grain edges

Advantages:

- Long service life
- High removal rate
- Low contact pressure required
- Cool grinding

Applications:

- Stainless steel
- Steel
- Aluminum
- Rust resistant, acid resistant and heat resistant high alloyed steels

Diameter	Arbour Hole	Grit	Max. RPM	Design	Art. No.	P. Qty.
4-1/2"	7/8"	40	13,300	Type 29	578.941240	5
		60			578.941260	
		80			578.941280	
5"	7/8"	40	12,200	Type 29	578.950040	
		60			578.950060	
		80			578.950080	

FLAP DISCS - CERAMIC



LONG LIFE

Benefits:

- Lasts up to four times longer than conventional flap discs.
- Very high degree of material removal.
- Finer, more uniform surface quality.

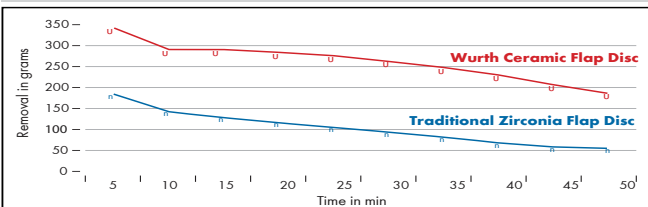
High-performance grinding cloth:

- Self-sharpening ceramic grain.
- Extremely long service life.
- Very cool grinding.
- No discolouration of material.
- Self-sharpening ceramic grain.

Applications:

- Ideal for the processing of stainless steel, high-alloy steels, nickel-based alloys and titanium alloys.
- Used for grinding edges and surfaces, dressing and smoothing, deburring and weld seam processing

Grinding Comparison with Grit 40 in Stainless Steel 1.4571



Diameter	Arbour hole	Grit	Max. RPM	Design	Backing	Art. No.	P. Qty.
4 1/2"	7/8"	40	13,300	Type 29	Fibreglass Backed	578.430314	10
		60				578.430316	
		80				578.430318	
5"	7/8"	40	12,200	Type 29	Fibreglass Backed	578.430324	
		60				578.430326	
		80				578.430328	

JUMBO FLAP DISCS - ZIRCONIA



For use on all types of metals!

- Designed for maximum performance when deburring, grinding and polishing metals
- Mineral bond and fibreglass backing for better performance and stronger resistance
- Powerful, versatile, flexible, safe and economical

Note: Lasts up to 3 times longer than a conventional flap disc due to more flap segments.

Dia.	Arbor hole	Grit	Max. RPM	Design	Art. No.	P. Qty.
4 1/2"	7/8"	24	13,300	Type 27	578.412.024	5
		40			578.412.040	
		60			578.412.060	
		40		Type 29	578.412.4029	
		60			578.412.6029	
80		578.412.8029				
5"		24	12,300	Type 27	578.5..024	
		40			578.5..040	
		60			578.5..060	
		80			578.5..080	
	24	Type 29		578.5..2429		
	36			578.5..3629		
	60			578.5..6029		
	80			578.5..8029		

FLAP DISCS – ZIRCONIA



Can be used on virtually any material!

Benefits:

- High removal rate
- Long life
- Cool cutting
- Even grinding pattern

Applications:

- Performance grinding for high stock removal
- Removal of welded seams and edge grinding
- Works on burrs and rough casts
- Rust removal and cleaning

Note: The Type 29 Conical discs are only available with fibreglass backing, and the Type 27 Flat discs are only available with plastic backing.

Diameter	Arbor hole	Grit	Max. RPM	Design	Backing	Art. No.	P. Qty.		
4 1/2"	7/8"	40	13,300	Type 29	Fibreglass Backed	579.430314	10		
		60				579.430316			
		80				579.430318			
5"		40	12,300			579.430324			
		60				579.430326			
		80				579.430328			
4 1/2"		40	13,300			Type 27		Plastic Backed	579.431514
		60							579.431516
		80							579.431518
5"		40	12,300						579.431524
	60	579.431526							
	80	579.431528							
7"	40	8,500	Type 29	Fibreglass Backed	578.02940		5		
	60				578.02960				
	80				578.02980				

EZ SPIN FLAP DISCS – ZIRCONIA



Reduce waste and increase productivity with the EZ Spin Quick Change System.

Features:

- Cool cutting zirconia grain
- One step 'spin on' 5/8-11 threaded hub
- Ergonomic grip area for fast and easy finger alignment and mounting
- Positive drive - no slip
- Over-torque protection
- Self-tightening thread
- Durable high-strength plastic backing

Advantages:

- Super-fast mounting and demounting
- Eliminate costly changeover time
- Plastic backing absorbs vibration and increases removal rate performance
- 5/8-11 hub fits all standard grinders
- High stock removal
- Long life
- Even grinding pattern

Applications:

- Steel, stainless steel, non-ferrous, vehicle body construction, wood etc.
- Grinding and finishing welds
- Removal of welded seams
- Edge grinding
- Rust removal and heavy cleaning
- Surface finishing

Diameter	Arbor	Grit	Max. RPM	Design	Art. No.	P. Qty
4-1/2"	5/8-11	36	13,300	TYPE 29	579.432513	5
		40			579.432514	
		60			579.432516	
		80			579.432518	
		120			579.432511	
5"		36	12,200		579.432523	
		40			579.432524	
		60			579.432526	
		80			579.432528	
		120			579.432521	

SEE-THROUGH FLAP DISC ZIRCONIA



See “through the disc” and thus on the material being processed. Cool and even grinding results. Ideal for the processing of thin sheet metal for the construction of vehicle bodies and weld seams.

Benefits:

- Free view of the work piece being processed:
 - Prevents undesired excessive grinding
 - Reduction of processing faults
- Better surface quality through more targeted work
- Cool grinding due to fan effect:
 - Reduction of temperature on the surface prevents undesired blue colouring of the work piece
- Good, steady guidance

Applications:

General steel construction

- Weld seam preparation and post-processing of weld seams
- Derusting
- Removal of scale
- Grinding of wrought ironwork (grills, railings, banisters)
- Removal of excess zinc on weld seams before plastic coating

Stainless steel processing

- Pipeline construction, tank and container construction
- Apparatus construction (chemical industry)
- Plant construction, such as breweries, food industry
- Boat construction

Aluminum processing (all non-ferrous metals)

- Special vehicles, such as silo vehicles, ambulances, fire department vehicles, etc
- Ship construction
- Airplane construction

Agricultural machines

- Sharpening of blades (lawn mowers, reciprocating finger bar mower)

Vehicle body construction

- Accident repairs: paints and filler compounds, MIG solder seams
- Special vehicle construction (truck attachments, servicing, and parts subject to wear for bulk material transporters)

Wood and Fibre-reinforced plastic processing

- Exact surfaces or edge corrections

Function:



Grinding without Zebra slotted see-through disc.



Grinding with Zebra slotted see-through disc: good view of the material being processed.

Dia	Arbor Hole	Grit	Max. RPM	Design	Art. No.	P. Qty
4 1/2"	7/8"	40	13,300	Type 29	578.811.540	2
		60			578.811.560	
		80			578.811.580	
5"	7/8"	40	12,200	Type 29	578.812.540	2
		60			578.812.560	
		80			578.812.580	

Note: When only wood or plastics are ground, the disc must be cleaned by grinding on a sharp-edged iron tool.

Product Tip: For particular use on steel, stainless steel and aluminum. Welding spray, **Art. No. 893.1021**, extends the tool life of the slotted see-through disc for the processing of non-ferrous metals.

MINI FLAP DISCS - TYPE 'R' ZIRCONIA



Mini flap disc with type-R quick-action chuck for use with die grinders.

Applications:

- Alternative to mini resin fibre discs, small roughing discs, point grinders, fan-shaped grinders, grinding sleeves, grinding caps, etc.
- Weld seam finishing, surface grinding, removal of paint, tool sharpening, plastering and smoothing, deburring, edge machining and finishing, particularly in tight spaces
- Used for stainless steel, chromium, and nickel alloys, alloyed and unalloyed steels, construction steel, tool steel, nonferrous metals, castings, hard plastics and wood



Compatible with 3M Roloc™ System

Use with: Type R Mandrel Art. No. 585.41 and 585.43

Diameter	Grit	Max. RPM	Art. No.	P. Qty.
2"	40	30,000	578.605040	2
	60		578.605060	
	80		578.605080	
3"	40	20,000	578.607640	
	60		578.607660	
	80		578.607680	

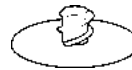
MINI FLEXI DISCS -TYPE 'R' ZIRCONIA



Suitable for concave or convex surfaces as well as finishing, transition and profile grinding. Robust and flexible cotton fabric with high tearing strength.

Applications:

- Used on stainless steel, chromium and nickel alloys, alloyed and unalloyed steels, construction steel, tool steel, nonferrous metals, castings, hard plastics and wood

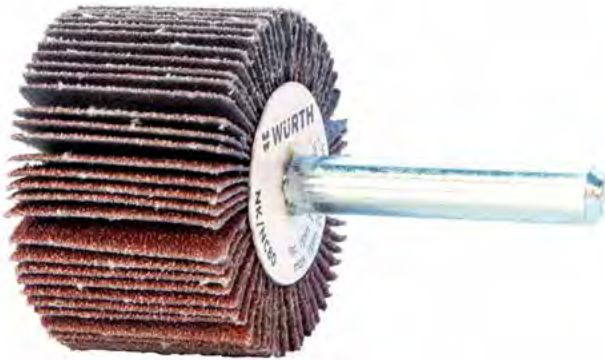


Compatible with 3M Roloc™ System

Use with: Type R Mandrel Art. No. 585.41 and 585.43

Diameter	Grit	Max. RPM	Art. No.	P. Qty.
2"	40	30,000	578.705040	2
	60		578.705060	
	80		578.705080	

FLAP WHEELS



Benefits:

- Excellent for applications requiring high stock removal and aggressive cleaning, blending and finishing
- Leaves straight line finish
- Mandrel runs through the wheel reducing chatter and operator fatigue
- Aluminum oxide abrasive with phenolic resin

Applications:

- Deburr edges
- Clean, blend and finish inside and outside diameters of ferrous and non-ferrous metals

STANDARD

Grit	1" x 1/2"	1" x 1"	1 1/2" x 1/2"	P. Qty
	Art. No.	Art. No.	Art. No.	
60	672.033076	672.033096	672.034076	10
80	672.033078	672.033098	672.034078	
120	672.033071	672.033091	672.034071	
Max RPM	30,500	30,500	20,000	
Rec. RPM	15,700	15,700	10,000	

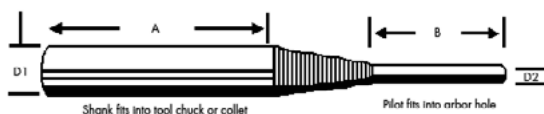
Grit	1 1/2" x 1"	2" x 1/2"	2" x 3/4"	P. Qty
	Art. No.	Art. No.	Art. No.	
60	672.034096	672.035076	672.035086	10
80	672.034098	672.035078	672.035088	
120	672.034091	672.035071	672.035081	
Max RPM	20,000	15,000	15,000	
Rec. RPM	10,000	7,500	7,500	

Grit	2" x 1"	2 1/2" x 1"	3" x 1"	P. Qty
	Art. No.	Art. No.	Art. No.	
60	672.035096	672.036096	672.037096	5
80	672.035098	672.036098	672.037098	
120	672.035091	672.036091	672.037091	
Max RPM	15,000	12,000	9,500	
Rec. RPM	7,500	6,000	4,700	

METRIC

Grit	30mm x 15mm x 6mm	40mm x 20mm x 6mm	60mm x 30mm x 6mm	P. Qty
	Art. No.	Art. No.	Art. No.	
60	672.010316	672.010426	672.010636	5
80	672.010318	672.010428	672.010638	
120	672.010311	672.010421	672.010631	
Max RPM	25,400	19,100	12,700	
Rec. RPM	12,000	9,600	6,300	

MANDRELS FOR CARTRIDGE ROLLS



Plated steel with a shank diameter to fit a variety of power tool chucks or collets.

For safety considerations, the mandrel pilot length used to drive a cartridge roll should measure at least 1/2" less than the overall length of the cartridge roll. Example: If a cartridge roll measures 2" in overall length, the corresponding mandrel should have a pilot length of no less than 1 1/2".

D1	O.A.L	A	B	D2	Art. No.	P. Qty
1/4"	4"	2-1/4"	1"	1/8"	588.200	1
	2-3/4"	1-1/4"	3/4"	3/16"	588.100	

CARTRIDGE ROLLS - ALUMINUM OXIDE



Also known as sanding rolls, tootsie rolls, or hard rolls. rolled strips of abrasives, designed for metal removal on curved surfaces.

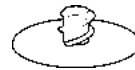
Applications:

- Ideal for engine porting, including intake manifold, head and exhaust manifold. Removes burrs from carburetor base and carburetor parts. Ideal solution for hard to reach areas
- Multi-layer, multi-wear design exposes new abrasive cutting points throughout the life of the roll
- Flash removal, polishing, removing machine tool marks and edge breaking

Diameter	Length	Arbor Hole	Grit	Art. No.	P. Qty
3/8"	1-1/2"	1/8"	60	588.031	25
			80	588.032	
			120	588.033	
40			588.040		
60			588.041		
80			588.042		
1/2"	1"	3/16"	80	588.050	
5/8"			80	588.050	



METAL POLISHING PADS - TYPE 'R'



Compatible with 3M Roloc™ System

Features:

- Excellent for restoring metal finishes on items too large to polish on a bench mounted polisher
- Allows the operator to polish with the same die grinder and holder pad they would normally use for surface conditioning and sanding discs
- Great final finishing on aluminum, brass and chrome

Applications:

- Used for polishing aluminum wheels, stainless steel tool boxes and running boards, chrome bumpers, brass fittings, chrome motorcycle exhaust, etc

Instructions:

- A metal polish or buffing compound must be applied to the disc prior to polishing any type of metal. The disc will not work without some sort of polishing agent
- Metal polish should be applied sparingly. If too much polish is used, the excess will fly off as soon as the disc is spun by the air tool, causing a mess
- Slow speed and light pressure should be used. Allow the disc and polish to do the work
- The disc can be cleaned of old polish residue by holding the tool at an angle and dragging a sharp tool, such as a screwdriver, across the face of the disc while it is spinning

Diameter	Max RPM	Art. No.	P. Qty
2"	20,000	585.3160	4
3"		585.3161	2

Use with: Type R Mandrel Art. No. 585.41 and 585.43

Product Tip: Begin polishing with Würth Buff and Blend and finish with this metal polishing pad.

BLENDING DRUMS



Blend, polish and clean steel, stainless steel, aluminum and brass.

Features:

- High quality fibres ensure a smooth, polished finish.

Advantages:

- The 4" width drums come with a dual 5/8-11 connection (one on each side). This allows the drum to be changed over to ensure even wear and to maximize service life

Applications:

- Blending, polishing, cleaning and brightening metal surfaces
- Suitable for use on hard plastics and wood
- Gently removes oxidization

Diameter (inches)	Width (inches)	Arbour	Dual Arbour Connection	Grit	Max RPM	Art. No.	P. Qty.
4-1/4	2	5/8-11	No	Coarse	5700	672.841221	1
				Medium		672.841222	
				Fine		672.841223	
	4		Yes	Coarse		672.850041	
				Medium		672.850042	
				Fine		672.850043	

BUFF & BLEND WHEELS



GRIT DEFINITION

120 Grit (Very fine blend): Blend minor surface imperfections

80 Grit (Very fine clean): Remove surface oxidation, coatings and rust. Surface preparation prior to coating.

60 Grit (Medium deburr): Remove part lines from castings, small burrs from threaded pipes, flash from plastic molded parts.

Benefits:

- Constructed of non-woven and aluminum oxide coated abrasive material
- High rate of cut while providing a uniform scratch pattern
- Smear-resistant formula
- Durable
- Permanently affixed 1/4" shank provides secure, safe and smooth running as well as ease of control
- Materials: ferrous, non-ferrous, aluminum, high nickel/chrome alloys and stainless steel

Applications:

- Designed for use on small straight pneumatic and electric grinders
- For removal of heavy oxidation prior to painting and/or plating
- For deburring and grain finishing stainless steel sheets after conventional coated abrasives
- For finishing stamped or extruded aluminum parts
- For satin finishing large surfaces
- For blending, cleaning and finishing on ferrous and non-ferrous materials when a linear scratch pattern is required and final finish is a primary concern

Features:

- Resists loading
- Cool running
- Long life

Materials:

- Ferrous
- Non-Ferrous
- Aluminum
- High Nickel / Chrome Alloys
- Stainless Steel

Diameter x Width x Shank	Abrasive Grit	Non-Woven	Max. RPM	Art. No.	P. Qty
2" x 1" x 1/4"	60	Medium	11,000	588.898000	2
	80			588.898001	
	120	Very Fine		588.898002	
	180			588.898003	
3" x 1" x 1/4"	120	Very Fine	8,000	588.898006	
	180			588.898007	
3" x 2" x 1/4"	60	Medium		588.898008	
	80			588.898009	
	180	Very Fine	588.898011		

CONTOUR SANDING PADS



Wood and metal sanding

- Aluminum oxide
- Abrasive paper and sanding block in one
- Adapts to any shape, making it highly versatile
- Can be re-used after rinsing with water
- Can be used on hard-to-reach areas
- Especially well-suited for flat sanding

Dimensions (mm)	Grain	Art. No.	P. Qty
125 x 100 x 10	60	587.0260	10
	80	587.0280	
	100	587.02100	
	120	587.02120	
	220	587.02220	

FOAM SANDING BLOCKS



Wood and metal sanding

- Aluminum oxide
- For dry sanding
- Made of flexible material, which allows it to adapt to any shape
- Can be re-used after rinsing with water

Dimensions (mm)	Grain	Art. No.	P. Qty
100 x 68 x 25	60	587.0160	10
	80	587.0180	
	100	587.01100	
	120	587.01120	
	160	587.01160	
	180	587.01180	
	220	587.01220	

FIBRATEX HAND PADS - 6" X 9"



Heavy Duty Coarse - Tan - Art. No. 585.23811

- Heavy duty aluminum oxide grain, extremely aggressive for paint removal and coarse finishing.

Coarse - Green - Art. No. 585.10889

- Industrial aluminum oxide grain for use on stainless steel. Great for heavy cleaning and food processing industry.

Medium - Maroon - Art. No. 585.10890

- Premium aluminum oxide grain for precision surface conditioning and a faster cut for scuffing, blending and paint preparation.

Fine - Grey - Art. No. 585.10891

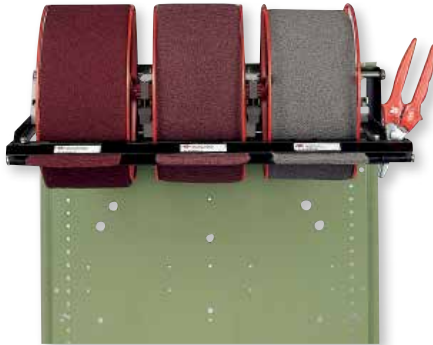
- Silicon carbide grain used for fine finishing. Good for between finish coats as well as lacquer rubbing. Can be used wet.

Ultra-Fine - White - Art. No. 585.10892

- Non-abrasive pad used for light duty cleaning. No added grain makes it gentle on the workpiece. Great for light primer and rub down on paint over-spray removal.

Product Tip: Can be used wet or dry

NYLON ABRASIVE FLEECE



Product Tip: For use on soiled or greasy areas - use with Art. No. 890.113 W-Sol Residue Remover, or use with Industry Clean Art. No. 893.140

Applications:

- Pretreatment for painting
- Prepping and cleaning of Aluminum
- Grease removal and scuffing
- Stripe matting (decorative finish) of non-ferrous metals and stainless steel
- Polishing copper, brazed joints
- Touch up paint work
- Light rust removal
- Repair defects in surface coat
- Fine polishing of plastic parts
- Scuffing of thermal plastics

Grade	Comparable Grit	Reel Length	Reel Width	Art. No.
Very Coarse	100	5 m	4 1/2"	585.805100
Coarse	180			585.805180
Medium	280			585.805280
Ultra Fine	1000			585.805600

NYLON FIBRE DISCS



Diameter	Working Speed RPM	Art. No.	Arbor	Arbor Art. No.	P. Qty
4"	3,500-4,500	585.1100	6mm	585.11001	1
6"	2,500-3,000	585.1150	3/8"	-	

- Silicon carbide nylon fibre disc (extra course)
- Suited to form all shapes and contours
- Produces even finish without scores or scratches
- Not affected by paint, rust particles, tin, underbody seal, or body sealants
- Free from corrosive metals
- Resistant to water and solvents
- Long tool life
- May be used wet or dry

Applications:

- Cleaning welding seams, metal surfaces, wood and plastic
- Removing tempering colour, scale, rust, corrosion, dirt and oxide layers, coatings, paints, old brushed-on coatings, synthetic resins, adhesives, gasket residues, cement and concrete residues
- Structuring, line matting, preparation and roughening up of surfaces
- Easy deburring
- Cleaning vehicle body

NYLON ABRASIVE FLEECE WITH SHANK



Diameter	Shank	RPM	Art. No.	P. Qty
2-1/2"	1/4"	5,000-10,000	585.320	5

- Nylon fibre fleece with silicone carbide abrasive grain for an even finish
- Contains no corrodible metals
- Long tool life
- Suited for working on the cleaning of wheel housing, flanged edges of doors, trunks and hoods

Applications:

- Rust removal
- Suitable for removal of old paint, underbody protection and sealing compounds

RED CERAMIC QUICK STRIP DISCS



Extremely fast cleaning and maximum service life when removing welding seams, scale corrosion and coatings.



Compatible with 3M Roloc™ System

Features:

- Ceramic grain

Advantages:

- High rate of material removal
- Long life due to self-sharpening grain
- Discs do not clog when sanding coatings, adhesives or soft metals

Applications:

- Cleaning and finishing welding seams, metal surfaces and plastics
- Cleaning vehicle underbodies and other body work
- Removing scale, corrosion, dirt and oxide layers, coatings, paints and dyes, old brushed-on coatings, synthetic resins, adhesives, gasket residues, cement and concrete residues.
- Materials to be processed: steel, stainless steel, aluminum, cast iron, fibreglass and composite materials.

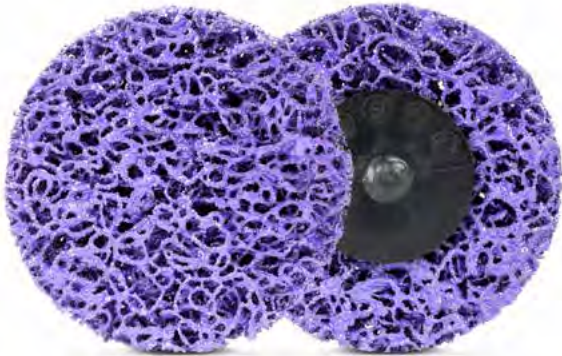
Diameter	Max. RPM	Art. No.	P. Qty
2"	13,000	673.22250	10
3"	11,000	673.22275	



For use on **Angle Grinder**

Diameter	Max. RPM	Art. No.	P. Qty
4-1/2"	12,000	585.333115	10
5"	12,000	585.333125	

PURPLE PRO QUICK STRIP DISCS



Compatible with 3M Roloc™ System

Features:

- Premium coarse silicon carbide grain

Advantages:

- Safer, faster and smoother finish than steel wire wheels and other silicon carbide discs
- More durable than the leading competitor brands, resulting in longer life of disc

Applications:

- Removal of rust, paint, bead sealer, seam sealer, body filler and vehicle undercoating
- Metal cleaning, stripping and surface preparation

Diameter	Max. RPM	Art. No.	P. Qty.
2"	18,000	585.4160	10
3"	7800	585.4161	
4"	6000	585.4162	5



For use on **Angle Grinder**

Diameter	Max RPM	Art. No.	P. Qty.
4-1/2"	11,000	585.222115	5
5"	9,800	585.222125	

BLUE QUICK STRIP DISCS - TYPE 'R'



Compatible with 3M Roloc™ System

- Effective removal of rust, paint, graffiti, undercoating and metal cleaning prior to welding
- Safer and faster than steel wire wheels (Resists loading, even on soft material)
- Contains a coarse silicon carbide grain that promotes rapid removal of surface contaminants and leaves a smooth finish
- It is important that the disc be run flat and not at an angle

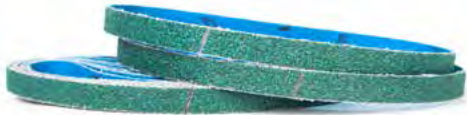
Safety Notes:

- Great care must be taken to operate at or below the listed RPM

Diameter	Max. RPM	Art. No.	P. Qty
2"	12,000	585.2160	10
3"	8,500	585.2161	5
4" x 1/4"	6,000	585.2162*	2
1/4" Arbor for Art. No. 585.2162		585.11002	1

* Item is not compatible with 3M Roloc™ System

CERAMIC FILE BELTS



Ceramic grain with cooling properties provides excellent stock removal extending the life of the belt.

Features:

- Ceramic grain
- Polyester backing
- Closed coating

Advantages:

- Excellent stock removal
- Long life due to self-sharpening grain
- Cool grinding performance

Applications:

- Spot weld removal and clean up
- Wet and dry grinding
- Steel, stainless steel, and heat sensitive alloys

Width	Length	Grit	Art. No.	P. Qty
1/2"	18"	36	672.419003	10
		80	672.419008	

SPEED-X NON-WOVEN BELTS



* Tool not included

Versatile non-woven belt suitable for the clean-up of spot welds, paint and rust in tight working areas

Features:

- Aluminum oxide grain
- Polyester backing available in sturdy or flexible

Advantages:

- Narrow belt allows access to hard-to-reach locations
- Suitable for dry and wet grinding
- High cut rate, reduced loading and low heat retention
- Long life

Applications:

- Steel, stainless steel, aluminum alloys, brass, bronze, plastic, nickel and titanium
- Removal of paint, seam sealer and adhesives
- Spot weld clean up
- Rust removal on sheet metal and vehicle brake component cleaning
- Surface conditioning and finishing
- Bumper repairs
- Gasket removal

Image	Width	Length	Type	Backing	Art. No.	P. Qty
A	1/2"	18"	Extra Coarse	Polyester Sturdy	585.716101	10
B			Coarse	Polyester Flexible	585.716100	

DECAL RESIDUE REMOVERS



Decal Residue Remover

For removing remains of adhesive and tapes from metal surfaces

Safety:

- Only use with slow running machines (**max. 2000 RPM**)
- Before first application roughen the edges of eraser (i.e on the clean edges of a work bench)

Observe running direction

- Opposite working direction
- Do not work on one place for too long, overheating may affect metal and paint. Wear protective goggles, ear plugs and gloves for personal safety when working (**Prefix 899**)

Pre Tests:

- On application on water-based paints there might be changes of the colours. Pre tests on invisible places are recommended.

Outside Diameter = 3 1/2"

Thickness = 5/8"

Description	Art. No.	P. Qty
Decal residue remover	585.90	1 pair
Decal residue remover - Metal arbor	585.93	

WIRE BRUSHES



Wire Bench Wheel

- Unique, flexible bristle pattern conforms to most shapes and profiles
- Designed to remove oxidation, adhesive, paint and various other coatings
- Excellent for wider surfaces where flexibility is required for preparing surfaces prior to welding
- High cut rate provides a clean, uniform finish
- Can be mounted in multiples

Diameter	Length	Material	Arbor Hole	Wire Size	RPM	Art. No.	P. Qty
8"	1-3/4"	Steel	1-1/4" Inc. 5/8" Adpt.	.020	4,500	714.6800	1



Wire Bench Wheel

- Unique, flexible bristle pattern conforms to most shapes and profiles
- Designed to remove oxidation, adhesive, paint and various other coatings
- Excellent for preparing surfaces prior to welding
- High cut rate provides a clean, uniform finish

Diameter	Length	Material	Arbor Hole	Wire Size	RPM	Art. No.	P. Qty
6"	1-3/4"	Steel	5/8-11 NC	.020	6,000	714.6900	1



Knot Wire Wheel Brush

- Surfaces preparation, cleaning grooves, T-connections and welded beads

Diameter	Length	Material	Arbor Hole	Wire Size	RPM	Art. No.	P. Qty
4"	7/8"	Steel	5/8-11 NC	.014	20,000	714.26359	1
		Stainless		.014 SS		714.26376	
		Steel		.020		714.26392	
		Stainless		.020 SS		714.26386	
5"	1"	Steel		.020	12,000	714.26256	

WIRE BRUSHES



Stringer Bead Wheel Brush

- Excellent for bead scale removal
- The small width of this brush allows it to be used in recessed areas such as welding junctions in pipeline fabrication

Diameter	Length	Material	Arbor Hole	Wire Size	RPM	Art. No.	P. Qty						
4"	7/8"	Steel	5/8-11 NC	.020	20,000	714.26369	1						
		Stainless				714.26399							
5"	1"	Steel			5/8-11 NC	.020		12,000	714.26495	1			
		Stainless							714.26468				
6"	1-1/2"	Steel						5/8-11 NC	.020		12,000	714.26032	1
		Stainless										714.26112	



Safety Long Life Wire Brush (Mule Skinner)

- Ideal for the preliminary cleaning of metals which are intended to be painted or coated
- For the removal of slag, rust and paint
- High level of safety and long service life
- Even removal of material

Diameter	Material	Arbor Hole	Wire Size	RPM	Art. No.	P. Qty
60 mm	Corrugated Steel Wire, Brass Coated, bound in Plastic	13 mm	0.3 mm	12,500	714.6907	1



Arbor for Mule Skinner Art. No. 714.6908

- For Safety Longlife Brush



Wire Brush with Shank

- Oil hardened cast steel wire
- Right braided
- For removal of rust, paint, scale, welding residue and underbody seal

Diameter	Material	Wire Size	RPM	Art. No.	P. Qty
3"	Braided Steel	.05 mm	20,000	714.6906	1



Wire Brush with Shank

- For light duty deburring and rust removal work
- Particularly well suited for automotive applications, cleaning of weldings

Diameter	Material	Wire Size	RPM	Art. No.	P. Qty
1 1/2"	Steel Wire, Corrugated	0.2 mm	18,000	714.6910	1
2 3/8"		0.3 mm	15,000	714.6911	



Surface Brush with Shank

- For grinding of large surfaces.

Diameter	Shank	Material	Wire Size	RPM	Art. No.	P. Qty
60 mm	6 mm	Crimped Steel	0.3 mm	4,500	714.6912	2
70 mm					714.6913	

WIRE BRUSHES



Knot Wire cup brush

- For heavy-duty cleaning of large metal surfaces and specially designed for use on portable tools

Diameter	Length	Material	Arbor Hole	Wire Size	RPM	Art. No.	P. Qty
6"	1-3/4"	Steel	5/8-11"	.020	6,000	714.33015	1



Knot Style cup brush

- High speed small grinder knot wire cup brush

Diameter	Length	Material	Arbor Hole	Wire Size	RPM	Art. No.	P. Qty
2-3/4"	7/8"	Stainless Steel	5/8-11"	.020	14,000	714.33467	1
3-1/2"		Steel			12,500	714.33000	
		Stainless Steel			12,500	714.33001	



Braided Steel Wire Pot Brush

- Ideal for the preliminary cleaning of metals
- For the removal of slag, rust and paint

Diameter	Thread	Wire Size	RPM	Art. No.	P. Qty
70 mm	M14	0.5 mm	12,500	714.6901	1
2-3/4"	5/8-11"			714.6958	



Knot Wire End Brushes - Steel

- Spot cleaning or facing; removal of slag, rust or scale; cleaning pipe inner diameter; deburring or flash removal; cleaning dies, molds and tooling; pipeline cleaning. Can be used on CNC equipment.

Diameter	Length	Shaft Diameter	Wire Size	RPM	Art. No.	P. Qty
1/2"	1-1/8"	1/4"	0.006	22,000	714.30002	1
			0.014		714.30005	
3/4"			0.006	20,000	714.30008	
			0.014		714.30011	
1"			0.104	714.30016		
			0.014	714.30017		



Knot Wire End Brushes - Stainless Steel

- Spot cleaning or facing; removal of slag, rust or scale; cleaning pipe inner diameter; deburring or flash removal; cleaning dies, molds and tooling; pipeline cleaning.

Diameter	Length	Shaft Diameter	Wire Size	RPM	Art. No.	P. Qty
1/2"	1-1/8"	1/4"	.014	22,000	714.30429	1
3/4"				714.30435		
1"	1"	714.30441				

HAND WIRE BRUSHES



Hand Brush
Art. No. 697.4

- Made of 4 rows of 0.35 mm plain steel wire
- 1 per Package



Small Clean Brush

- Ideal for the cleaning of metals in hard to reach places
- For the removal of slag, rust and paint
- Plastic handle

Brush Width	Length	Material	Art. No.	P. Qty
3/8"	7-1/4"	Stainless Steel Wire	714.83111	2
		Brass Wire	714.83112	



Acid/Flux Brush Horsehair

For cleaning inside and outside diameters of tubes and fittings.

Size	Art. No.	P. Qty
3/8"	714.74060	4
9/16"	714.74062	

FLEXIBLE EXTENSIONS AND 1/4" DRIVE HANDLE FOR BORE BRUSHES



Art. No. 715.0105

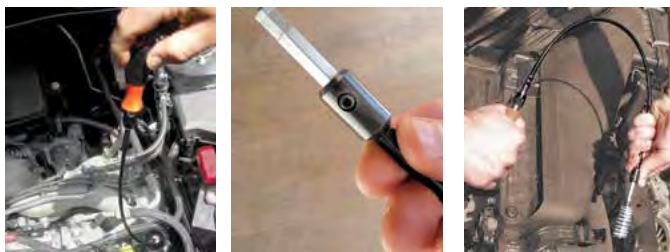
The 1/4" drive handle combined with flexible extensions, give easy access for hard to reach places, all in one deluxe kit.

Features:

- 1/4" Driver with quick lock adapter
- Quick-locking/disconnect
- 1/4" female hex drive
- Non-slip grip handle
- Compact design
- The 1/4" female coupler uses a set screw to prevent a brush or similar type tool from slipping
- Perfect for accessing hard to reach transmission valve bodies, oil galleries and EGR ports

Set Includes:

- 3 flexible extensions (6", 12" and 18")
- 1/4" drive handle



PROFESSIONAL BORE BRUSH SET - 36 PIECES



Quick Release Driver with Ergonomic Handle

Art. No. 715.010

This 36 piece bore brush set is designed for the professional technician who needs the right tool for the job.

Twisted wires for increased cleaning function.

Applications:

Clean bushings, ports, tubes, holes, channels, sockets, brake guides and other general wire brush applications.

The kit includes:

- 36 brushes: 12 Stainless Steel, 12 Brass and 12 Nylon (8 mm - 19 mm with 1/4" He Shank)
- 1/4" Head Driver with locking bit
- 12" flexible extension

Used in:

- Automotive
- Industrial
- MRO Industries
- Detailing
- Agriculture

WIRE BRUSH ASSORTMENT - 6 PIECES



Durable, abrasive, 6-piece bore brush set features the most common sizes for cleaning tubes, ports, bearings and other general wire brush applications.

Features:

- Durable abrasive bore brushes
- 6 piece set (8,10,12,15,17 and 19mm sizes) 1/4" Hex shank
- Use on ports, tubes, bearings and other common wire brush applications
- Do not exceed 600 rpm

Applications:

Stainless steel

- Stainless steel twisted wire gives it extra strength to increase cleaning action.
- Perfect to clean steel parts (like EGR valve ports)

Brass

- These brushes are designed to clean aluminum parts

Nylon

- These brushes are designed to clean sensitive parts, plastic parts, and are also perfect for the detailing industry

Description	Art. No.
Stainless Steel Wire Brush Assortment - 6 pcs.	715.0101
Brass Wire Brush Assortment - 6 pcs.	715.0102
Nylon Wire Brush Assortment - 6 pcs.	715.0103

BRISTLE TYPE DISC



Applications:

- Head gaskets/gasket removal, rust removal, adhesive & paint removal, surface preparation

Abrasive disc designed to fit the Type 'R' Mandrel. The bristles (which are impregnated with ceramic grit) eat up rust, adhesive or paint residue, leaving a smooth surface with no marks. The open design prevents clogging and fragment fly-off during work.

Description	Diameter (in.)	Grit	Art. No.	P. Qty
Green Coarse	1"	50	585.5110	2
Yellow Medium		80	585.5120	
White Fine		120	585.5130	
Green Coarse	2"	50	585.5210	1
Yellow Medium		80	585.5220	
White Fine		120	585.5230	
Green Coarse	3"	50	585.5310	1
Yellow Medium		80	585.5320	
White Fine		120	585.5330	

SPOT SANDING PEN WITH GLASS FIBERS

Art. No. 715.18335



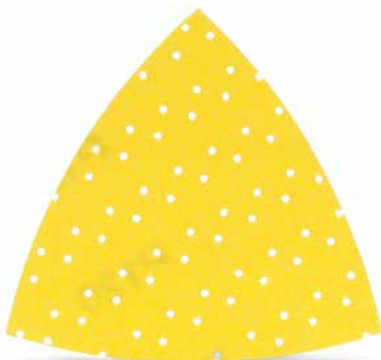
Features:

- Can thoroughly clean rust, dirt or wax from any tight corner, crevice or hard to reach spot with 20,000 glass fibres in a pen point
- Fibres are finer than human hair yet stronger than steel when it comes to cleaning power

Characteristics:

- Sand paper can be too rigid to directly contact and clean the contours of inside edges, thus conventional sanding only cleans the high spots. The Würth spot sanding pen is designed with glass fibres that can be extended out (by turning) to ensure even the smallest recesses get cleaned.

MULTI-SURFACE SANDPAPER TRIANGLE



Dry sanding of edges, rims and flat areas of veneers and solid wood.

Wood sanding

- Aluminum oxide
- Hook & loop
- Dry sanding
- Uniform finish without scratching
- Aggressive initial and long-term sanding
- Long service life

Applications:

- Treated and untreated hardwood and softwood, fillers, plastics, plasterboards, paints, hard and soft paint systems and mineral materials (artificial stone)

Dimensions (mm)	Grain	Art. No.	P. Qty
90 x 90 x 90	40	581.22040	25
	60	581.22060	
	80	581.22080	
	100	581.220100	
	120	581.220120	
	150	581.220150	
	180	581.220180	
	220	581.220220	
	240	581.220240	

ARIZONA PERFECT SANDPAPER



For paint repair work requiring fine sanding. Fast, convenient sanding of hard-to-reach areas, edges and curves.

1 package = 200 hand pads

Fast, flexible and safe:

- Highly flexible finishing paper on foam backing
- Fits tight spaces, curvatures and recesses
- Smooth, clean finish

Technical Specifications	
Carrier Material	Highly flexible finishing paper on foam
Bond	Synthetic Resin
Coating	Stearate Coating
Abrasive Grain	Aluminum Oxide
Scattering	Half Open
Colour	Sand Yellow
Form	Perforated Rolls

Grit	Width x Length	Art. No.	P. Qty.
240	115mm x 25m	5506.442124	1
400		5506.442140	
600		5506.442160	
800		5506.442180	
1000		5506.442111	

EMERALD FILM SANDING DISC



Emerald Film is a film backed sanding disc coated with premium aluminum oxide for superior performance with extended service life by reducing problems with tearing (available in Hook and Loop and PSA)

Features:

- Film-backing instead of standard paper-backing
- Superb moisture resistance, flexibility, and ruggedness
- Heat-treated aluminum oxide ensuring outstanding performance
- Open-grain design to reduce heat and clogging (loading up)

- 100% waterproof – perfect for wet or dry sanding applications
- Film-backing outlasts paper resulting in less disc usage

Applications:

- Automotive, wood, metal, marine, aerospace

Technical Specifications	
Grain	Premium Aluminum Oxide
Backing	Polyester Film
Bond	Phenolic Resin
Coating	Open Coat

Sizes	Hole Pattern	Attachment Type	Grit	Art. No.	P. Qty.
5"	No Hole	PSA	80	8506.342208	100
			100	8506.342210	
			120	8506.342212	
			150	8506.342215	
			180	8506.342218	
			220	8506.342222	
			240	8506.342224	
			280	8506.342228	
6"	No Hole	PSA	80	8506.343208	100
			100	8506.343210	
			120	8506.343212	
			150	8506.343215	
			180	8506.343218	
			220	8506.343222	
			240	8506.343224	
			280	8506.343228	
			320	8506.343232	

Sizes	Hole Pattern	Attachment Type	Grit	Art. No.	P. Qty.
5"	No Hole	Hook & Loop	80	8506.342008	100
			100	8506.342010	
			120	8506.342012	
			150	8506.342015	
			180	8506.342018	
			220	8506.342022	
			240	8506.342024	
			280	8506.342028	
6"	No Hole	Hook & Loop	80	8506.343008	100
			100	8506.343010	
			120	8506.343012	
			150	8506.343015	
			180	8506.343018	
			220	8506.343022	
			240	8506.343024	
			280	8506.343028	
			320	8506.343032	

RAZER GOLD DISCS - HOOK & LOOP

5" No Hole Hook & Loop



Grit	Art No.	P. Qty
40	562.540	50
60	562.560	
80	562.580	100
100	562.5100	
120	562.5120	
150	562.5150	
180	562.5180	
220	562.5220	
280	562.5280	
320	562.5320	
400	562.5400	
600	562.5600	
800	562.5800	
800	562.5800SC*†	
1200	562.51200*†	
1500	562.51500*†	
3000	562.53000*†	

6" No Hole Hook & Loop



Grit	Art No.	P. Qty
40	564.640	50
60	564.660	
80	564.680	100
100	564.6100	
120	564.6120	
150	564.6150	
180	564.6180	
220	564.6220	
240	564.6240	
320	564.6320	
400	564.6400	
600	564.6600	
800	564.6800	
800	564.6800SC*†	
1200	564.61200†	
1500	564.61500†	
3000	564.63000†	

5" 5 Hole Hook & Loop



Grit	Art No.	P. Qty
40	562.5..540	50
60	562.5..560	
80	562.5..580	100
100	562.5..5100	
120	562.5..5120	
150	562.5..5150	
180	562.5..5180	
220	562.5..5220	
280	562.5..5280	
320	562.5..5320	
400	562.5..5400	
600	562.5..5600	
800	562.5..5800	
800	562.5..5800SC*†	
1200	562.5..51200*†	

6" 6 Hole Hook & Loop



Grit	Art No.	P. Qty
40	564.6..640	50
60	564.6..660	
80	564.6..680	100
100	564.6..6100	
120	564.6..6120	
150	564.6..6150	
180	564.6..6180	
220	564.6..6220	
320	564.6..6320	
400	564.6..6400	
600	564.6..6600	
800	564.6..6800	
800	564.6..6800SC*†	
1200	564.6..61200*†	

5" 8 Hole Hook & Loop



Grit	Art No.	P. Qty
40	562.8..540	50
60	562.8..560	
80	562.8..580	100
100	562.8..5100	
120	562.8..5120	
150	562.8..5150	
180	562.8..5180	
220	562.8..5220	
280	562.8..5280*	
320	562.8..5320	
400	562.8..5400	
600	562.8..5600*	
800	562.8..5800	
800	562.8..5800SC*†	
1200	562.8..51200*†	

6" 8 Hole Hook & Loop



Grit	Art No.	P. Qty
40	564.8..640*	50
60	564.8..660*	
80	564.8..680*	100
100	564.8..6100*	
120	564.8..6120*	
150	564.8..6150*	
180	564.8..6180*	
220	564.8..6220*	
320	564.8..6320*	
400	564.8..6400	
600	564.8..6600	
800	564.8..6800*	
1200	564.8..61200*†	

* Available OnDemand

† Silicon Carbide grain (colour will be grey/blue) Ideal for wet sanding.

RAZER GOLD DISCS - PSA

5" No Hole PSA



Grit	Art No.	P. Qty
40	563.540	50
60	563.560	100
80	563.580	
100	563.5100	
120	563.5120	
150	563.5150	
180	563.5180	
220	563.5220	
240	563.5240	
280	563.5280	
320	563.5320	
400	563.5400	
600	563.5600	
800	563.5800	
800	563.5800SC*†	
1200	563.51200*†	
1500	563.51500*†	
3000	563.53000*†	

6" No Hole PSA



Grit	Art No.	P. Qty
40	565.640	50
60	565.660	100
80	565.680	
100	565.6100	
120	565.6120	
150	565.6150	
180	565.6180	
220	565.6220	
240	565.6240	
320	565.6320	
400	565.6400	
600	565.6600	
800	565.6800	
800	565.6800SC*†	
1200	565.61200*†	
1500	565.61500*†	
3000	565.63000*†	

5" 5 Hole PSA



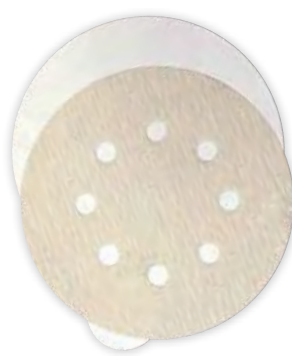
Grit	Art No.	P. Qty
40	563.5..540*	50
80	563.5..580*	100
100	563.5..5100*	
120	563.5..5120*	
150	563.5..5150*	
180	563.5..5180*	
220	563.5..5220*	
280	563.5..5280*	
320	563.5..5320*	
400	563.5..5400*	
500	563.5..5500*	
600	563.5..5600*	
800	563.5..5800*	
800	563.5..5800SC*†	
1200	563.5..51200*†	

6" 6 Hole PSA



Grit	Art No.	P. Qty
40	565.6..640	50
60	565.6..660*	100
80	565.6..680*	
100	565.6..6100*	
120	565.6..6120*	
150	565.6..6150*	
180	565.6..6180*	
220	565.6..6220*	
280	565.6..6280*	
320	565.6..6320*	
400	565.6..6400*	
600	565.6..6600*	
800	565.6..6800*	
800	565.6..6800SC*†	
1200	565.6..61200*†	

5" 8 Hole PSA



Grit	Art No.	P. Qty
40	563.8..540*	50
60	563.8..560*	100
80	563.8..580*	
100	563.8..5100*	
120	563.8..5120*	
150	563.8..5150*	
180	563.8..5180*	
220	563.8..5220*	
280	563.8..5280*	
320	563.8..5320*	
400	563.8..5400*	
600	563.8..5600*	
800	563.8..5800*	
800	563.8..5800SC*†	
1200	563.8..51200*†	

6" 8 Hole PSA



Grit	Art No.	P. Qty
40	565.8..640*	50
60	565.8..660*	100
80	565.8..680*	
100	565.8..6100*	
120	565.8..6120*	
150	565.8..6150*	
180	565.8..6180*	
220	565.8..6220*	
280	565.8..6280*	
320	565.8..6320*	
400	565.8..6400*	
600	565.8..6600*	
800	565.8..6800*	
1200	565.8..61200*†	

* Available OnDemand

† Silicon Carbide grain (colour will be grey/blue) Ideal for wet sanding.

RAZER GOLD SHEETS

9" x 11" Sheets



Aluminum Oxide

Grit	Art No.	P. Qty
40	566.911.40	25
60	566.911.60	
80	566.911.80	
100	566.911.100	
120	566.911.120	
150	566.911.150	
180	566.911.180	
220	566.911.220	
240	566.911.240	
320	566.911.320	
400	566.911.400	
600	566.911.600	
1500	566.911.1500	
2000	566.911.2000*	
2500	566.911.2500*	

Wet/Dry Silicon Carbide

Grit	Art No.	P. Qty
220	566.W911.220*	25
1200	566.W911.1200	
1500	566.W911.1500*	
3000	566.W911.3000	

Applications:

Shaping and finishing, dry paint sanding, between colour-coat sanding, primer, deburring, removing scratches, feather edging.

* Available by Special Order

† Silicon Carbide grain (colour will be grey/blue) Ideal for wet sanding.

RAZER GOLD SPEEDFILE

Speedfile Sheets



16" X 3" Hook & Loop

Grit	Art No.	P. Qty
40	567.1640	50
60	567.1660	
80	567.1680	
100	567.16100	
120	567.16120	
150	567.16150	
180	567.16180	
220	567.16220	
240	567.16240	
280	567.16280	
320	567.16320	
400	567.16400	
600	567.16600	

17-1/4" X 3-3/4" Plain Backing

Grit	Art No.	P. Qty
40	567.1740	50
60	567.1760	
80	567.1780	
100	567.17100	
120	567.17120	
180	567.17180	
320	567.17320	
600	567.17600	

Applications:

Shaping and finishing, dry paint sanding, primer sanding, deburring, removing scratches, feather edging.

RAZER GOLD SANDPAPER - BACKING PADS



Description	Attachment	Firmness	Art No.
5" No Hole	Hook & Loop	HARD	586.5.VH
		MED/SOFT	586.5.VMS
	PSA	HARD	586.5.PH
		MED/SOFT	586.5.PMS
5" 5 Hole	Hook & Loop	HARD	586.55.VH*
		MED/SOFT	586.55.VMS*
	PSA	HARD	586.55.PH*
		MED/SOFT	586.55.PMS*
5" 8 Hole	Hook & Loop	HARD	586.58.VH*
	PSA	HARD	586.58.PH*
6" No Hole	Hook & Loop	HARD	586.6.VH
		MED/SOFT	586.6.VMS
	PSA	HARD	586.6.PH
		MED/SOFT	586.6.PMS
6" 6 Hole	Hook & Loop	HARD	586.66.VH
		MED/SOFT	586.66.VMS
	PSA	HARD	586.66.PH*
6" 8 Hole	Hook & Loop	HARD	586.68.VH*
		MED/SOFT	586.68.VMS*
	PSA	HARD	586.68.PH*
		MED/SOFT	586.68.PMS*

* Available OnDemand

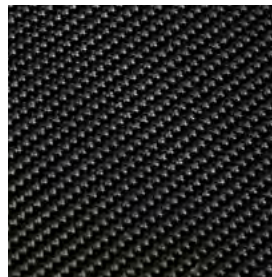
Recommended:

6" Heavy Duty Orbital Sander **Art. No. 703.307**

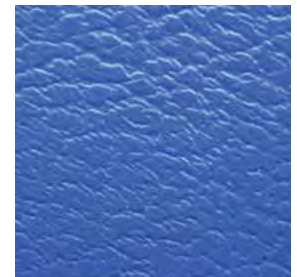


Made of professional grade molded urethane, Razer Gold backing pads are the ideal size, weight, and balance, ensuring unbeatable performance every time. While most brands use a 3-stud rivet system, Würth Razer Gold Backing Pads feature a 4-stud assembly for superior strength and balance.

Composed of industry leading thermal fibreglass, these pads resist heat, flexing, impact and overall sanding abuse. Our PSA backing is one of the heaviest and most durable on the market, while the hook and loop system of our Velour style pads is top rated when it comes to strength and melting point.

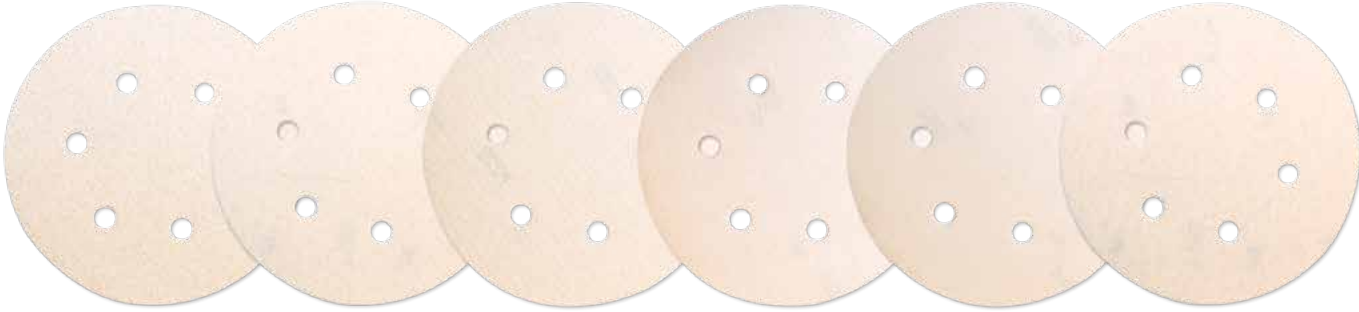


Hook & Loop



PSA

RAZER GOLD SAMPLE KITS



5" No Hole Hook & Loop

Art. No. 562.KIT5NHV*

Contents:

Grit	Art No.	P. Qty
80	562.580	20
120	562.5120	
220	562.5220	
320	562.5320	
400	562.5400	
600	562.5600	

5" No Hole PSA

Art. No. 563.KIT5NHP*

Contents:

Grit	Art No.	P. Qty
80	563.580	20
120	563.5120	
220	563.5220	
320	563.5320	
400	563.5400	
600	563.5600	

5" 5 Hole Hook & Loop

Art. No. 562.KIT55HV*

Contents:

Grit	Art No.	P. Qty
80	562.5..580	20
120	562.5..5120	
220	562.5..5220	
320	562.5..5320	
400	562.5..5400	
600	562.5..5600	

5" 5 Hole PSA

Art. No. 563.KIT55HP*

Contents:

Grit	Art No.	P. Qty
80	563.5..580	20
120	563.5..5120	
220	563.5..5220	
320	563.5..5320	
400	563.5..5400	
600	563.5..5600	

6" No Hole PSA

Art. No. 565.KIT6NHP*

Contents:

Grit	Art No.	P. Qty
80	565.680	20
120	565.6120	
220	565.6220	
320	565.6320	
400	565.6400	
600	565.6600	

6" 6 Hole Hook & Loop

Art. No. 564.KIT66HV*

Contents:

Grit	Art No.	P. Qty
80	564.6..680	20
120	564.6..6120	
220	564.6..6220	
320	564.6..6320	
400	564.6..6400	
600	564.6..6600	

6" 6 Hole PSA

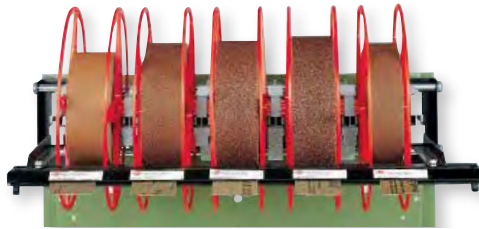
Art. No. 565.KIT66HP*

Contents:

Grit	Art No.	P. Qty
80	565.6..680	20
120	565.6..6120	
220	565.6..6220	
320	565.6..6320	
400	565.6..6400	
600	565.6..6600	

* Available OnDemand

ORSY 10 EMERY CLOTH



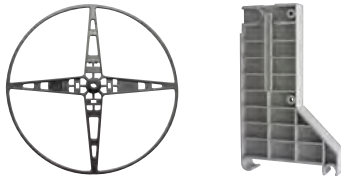
- Grits meet international FEPA standards
- The high-grade corundum (exceptionally pure aluminum oxide) is blended with tough bauxite emery
- Special high quality glue guarantees maximum grain adhesion
- The backing strip is made from tear resistant long fibre cotton
- Ideal for grinding and polishing work

Grit	Width		Length (metres)	Art. No.	P. Qty.
	mm	inch			
40	30	1-1/4"	19	674.93040	1 Roll
50	30	2"	20	674.93050	
	50	2"		674.95050	
80	30	1-1/4"	25	674.93080	
	40	1-1/2"		674.94080	
	50	2"		674.95080	
120	30	1-1/4"	28	674.930120	
	50	2"		674.950120	
180	50	1-1/4"	28	674.950180	
	30	1-1/4"		674.930180	
320	50	2"		674.950320	
400	50	2"		674.950400	

Recommended:

Empty Dispenser **Art. No. 956.1090**

REPLACEMENT PARTS FOR ORSY 10 EMERY CLOTH REEL SYSTEM



Description	Art. No.	P. Qty
Replacement Star Small	956.10901	1
Replacement Star Large	956.10902	
Replacement Coil Holder	956.10903	

EMERY PAPER - 9" X 11"



Features:

- Natural emery abrasive
- Flexible cotton backing allows for easy manipulation of shapes and contours

Applications:

Used for removing light burrs and cleaning and polishing metals. May be used dry or with oil.

Description	Grit	Art. No.	P. Qty
Coarse	80	570.10887	50
Medium	120	570.10886	
Fine	180	570.10885	

STANDARD ABRASIVE ASSORTMENT



Art. No. 965.585100 - 61 pcs.

Art. No.	Description	Qty.
578.607660	MINI FLAP DISC, ZIRCONIA - TYPE R - 3" 60G	2
585.2210	MINI RESIN FIBRE DISC, ZEE SUPREME - TYPE R - 2" 24G	5
585.41	TYPE R DISC HOLDER/MANDREL - 2"	1
585.4161	QUICK STRIP PURPLE PRO - TYPE R - 3"	2
585.4209	SURFACE CONDITIONING DISC - TYPE R - 2" EXTRA COARSE	5
585.4210	SURFACE CONDITIONING DISC - TYPE R - 2" COARSE	10
585.4211	SURFACE CONDITIONING DISC - TYPE R - 2" MEDIUM	5
585.4230	SURFACE CONDITIONING DISC - TYPE R - 2" FINE	5
585.43	TYPE R DISC HOLDER/MANDREL - 3"	1
585.4320	SURFACE CONDITIONING DISC - TYPE R - 3" MEDIUM	5
585.598422	Q-CHANGE POWER ZIRCONIA DISC - TYPE R - 2" 36G	5
585.6336	MINI RESIN FIBRE DISC, A/O - TYPE R - 3" 36G	5
585.7225	MINI RESIN FIBRE DISC, CERAMIC - TYPE R - 2" 50G	5
672.010318	FAN GRIND WHEEL A/O - 30MM x 1.5MM x 6MM 80G	5

PREMIUM ABRASIVE ASSORTMENT



Art. No. 965.585200 - 85 pcs.

Art. No.	Description	Qty.
585.2161	BLUE QUICK STRIP DISC - TYPE R - 3"	10
585.2225	MINI RESIN FIBRE DISC, ZEE SUPREME - TYPE R - 2" 50G	5
585.320	NYLON FLEECE WHEEL WITH SHANK - 2-1/2"	1
585.3315	MINI RESIN FIBRE DISC, ALUMAX - TYPE R - 3" 36G	5
585.41	TYPE R DISC HOLDER/MANDREL - 2"	1
585.4160	QUICK STRIP PURPLE PRO - TYPE R - 2"	2
585.4209	SURFACE CONDITIONING DISC - TYPE R - 2" EXTRA COARSE	5
585.4211	SURFACE CONDITIONING DISC - TYPE R - 2" MEDIUM	5
585.43	TYPE R DISC HOLDER/MANDREL - 3"	1
585.598422	Q-CHANGE POWER ZIRCONIA DISC - TYPE R - 2" 36G	5
585.598528	Q-CHANGE POWER ZIRCONIA DISC - TYPE R - 3" 120G	5
585.6224	MINI RESIN FIBRE DISC, A/O - TYPE R - 2" 24G	5
585.7235	MINI RESIN FIBRE DISC, CERAMIC - TYPE R - 2" 80G	5
585.936	TRIM-CUT GRINDING DISC, A/O - 3" 36G	5
585.94320	TRIM-CUT SURFACE CONDITIONING DISC - 3" MEDIUM	5
588.032	CARTRIDGE ROLL, A/O - 3/8" x 1-1/2" x 1/8" 80G	5
588.200	MANDREL FOR CARTRIDGE ROLL - D 1/8" x L 4"	1
672.010316	FAN GRIND WHEEL A/O - 30MM x 1.5MM x 6MM, 60G	5
673.22275	RED CERAMIC QUICK STRIP DISC - 3"	5
715.5859	1/4" MANDREL FOR TRIM-CUT DISC	2

ABRASIVE STARTER ASSORTMENT



Art. No. 965.585600 - 133 pcs.

Art. No.	Description	Qty.
585.2160	BLUE QUICK STRIP DISC - TYPE R - 2"	10
585.41	TYPE R DISC HOLDER/MANDREL - 2"	1
585.4210	SURFACE CONDITIONING DISC - TYPE R - 2" COARSE	50
585.6236	mini resin fibre disc, A/O - type r - 2" 36 grit	50
588.031	CARTRIDGE ROLL A/O - 3/8" X 1-1/2" X 1/8" - 60 GRIT	5
670.7515	CUT OFF DISC, A/O - 3" x 1/16" x 3/8"	10
672.010316	FAN GRIND WHEEL, A/O - 30MM x 1.5MM x 6MM, 60 GRIT	5
714.30016	1" KNOTTED END BRUSH - 0.01 WIRE	2

2" SUPREME ABRASIVE ASSORTMENT



Art. No. 965.585500 - 100 pcs.

Art. No.	Description	Qty.
585.2215	MINI RESIN FIBRE DISC, ZEE SUPREME - TYPE R - 2" 36 GRIT	25
585.2230	MINI RESIN FIBRE DISC, ZEE SUPREME - TYPE R - 2" 60 GRIT	
585.598422	Q-CHANGE POWER ZIRCONIA DISC - TYPE R - 2" 36 GRIT	
585.598425	q-change power zirconia disc - type R - 2" 60 GRIT	

2" CARGO ABRASIVE ASSORTMENT



Art. No. 965.585300 - 200 pcs.

Art. No.	Description	Qty.
585.4210	SURFACE CONDITIONING DISC - TYPE R - 2" COARSE	50
585.4211	SURFACE CONDITIONING DISC - TYPE R - 2" MEDIUM	
585.6224	MINI RESIN FIBRE DISC, A/O - TYPE R - 2" 24 GRIT	
585.6236	MINI RESIN FIBRE DISC, A/O - TYPE R - 2" 36 GRIT	

3" CARGO ABRASIVE ASSORTMENT



Art. No. 965.585400 - 100 pcs.

Art. No.	Description	Qty.
585.4310	SURFACE CONDITIONING DISC - TYPE R - 3" COARSE	25
585.4320	Surface conditioning disc - type R - 3" Medium	
585.6324	MINI RESIN FIBRE DISC, A/O - TYPE R - 3" 24 GRIT	
585.6336	MINI RESIN FIBRE DISC, A/O - TYPE R - 3" 36 GRIT	

MINI ABRASIVE ASSORTMENT



Art. No. 965.5850

Description	Qty	Art. No.
Surface Conditioning Disc Type R 2" extra coarse	10	585.4209
Surface Conditioning Disc Type R 2" coarse		585.4210
Surface Conditioning Disc Type R 2" medium		585.4211
Surface Conditioning Disc Type R 2" fine		585.4230
Surface Conditioning Disc Type R 3" coarse		585.4310
Surface Conditioning Disc Type R 3" medium		585.4320
A/O Type R Mini Resin Fibre Disc 2" 24 g		585.6224
A/O Type R Mini Resin Fibre Disc 2" 36 g		585.6236
A/O Type R Mini Resin Fibre Disc 2" 50 g		585.6250
A/O Type R Mini Resin Fibre Disc 2" 120 g		585.62120
A/O Type R Mini Resin Fibre Disc 3" 24 g		585.6324
A/O Type R Mini Resin Fibre Disc 3" 36 g		585.6336
A/O Type R Mini Resin Fibre Disc 3" 50 g		585.6350
A/O Type R Mini Resin Fibre Disc 3" 120 g		585.6399
Fan Grind Wheel 40 x 20 (80 grit)		1
Fan Grind Wheel 40 x 20 (60 grit)	672.010426	
Cut Off Wheel 3 1/8" x 1/16"	670.7515	
Type R Mandrel 2"	1	585.41
Type R Mandrel 3"		585.43

AUTOMOTIVE ABRASIVE ASSORTMENT



Art. No. 965.588 - 150 pcs

Comes with a 1/4" Medium Die Grinder

Description	Qty	Art. No.
Surface Conditioning Disc Type R 2" extra coarse	5	585.4209
Surface Conditioning Disc Type R 2" coarse		585.4210
Surface Conditioning Disc Type R 2" medium		585.4211
Surface Conditioning Disc Type R 2" fine		585.4230
Surface Conditioning Disc Type R 3" coarse		585.4310
Surface Conditioning Disc Type R 3" medium		585.4320
A/O Type R Mini Resin Fibre Disc 2", 24 g		585.6224
A/O Type R Mini Resin Fibre Disc 2", 36 g		585.6236
A/O Type R Mini Resin Fibre Disc 2", 50 g		585.6250
A/O Type R Mini Resin Fibre Disc 2", 120 g		585.62120
A/O Type R Mini Resin Fibre Disc 3", 24 g		585.6324
A/O Type R Mini Resin Fibre Disc 3", 36 g		585.6336
A/O Type R Mini Resin Fibre Disc 3", 50 g		585.6350
A/O Type R Mini Resin Fibre Disc 3", 120 g		585.6399
A/O Cartridge roll 3/8" x 1 1/2" x 1/8" (80 grit)		25
A/O Cartridge roll 3/8" x 1 1/2" x 1/8" (120 grit)	588.033	
A/O Cartridge roll 1/2" x 1 1/2" x 1/8" (80 grit)	588.042	
Type R Mandrel 2"	1	585.41
Type R Mandrel 3"		585.43
Cartridge Mandrel 2-3/4"		588.100
Cartridge Mandrel 4"		588.200
1/4" Medium Die Grinder		703.210

16 - Compartment drawer Art. No. 955.916

ORSY RACK FOR CUTTING/GRINDING WHEELS



Art. No. 961.9102

20" x 29" x 9" (W x H x D)

03 ELECTRICAL

3 Electrical Chemicals

7 Cables, Wires, Ties & Tools

- 7 Battery Cable
- 8 Trailer Lighting Cable
- 8 Wire
- 11 Hand tools
- 13 Cable Ties & Mounts
- 24 Clips, Loom & Sleeve

27 Heat Shrink Tubing & Heat Guns

31 Grommets

32 Fuses, Fuse Holders & Relays

38 Connectors, Terminals, Lugs & Tools

- 38 Heat Shrink Connectors
- 44 Insulated Connectors
- 47 Non-Insulated Connectors
- 49 PVC Solderless Connectors
- 51 Premium Nylon Connectors And Terminals
- 53 Scotch Locks, Tap Connectors & Wire Nuts
- 54 Metripack Terminals
- 57 Connector & Terminal Assortments
- 58 Ferrules
- 59 Lugs & lug Assortments
- 65 Contact Tools, Testers, Files & Cleaners
- 70 Battery Terminals & Accessories

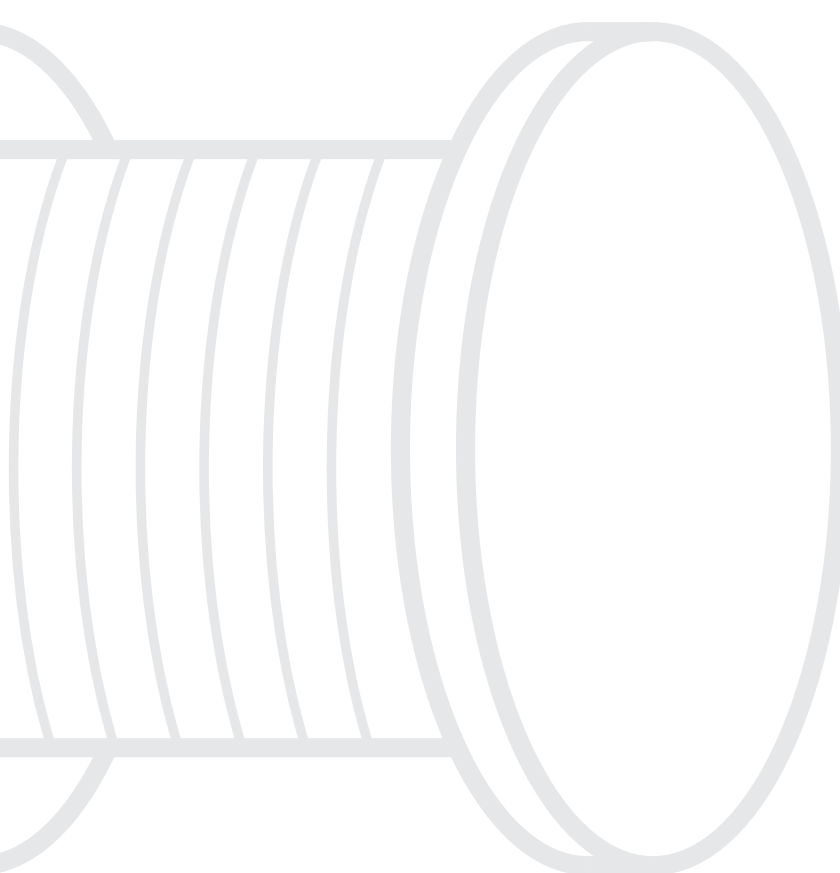
76 Deutsch Connectors & Tools

79 AMP Superseal Connectors & Accessories

81 Solder, Slugs & Tools




















83 Batteries

84 Electric Essential Service Kit



ELECTRICAL WIRE/CONNECTOR IDENTIFICATION

Wire Conversion Table - Bare Conductor		
Gauge	Dia (inches)	Dia (mm)
4/0	0.460	11.68
3/0	0.410	10.41
2/0	0.365	9.27
1/0	0.325	8.26
1	0.289	7.34
2	0.258	6.55
3	0.229	5.82
4	0.204	5.18
5	0.182	4.62
6	0.162	4.11
7	0.144	3.66
8	0.128	3.25
9	0.114	2.90
10	0.102	2.59
11	0.091	2.31
12	0.081	2.06
13	0.072	1.83
14	0.064	1.63
15	0.057	1.45
16	0.051	1.30
17	0.045	1.14
18	0.040	1.02
19	0.036	0.91
20	0.032	0.81
21	0.0285	0.72
22	0.0253	0.64
23	0.0226	0.57
24	0.0201	0.51

Stud Size Chart		
	Inches	mm
	#0	1.52
	#1	1.85
	#2	2.18
	#3	2.51
	#4	2.85
	#5	3.18
	#6	3.50
	#8	4.17
	#10	4.83
	#12	5.50
	1/4	6.35
	5/16	7.93
	3/8	9.53
	7/16	11.10
	1/2	12.70
	5/8	15.90
	3/4	19.10
	7/8	22.23
	1	25.40

BATTERY TERMINAL PROTECTOR



Art. No. 890.104 - 150 mL

Durable protection for battery terminals. Resistant to variations in temperature.

- Durable temperature resistant film
- Protects charging clips
- Protects electrical push-on-connectors against corrosion and climactic effects as well as battery acid
- Prevents transition resistance and voltage drop, thus extending the battery life
- Colour: Blue
- Similar product to Ford Battery Terminal Protector

Note: Do not spray on paint! Remove residue on the paint immediately with brake cleaner, otherwise spots could appear.

BATTERY TERMINAL CLEANER



Art. No. 890.104150 475 g

High performance non-chlorinated formula cleans battery terminals and posts

- This advanced formulation serves three applications in a single product:
 - Cleans acid deposits
 - Detects battery leaks
 - Neutralizes acid
- As a cleaner, the product's foaming action penetrates and emulsifies dirt, grease and deposits
- As a detector, the foamy, light red formula turns blue in the presence of acid
- As a neutralizer, additives in the formula increase the pH to a safer level
- Excellent for use on batteries, terminals, cables, brackets and housings for everything including golf carts, boats, tractors, fork- lifts, construction equipment, floor scrubbers and more

BATTERY TERMINAL GREASE



Art. No. 890.1041 93 g

Highly adhesive, water-resistant red paste protects battery poles and terminals from oxidation for extended periods

Use: Clean battery pole thoroughly with mechanical means, then apply battery terminal grease and spread around.

TEMPERATURE REDUCTION SPRAY



Art. No. 890.001200 236 g

A non-flammable freezer spray for universal use in repair and assembly work and for troubleshooting.

- Essential for tracing electrical faults and for troubleshooting equipment parts with temperature-sensitive components.
- Ideal for removal of chewing gum residue, animal excrement and candle wax residue.
- Evaporates completely without leaving any residue on the treated surface.
- Good material compatibility with the most common substrates. (Compatibility test is recommended for best results)
- Application on live electrical parts is only recommended at low voltages [$<50V$ (AC) and $<120V$ (DC)]. In all other cases ensure that the electrical system in question is completely disconnected from the power supply.
- Spray at a distance of 2cm-8cm (1" - 3") directly onto the area to be treated.
- There is no risk of explosion or fire under practical application conditions.

DIELECTRIC GREASE



Art. No. 893.844100 85 g

A superior high thermal conductivity silicone heat transfer compound, offering excellent protection

- For use in electrical insulation, damping and lubrication of brass components and O-Rings
- High thermal conductivity
- Withstands temperatures to 204 °C (400 °F)
- Silicone-based compound
- Lubricates rubber and plastic
- Protects electrical components
- Prevents oxidation of electrical contacts or terminals
- Excellent for light bulb sockets

CONTACT SPRAY



Art. No. 890.100 223 g

Helps eliminate ignition problems

Stops and avoids any faults in the ignition and electrical system caused by dampness, ex: ignition coils, distributors, spark plug cables, connectors, etc.

CONTACT CLEANERS AND PROTECTORS



Art. No. 893.65 154 g

Contact SW **Electrical Cleaning Spray**

- Special spray solvent for contacts and electronic parts
- Removes colophonium residues
- Will clean badly soiled electrical appliances, electrical construction parts, relays and plug strips
- Does not attack plastic or most common construction materials



Art. No. 893.70 167 g

Contact SL **Protective Lacquer**

- Insulates, protects and seals
- Insulates wire connections and push-on connectors
- Protects against electrical shorts in high and low power circuits
- Prevents or eliminates fine shorts in transformer motors
- Seals battery cables and protects against corrosion
- Seals against penetration of humidity
- Shiny, flexible finish
- Protects against water, weak acids and alkalis and atmospheric penetration
- Adheres to metal, e.g. copper, brass, steel, chrome and aluminum as well as plastic, wood and cardboard
- Remove overspray with acetone
- Temperature range: -70 °C to +100 °C (-94 °F to +212 F)



Art. No. 893.60 159.4 g

Contact OL **Oxidation Remover**

- Cleaning agent for electrical contacts
- Will clean all kinds of electrical contacts
- Removes oxide and sulphide layers, resin, oil and dirt
- Eliminates high resistance
- Eliminates crackling noises immediately
- Does not affect usual construction materials
- Contact OL must have dried off completely before the electrical system can be put back into operation!



Art. No. 893.61 153 g

Contact OS **Oxidation Protection**

- For new electrical contacts, switches and electromechanical engine parts
- Long term oxidation prevention
- Excellent lubricator for small engine parts
- Will remove dirt, resin, oil and metal deposits

STABILANT 22A



Art. No. 893.622 - 15 ml

Stabilant 22A offers the reliability of a soldered joint without bonding the contacting surfaces together on connectors in electromechanical contact applications

Application Areas:

Electronic ignition systems, prevent sensor malfunctions, electric rear-view mirrors, alternators and/or generators, solenoid door and trunk locks, horn circuits, wiring harnesses, door activator switches, fuses, power windows, radios, tape decks and/or speakers, diagnostic equipment

Benefits:

- Cuts down on costly replacement of sensors, switches, motors, etc.
- Biodegradable
- Nontoxic
- Nonflammable
- Not prone to evaporation
- Will not crosslink

Characteristics:

- Enhances conductivity within a contact without causing electrical leakage between adjacent contacts
- Provides improved connector contact
- Avoids voltage drops, which can cause connector overheating
- Reduces the possibility of premature fuse failure
- Interconnects speaker leads; ensures reliability and reduces distortion
- Colour: Clear/15 ml

AIR DUSTER



Art. No. 890.500856 284 g

Compressed air spray removes dust effortlessly from inaccessible places.

For simple handling

- Always ready for use, no compressor, electrical cables or compressed air hoses necessary
- Precise spraying with long spray tube

For high pressure and density

- Time-saving cleaning and removal of dust
- Intensive and powerful air flow

For zero residue

- Does not attack surface finishes
- Moisture free
- Does not contain VOC's

Areas of Application:

Suitable for maintenance work and repairs of data processing equipment, printers, copiers, electronic components and modules, fine mechanisms, optical instruments, cameras, lenses, projectors, housings, automotive electronics, magnetic tapes, magnetic heads, measuring equipment, precision parts, microscopes, watches and model making

Instructions for Use:

Insert spray tube in the opening of the spray valve. Always hold can vertically when spraying; do not invert can while spraying. The can retains its optimal pressure if the spray valve is operated in short bursts.

Note: Do not spray into eyes, mouth or other body openings. Do not spray onto hot surfaces.

PREMIUM BATTERY CABLE



Description	Size	Length	Art. No.
Black	6 GA	50 FT	772.61
	4 GA	50 FT	772.41
	2 GA	25 FT	772.21
	1/0	25 FT	772.10
	2/0	25 FT	772.20
Red	6 GA	50 FT	772.6
	4 GA	50 FT	772.4
	2 GA	25 FT	772.2
	1 GA	25 FT	772.11

Note: Fine strand technology makes this cable extremely flexible.

- Fine strand 100% copper wire
- Fine stranding makes it more flexible than standard battery cable
- Excellent resistance to oil, acid, UV light, ozone and water
- Superior abrasion resistance and flexibility
- Copper conductor for maximum conductivity

Specifications:

Jacket

- Insulated with oil & water resistant (SGT) thermoplastic rubber compound
- A water resistant safety insulator separates the outer sheath
- Temperature rated to 105°C
- Meets SAE J378C/J1127
- Meets UL 62 for SJE, SE, SEO

Applications:

- Automotive engine parts and connectors where superior performance in a wide range of operating conditions and environments apply.
- Marine applications

STANDARD BATTERY CABLE



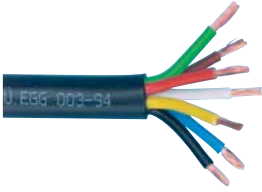
Description	Size	Length	Art. No.
Black	8 GA	50 FT	772.08
	6 GA	50 FT	772.061
	4 GA	50 FT	772.041
	2 GA	25 FT	772.021
	1 GA	25 FT	772.01
	1/0	25 FT	772.010
	2/0	25 FT	772.020
	3/0	25 FT	772.030
	4/0	25 FT	772.040
	Red	8 GA	50 FT
6 GA		50 FT	772.06
4 GA		50 FT	772.04
2 GA		25 FT	772.02
1 GA		25 FT	772.011
1/0		25 FT	772.0101
2/0		25 FT	772.0201
4/0		25 FT	772.0401

Features:

- PVC Insulation resists abrasion, fuel, oil, acid and salt
- Insulation is flame retardant
- Meets or exceeds SAU J1127, SGT type 221°F (105°C), 8 Gauge Exceeds J1128
- Rated 60V
- Meets AWG specifications
- Copper conductor for maximum conductivity

Size	Colour Coded Stripe
8 GA	Grey
6 GA	Grey
4 GA	Grey
2 GA	Green
1 GA	Pink
1/0	Black
2/0	Orange
3/0	Purple
4/0	Yellow

UTILITY TRAILER LIGHTING CABLE



- For truck, bus, farm construction and commercial applications
- For use at 50 volts or less
- Fine stranded copper conductor for maximum conductivity and flexibility
- Heavy duty PVC outer jacket protects against abrasion and resists moisture, oil and salt damage.
- Meets or exceeds S.A.E. J1128 & ATA specifications
- Flexible for easy routing, cold weather rated
- Colour coded conductors for easy circuit identification
- Temperature range: -40°C to +80°C (-40°F to 176°F)

Size	Gauge	Art. No.
100 ft.	7 strands - 14GA	772.714
100 ft.	6 strands - 14GA 1 strand - 12GA (white)	772.7140

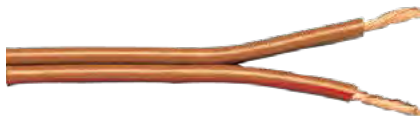
PREMIUM SXL WIRE



- Premium grade cross linked polyethylene (XLPE) insulation provides excellent durability and heat resistance
- Designed for harsh, hot environments
- For use at 50 volts or less
- Insulation rated -51°C to 125°C (-60°F to 257°F)
- Meets and exceeds SAE J1128
- Bare copper conductor
- Solid plastic insulation
- Single conductor
- Great flexibility
- Permanent colour
- Resistant to oil, grease, gasoline and most other chemicals
- Will not melt when exposed to heat

Description	Size	Length	Art. No.
Yellow	14 GA	100 FT	774.11.14
	16 GA		774.11.16
	18 GA		774.11.18
Red	12 GA		774.22.12
	14 GA		774.22.14
	16 GA		774.22.16
Black	18 GA		774.22.18
	12 GA		774.33.12
	14 GA		774.33.14
Green	16 GA		774.33.16
	18 GA		774.33.18
	12 GA		774.44.12
Blue	14 GA		774.44.14
	16 GA		774.44.16
	18 GA		774.44.18
White	12 GA		774.55.12
	14 GA		774.55.14
	16 GA		774.55.16
Brown	18 GA	774.55.18	
	12 GA	774.66.12	
	14 GA	774.66.14	
White	16 GA	774.66.16	
	18 GA	774.66.18	
	14 GA	774.77.14	
Brown	16 GA	774.77.16	
	18 GA	774.77.18	

LOUDSPEAKER WIRE



Plastic insulated twin

Gauge	Colour	No. of Strands	Dia (mm)	Roll Length (m)	Art. No.
18	Brown/Red	2	0.75	50	770.300

PARALLEL WIRE



PVC round jacket

Gauge	Colour	No. of Strands	Dia (mm)	Roll Length (m)	Art. No.
15	Black/Red	2	1.5	25	770.202

PVC COATED PRIMARY WIRE - GPT



- Plastic coated primary wire is S.A.E. type GPT
- For use at 50 volts or less
- Insulation rated -40°F to 176°F (-40°C to 80°C)
- Meets and exceeds SAE J1128
- PVC insulation resists abrasion, fuel, oil, acid and salt
- Fine stranded copper conductor for maximum conductivity and flexibility

Description	Size	Length	Art. No.
Yellow	10 GA	100FT	774.01.10
	12 GA		774.01.12
	14 GA		774.01.14
	16 GA		774.01.16
	18 GA		774.01.18
	20 GA		774.01.20
	22 GA	774.01.22	
	14 GA	1000 FT	774.0114.1000
	16 GA		774.0116.1000
	8 GA		774.02.08
10 GA	774.02.10		
Red	12 GA	100FT	774.02.12
	14 GA		774.02.14
	16 GA		774.02.16
	18 GA		774.02.18
	20 GA		774.02.20
	22 GA		774.02.22
	14 GA	1000 FT	774.0214.1000
	16 GA		774.0216.1000
	8 GA		774.03.08
	10 GA		774.03.10
Black	12 GA	100 FT	774.03.12
	14 GA		774.03.14
	16 GA		774.03.16
	18 GA		774.03.18
	20 GA		774.03.20
	22 GA		774.03.22
	12 GA	1000 FT	774.0312.1000
	14 GA		774.0314.1000
	16 GA		774.0316.1000
	18 GA		774.0318.1000
Green	10 GA	100 FT	774.04.10
	12 GA		774.04.12
	14 GA		774.04.14
	16 GA		774.04.16
	18 GA		774.04.18
	20 GA		774.04.20
	22 GA	774.04.22	
	14 GA	1000 FT	774.0414.1000
	16 GA		774.0416.1000
	10 GA		774.05.10
12 GA	774.05.12		

Description	Size	Length	Art. No.
Blue	14 GA	100FT	774.05.14
	16 GA		774.05.16
	18 GA		774.05.18
	20 GA		774.05.20
	22 GA		774.05.22
	16 GA	1000 FT	774.0516.1000
White	10 GA	100 FT	774.06.10
	12 GA		774.06.12
	14 GA		774.06.14
	16 GA		774.06.16
	18 GA		774.06.18
	20 GA		774.06.20
	22 GA	774.06.22	
	14 GA	1000 FT	774.0614.1000
	16 GA		774.0616.1000
	10 GA		774.07.10
12 GA	774.07.12		
Brown	14 GA	100 FT	774.07.14
	16 GA		774.07.16
	18 GA		774.07.18
	22 GA		774.07.22
	14 GA	1000 FT	774.0714.1000
	16 GA		774.0716.1000
Orange	14 GA	100 FT	774.08.14
	16 GA		774.08.16
	18 GA		774.08.18
	20 GA		774.08.20
	22 GA	774.08.22	
	16 GA	1000 FT	774.0816.1000
Pink	14 GA	100 FT	774.10.14
	16 GA		774.10.16
	18 GA		774.10.18

AUTOMOTIVE WIRE



Plastic reel

	100m/roll	100m/roll	100m/roll	50m/roll	50m/roll
Nom. cross-section mm²	0.5 (20GA)	0.75 (18GA)	1.5 (15GA)	2.5 (13GA)	4.0 (11GA)
External dia. approx. mm	1.50	1.80	2.30	2.90	3.50
Colour	Art. No.	Art. No.	Art. No.	Art. No.	Art. No.
Black	770.050	770.075	770.100	770.105	770.110
Red	770.0501	770.0751	770.101	770.106	770.1100
Blue	770.0502	-	-	-	-
Yellow	770.0503	770.0753	-	770.108	-
Green	770.0504	-	-	-	-
Grey	770.0505	-	-	-	-
White	770.05042	-	770.1042	770.1092	-
Brown	770.0509	770.0759	-	-	-

- European gauges from 20GA - 9GA
- High quality plastic PVC coating to protect and ensure long lasting performance
- Single conductor
- Available in black, red, yellow, white, brown, green, purple, blue, grey, black, red
- Temperature Range: -40 °C to +85 °C (-40 °F to +185 °F)
- Silicone, cadmium, lead free
- Less inclined to coil up

Bundles

Nom. cross-section mm ²	External dia. approx. mm	Colour	Art. No.
6.0 (9GA)	4.7	Black	770.111

Temperature range:
-40°C to +70°C

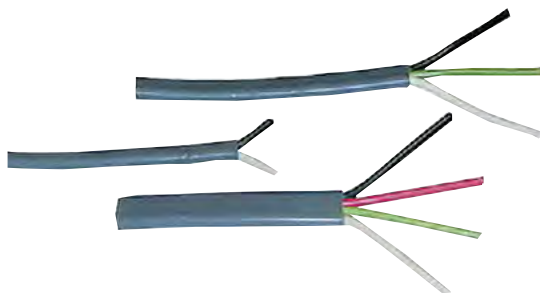
MULTI-STRAND WIRE



Outer-casing NYMHY

Gauge	Colour	No. of Strands	Dia (mm)	Roll Length (m)	Art. No.
15	Black, white, brown, yellow, green, red, blue	7	9.5	50	770.118
	Black, white, brown, yellow	4	7.3		770.119

FLAT PARALLEL WIRE



- For auto, truck, agriculture, construction and light marine applications
- Also known as Brake Cable
- Temperature rated 221° F (105° C)
- Use at 50 volts or less
- Heavy duty flat PVC grey outer jacket is abrasion resistant and protects against moisture, oil, acid and salt
- Meets SAE J1128, Type GPT specifications
- Used for cross body wiring of lights on tractor and utility trailers
- Fine stranded copper conductor for maximum conductivity and flexibility

No. of Conductors	Size	Conductor Colour Sequence	Art. No.
2 x 12GA	100 ft.	Black & White	772.7212
2 x 14GA		Black & White	772.7214
3 x 14GA	100 ft.	Black, Green, & White	772.7314
4 x 14GA		Black, Green, Red, & White	772.7414
2 x 16GA		Black & White	772.7216

CRIMPING TOOLS



Application: Forklift trucks and high lifts, battery back-up systems, uninterruptible power supply systems, industrial and commercial applications.

Art. No. 557.94285

Heavy Duty Crimping Tool Ratchet

- 26" overall length, for sizes 8 GA to 6/0
- Insulated grips for comfort and safety
- Rotate dies to proper gauge setting, no need to remove any parts
- Colour-coded crimp dies match connectors and cable
- Provided with a release pawl
- The ratchet mechanism is designed to ensure the best possible crimped connection
- The ratchet mechanism requires the operator to complete the full crimp before it will release
- Factory lubricated with low-friction, high-temperature synthetic lubricant

CRIMPING TOOLS



Art. No. 557.942851

Replacement Jaws

Replacement Jaws for **Art. No. 557.94285**
Colour coded



Art. No. 557.10

Wire End Ferrule Crimping Tool

- For insulated and non-insulated cable connectors
- Drop-forged
- Long life
- With plastic handle
- Non-slip, with high power transmission
- Cross-sec.: 0.5 - 16 mm²
- Length: 220 mm



Art. No. 557.94840

Hammer Type Crimping Tool

- Designed to prevent over crimping
- Spring loaded pin locks in "up" position for loading connector and cable
- When released pin holds connector securely during crimping
- Engineered to crimp electrical terminals on stranded copper cable
- Suitable for all wire sizes from 16 GA to 4/0

OPEN BARREL TERMINAL CRIMPING TOOL



Art. No. 557.16004

- For O.E.M. terminals and weather pack.
- Duplicates factory crimps on open barrel terminals used in automotive, computer and control applications.
- Features five machined and hardened crimp stations for 14 to 24 GA wire terminations.
- Parallel jaws eliminate faulty crimps.
- Overall length: 8 1/2"

HEAVY DUTY CABLE CUTTING TOOL



Art. No. 557.94014

- Cuts cable up to 250 MCM (6/0) gauge
- 22" handles for easier cutting
- Blades made of 1075 carbon steel, hardened for long life, can be resharpened

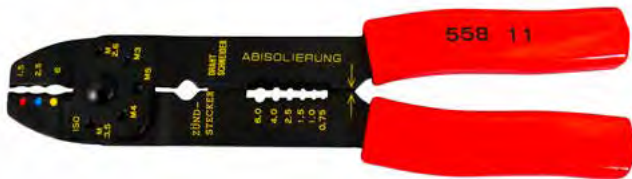
CRIMPING TOOLS



Uninsulated/Insulated Crimping Tool Q60 Plus

Art. No. 714.101111

- Crimping of insulated and uninsulated cable connectors 0.5-1.0/1.5-2.5/4-6 mm²
- Cutting and insulation stripping of cables and leads from 0.75 to 6.0 mm
- Will cut machine screws from M2.6-M5
- Length: 220 mm, Weight: 310 g
- Pack Quantity: 1



Insulated Crimping Tool Qi 60

Art. No. 558.11

- Crimping of insulated cable connectors 0.5-1.0/1.5-2.5/4-6 mm²
- Cutting and insulation stripping of cables and leads from 0.75 to 6.0 mm
- Will cut machine screws from M2.6-M5
- Length: 200 mm, Weight: 260 g
- Pack Quantity: 1



Uninsulated Crimping Tool Qu 60

Art. No. 714.101121

- Crimping of uninsulated cable connectors
- 0.5-1.0/1.5-2.5/4-6 mm²
- Cutting and insulation stripping of cables and leads from 0.75 to 6.0 mm
- Will cut machine screws from M2.6-M5
- Length: 200 mm, Weight: 260 g
- Pack Quantity: 1



Ratchet Style Insulated Crimping Tool

Art. No. 558.1100

- Crimping of insulated cable connectors 0.5-1.0/1.5-2.5/4-6 mm
- Cable sizes from 22 to 10 GA
- Forced lock for correct and complete crimping
- Double and oval crimping
- Length: 230 mm, Weight: 550 g
- Pack Quantity: 1

CABLE STRIPPER



Features:

- For stripping all common round cables
- Self-tightening holding lever
- Adjusting screw for cutting depth adjustment
- Turnable blade inside the handle
- Spare blades inside the handle
- Secure grip due to soft component material on handle and holding lever to avoid slipping
- Housing is plastic and impact proof
- Strips cables from 8 to 28 mm wide
- 5" overall length

Description	Art. No	P. Qty
Cable Stripper	714.4100	1
Replacement Blade	714.41010 Special Order Only	

* The first column reports the AWG number, the second the corresponding diameter of the cable in mm.

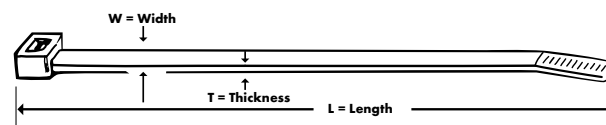
NON-INSULATED WIRE STRIPPERS



Art. No. 691.500

- Stripping is possible even in hard to reach places due to narrow jaw design
- Wire cutter for solid wires from 22 to 10 GA
- Specially hardened stripping blade
- Practical, ergonomic design

CABLE TIES WITH METAL AND PLASTIC TONGUE



Natural nylon 6/6

General purpose nylon is high in strength and lightweight. It is non-toxic and offers a wide temperature range. Nylon 6/6 is a hydroscopic material, which absorbs and releases moisture. This can affect the characteristics of a cable tie.

UV stabilized nylon 6/6

Ultraviolet nylon offers the same features of the natural nylon but also protects against UV light. It contains well-dispersed carbon black for maximum resistance to weathering. This material is designed for outdoor applications.

- UL listed & meets applicable Mil. Spec.
- Temperature range: -40°C to +85°C (-40°F to +185°F).
- Black ties are UV stabilized for long life.
- 6/6 nylon provides superior strength.
- Easy insertion of the cable tie into the eye due to the raised tip.

- Absolutely secure lock.
- Long service life.
- Particularly tough in cold weather, does not become brittle or porous at low temperatures.
- Resistant to oils, grease, fuels and many other organic materials.
- Caution in case of strongly mineral acids and/or oxidizing chemicals, especially at high temperatures.
- Neutral: for indoor use.
- Black: UV and weather stabilized.
- Due to carbon additive the effect of UV radiation on the material is slowed down.

Areas of application:

- Switch cabinets
- Installation
- Automotive
- Automobile workshops
- Industrial workshops
- Elevator construction

PREMIUM CABLE TIES WITH PLASTIC TONGUE



- Plastic tongue.
- No sharp edges.
- High retaining strength.

Width (mm)	Width (in)	Length (mm)	Length (in)	Bundle Ø (mm)	Bundle Ø (in)	Strength (kg)	Strength (lb)	Art. No. Natural	Art. No. UV black	P. Qty.
2.5	0.10	102	4.0	22	7/8	8.2	18	553.5500P		100
3.3	0.13	142	5.6	32	1-1/4	13.6	30		553.55010P	
4.7	0.19	191	7.5	44	1-3/4	22.7	50		553.55030P	
4.7	0.19	282	11.1	76	3	22.7	50	553.5504P	553.55040P	
7.6	0.30	363	14.3	102	4	54.4	120		553.59001P	50
7.6	0.30	282	11.1	76	3	54.4	120		553.59002	
8.8	0.35	914	36	270	10.7	79.3	175	553.5901	553.59010	

CABLE TIES WITH METAL TONGUE



Width (mm)	Width (in)	Length (mm)	Length (in)	Bundle Ø (mm)	Bundle Ø (in)	Strength (kg)	Strength (lb)	Art. No. Natural	Art. No. UV black	P. Qty.
2.5	0.10	102	4	15.9	0.63	8.2	18	553.5500M	553.55001M	100
3.6	0.14	140	5.5	28.6	1.13	18.2	40	553.5501M	553.55010M	
4.7	0.19	191	7.5	44.5	1.75	22.7	50	553.5503M	553.55030M	
4.7	0.19	292	11.5	76.2	3.00	22.7	50	553.5504M	553.55040M	
4.7	0.19	356	14	101.6	4.00	22.7	50	553.5505M	553.55050M	50
6.9	0.27	356	14	88.9	3.50	54.4	120	553.5900M	553.59001M	
6.9	0.27	699	27.5	228.6	9.00	54.4	120		553.59010M	

PUSH MOUNT CABLE TIE



Width (mm)	Width (in)	Length (mm)	Length (in)	Bundle Ø (mm)	Bundle Ø (in)	Strength (kg)	Strength (lb)	Colour	Art. No.	P. Qty.
4.7	0.19	193	7.5	44	1.75	22.7	50	Natural	553.5700	100
								Black	553.57001	100

PLASTIC PANEL CABLE TIES



Width (mm)	Width (in)	Length (mm)	Length (in)	Bundle Ø (mm)	Bundle Ø (in)	Strength (kg)	Strength (lb)	Art. No. black	P. Qty.
5.7	0.23	319	12.5	76.2	3.00	29.5	65	553.51000	50

MOUNTING HEAD TIES



- Material: Nylon

Width (mm)	Width (in)	Length (mm)	Length (in)	Thickness (mm)	Thickness (in)	Bundle Ø (mm)	Bundle Ø (in)	Strength (N)	Strength (lb)	Hole (Ø)	Art. No. (Black)	UL Certification	Qty.
3.6068	0.142	144.75	5.7"	1.27	0.05	1.5748 - 30.48	0.062" - 1.2"	133.45	30	0.16" (4.06 mm) / #8	553.56001	62275 TY 2 & 21	100
4.572	0.18	218.44	8.6"	1.397	0.055	1.5748 - 50.8	0.062" - 2"	222.41	50	0.19" (4.83) mm / #10	553.56010	62275 TY 2 & 21 & 21S	

CABLE TIES WITH PLASTIC TONGUE



Width (mm)	Width (in)	Length (mm)	Length (in)	Thickness (mm)	Thickness (in)	Bundle Ø (mm)	Bundle Ø (in)	Strength (N)	Strength (lb)	Art. No. Natural	UL Certification	Qty.	Art. No. UV Black	UL Certification	Qty.
2.54	0.1	104.14	4.1	0.889	0.035	19.05	3/4"	80	18	553.5500	62275 TY 2 & 21	100	553.55001	62275 TY 2 & 21	100
3.6	0.142	144.78	5.7	1.524	0.06	31.75	1-1/4"	177.93	40	553.5501	62275 TY 2 & 21		553.55010R	62275 TY 2 & 21	
3.6	0.142	147.32	5.8	1.524	0.06	31.75	1-1/4"	177.93	40				553.55011	62275 TY 2 & 21	1000
4.572	0.18	193.04	7.6	1.3716	0.054	50.8	2"	222.41	50	553.5503	62275 TY 2 & 21 & 21S	100	553.55030	62275 TY 2 & 21 & 21S	100
4.572	0.18	193.04	7.6	1.3716	0.054	50.8	2"	222.41	50	553.55031	62275 TY 2 & 21 & 21S	1000	553.550301	62275 TY 2 & 21 & 21S	1000
4.572	0.18	281.94	11.1	1.3716	0.054	76.2	3"	222.41	50	553.5504	62275 TY 2 & 21 & 21S	100	553.55040	62275 TY 2 & 21 & 21S	100
4.572	0.18	281.94	11.1	1.3716	0.054	76.2	3"	222.41	50				553.55040B	62275 TY 2 & 21 & 21S	1000
4.572	0.18	370.84	14.6	1.3716	0.054	101.6	4"	222.41	50	553.5505	62275 TY 2 & 21 & 21S	100	553.55050	62275 TY 2 & 21 & 21S	100
4.572	0.18	370.84	14.6	1.3716	0.054	101.6	4"	222.41	50				553.55050B	62275 TY 2 & 21 & 21S	1000
4.572	0.18	434.34	17.1	1.3716	0.054	127	5"	222.41	50				553.55060	62275 TY 2 & 21	100
7.5692	0.298	228.6	9	1.7526	0.069	50.8	2"	533.79	120				553.59003	62275 TY 2 & 21	
7.5692	0.298	381	15	1.7526	0.069	101.6	4"	533.79	120	553.5900	62275 TY 2 & 21	100	553.59001	62275 TY 2 & 21	50
7.5692	0.298	381	15	1.7526	0.069	101.6	4"	533.79	120				553.59001B	62275 TY 2 & 21	500

COLD WEATHER CABLE TIES



Enhanced flexibility and strength in extreme cold weather.

- Tested for application performance at -20°C to +85°C (-4°F to +185°F).
- Material: Nylon 6/6 with an impact modifier.
- Material rated at -40°C (-40°F) per ISO 180.
- RoHS compliant.

Width		Length		Thickness		Bundle Ø		Strength		Art. No. Black	UL Certification	P. Qty.
(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(N)	(lb)			
4.572	0.18	193.04	7.6	1.3716	0.054	50.8	2"	222.41	50	553.550300	62275 TY 2 & 21	100
4.572	0.18	281.94	11.1	1.3716	0.054	76.2	3"	222.41	50	553.550311	62275 TY 2 & 21 & 21S	
4.572	0.18	370.84	14.6	1.3716	0.054	101.6	4"	222.41	50	553.550314	62275 TY 2 & 21 & 21S	
15.1892	0.598	381	15	1.7526	0.069	101.6	4"	533.79	120	553.550414	62275 TY 2 & 21	

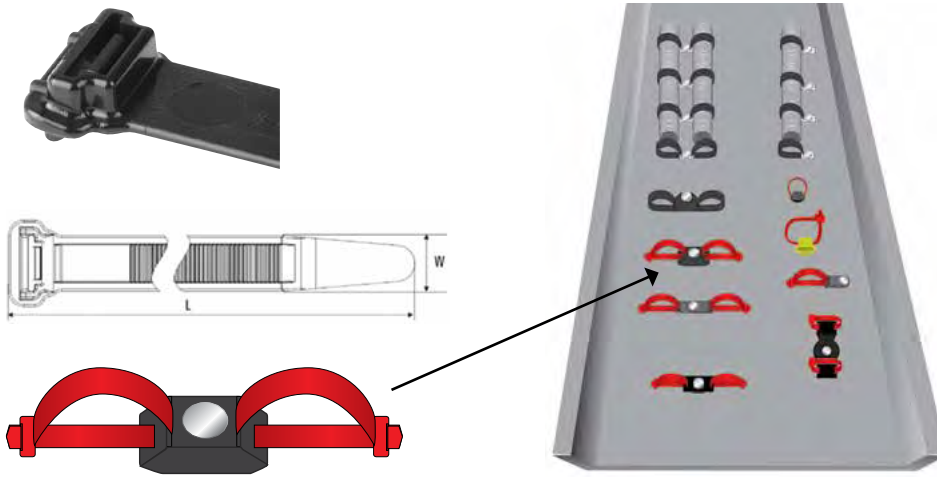
COLOURED CABLE TIES



- Color and fluorescent cable ties provide color coding, identification, packaging continuity, and bundling aesthetics.
- Bright colours can be coordinated to segregate specific items.
- High quality color concentrates produce color consistency time after time.
- The angled tail features finger grips and a stay-tab for easy handling and allows temporary closure.
- The one-piece design, transition rails, and teeth provide a low insertion force while maintaining a high tensile strength.

Width (mm)	Width (in)	Length (mm)	Length (in)	Thickness (mm)	Thickness (in)	Bundle Ø (mm)	Bundle Ø (in)	Strength (N)	Strength (lb)	Colour	Art. No.	UL Certification	Qty.
2.54	0.10	104.14	4.1	0.889	0.035	19.05	3/4	80	18	Fluor. green	553.6100	62275 TY 2 & 21	100
										Fluor. pink	553.6200	62275 TY 2 & 21	
										Fluor. yellow	553.6300	62275 TY 2 & 21	
										Fluor. orange	553.6400	62275 TY 2 & 21	
										Fluor. blue	553.6500	62275 TY 2 & 21	
										Red	553.6600	62275 TY 2 & 21	
										Yellow	553.6700	62275 TY 2 & 21	
										Green	553.6800	62275 TY 2 & 21	
4.572	0.18	193.04	7.6	1.3716	0.054	50.8	2	222.41	50	Fluor. green	553.7100	62275 TY 2 & 21 & 21S	
										Fluor. pink	553.7200	62275 TY 2 & 21 & 21S	
										Fluor. yellow	553.7300	62275 TY 2 & 21 & 21S	
										Fluor. orange	553.7400	62275 TY 2 & 21 & 21S	
										Fluor. blue	553.7500	62275 TY 2 & 21 & 21S	
										Red	553.7600	62275 TY 2 & 21 & 21S	
										Yellow	553.7700	62275 TY 2 & 21 & 21S	
										Green	553.7800	62275 TY 2 & 21 & 21S	
		Blue	553.7900	62275 TY 2 & 21 & 21S									
		281.94	11.1	1.3716	0.054	76.2	3	222.41	50	50	Fluor. green	553.8100	62275 TY 2 & 21 & 21S
											Fluor. pink	553.8200	62275 TY 2 & 21 & 21S
											Fluor. yellow	553.8300	62275 TY 2 & 21 & 21S
											Fluor. orange	553.8400	62275 TY 2 & 21 & 21S
											Fluor. blue	553.8500	62275 TY 2 & 21 & 21S
											Red	553.8600	62275 TY 2 & 21 & 21S
											Yellow	553.8700	62275 TY 2 & 21 & 21S
											Green	553.8800	62275 TY 2 & 21 & 21S
											Blue	553.8900	62275 TY 2 & 21 & 21S

WIDE STRAP HEAVY DUTY CABLE TIES

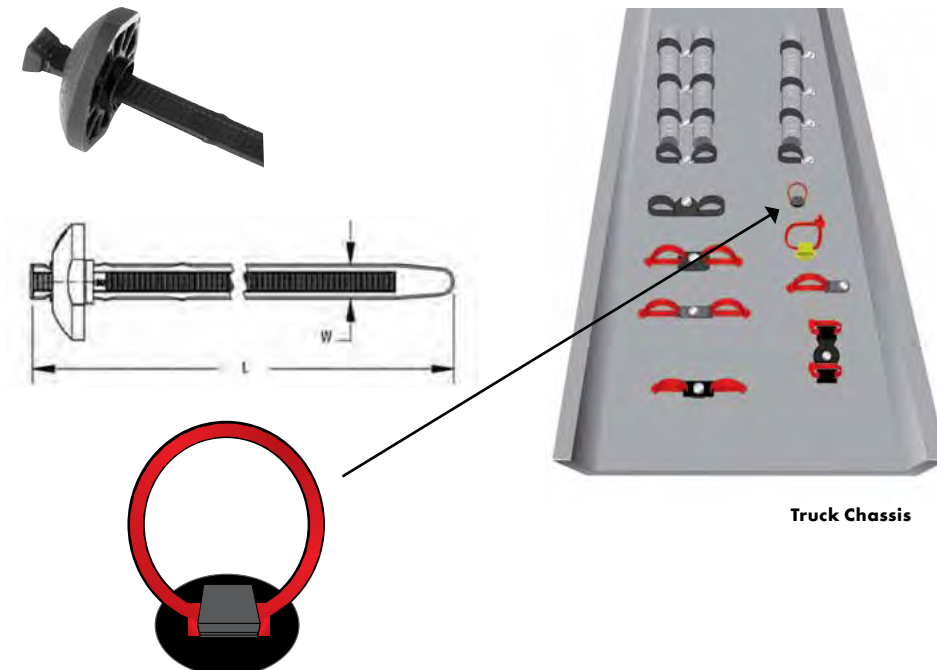


Truck Chassis

- Wide strap designed to minimize pinching on soft bundles
- Low profile head provides compact bundling
- Thin strap provides increased flexibility
- Clamping rails on the bottom of head increases grip on round bundles
- Flexible strap
- Bent tip for quick insertion
- Temperature range: -40 °C - +110°C (-40 °F - +230 °F)

Length		Width		Bundle ø		Tensile Strength		Colour	Art. No.	Replaces OEM #	P. Qty.
mm	in	mm	in	mm	in	N	lbs				
231.14	9.1	12.7	.5	57.15	2.25	534	120	Black	553.3100	Freightliner 23-13335-001	25
383.54	15.1			104.78	4.125						

BUTTON HEAD TIES

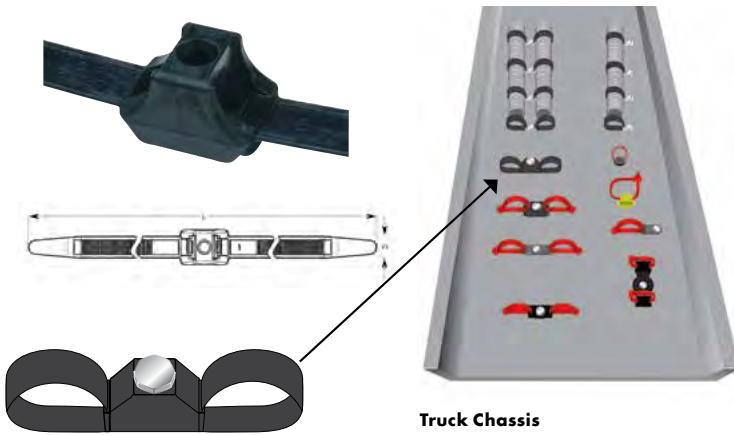


Truck Chassis

- Secures bundles to frame rails
- A two-piece tie providing for parallel entry and exit through the head
- Strap has serrations on both sides
- Recessed pawls on strap allow for the strap to be turned clockwise or counter-clockwise before insertion into the head, allowing for bi-directional looping
- Pilot bushing protects the strap from abrasion on the mounting hold edge
- Ribs in the button head for increased strength
- Radiused edges on strap for flexibility
- Serrations and wedge provide optimal strength
- Temperature range: -40 °C - +105 °C (-40 °F - +221 °F)

Length		Width		Bundle ø		Tensile Strength		Colour	Art. No.	P. Qty.
mm	in	mm	in	mm	in	N	lbs			
244.4	9.63	5.5	.22	66.7	2.62	467	105	Black	553.3200	50
381.5	15	7.6	.30	110	4.33	578	130			

DUAL CLAMP TIES



- Designed to provide parallel separation between hoses, wires, cables and tubing, protecting them from abrasion
- Mounting hole for securing bundles to a surface
- One-piece design
- Dual head is centered on the strap
- Flexible, wide straps minimizes pinching of hoses and convoluted tubing
- Straps are releasable
- Temperature range: -40 °C - +110 °C (-40 °F - +230 °F)

Length		Width		Bundle ø (each side)		Tensile Strength		Colour	Art. No.	Replaces OEM #	P. Qty.
mm	in	mm	in	mm	in	N	lbs				
331	13	12.7	.50	33.02	1.3	670	150	Black	553.3300	Freightliner - 23-12410-000	50
489	19.2			58.42	2.3					International - 3535872C1	
										Freightliner - TYCDCT110HIR	

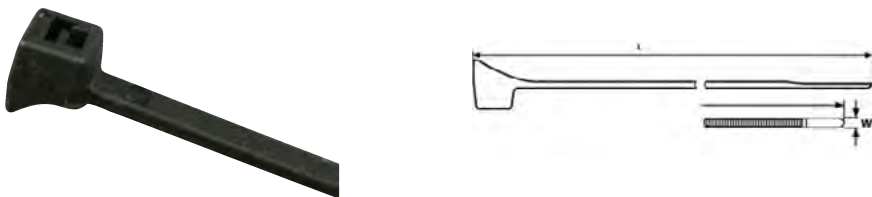
DOUBLE HEAD TIES



- Creates two loops that separate two bundles
- Can also be used to secure a bundle to an existing fixing point
- Temperature range: -40 °C - +85 °C (-40 °F - +185 °F)

Length		Width		Tensile Strength		Colour	Art. No.	P. Qty.
mm	in	mm	in	N	lbs			
305	12	4.7	.19	225	50	Black	553.3400	25

CLAMP TIES



- Triangular shaped taps extend beneath the head, allowing for optimal surface contact and complete circumferential compression to 360 degrees
- Recommended for soft rubber hose applications, including fuel, water and air vacuum lines

Black ties:

Temperature range: -40 °C - +105 °C
(-40 °F - +221 °F)

Material: Polyamide 6.6, heat stabilized

White ties:

Temperature range: -40 °C - +85 °C
(-40 °F - +185 °F)

Material: Polyamide 6.6

Length		Width		Bundle ø		Tensile Strength		Colour	Art. No.	P. Qty.
mm	in	mm	in	mm	in	N	lbs			
100	4	2.5	.10	13	.50	90	20	Black	553.4020	100
205	8	4.7	.19	45	1.77	265	60	White	553.4030	
								Black	553.4040	

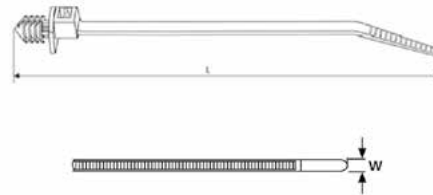
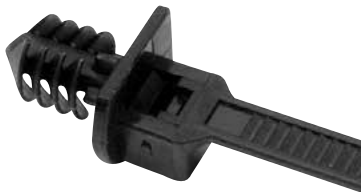
STAINLESS STEEL CABLE TIES



Length		Width		Bundle ø		Tensile Strength		Art. No.	P. Qty.
mm	in	mm	in	mm	in	N	lbs		
201	7.9	4.6	.18	50	2	670	450	553.3500	25
362	14.3			102	4			553.3505	
521	20.5			152	6			553.3510	
201	7.9	7.9	.31	50	2	1115	450	553.3540	
362	14.3			102	4			553.3550	
251	20.5			152	6			553.3560	

- Designed for use where harsh environmental conditions may adversely affect the application
- For use where corrosion, vibration, weathering, radiation and temperature extremes are a concern
- For use in virtually any indoor, outdoor and underground application
- 304 Stainless Steel suits most general purpose requirements
- Self-locking, ball bearing mechanism for quick and easy installation, either by hand or by tensioning tool
- Fully enclosed head does not allow for dirt or grit to interfere with locking mechanism
- High tensile strength for added strength and safety on heavy-duty applications

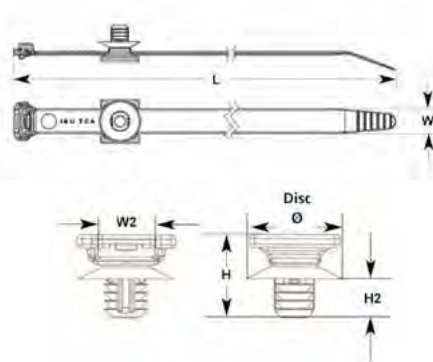
FIR MOUNT AND CABLE TIE ASSEMBLIES



Fir Tree Push Mount Tie

- Fir tree design grips to the inside of a hole
- Mount is on end of clamp
- Can be used on sheet metal, wood, and cast iron
- Temperature range: -40 °C - +105 °C (-40 °F - +221 °F)

Mounting hole ø mm (in)	Panel thickness mm (in)	Length L mm (in)	Width W mm (in)	Min. Tensile Strength N (lbs)	Max. ø bundle mm (in)	Colour	Art. No.	P. Qty.
6.5-6.6 (.25 - .26")	1.32 - 7.0 (.052 - .28")	210 (8.27")	4.7 (.19")	225 (50)	50 (1.97")	Black	553.3700	25



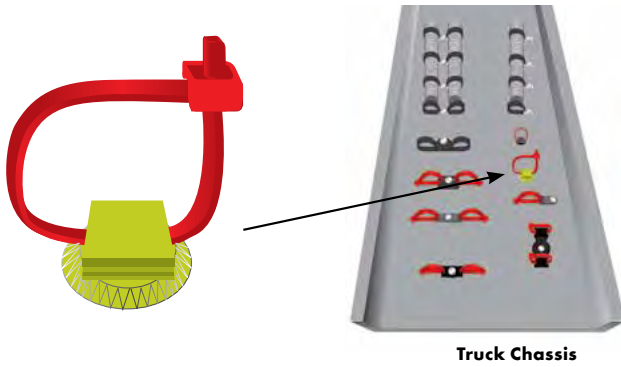
Heavy Duty Fir Tree Mounts

- Designed specifically for 120 - 250 lbs cable ties
- Optimized for up to 3 to 1 extraction versus insertion force
- "H" profile provides a broad surface contact to minimize pinching of bundles
- Will hold bundles from 3/8" - 3"
- Heavy duty fir free mounts are equipped with a friction tab that will hold the tie in the mount, allowing them to be pre-assembled before installation

* Panel thickness: 1.0 - 6.5 mm (.04 - .26")
 ** Panel thickness: 1.0 - 15.8 mm (.04 - .62")

Cable Tie		Mount				Min. Tensile Strength N (lbs)	Max. ø Bundle mm (in)	Art. No.	Similar to OEM #	P. Qty
Length L mm (in)	Width W mm (in)	Disc ø mm (in)	Width W2 mm (in)	Height H mm (in)	Height H2 mm (in)					
387.4 (15.25")	7.6 (.30")	21.6 (.85")	13 (.51")	19.1 (.75")	9 (.36")	534 (120)	101.6 (4")	553.3600*	Freightliner 23-13482-005	25
				28.4 (1.12")	18.4 (.73")			553.3605**		25

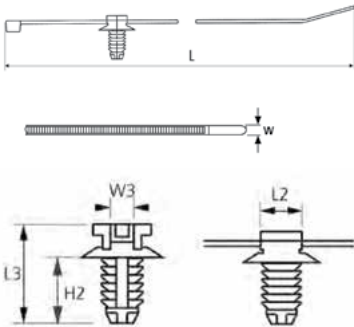
FIR MOUNT AND CABLE TIE ASSEMBLIES



Fir Tree Mount

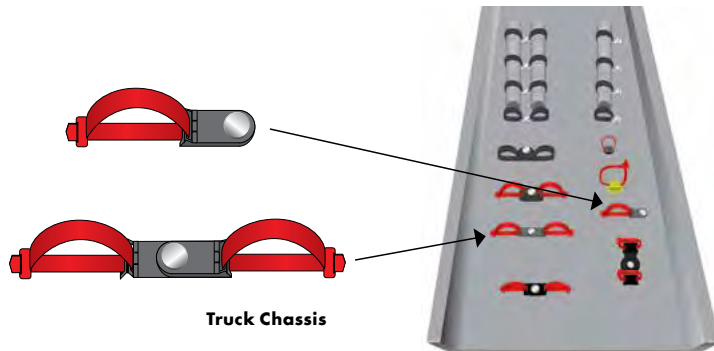
- Mount slides along strap for proper orientation
- Temperature range: -40 °C - +110 °C (-40 °F - +230 °F)
- Mounting hole \varnothing : 6.4 - 7.1 mm (.252" - .28")
- Panel thickness: 0.75 - 3.0 mm (0.028" - .193")
- Designed to require low insertion force but high extraction force
- Mounts are sold as an assembly with the cable tie
- Provides secure grip in a mounting hole
- Protects against dirt

Mounting hole = 6.4mm - 7.1mm



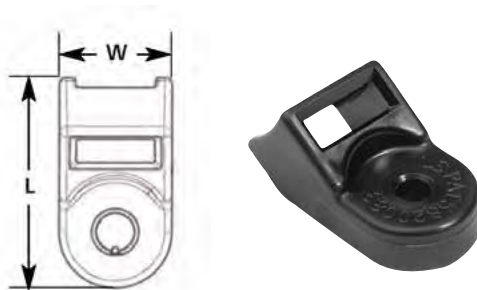
Cable Tie		Mount					Min. Tensile Strength N (lbs)	Max. \varnothing Bundle mm (in)	Art. No.	P. Qty
Length L mm (in)	Width W mm (in)	Disc \varnothing mm (in)	Length L2 mm (in)	Length L3 mm (in)	Width W3 mm (in)	Height H2 mm (in)				
203.2 (8")	4.6 (.18")	16.0 (.63")	11.6 (.46")	13.8 (.54")	5 (.20")	7.5 (.295")	225 (50)	44.5 (1.75")	553.3705	25

HEAVY DUTY CABLE TIE MOUNTS



Truck Chassis

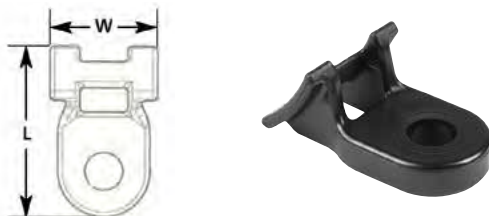
- When used with a cable tie, eliminates the need to carry multiple sizes of fixed bundle diameter clamps
- Allows for easy servicing while in the field, simply remove and replace the cable tie
- Accepts all standard cable ties up to 12.7 mm/0.5" wide
- Temperature range: -40 °C - +110 °C (-40 °F - +230 °F)



Standard Torque Cable Tie Mounts

- Contains a small tab inside the mounting hole to temporarily engage the threads
- Allows you to pre-install the mount on a stud before securing with a washer and a nut

Mounting Hole ϕ		Max Torque lb - ft	Max. ϕ for Washer/ Socket		Length L		Width W		Colour	Art. No.	P. Qty.
mm	in		mm	in	mm	in	mm	in			
4.8	.1875	9.6 lb - ft	18.5	.73	36.32	1.43	19.3	.76	Black	553.3920	25
6.4	.25										
8	.3125										



Medium Torque Cable Tie Mount

- Arched "H" profile of saddle surface allows for broad surface contact with the bundle, minimizing pinching and crushing of bundles
- Adjusts to a wide variety of bundle diameters

Mounting Hole ϕ		Max Torque lb - ft	Max. ϕ for Washer/ Socket		Length L		Width W		Colour	Art. No.	P. Qty.
mm	in		mm	in	mm	in	mm	in			
9.5	.375	40 lb - ft	23	.90	46	1.8	24	.96	Black	553.3900	25

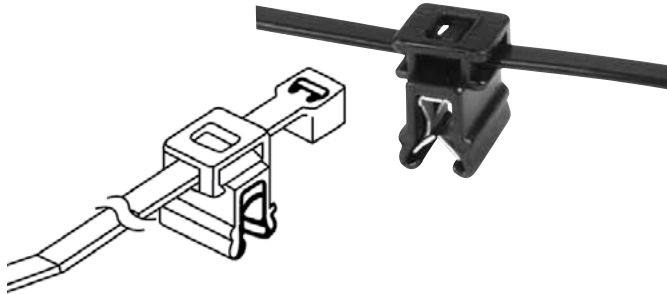


High-Torque Cable Tie Mount

- Designed for use with power-assisted impact wrenches
- Moulded with metal bushing to withstand forces required to tighten a grade 8 bolt
- Arched "H" profile of saddle surface allows for broad surface contact with the bundle, minimizing pinching and crushing of bundles
- Adjusts to a wide variety of bundle diameters

Mounting Hole ϕ		Max Torque lb - ft	Max. ϕ for Washer/ Socket		Length L		Width W		Colour	Art. No.	P. Qty.
mm	in		mm	in	mm	in	mm	in			
9.5	.375	114 lb - ft	32	1.26	47	1.85	25	.99	Black	553.3905	25

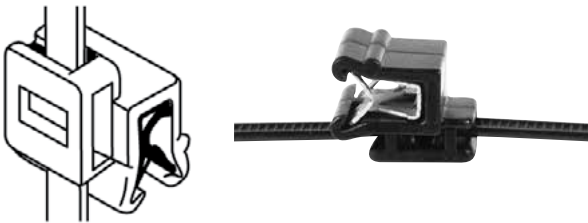
CABLE TIES WITH EDGE CLIP MOUNTS



Two-Piece Edge Clip and Cable Tie

- Panel thickness: 1 - 3 mm (.039 - .117")
- Temperature range: -40 °C - +105 °C (-40 °F - +221 °F)
- Outside strap serrations to reduce bundle chafing
- Clip is perpendicular to tie
- Tie is mounted on top of clip
- Designed to route bundles by securing them to the edge of a plastic or metal sheet without the need for a mounting hole
- Easy to secure
- Requires high extraction force due to the integrated metal clamp that holds the edge clip in place
- Cable tie temperature range: -40 °C - +105 °C (-40 °F - +221 °F)
- Edge clip temperature range: -40 °C - +110 °C (-40 °F - +230 °F)

Length		ø Bundle		Tensile Strength		Colour	Art. No.	P. Qty.
mm	in.	mm	in.	N	lbs.			
200	7.9	45	1.8	225	50	Black	553.3805	25

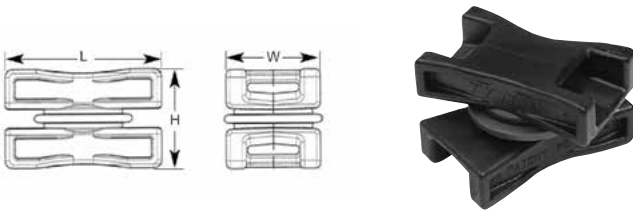


Two-Piece Edge Clip and Cable Tie

- With inside serrations on strap
- Clip is perpendicular to tie
- Tie is mounted on side of clip

Length		ø Bundle		Tensile Strength		Colour	Art. No.	P. Qty.
mm	in.	mm	in.	N	lbs.			
200	7.9	45	1.8	225	50	Black	553.3800	25

DUAL SWIVEL SADDLE SPACER FOR LARGE BUNDLES



- Saddle spacers are installed between two bundles to separate them and prevent chafing and wear
- Mounts are easily rotated by hand, allowing bundles to be crossed at any angle

Dual Swivel Saddle Spacer for large bundles

- Accommodates cable ties up to 1/2" wide
- Accepts bundle diameters from .625 to 6"
- 23.6 mm (.93") separation between bundles
- Temperature range: -40 °C - +105 °C (-40 °F - 221 °F)

Length L mm (in)	Width W mm (in)	Height H mm (in)	Bundle ø	Minimum Extraction Strength	Colour	Art. No.	Replaces OEM #	P. Qty.
40.6 (1.6")	25.4 (1.0")	23.6 (.93")	15.8 - 152.4 (.625 - 6")	1112 N 250 lbs	Black	553.3855	Freightliner - 23-12886-000 International Truck - 3554554C1	25
23.6 (0.93")	20.3 (0.80")	18 (.70")	6-76 (.25 - 3")	445 N 100 lbs		553.3850		

CABLE TIE HOLDER



From left to right:

Compartment 1: 7 cm x 8 cm (2 3/4" x 3 1/8")

Compartment 2: 10 cm x 16 cm (4" x 6 1/4")

Compartment 3: 13 cm x 27 cm
(5 1/8" x 10 5/8")

Compartment 4: 15 cm x 32.5 cm
(5 7/8" x 12 3/4")

Art. No. 502.05020

Contents (84 Pieces):

Assortment of Prefix 721 bulbs

- Suitable for wall mounting or ORSY cabinet
- Stock levels at-a-glance
- Easy retrieval
- Mounting hardware included
- Use with wire ties, Prefix 553
- Dimensions: 45 cm x 32.5 cm x 5 cm
(16 1/2" x 12 3/4" x 2" deep)

Note: It is recommended to store the wire ties in their original bags to prevent them from becoming brittle

ASSORTMENTS



Art. No. 965.55300

Heavy Duty Cable Tie & Accessory Assortment

Contents (125 Pieces):

5 types of Prefix 553 cable ties



Art. No. 965.553

Black Wire Tie Assortment

Contents (500 Pieces):

8 sizes of wire ties size range: 4" to 15"



Art. No. 965.553550

Cargo Cable Tie Assortment

Contents (550 Pieces):

6 sizes of cable ties size range: 4" to 15"



Art. No. 965.553600

8" Colour Cable Tie Assortment

Contents (600 Pieces):

6 colours of 8" cable ties



Art. No. 965.553601

11" Colour Cable Tie Assortment

Contents (600 Pieces):

6 colours of 11" cable ties

CABLE TIE MOUNTS



Cable Tie Width (mm)	Plate Size (L x W)	Art. No.	P. Qty
2.5	25 x 25	502.625	50
3.6	19 x 19	502.636	
4.8	28 x 28	502.648	
6.5	25 x 25	502.665	

For securing cable ties to flat surfaces

- Self-adhesive
- Adheres to paint, plastic, wood, plaster, synthetic material, paper, etc.
- Surface must be dust, water and grease-free for adhesion
- Made of polyamide 6.6
- Temperature range from +5 °C to +50 °C (+41 °F to +122 °F)

WIRE LOOM CLIP



Diameter (inches)	Art. No.	P. Qty
1/4	543.14	50
3/8	543.38	
1/2	543.12	
3/4	543.34	
1	543.1	

Durable nylon plastic (natural colour)

WIRE LOOM ROUTING CLIP



Type	For conduit size		GM No.	Art. No.	P. Qty
	I. D.	O. D.			
	11/32"	1/2"	8911473	773.14544	50
	13/32"	19/32"	8911497	773.14545	
1	1/2"	11/16"	8911472	773.14546	25
1	3/4"	1"	3816659	773.14547	

Durable black nylon

ROUTING CLIP



A quick, economical method of fastening wires, tubes, hoses, or rods from 1/4" to 1" diameter to metal, plastic or any other surface ranging from 1/32" to 1/8" thickness. Clips are molded of durable, black nylon plastic. They snap into 1/4" diameter holes and are held firmly in place by flexible "snubber tips" which compensate for variation in wall thickness.

Tube/ Hose/ Wire Outside Diameter	Clip Overall Height	Clip Height Above Panel	Art. No.	P. Qty
1/2"	1-1/16	5/8"	773.14531	50
3/4"	1-5/16	7/8"	773.14533	

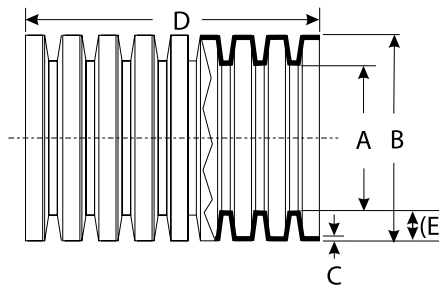
ENGINE COMPARTMENT WIRE CLIPS



Art. No. 773.12729 - P. Qty 25

For 1/4" diameter tube - 1/4" hole

SPLIT WIRE LOOM



- Split wire loom is constructed of heavy duty polyethylene which is resistant to various elements including oil, gas, etc. and temperatures up to 93 °C (200 °F)
- Full length slit accommodates quick and effortless wire insertion

Nominal ID Diameter	Art. No.	Dimension "A" ID		Dimension "B" OD		Dim. "C" Wall Min	Dim (E) Corr Ht. Ref.
		Min.	Max.	Min.	Max.		
1/4"	773.14	0.237	0.266	0.372	0.400	0.004	0.067
3/8"	773.38	0.341	0.980	0.496	0.526	0.005	0.075
1/2"	773.12	0.473	0.516	0.664	0.700	0.005	0.094
5/8"	773.58	0.603	0.639	0.802	0.837	0.005	0.099
3/4"	773.34	0.707	0.759	0.950	0.989	0.005	0.118
1"	773.1	1.020	1.069	1.251	1.304	0.006	0.117
1 1/2"	773.112	1.566	1.647	1.867	1.947	0.006	0.150

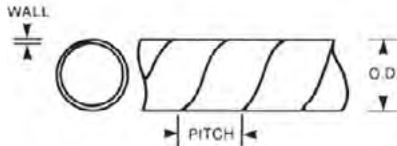
JUMBO SPIRAL WRAP



- U.V. resistant
- Remains flexible to -40 °C (-40 °F)
- Bevelled edges

Inner Dia.	Colour	Art. No.	Qty.
1 1/4"	Black	779.114	66' (20.11 m)
1 1/2"		779.112	

SPIRAL WRAP



Features:

- Allows for flexible protection of cables and hoses
- Bevelled inner edges to prevent damage
- Reusable and resistant to most chemicals

Application:

- Control cabinet doors: protect cable from friction when one end of the cable is fastened within the panel and the other is fastened to the panel door
- Robotics: Protects hoses and wires during movement
- Pneumatic hoses: protects hoses from abrasion while on semi-trucks and other vehicles
- Spark plug wires: lengthens the life of spark plug wires by reducing abrasion to wire insulation

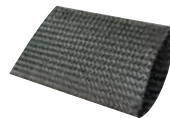
Installation:

- Gapped insulation, with space between the sheathing, allows wire breakouts and keeps the bundle flexible
- Butted installation, with the sheathing completely insulating the bundle, provides superior abrasion resistance and additional rigidity

Material	Polyethylene (PE)
Flammable	Yes
Temperature Range	-40 C - +100 C -40 F - +212 F
ROHS Conformity	Yes

Inner Diameter		Wall Thickness		Pitch		Min. \varnothing Bundle Dia.		Max. \varnothing Bundle Dia.		Colour	Art. No.	P. Qty.
mm	in	mm	in	mm	in	mm	in	mm	in			
6.35	.250"	1.14	.045"	9.53	.375"	4.75	.1875"	50.8	2"	Black	779.14	100' (30.48 m)
9.53	.375"	1.32	.052"	11.13	.438"	7.92	.3125"	76.2	3"		779.38	
12.7	.5"	1.57	.062"	12.7	.5"	9.52	.375"	102	4"		779.12	
19.05	.750"	1.65	.065"	19.05	.750"	19.10	.750"	127	5"		779.34	
25.4	1"	2.41	.095"	25.4	1"	25.4	1"	178	7"		779.1	

BRAIDED CABLE SLEEVES



- No fraying!
- Can be cut cold - no special tool required!
- A specially applied surface coating prevents undesirable fraying of cut ends
- Excellent protection against abrasion and rodents
- Excellent resistance to chemicals
- High quality braided cable sleeve for protection or bundling of cables, pipes, wires and hoses in cable fabrication in the automotive and electrical industry and in switch and system construction

Application:

Cargo:

- Heat protection of components (brake lines, etc.)
- Bundling of cable
- Chemical protection

Metal & Industrial:

- Abrasion protection of cables, components, etc.
- Chemical protection
- Cable protection

Installation/Electrical:

- Connector protection, transitions
- Heat protection of components
- Connection of satellite and video equipment
- Transition from corrugated conduit to cable
- Optical bundling

Technical Data	
Colour	Black
Material	Polyamide 6.6 <ul style="list-style-type: none"> • Free of halogens • Free of cadmium • Free of phosphor
Temperature Range	-55 °C to +125 °C (-67 °F to +257 °F)
Flammability	Self extinguishing according to UL94, DIN 75200, FMVSS 302 and DIN 5510

Nominal width in mm	Bundle dia. in mm	Art. No.	Qty. / m
6	4.0 - 10.0	771.500030	20
12	10.0 - 14.0	771.490012	15
16	14.0 - 24.0	771.480016	15
30	26.0 - 34.0	771.460030	10

SHRINK BRAIDED SLEEVE



- A heat shrinkable braided hose made of extremely abrasion resistant fibre
- Very good shrinking behaviour
- No seam movement while shrinking
- Offers excellent protection

Application:

Cargo:

- Heat protection of components (brake lines, etc.)
- Bundling of cable
- Chemical protection

Metal & Industrial:

- Abrasion protection of cables, components, etc.
- Extremely heat resistant (150 °C / 302 °F)
- Chemical protection
- Cable protection

Installation/Electrical:

- Connector protection, transitions
- Heat protection of components
- Connection of satellite and video equipment
- Transition from corrugated conduit to cable

Technical Data	
Colour	Black
Material	Polyester PET <ul style="list-style-type: none"> • Free of halogens • Free of cadmium • Free of phosphor
Temperature Range	-40 °C to +150 °C (-40 °F to 302 °F)
Shrink Ratio	2:1
Flammability	Self extinguishing according to HB UL94

Application range (mm)	Width after shrinking (mm)	Art. No.	Qty. / m
6-12	6	771.550012	5
12.5-25	12	771.560025	
15-30	15	771.570030	

COLOURED HEAT SHRINK TUBE



- Protects against oil, fuel, salt, grease, animal acids and other chemicals
- Acts as strain relief between the cable and connector and prevents abrasion
- Ideal for general purpose application
- Sealant free single wall construction
- Conforms to DOD Mil-I-23053/6 Class 1& 2, also meets UL-224 125 °C specs

Expanded Dia.	Shrunk Dia.	Use with	Length	Yellow Art. No.	White Art. No.	P. Qty
1/8"	1/16"	18-14GA	6"	771.871.032	773.873.032	6
3/16"	3/32"	14-10GA		771.871.048	773.873.048	
1/4"	1/8"	12-8GA		771.871.064	773.873.064	
3/8"	3/16"	10-6GA		771.871.095	-	
1/2"	1/4"	8-2GA		-	771.873.127	
3/4"	3/8"	1-2/0GA		-	771.873.190	
1"	1/2"	1/0-4/0GA		771.871.250	771.873.250	

Technical Data	
Material	Polyolefin
Shrink Ratio	2:1
Wall Thickness After Shrinking	1/32"
Water Proof	No
Meltable Sealant	No
UL Approval	Yes # 224
Operating temperature	-55 ° to +135 °C; -67 ° to +275 °F

HEAT SHRINK TUBING



Technical Information	
Tensile strength	2450 psi
Ultimate elongation	475%
Heat aging (adhesive softens)	135 °C (275 °F)
Cold flex	-35 °C (-31 °F)
Dielectric strength (outer wall)	500 V/mil
Dielectric withstand	1000 Volts AC
Current leakage	< 0.250 microamps

With high flow adhesive

- Adhesive lined.
- Semi-rigid polyolefin.
- 4:1 shrink ratio (tubing will shrink to 25% of its original size; final wall thickness is dependent on the amount of shrinkage).
- Provides excellent strain relief.
- Puncture resistant.
- Resistant to salt water, automotive fluids and corrosive chemicals
- Not affected by severe vibration, extreme temperature changes, moisture or automotive fluids.
- The clear lining is excellent

for applications that require inspection of the contained component.

Application:

- Ideal for applications requiring moisture sealing, mechanical protection and strain relief.
- Adhesive lining is compatible with typical wire insulation.
- Excellent for: RV, truck, trailer, tractor, heavy machinery, marine wire splices, inline components, fusible links and terminals.

Size	Minimum expanded I.D.	Maximum recovered I.D.	Nominal recovered melt wall	Minimum recovered outer wall	Colour Code	Length	Art. No.	P. Qty.
3/16"	0.220"	0.045"	0.030"	0.027"	White	6"	619.5406	10
1/4"	0.300"	0.060"	0.033"	0.028"	Red		619.5416	
5/16"	0.350"	0.080"	0.038"	0.033"	Blue		619.5426	
11/16"	0.450"	0.105"	0.043"	0.053"	Yellow		619.5436	

HEAT SHRINK TUBING



- Netted radially, polyolefin base
- Insulation material: Class A
- Provides electrical insulation and corrosion protection
- Resistant against solvents and chemicals
- Does not melt
- No internal glue

Int. Diameter (In)	Shrunk Diameter (mm)	Int. Diameter (mm)	Wall Thickness (mm)	Length	Art. No.
3/32	2.4	1.2	0.51	8 Feet (comes in a bag)	771.0024
1/8	3.2	1.6			771.0032
3/16	4.8	2.4			771.0048
1/4	6.4	3.2	0.64		771.0064
3/8	9.5	4.8			771.0095
1/2	12.7	6.4			771.0127
3/32	2.4	1.2	0.51	10 Meters (comes in a box)	771.024
1/8	3.2	1.6			771.032
3/16	4.8	2.4			771.048
1/4	6.4	3.2	0.64		771.064
3/8	9.5	4.8			771.095
1/2	12.7	6.4			0.69
3/4	19.0	9.6	0.76	771.190	
1	25.4	12.7		0.89	

DUAL WALL HEAT SHRINK TUBING



- Adhesive-lined flexible polyolefin
- Meets UL/CSA specifications
- Meets military specifications
- Flame retardant
- Internal layer of special thermoplastic adhesive
- Rated for operation from -55 °C to +110 °C (-67 °F to 230 °F)

Applications:

- Electronic components/wiring
- Wire splices: automotive, truck and marine
- Wire bundles
- Used on braided-shield pigtails

Shrink Ratio: Tubing has a 3:1 shrink ratio (Black is 2.5:1). When fully recovered, the tubing will shrink to 33 % of its original diameter. The recovered wall thickness of the tubing is proportional to the degree of recovery.

Package Size = 10 x 6" lengths

Size (In)	Description	Expanded Diameter	Shrunk Diameter	Use With Gauge	Art. No.	
1/8"X6"	Black	1/8"	3/64"	24-18 Ga.	775.018	
3/16"X6"		3/16"	1/16"	20-12 Ga.	775.0316	
1/4"X6"		1/4"	3/32"	18-10 Ga.	775.014	
3/8"X6"		3/8"	1/8"	8-6 Ga.	775.038	
5/16"X6"		5/16"	3/16"		775.0516	
1/2"X6"		1/2"	3/16"	6-2 Ga.	775.012	
3/4"X6"		3/4"	1/4"	4-2/0 Ga.	775.034	
1"X6"		1"	3/8"	2-4/0 Ga.	775.01	
1/8"X6"		Red	1/8"	3/64"	24-18 Ga.	776.018
3/16"X6"	3/16"		1/16"	20-12 Ga.	776.0316	
1/4"X6"	1/4"		3/32"	18-10 Ga.	776.014	
3/8"X6"	3/8"		1/8"	8-6 Ga.	776.038	
5/16"X6"	5/16"		3/16"		776.0516	
1/2"X6"	1/2"		3/16"	6-2 Ga.	776.012	
3/4"X6"	3/4"		1/4"	4-2/0 Ga.	776.034	
1"X6"	1"		3/8"	2-4/0 Ga.	776.01	
1/8"X6"	Clear		1/8"	3/64"	24-18 Ga.	777.018
3/16"X6"		3/16"	1/16"	20-12 Ga.	777.0316	
1/4"X6"		1/4"	3/32"	18-10 Ga.	777.014	
3/8"X6"		3/8"	1/8"	8-6 Ga.	777.038	
1/2"X6"		1/2"	3/16"	6-2 Ga.	777.012	
3/4"X6"		3/4"	1/4"	4-2/0 Ga.	777.034	
1"X6"		1"	3/8"	2-4/0 Ga.	777.01	
1/8"X6"		Rigid	1/8"	3/64"	24-18 Ga.	778.018
3/16"X6"			3/16"	1/16"	20-12 Ga.	778.0316
1/4"X6"	1/4"		3/32"	18-10 Ga.	778.014	
3/8"X6"	3/8"		1/8"	8-6 Ga.	778.038	
1/2"X6"	1/2"		3/16"	6-2 Ga.	778.012	
3/4"X6"	3/4"		1/4"	4-2/0 Ga.	778.034	
1"X6"	1"		3/8"	2-4/0 Ga.	778.01	

HEAT GUN FOR HEAT SHRINK CONNECTORS



Art. No. 555.1

- Suitable for heat shrink tubing, spot heating, laboratories, etc., as an instant heat source
- Built-in safety lock with improved easy to use self-ignition system
- Flame temperature up to approximately 1,300 °C (2,400 °F)
- Wind-proof flame and water-resistant ignition
- Compact size, fits into small tool boxes, bag, etc.
- Runs on butane fuel; built-in fuel level viewing window
- Child-resistant ignition system

RUBBER WIRE CONDUIT

Art. No. 771.8



Int. Diameter: 8 mm, Wall Thickness: 0.7 mm

- Protects wire and electrical connections
- PVC non-braided
- Resistant to aging
- Non-flammable
- According to DIN 40 621 and ASTM

ASSORTMENTS



Art. No. 965.7756

Dual Wall Heat Shrink Assortment

Contents (72 Pieces):

6 sizes of dual wall heat shrink tubing
Size range: 1/8" to 1"



Art. No. 964.7710

Shrink Tube Assortment

Contents (130 Pieces):

8 sizes of heat shrink tubing
Size range: 2.4 mm to 25.4 mm

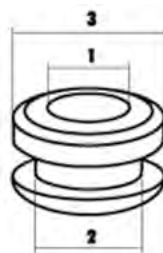
RUBBER GROMMETS

- Material: PVC, Rubber
- Colour: Black
- Resistant to corrosion, weathering, aging, ozone, oil, petrol and solvents



1 Bore Diameter (mm)	2 Groove Width (mm)	3 Outside Diameter (mm)	Art. No.	P. Qty
6	10	14	561.6636	25
8	11	16	561.6638	20
10	14	18	561.6640	25
12	17	20	561.6642	20

1 Bore Diameter (mm)	2 Groove Width (mm)	3 Outside Diameter (mm)	Art. No.	P. Qty
7	8	10	561.110	25
4	9	11	561.6632	100
4	7	9	561.6634	
6	10	13	561.6646	
9	11	16	561.6648	
10	13	18	561.6650	50
12	20	25	561.6652	25
13	22	28	561.6662	
16	24	30	561.6663	10
21	31	38	561.6665	
12	14	17	561.6679	
21	30	34	561.6681	



1 Bore Diameter (in)	2 Groove Width (in)	3 Outside Diameter (in)	Overall Thickness	Art. No.	P. Qty
3/16	1/16	5/16	1/4	561.4413	25
1/4	1/16	3/8	3/16	561.16454	
1/4	1/16	7/16	3/16	561.4417	
5/16	1/16	7/16	3/16	561.4419	
3/8	1/16	1/2	9/32	561.4423	
3/8	1/16	1 - 1/4	1/4	561.4425	
5/8	1/8	1 - 1/8	3/8	561.4431	
3/4	1/4	1 - 5/8	7/16	561.4436	



Art. No. 964.5616

Rubber Grommet Assortment Contents (555 Pieces):
8 sizes of rubber grommets
Size range: 6 mm to 31 mm



Art. No. 964.56161

Rubber Grommet Assortment Contents (200 Pieces):
12 sizes of rubber grommets
Size range: 6 mm to 31 mm

AUTOMOTIVE FUSES

ATO® Blade Fuses



Colour	Amps	Art. No.	P.Qty
Magenta	3 AMP	731.003	20
Green	4 AMP	731.004	
Orange	5 AMP	731.005	
Brown	7.5 AMP	731.0075	
Red	10 AMP	731.010	
Blue	15 AMP	731.015	
Yellow	20 AMP	731.020	
Clear	25 AMP	731.025	
Teal	30 AMP	731.030	
Pink	40 AMP	731.040	

MINI® Blade Fuses



Colour	Amps	Art. No.	P.Qty
Grey	2 AMP	731.0021	20
Purple	3 AMP	731.0031	
Tan	5 AMP	731.0051	
Brown	7.5 AMP	731.00751	
Red	10 AMP	731.0101	
Blue	15 AMP	731.0151	
Yellow	20 AMP	731.0201	
Clear	25 AMP	731.0251	
Green	30 AMP	731.0301	

MAXI® Blade Fuses



Colour	Amps	Art. No.	P.Qty
Brown	20 AMP	731.1201	5
Green	30 AMP	731.1301	
Yellow	40 AMP	731.1401	
Red	50 AMP	731.1501	
Blue	60 AMP	731.1601	
Clear	80 AMP	731.1801	

Ultra Mini Fusibles - Type ATO



Colour	Amps	Art. No.	P.Qty
Orange	5 AMP	731.2101	25
Brown	7.5 AMP	731.2201	
Red	10 AMP	731.2301	
Blue	15 AMP	731.2401	
Yellow	20 AMP	731.2501	
Clear	25 AMP	731.2601	
Green	30 AMP	731.2701	

ATO® MINI Fuse Block Tap For use with MINI fuses

Art. No. 731.17686 - P. Qty 25

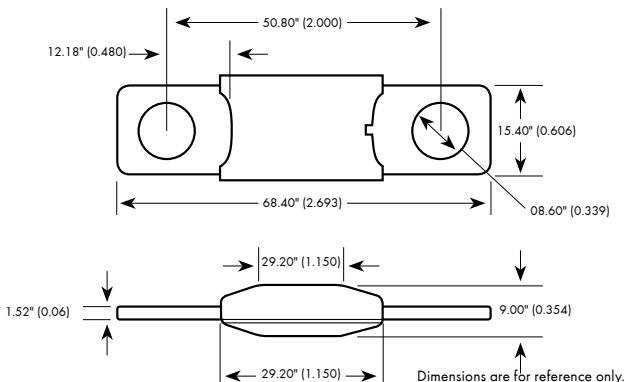


ATO® Fuse Block Tap For use with ATO fuses

Art. No. 731.14474 - P. Qty 25



BOLT-IN FUSES



For high current applications.

- Current Rating: 100-300A
- Voltage Rating: 32VDC
- Interrupt Rating: 1,000A @ 32VDC
- Housing Material: UL-Rated 94V-0 thermoplastic
- Terminal Material: Cooper
- Mounting: M8 or 5/16-18 or less studs on 2.00 in (50.8mm) centres.
- Marking: Colour-coded amperage ratings.

AMP	Art. No.	P. Qty
100	731.31100	5
125	731.31125	
150	731.31150	
175	731.31175	
200	731.31200	
250	731.31250	
300	731.31300	

FLAT PUSH-IN FUSE MICRO 2 SILVER



Silver-plated version for improved heat removal

OEM quality

Max. amperage	Colour	Max. nominal voltage	Min./Max. operating temperature	Surface of contacts	Art. No.	P. Qty.
5 A	Tan	32 V/DC	-40 to 125 °C	Silver-plated	731.31305	10
7.5 A	Brown				731.313075	
10 A	Red				731.31310	
15 A	Blue				731.31315	
20 A	Yellow				731.31320	
25 A	Clear				731.31325	
30 A	Green				731.31330	

FLAT PUSH-IN FUSE MICRO 3 SILVER



Silver-plated version for improved heat removal

OEM quality

Max. amperage	Colour	Max. nominal voltage	Min./Max. operating temperature	Surface of contacts	Art. No.	P. Qty.
5 A	Tan	32 V/DC	-40 to 125 °C	Silver-plated	731.31505	10
7.5 A	Brown				731.315075	
10 A	Red				731.31510	
15 A	Blue				731.31515	



Art. No. 964.5616

Micro 2/3 Fuse Assortment

Contents (110 Pieces):

10 each of all Micro 2 and Micro 3 fuses.

AUTOMOTIVE FUSES

Glass Tube Fuses



Description	Amps	Art. No.	P.Qty
Auto Fuse Sfe	4 AMP	729.704	20
	7.5 AMP	729.7075	
	9 AMP	729.709	
	20 AMP	729.720	
	30 AMP	729.730	
Agc Fuse	2 AMP - 250V	729.902	
	3 AMP	729.903	
	5 AMP	729.905	
	10 AMP	729.910	
	15 AMP	729.915	
	20 AMP	729.920	
	25 AMP	729.925	
	30 AMP	729.930	

Thermoplast Fuses M25



Colour	Amps	Art. No.	P.Qty
Yellow	5AMP	730.25.5	20
White	8AMP	730.25.8	
Red	16AMP	730.25.161	
Blue	25AMP	730.25.25	
Grey	40AMP	730.25.40	

Circuit Breaker 12V



Description	Amps	Art. No.	P.Qty
Circuit Breaker 12V	10 AMP	729.18518	5
	15 AMP	729.18519	
	20 AMP	729.18520	
	30 AMP	729.18521	
	40 AMP	729.18522	

The lower overall height reduction of the Low Profile JCASE fuses allows for more space and weight savings and also allows for a shorter male blade terminal, saving additional weight and material savings in fuse box designs.

Low Profile JCASE fuses



Low Profile JCASE fuses: Technical Data	
Voltage	58 V
Interrupting Rating	1000A @ 58 V
Operating temperature	-40°C to +125°C
Insertion Force	53N Max (12 lb)
Extraction Force	9N Min (2 lb)

Colour	Amps	Art. No.	P. Qty
Blue	20 AMP	730.5020	5
White	25 AMP	730.5025	
Pink	30 AMP	730.5030	
Green	40 AMP	730.5040	
Red	50 AMP	730.5050	
Yellow	60 AMP	730.5060	

PAL FLK-MF FLK-M106 Mini Fuses



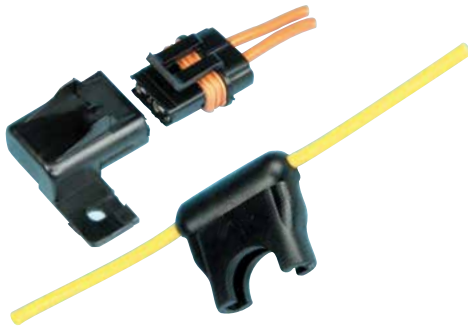
Colour	Amps	Art. No.	P.Qty
Blue	20 AMP	730.2020	5
Pink	30 AMP	730.2030	
Green	40 AMP	730.2040	
Red	50 AMP	730.2050	
Yellow	60 AMP	730.2060	

PAL FLK-F FLK-F101 - F series



Colour	Amps	Art. No.	P.Qty
Pink	30 AMP	730.1030	5
Green	40 AMP	730.1040	
Red	50 AMP	730.1050	

ATO IN-LINE FUSE HOLDERS



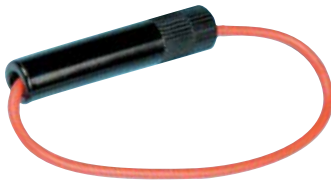
Art. No. 729.110 - P. Qty 2

- Wire Gauge: 12
- Convenient screw mount

Art. No. 729.111 - P. Qty 2

- Wire Gauge: 16

GLASS FUSE HOLDER



Art. No. 729.0018 - P. Qty 5

- Spring loaded
- Equipped with SFE Fuse Amperage: 20
- Wire Gauge: 14
- Uses 729.9 style fuses from 1 amp to 35 amp

NYLON CRIMP TYPE WATERPROOF IN-LINE FUSE HOLDER



1/4 x 1 1/4", 6.35 x 31.8 mm

Art. No. 729.006 - P. Qty 2

- Ideal for harsh environments such as water, salt spray, ultraviolet light, ozone, -40 °C (-40 °F) temperatures and can withstand many organic solvents and rigorous shock and vibration
- Accepts 12 to 18 GA wire leads
- One piece, highly visible yellow, moulded thermoplastic
- Uses 729.9 style fuses from 1 amp to 35 amp
- ROHS compliant

MAXI BLADE FUSE HOLDER



Art. No. 729.11150 - P. Qty 2

- 8 GA fit to 60 Amp
- Water resistant
- Dimensions: 6" (Side); 80mm (L) x 53mm (W)
- Operating temperature: -40°C to +85°C (-40°F to +185°F)

Technical Data	
Rated current	32 V DC
Insulation resistance at 500 V DC	100M Ω min.
Contact resistance	50 m max.
Dielectric strength	1,000V AC, 1 min.
Body material	Red & black thermo-plastics

ADD-A-CIRCUIT FUSE HOLDER

Art. No. 729.1200 - P. Qty 5

Add-A-Circuit MINI® Style

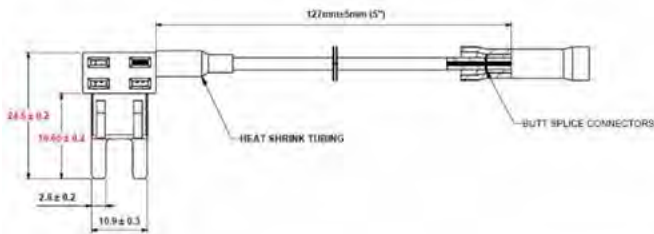
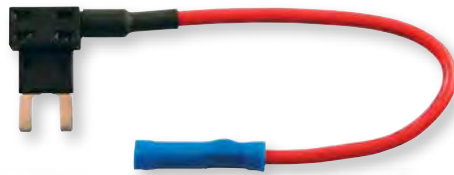
Allows quick and easy installation of additional accessories without the need for splicing

Features:

- Turns one fuse slot into two while providing protection for both circuits
- No cutting of factory wires

Applications:

- Outfitting shops (stereo, alarm, remote start)
- Public work yards



Art. No. 729.1210 - P. Qty 5

Add-A-Circuit ATO® Style

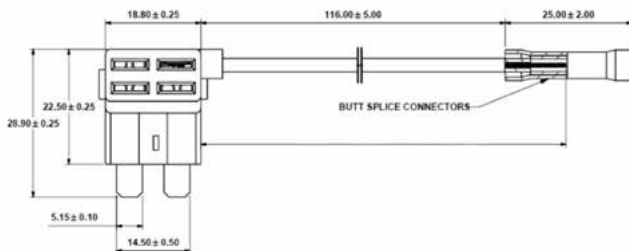
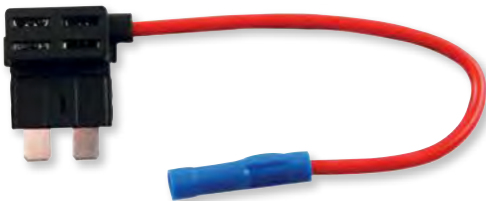
Allows quick and easy installation of additional accessories without the need for splicing

Features:

- Turns one fuse slot into two while providing protection for both circuits
- No cutting of factory wires

Applications:

- Outfitting shops (stereo, alarm, remote start)
- Public work yards



AUTO MINI RELAY BOSCH-STYLE 40AMP 12V

Art. No. 734.12011



40 AMP Mini relay with mounting bracket and quick-connect terminals is the alarm market's friend. Extremely versatile and conservatively rated for the longest life.

Technical Data	
Voltage	12 V
Current	40 A
Enclosure	Standard cover w/ bracket
Suppression	None
Contact material	Hard Silver
Mechanical life	1,000,000 cycles
Operating temperature	-40°C to +100°C
Duty cycle	Continuous

FUEL PUMP RELAY BYPASS MASTER KIT



Art. No. 556.19038

The relay bypass switch plugs in place of the fuel pump relay and provides direct control over the fuel pump circuit. Quickly troubleshoot fuel pump relay circuits.

Relay Bypass Kit features six relay switches which are designed to plug in place of the fuel pump relay and provide direct control over the fuel pump circuit. It can be used to actuate the fuel pump when the engine is not running, allowing the fuel pressure to be read, or is often used to bypass the fuel pump control to empty the contents of the fuel tank. Operating Range: 20 Amp Continuous, 30 Amp Surge (12V)

Features and Benefits:

- Actuates fuel pump when the engine is not running
- Plugs in place of relay
- Can be used in any relay circuit with matching pin layouts.
- Controls fuel pump independent of "key on" systems
- Covers most Domestic, Japanese, Korean, and German applications
- Operating range: 20 Amp continuous, 30 Amp surge (12V)

The master set includes:

Small Spade Relay
2000 and Newer Domestic
Korean and Japanese



Med. Spade Relay
1970-2009
Domestic and Japanese



Large Spade Relay
1970-2009
Volkswagen
1999-2005
Audi 2004-2006



Small Rectangular Relay
1985-2008
GM, Chrysler and
Japanese



Square Relay
BMW 1995-2006



Large Rectangular Relay
1995-2007
GM, Chrysler and Japanese



ASSORTMENTS



Art. No. 964.731

ATO Fuse Assortment Contents (160 Pieces):

8 types of ATO fuses,
Amp. range: 3 to 30 A



Art. No. 965.731

Blade Type Fuse Assortment Contents (175 Pieces):

21 types of ATO, Mini & Maxi blade type fuses
Amp. range: 3 to 60 A



Art. No. 965.731001

Fuse & Mini Fuse Assortment Contents (180 Pieces):

27 types of Micro 2, micro 3, Mini & Ultra Mini fuses

HEAT SHRINK CONNECTORS

Why Use Heat Shrink Terminals?

Over time, wires can corrode which reduces the current carrying capacity of the electrical system. Adverse conditions can cause the wire or wires to pull-out of the connector. Electrical systems are breached when repairs are made with inferior, unsealed electrical connections.

MULTIPLE WIRE CONNECTORS



555.5720



555.5716



555.5714



555.5710

Hydralink Butt Connectors - Join two wires to one.



Features:

- Colour dash on tubing indicates the wire gauge for the connector
- Colour stripes on the connector indicate which crimp die to use
- Tubing has an active adhesive that seals between multiple wires.

Hydralink Connectors					
Wire Gauge	Tubing Colour	Colour stripe on conn.	Crimp Die (insulated)	Art. No.	P. Qty.
24-22 AWG	Clear/White Dashes	Side 1: White Side 2: Red	Yellow (24-22 AWG) Red (20-18 AWG)	555.5720	25
20-18 AWG	Clear/Red Dashes	Side 1: Red Side 2: Blue	Red (20-18 AWG) Blue (16-14 AWG)	555.5716	
16-14 AWG	Clear/Blue Dashes	Side 1: Blue Side 2: Yellow	Blue (16-14 AWG) Yellow (12-10 AWG)	555.5714	
12-10 AWG	Clear/Yellow Dashes	Side 1: Yellow Side 2: Red	Yellow (12-10 AWG) Red (8 AWG)	555.5710	



555.82214



555.81810

Closed-End Connectors - Join two to four wires



Features:

- Closed end connectors are crimped on end.
- Provides a safe area to avoid corrosion and/or vibration problems.
- Can be used to replace wire nuts.
- Tubing has an active adhesive that seals multiple wires and eliminates wire pull-out.

Closed End Connectors			
Wire Gauge	Tubing Colour	Art. No.	P. Qty.
22-14 AWG	Clear/Blue Dashes	555.82214	25
14-10 AWG	Clear/Yellow Dashes	555.81810	

HEAT SHRINK CONNECTORS

CRIMP & SOLDER CONNECTORS



Sealed crimp & solder connectors are crimped for mechanical reliability, soldered for superior strength and conductivity, and sealed for maximum durability.



- Features:**
- These connectors are crimped for mechanical reliability, soldered for superior strength and conductivity, and sealed for maximum durability.
 - Lead-free solder
 - Reduce exposure in the workplace
 - Tin bismuth alloy is RoHS compliant
 - Pre-fluxed solder sleeve provides quality soldered connection
 - Low melting point allows for quick installation
 - Excellent surface tension keeps solder in place
 - Quality colour-coded translucent heat shrink tubing
 - Adhesive lining provides seal against corrosion
 - Wire gauge imprint provides easy identification

Wire Gauge	Colour	Seam Type	Art. No.	P. Qty.
24-22 AWG	Clear	Seamless	8201.9140	25
22-18 AWG	Red	Seamless	8201.9141	
16-14 AWG	Blue	Seamless	8201.9142	
12-10 AWG	Yellow	Seamless	8201.9143	10

CRIMP CONNECTORS



- Features:**
- Translucent, adhesive-lined polyolefin tubing allows visual inspection, prevents wire corrosion, and provides a waterproof seal.
 - Colour-coded tubing with wire gauge imprint provides easy identification of the correct part for the job.

Wire Gauge	Colour	Seam Type	Art. No.	P. Qty.
24-22 AWG	Clear	Butted	555.5160	50
			555.51601	250
22-18 AWG	Red	Seamless	555.5161	50
			555.51611	250
16-14 AWG	Blue	Seamless	555.5162	50
			555.51621	250
12-10 AWG	Yellow	Seamless	555.5164	50
			555.51641	250
8 AWG	Pink	Brazed	555.5165	25

HEAT SHRINK CONNECTORS

SOLDER CONNECTORS



0555.92071



0555.92072



0555.92073

Wire Gauge	Colour	Art. No.	P Qty.
22-18 AWG	Red	0555.92071	25
16-14 AWG	Blue	0555.92072	
12-10 AWG	Yellow	0555.92073	

Features:

- These connectors provide an easy-to-use quality sealed solder connection.
- Lead-free solder
 - Reduce exposure in the workplace
 - Tin bismuth alloy is RoHS compliant
- Pre-fluxed solder sleeve provides quality soldered connection
- Low melting point allows for faster installation
- Excellent surface tension keeps solder in place
- Quality colour-coded translucent heat shrink tubing
 - Adhesive lining provides seal against corrosion
 - Wire gauge imprint provides easy identification

CLEAR "WINDOW" BUTT CONNECTORS



555.516115



555.516215



555.516415

Wire Gauge	Colour	Art. No.	P. Qty
18-22 AWG	Red	555.516115	25
14-16 AWG	Blue	555.516215	
10-12 AWG	Yellow	555.516415	

OptiSeal connectors are designed to provide optimal visual assurance of a sealed crimp termination.

Features:

- Window in center of connector assures that wire is seated properly and that the wire is being crimped to the connector
- Colour-coded stripes identify wire gauge size to be used with connector
- Colour-coded stripes also indicate/guide the installer to the proper crimp position on the center of the barrel
- Seamless barrel butt connectors ensure superior crimp performance
- Wire-stop in butt connectors prevents over insertion of wire.

STEP DOWN BUTT CONNECTORS



8201.45101



8201.45102



8201.45103

Wire Gauge	Colour	Art. No.	P. Qty
22-18 AWG to 16-14 AWG	Blue	8201.45101	20
16-14 AWG to 12-10 AWG	Yellow	8201.45102	10
12-10 AWG to 8 AWG	Pink	8201.45103	

Features:

- Varied inside and outside diameter of the connector allows both ends to make a solid crimp.
- Colour-coded stripes guide you during installation.
- Lead-free solder
 - Reduce exposure in the workplace
 - Tin bismuth alloy is RoHS compliant
- Pre-fluxed solder sleeve provides quality soldered connection
- Low melting point allows for faster installation
- Excellent surface tension keeps solder in place
- Quality colour-coded translucent heat shrink tubing
 - Adhesive lining provides seal against corrosion
 - Wire gauge imprint provides easy identification

HEAT SHRINK CONNECTORS

CRIMP CONNECTORS



Features:

- Translucent, adhesive-lined polyolefin tubing allows visual inspection, prevents wire corrosion, and provides a waterproof seal.
- Conforms to automotive manufacturers' specifications for wiring repairs, necessary for maintaining electrical warranties.
- Colour-coded tubing with wire gauge imprint provides easy identification of the correct part for the job.

Wire Gauge	Colour	Stud Size	Seam Type	Art. No.	P. Qty
22-18 AWG	Red	#8/4mm	Brazed	555.9011	25
22-18 AWG		#10/5mm		555.9021	
22-18 AWG		1/4"/6mm		555.9031	10
22-18 AWG		5/16"/8mm		555.9041	25
22-18 AWG		3/8"/10mm		555.90411	
16-14 AWG	Blue	#8/4mm		555.9090	10
16-14 AWG		#10/5mm		555.9092	20
16-14 AWG		1/4"/6mm		555.9102	
16-14 AWG		5/16"/8mm		555.9112	
16-14 AWG		3/8"/10mm		555.9122	
12-10 AWG	Yellow	#8/4mm		555.9150	
12-10 AWG		#10/5mm		555.9154	
12-10 AWG		1/4"/6mm		555.9164	
12-10 AWG		5/16"/8mm		555.9174	
12-10 AWG		3/8"/10mm		555.9184	
12-10 AWG		1/2"/12mm	555.9190		
8 AWG	Pink	1/4"	Seamless	555.9200	25

HEAT SHRINK CONNECTORS

CRIMP & SOLDER RING TERMINALS



8201.911010 8201.911410 8201.911414 8201.911438 8201.911214 8201.910438

Wire Gauge	Colour	Stud Size	Type	Seam Type	Art. No.	P. Qty.
22-18 AWG	Red	#10	Long	Brazed	8201.911010	25
16-14 AWG	Blue	#10			8201.911410	
16-14 AWG	Blue	1/4"			8201.911414	
16-14 AWG	Blue	3/8"			8201.911438	
12-10 AWG	Yellow	1/4"			8201.911214	
12-10 AWG	Yellow	3/8"			8201.910438	

Features:

- These connectors are crimped for mechanical reliability, soldered for superior strength and conductivity, and sealed for maximum durability.
- 45° barrel allows installer to see wire is fully inserted and properly stripped and crimped.
- Long neck design allows multiple terminals to be stacked flush without tubing impeding contact.
- Lead-free solder
 - Reduce exposure in the workplace
 - Tin bismuth alloy is RoHS compliant
- Pre-fluxed solder sleeve provides quality soldered connection
- Low melting point allows for quick installation
- Excellent surface tension keeps solder in place
- Quality colour-coded translucent heat shrink tubing
 - Adhesive lining provides seal against corrosion
 - Wire gauge imprint provides easy identification

SOLDER RINGS



8201.831010 8201.84138 8201.841010 8201.841014

8201.84238 8201.801010 8201.801014 8201.80138

Features:

- These connectors provide an easy-to-use quality sealed solder connection.
- 45° barrel allows installer to see wire is fully inserted and properly stripped and crimped.
- Long neck design allows multiple terminals to be stacked flush without tubing impeding contact.
- Lead-free solder
 - Reduce exposure in the workplace
 - Tin bismuth alloy is RoHS compliant
- Pre-fluxed solder sleeve provides quality soldered connection
- Low melting point allows for faster installation
- Excellent surface tension keeps solder in place
- Quality colour-coded translucent heat shrink tubing
 - Adhesive lining provides seal against corrosion
 - Wire gauge imprint provides easy identification

Wire Gauge	Colour	Stud Size	Type	Art. No.	P. Qty.
18-22 AWG	Pink	#10	Long	8201.831010	25
14-16 AWG	Blue	#8		8201.84138	
14-16 AWG	Blue	#10		8201.841010	
14-16 AWG	Blue	1/4"		8201.841014	
14-16 AWG	Blue	3/8"		8201.84238	
10-12 AWG	Yellow	#10		8201.801010	
10-12 AWG	Yellow	1/4"		8201.801014	
10-12 AWG	Yellow	3/8"		8201.80138	

HEAT SHRINK CONNECTORS

SOLDER BLADE CONNECTORS



8201.90152

8201.85202

8201.94152

Wire Gauge	Colour	Size	Male/Female	Type	Art. No.	P. Qty.
16-14 AWG	Blue	1/4"	Female	Insulated	8201.90152	25
16-14 AWG	Blue	1/4"	Female	Fully insulated	8201.85202	
16-14 AWG	Blue	1/4"	Male	Insulated	8201.94152	

Features:

- These connectors provide an easy-to-use quality sealed solder connection.
- Lead-free solder
 - Reduce exposure in the workplace
 - Tin bismuth alloy is RoHS compliant
 - Pre-fluxed solder sleeve provides quality soldered connection
 - Low melting point allows for faster installation
 - Excellent surface tension keeps solder in place
- Quality colour-coded translucent heat shrink tubing
 - Adhesive lining provides seal against corrosion
 - Wire gauge imprint provides easy identification

CRIMP SOLDER BLADE CONNECTORS



8201.142500

8201.952414

Wire Gauge	Colour	Size	Male/Female	Type	Art. No.	P. Qty.
16-14 AWG	Blue	1/4"	Female	Fully insulated	8201.142500	25
16-14 AWG	Blue	1/4"	Male	Insulated	8201.952414	

Features:

- These connectors are crimped for mechanical reliability, soldered for superior strength and conductivity, and sealed for maximum durability.
- Lead-free solder
 - Reduce exposure in the workplace
 - Tin bismuth alloy is RoHS compliant
 - Pre-fluxed solder sleeve provides quality soldered connection
 - Low melting point allows for quick installation
 - Excellent surface tension keeps solder in place
- Quality colour-coded translucent heat shrink tubing
 - Adhesive lining provides seal against corrosion
 - Wire gauge imprint provides easy identification

INSULATED CONNECTORS

SPADE CONNECTORS



555.94522 555.90522 555.94544 555.90544 555.92411 555.90511

Features:

- Translucent colour-coded, adhesive-lined polyolefin tubing allows visual inspection, prevents wire corrosion, and provides a waterproof seal.
- Conforms to automotive manufacturers' specifications for wiring repairs, necessary for maintaining electrical warranties.
- Seamless spades prevent opening of connector barrel.

Spade Connectors						
Wire Gauge	Colour	Tab Size	Type	Seam Type	Art. No.	P. Qty.
16-14 AWG	Blue	.250"	Male	Butted	555.94522	20
16-14 AWG	Blue	.250"	Female	Butted	555.90522	
12-10 AWG	Yellow	.250"	Male	Butted	555.94544	
12-10 AWG	Yellow	.250"	Female	Butted	555.90544	
20-18 AWG	Red	.250"	Male	Butted	555.92411	10
20-18 AWG	Red	.250"	Female	Butted	555.90511	20

BULLET CONNECTORS



555.9482 555.9492

Features:

- Translucent, adhesive-lined polyolefin tubing allows visual inspection, prevents wire corrosion, and provides a waterproof seal.
- Conforms to automotive manufacturers' specifications for wiring repairs, necessary for maintaining electrical warranties.
- Seamless spades prevent opening of connector barrel.
- Colour-coded tubing with wire gauge imprint provides easy identification of the correct part for the job.

Bullet Connectors						
Wire Gauge	Colour	Stud Size	Type	Seam Type	Art. No.	P. Qty.
16-14 AWG	Blue	.157"	Receptacle	Butted	555.9482	20
16-14 AWG	Blue	.157"	Plug	Butted	555.9492	

U-TERMINALS



555.95321 555.9542 555.9214 555.9224

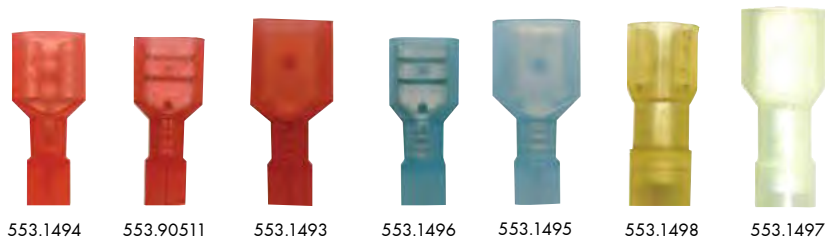
Features:

- Translucent, adhesive-lined polyolefin tubing allows visual inspection, prevents wire corrosion, and provides a waterproof seal.
- Conforms to automotive manufacturers' specifications for wiring repairs, necessary for maintaining electrical warranties.
- Colour-coded tubing with wire gauge imprint provides easy identification of the correct part for the job.

U-Terminals					
Wire Gauge	Colour	Stud Size	Seam Type	Art. No.	P. Qty.
16-14 AWG	Blue	#8	-	555.95321	20
16-14 AWG	Blue	#10	-	555.9542	
12-10 AWG	Yellow	#8	Brazed	555.9214	10
12-10 AWG	Yellow	#10	-	555.9224	

INSULATED CONNECTORS

NYLON FULLY INSULATED SPADE CONNECTORS



553.1494 553.90511 553.1493 553.1496 553.1495 553.1498 553.1497

Wire Gauge	Colour	Type	Stud Size	Art. No.	P. Qty
22-18 AWG	Red	Female	1/4"	553.1494	50
22-18 AWG	Red	Female		553.90511	25
22-18 AWG	Red	Male		553.1493	50
16-14 AWG	Blue	Female		553.1496	
16-14 AWG	Blue	Male		553.1495	
12-10 AWG	Yellow	Female		553.1498	
12-10 AWG	Yellow	Male		553.1497	

Features:

- Designed for heavy duty applications and superior performance
- Tin plated annealed copper for improved corrosion resistance, maximum conductivity and crimp strength
- Serrated barrel for greater wire retention/pullout strength
- Operating temperature range from -67° to 221°F (-55° to 105°C)
- Rated 300V

NYLON SOLDERLESS INSULATED SPADE CONNECTORS



555.9511 555.9515 555.9521 555.9525 555.9531 555.9532

Spade Connectors						
Wire Gauge	Colour	Tab Size	Type	Seam Type	Art. No.	P. Qty.
22-18 AWG	Red	.250 "	Male	-	555.9511	20
22-18 AWG	Red	.250 "	Female	-	555.9515	
16-14 AWG	Blue	.250 "	Male	-	555.9521	
16-14 AWG	Blue	.250 "	Female	-	555.9525	
12-10 AWG	Yellow	.250 "	Male	-	555.9531	
12-10 AWG	Yellow	.250 "	Female	-	555.9532	

Features:

- Designed for heavy duty applications and superior performance
- Tin plated annealed copper for improved corrosion resistance, maximum conductivity and crimp strength
- Serrated barrel for greater wire retention/pullout strength
- Operating temperature range from -67° to 221°F (-55° to 105°C)
- Rated 300V

INSULATED CONNECTORS

NYLON SOLDERLESS BUTT CONNECTOR - FLARED ENDS



553.9251



553.9262



553.9274

Features:

- Designed for heavy duty applications and superior performance
- Tin plated annealed copper for improved corrosion resistance, maximum conductivity and crimp strength
- Serrated barrel for greater wire retention/pullout strength
- Operating temperature range from -67° to 221°F (-55° to 105°C)
- Rated 300V

Nylon Solderless Butt Connector - Flared Ends			
Wire Gauge	Colour	Art. No.	P. Qty
22-18 AWG	Red	553.9251	50
16-14 AWG	Blue	553.9262	
12-10 AWG	Yellow	553.9274	25

90° FLAG CONNECTORS

INSULATED FLAG CONNECTORS 1/4 (6.3MM)



558.162165



558.162265



558.162465

Features:

- Designed for heavy duty applications and superior performance
- Tin plated annealed copper for improved corrosion resistance, maximum conductivity and crimp strength
- Serrated barrel for greater wire retention/pullout strength
- Operating temperature range from -67° to 221°F (-55° to 105°C)
- Rated 300V

Insulated Flag Connector				
Wire Gauge	Colour	Stud Size	Art. No.	P. Qty
22-18 AWG	Red	1/4"	558.162165	100
16-14 AWG	Blue		558.162265	
12-10 AWG	Yellow		558.162465	50

MINI PIN CONNECTORS



553.220



553.221

Features:

- Designed for heavy duty applications and superior performance for extreme vibration and moisture
- 3 part construction contains: inner lug, additional copper sleeve for added strength, crimpability and seamless outer nylon cover
- Serrated barrel for greater wire retention/ pullout strength
- Rated 600V

Mini Pin Connectors					
Wire Gauge	Description	Mate	Colour	Art. No.	P. Qty
22-18 AWG	Insulated Male Mini Pin .078"	553.221	Clear	553.220	20
22-18 AWG	Insulated Female Mini Pin .078"	553.220		553.221	

NON-INSULATED CONNECTORS

NON-INSULATED SOLDERLESS BUTT CONNECTOR



Features:

- Tin plated annealed copper for improved corrosion resistance, maximum conductivity and crimp strength
- Serrated barrels for greater wire retention/pullout strength

Non-Insulated Solderless Butt Connector			
Wire Gauge	Seam Type	Art. No.	P. Qty
22-18 AWG	Seamed	553.9701	100
16-14 AWG		553.9702	
12-10 AWG		553.9703	
8 AWG	Seamless	553.9704	25
22-18 AWG		553.9705	100
16-14 AWG		553.9706	
12-10 AWG		553.9707	50

CLOSED END CONNECTORS



Features:

- Closed connectors for multi-wire use
- Made of Nylon

Wire Gauge	Colour	Art. No.	P. Qty
22-18 AWG	Clear	555.125	100
16-14 AWG		555.200	
12-10 AWG		555.550	

NON-INSULATED CONNECTORS



Features:

- Tin plated annealed copper for improved corrosion resistance, maximum conductivity and crimp strength
- Serrated barrels for greater wire retention/pullout strength



Uninsulated Connectors				
Wire Gauge	Description	Mate	Art. No.	P. Qty
-	Electrical Connector (1male) (1 female) All ends	-	553.1380	40
16-14 AWG	Male Spade with lock tab M6.3	553.2221	553.2221	20
16-14 AWG	Female Spade with lock tab M6.3	553.222	553.222	
22-18 AWG	Solderless Ring Terminal #6	-	558.11205	100
16-14 AWG	Solderless Ring Terminal #10	-	558.11310	
12-10 AWG	Solderless Ring Terminal #10	-	558.11410	
12-10 AWG	Solderless Ring Terminal #12	-	558.11414	50
16-14 AWG	Female Spade Connector M6.3	-	558.45040	100
16-14 AWG	Male Spade Connector M6.3	-	558.5019	
16-14 AWG	Female Spade Connector M8	-	558.5020	50
16-14 AWG	Female Spade Connector	558.5144	558.5029	
16-14 AWG	Male Bullet Connector M4	558.5051	558.5038	100
16-14 AWG	Female Spade Connector M6.3	558.5019	558.5040	
12-10 AWG	Female Spade Connector M6.3	-	558.5047	50
16-14 AWG	Female Bullet Connector M4	558.5038	558.5051	
16-14 AWG	XL Male Spade Connector with locktab	-	558.5054	100
16-14 AWG	Female Spade Connector 1/4"	-	558.5135	
16-14 AWG	Piggyback (1 Male) (1 Female) 1/4"	-	558.5143	50
16-14 AWG	Male Spade Connector 2.8	558.5029	558.5144	100
16-14 AWG	Ring Connector M4 (#8)	-	558.5215	
16-14 AWG	Ring Connector M5 (#10)	-	558.5217	
16-14 AWG	Ring Connector M6 (1/4")	-	558.5219	50
16-14 AWG	Ring Connector M8 (5/16")	-	558.5221	
10-12 AWG	Female Spade Connector M10 (3/8")	-	558.5266	
16-14 AWG	Female Spade Connector 4.8mm	-	558.5312	100
16-14 AWG	Female Spade with lock tab connector (2.8 mm)	-	558.6010	
-	Piggyback (1 male) (1 female)	-	558.928	50
22-18 AWG	Blade Connector	-	558.9967	
16-14 AWG	Blade Connector	-	558.9969	25
24-20 AWG	Round Socket Male 1.65m diameter	-	558.9970	
16-14 AWG	Blade Connector (4.8/5.8mm)	-	558.9972	

PVC SOLDERLESS BULLET CONNECTORS AND TERMINALS

BULLET CONNECTORS



Wire Gauge	Description	Mate	Colour	Art. No.	P. Qty
22-18 AWG	Male Bullet Connector .157"	553.9502	Red	553.9501	25
22-18 AWG	Female Bullet Connector .157"	553.9501	Red	553.9502	
16-14 AWG	Male Bullet Connector .157"	553.9505	Blue	553.9503	
16-14 AWG	Female Bullet Connector .157"	553.9503	Blue	553.9505	
22-18 AWG	Male Bullet Connector .180"	-	Red	553.9601	
16-14 AWG	Male Bullet Connector .180"	553.9605	Blue	553.9603	
16-14 AWG	Female Bullet Connector .180"	553.9603	Blue	553.9605	



Features:

- Rigid PVC sleeves for improved abrasion resistance
- Tin plated annealed copper for improved corrosion resistance, max conductivity and crimp strength
- Operating temperature range from -67° to 221°F (-55° to 105°C)
- Rated 300V

12-10 GA - YELLOW



Features:

- Rated 600V, 167° F (75° C) except for disconnects, M/F bullets and piggyback
- Quality terminals for years of dependable service
- Tin plated annealed copper for improved corrosion resistance, max conductivity and crimp strength
- Serrated barrels for greater wire retention/pullout strength
- Ridged PVC sleeves for improved abrasion resistance

12-10 GA Yellow		
Art. No.	Description	P. Qty
558.961	Male Bullet Connector #10	25
558.962	Female Bullet Connector #10	
558.9054	Female Spade Connector M6.3 1/4"	50
558.9464	Male Spade Connector 1/4"	
558.9521	Piggyback 1/4"	
558.9524	Male Pin Connector .075"	
558.9414	Female Spade Connector 3/8"	
558.9214	U-Term Flat #8	
558.9224	U-Term Flat #10	
558.9274	Butt Connector	
558.9144	Ring Terminal #8	
558.9154	Ring Terminal #10	
558.9164	Ring Terminal 1/4"	25
558.9174	Ring Terminal 5/16"	
558.9184	Ring Terminal 3/8"	
558.5032	Ring Terminal 1/2"	

PVC SOLDERLESS CONNECTORS AND TERMINALS

16-14 GA - BLUE



Features:

- Rated 600V, 167° F (75° C) except for disconnects, M/F bullets and piggyback
- Quality terminals for years of dependable service
- Tin plated annealed copper for improved corrosion resistance, max conductivity and crimp strength
- Serrated barrels for greater wire retention/pullout strength
- Ridged PVC sleeves for improved abrasion resistance



16-14 GA Blue			
Description	Art. No.	P. Qty	
Male Spade Connector M4.8	558.97621	50	
Male Spade Connector M6.3	558.9452		
Male Bullet Connector M5	558.9482		
Female Spade Connector M4.8	558.9762		
Female Spade Connector M6.3	558.9052		
Female Spade Connector M6.3	558.90522		
Female Spade Connector M8	558.9402		
Female Bullet M5	558.9492		
Piggyback M6.3	558.9432		
Male Pin Connector	558.9512		
Ring Terminal M3.5 hole #6	558.9072		
Ring Terminal M4 hole #8	558.9082		
Ring Terminal M5 hole #10	558.9092		
Ring Terminal M6 hole 1/4"	558.9102		
Ring Terminal M8 hole 5/16"	558.9112		
Ring Terminal M10 hole 3	558.9122		
U Terminal Flat M5 #10	558.9542		
U-Terminal Flat M4	558.9532		
Butt Connector	558.9262		100

22-18 GA - RED

Features:

- Rated 600V, 167° F (75° C) except for disconnects, M/F bullets and piggyback
- Quality terminals for years of dependable service
- Tin plated annealed copper for improved corrosion resistance, max conductivity and crimp strength
- Serrated barrels for greater wire retention/pullout strength
- Ridged PVC sleeves for improved abrasion resistance



22-18 GA Red			
Description	Art. No.	P. Qty	
Male Spade Connector M2.8	558.9751	50	
Female Spade Connector M2.8	558.960		
Male Spade Connector M4.8	558.97611		
Female Spade Connector M4.8	558.9761		
Male Spade Connector M6.3	558.9441		
Female Spade Connector M6.3	558.9051		
Female Spade Connector M6.3	558.90511		
Bullet Male Connector M4	558.9461		100
Bullet Female Connector M4	558.9471		50
Piggyback Connector M6.3	558.9421		
Male Pin Connector	558.9501	100	
Ring Terminal M4 hole (#8)	558.9011		
Ring Terminal M5 hole (#10)	558.9021	50	
Ring Terminal M6 hole (1/4")	558.9031		
Ring Terminal M8 hole (5/16")	558.9041	25	
U-Term Flat M4	558.9551	50	
Butt Connector	558.9251		

PREMIUM NYLON CONNECTORS AND TERMINALS - HEAVY DUTY - 600V

12-10 GA - YELLOW



967.09464



967.09054



967.09144



967.09154



967.09164



967.09174

Features:

- Rated 600V
- Designed for heavy duty applications and superior performance for extreme vibration and moisture.
- Tin Plated annealed copper for improved corrosion resistance, maximum conductivity and crimp strength
- Temperatures -67 to 221°F (-55 to 105°C)



967.09184



967.09194



967.09214



967.09224



967.09274

12-10 GA Yellow		
Description	Art. No.	P. Qty
Heavy Duty Female Spade Connector 1/4" hole	967.09054	50
Heavy Duty Ring Terminal M4 hole (#8)	967.09144	
Heavy Duty Ring Terminal M5 hole (#10)	967.09154	
Heavy Duty Ring Terminal M6 hole (1/4")	967.09164	
Heavy Duty Ring Terminal M8 hole (5/16")	967.09174	
Heavy Duty Ring Terminal M10 hole (3/8")	967.09184	
Heavy Duty Ring Terminal 1/2" hole	967.09194	25
Heavy Duty U-Term Flat M4 #8	967.09214	
Heavy Duty U-Term Flat M5 (#10)	967.09224	50
Heavy Duty Butt Connector	967.09274	
Heavy Duty Male Spade Connector 1/4"	967.09464	

16-14 GA - BLUE



967.09503



967.09505



967.09452



967.09052



967.8004



967.8007



967.09262



967.09072



967.09082



967.09092



967.09102



967.09112



967.09122



967.09530



967.09532



967.8003



967.9432



967.9512

Features:

- Rated 600V
- Designed for heavy duty applications and superior performance for extreme vibration and moisture.
- Tin Plated annealed copper for improved corrosion resistance, maximum conductivity and crimp strength
- Temperatures -67 to 221°F (-55 to 105°C)

16-14 GA Blue		
Description	Art. No.	P. Qty
Female Spade Connector 1/4" hole	967.09052	50
Ring Terminal M3.5 hole	967.09072	
Ring Terminal M4 hole #8"	967.09082	
Ring Terminal M5 hole #10"	967.09092	
Ring Terminal M6 hole 1/4"	967.09102	
Ring Terminal M8 hole 5/16"	967.09112	
Ring Terminal M10 hole 3/8"	967.09122	
Butt Connector	967.09262	
Male Spade 1/4"	967.09452	
Male Bullet	967.09503	
Female Bullet	967.09505	50
U-Term #6	967.09530	
U-Term Flat #8	967.09532	
Fully insulated Female Connector M4.8	967.8003	
Fully insulated Female Connector M6.3	967.8004	
Fully Insulated Male Connector M6.3	967.8007	
Duty Nylon Piggyback M6.3	967.9432	
Nylon Pin Terminal M6.3	967.9512	

PREMIUM NYLON CONNECTORS AND TERMINALS - HEAVY DUTY - 600V

22-18 GA - RED


Features:

- Rated 600V
- Designed for heavy duty applications and superior performance for extreme vibration and moisture.
- Tin Plated annealed copper for improved corrosion resistance, maximum conductivity and crimp strength
- Temperatures -67 to 221°F (-55 to 105°C)

22-18 GA Red		
Description	Art. No.	P. Qty
Ring Terminal M4 hole (#8)	967.09011	100
Ring Terminal M5 hole (#10)	967.09021	50
Ring Terminal M6 hole (1/4")	967.09031	
Ring Terminal M8 hole (5/16")	967.09041	
Spade Connector 1/4" hole	967.09051	
Butt Connector	967.09251	
Male Spade Connector M6.3	967.09441	
Nylon Male Bullet	967.09501	100
Nylon Female Bullet	967.09502	
U-Term M3.7	967.09550	
U-Term M4	967.09551	
Female Spade Connector M2.8	967.0960	
Female Spade Connector M4.8	967.09761	
Fully Insulated Female Spade Connector	967.8002	50
Fully Insulated Male Spade Connector	967.8006	
Nylon Pin Terminal M6.3	967.9501	

SCOTCH LOCKS



555.562



555.564



555.557



555.567



555.558

Scotch Locks				
Description	Wire Gauge	Colour	Art. No.	P. Qty
Scotch Lock - Run + Tap	12-10 AWG	Yellow	555.562	25
Scotch Lock - Run + Tap	16-14 AWG	Blue	555.564	50
Scotch Lock for Multiple Wires	16-14 AWG	Brown	555.567	
Scotch Lock - Dual Element	22-18 AWG	Red	555.557	
Scotch Lock - open end for all ends	22-18 AWG	Red	555.558	

Insulation Displacement Connectors

Features:

- Quick and reliable installation
- Solvent resistant plastic

Use:

- To install, just squeeze
- No stripping or twisting required

TAP CONNECTORS-1/4"



555.951



555.952



555.953

Tap Connector				
Wire Gauge	Colour	Mates With	Art. No.	P. Qty
22-18 AWG	Red	555.9511	555.951	25
16-14 AWG	Blue	555.9521	555.952	50
12-10 AWG	Yellow	555.9531	555.953	25

Features:

- Rigid PVC for improved abrasion resistance
- Solderless
- Flame Retardant

WIRE NUTS



553.10378



553.10380



553.10381

Wire Nuts				
Wire Gauge	Voltage	Colour	Art. No.	P. Qty
24-16 AWG	300	Grey	553.10378	25
20-14 AWG	600	Orange	553.10380	
18-12 AWG		Yellow	553.10381	10

Features:

- Use on solid or stranded copper wire
- Threaded steel insert permits positive bite
- Can be used with multiple wires

GM METRIPACK TERMINALS



557.15939



557.15938



557.15944



557.15945



557.15946



557.15947



557.14150



557.14151

Features:

- Tin plates that utilize flex pin and lap-lock designs to provide the highest reliability.
- Dual locking tangs securely hold terminal inside the connector cavity.



557.15937



557.15948



557.18324



557.18325



557.15499



557.15498



557.14883



557.15497



557.14880



557.14881

GM Metripack Terminals				
Description	Gauge	Mate	Art. No.	P. Qty
Male Pin Terminal	20-18	557.14151	557.14150	20
Female Pin Terminal;	20-18	557.14150	557.14151	
Male Pin Terminal	18-14	-	557.14880	
GM Electronic Terminal	20-18	-	557.14883	10
	20-18	-	557.15497	
GM Metripack Terminal	20-18	-	557.15498	20
	20-16	-	557.15499	
	16-14	557.15939	557.15938	
	16-14	557.15938	557.15939	
	16-14	557.15945	557.15944	
	16-14	557.15944	557.15945	
	20-18	557.15947	557.15946	
	20-18	557.15946	557.15947	
	16-14	557.15948	557.15937	
	16-14	557.15937	557.15948	
	12	557.18325	557.18324*	
	12	557.18324	557.18325*	
	16-14	557.14880	557.14881	

METRIPACK TERMINALS

GM WEATHERPACK



Features:

- Tin plates that utilize flex pin and lap-lock designs to provide the highest reliability.
- Dual locking tangs securely hold terminal inside the connector cavity.

GM Weatherpack			
Description	Gauge	Art. No.	P. Qty
Repair Lead 10" (18 opi wire)	20-18	557.15921	5
	20-18	557.15922	
Green Silicone Cavity Plug	-	557.15955	50
GM Weatherpack Cable Seal	14	557.18326	20
	20-18	557.14152	

FORD METRIPACK TERMINALS

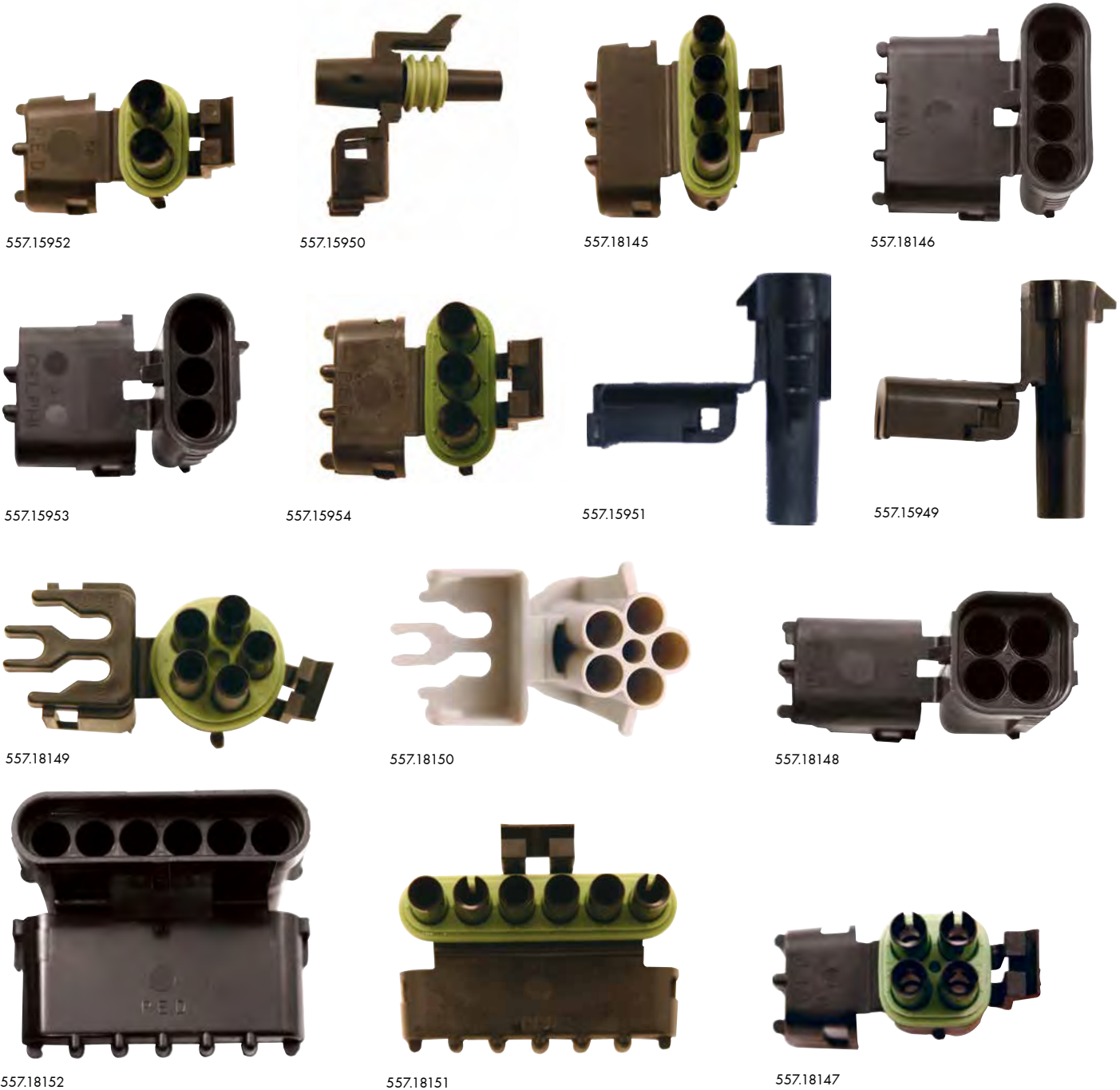


Features:

- Tin plates that utilize flex pin and lap-lock designs to provide the highest reliability.
- Dual locking tangs securely hold terminal inside the connector cavity.

Ford Metripack Terminals				
Description	Gauge	Mate	Art. No.	P. Qty
Ford Male Terminal	20-18	557.16344	557.16342	10
Ford Female Terminal	20-18	557.16342	557.16344	
Ford Box Female Terminal	20-18	-	557.14889	25
Ford Female Snap On Terminal	20-18	-	557.14892	20

CAVITY MATES



Cavity Mate Terminals				
Description	Mate	For Connection	Art. No.	P. Qty
4 Cavity Male Tower	557.18146	557.15948	557.18145	5
4 Cavity Female Terminal	557.18145	557.15937	557.18146	
5 Cavity Round Male Terminal	557.18150		557.18149	10
5 Cavity Round Female Terminal	557.18149	557.15937	557.18150	
4 Cavity Square Male Terminal	557.18148	-	557.18147	20
4 Cavity Square Female Terminal	557.18147	-	557.18148	
6 Cavity Female Terminal	557.15948	-	557.18152	10
6 Cavity Male Terminal	557.18152	557.15948	557.18151	
3 Cavity Male Terminal	557.15954	557.15948	557.15953	
3 Cavity Female Terminal	557.15953	557.15937	557.15954	
2 Cavity Male Terminal	557.15952		557.15951	
2 Cavity Female Terminal	557.15951	557.15937	557.15952	20
1 Cavity Female Terminal	557.15949	557.15937	557.15950	
1 Cavity Male Terminal	557.15950	557.15948	557.15949	10

ASSORTMENTS



Art. No. 964.5581

Insulated Cable Connector Assortment
Contents (531 Pieces):
 18 types of insulated cable connectors



Art. No. 964.0558

Electrical Connector Assortment
Contents (450 Pieces):
 18 types of Prefix 555 & 558 insulated electrical connectors



Art. No. 965.5531

Start-Up Connector Assortment
Contents (675 Pieces):
 14 types of Prefix 553 insulated electrical connectors



Art. No. 965.557

GM/Ford Pin Terminal Assortment
Contents (300 Pieces):
 15 types of domestic pin terminals



Art. No. 965.967

600 Volt Electrical Connector Assortment
Contents (675 Pieces):
 15 types of Prefix 967 600 V insulated electrical connectors



Art. No. 965.5551

Heat Shrink Electrical Connector Assortment
Contents (195 Pieces):
 15 types of heat shrink electrical connectors



Art. No. 965.5554

Hydralink Assortment
Contents (64 Pieces):
 4 sizes of hydralink heat shrink tubing, 4 sizes of butt connectors, 2 closed end connectors



Art. No. 965.055501

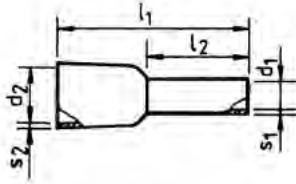
Heat Shrink Solder Connector Assortment
Contents (65 Pieces):
 13 types of heat shrink solder connectors including butt connectors, ring terminals and blade connectors



Art. No. 965.558600

PVC Solderless Connector Assortment
Contents (600 Pieces):
 24 different PVC connectors, including ring terminals, bullet connectors and spade connectors

WIRE END FERRULES (WITH PLASTIC SLEEVES)



- Inlet nipple heat resistant up to 110 °C (230 °F)
- Tube: Copper, electroplated tin
- Free of halogens

Cross section in mm ² / in ²	Colour	Dimensions						Art. No.	P. Qty.
		L1 (mm/ in)	L2 (mm/in)	d1 (mm/in)	S1 (mm/in)	d2 (mm/ in)	S2 (mm/ in)		
4.0 / 0.006	grey	17.8 / 0.70	10.0 / 0.39	2.8 / 0.11	0.20 / 0.008	4.4 / 0.17	0.40 / 0.16	557.00400	1000
10.0 / 0.016	ivory	21.5 / 0.85	12.0/0.47	4.5 / 0.18		7.6 / 0.30		557.01000	500
16.0 / 0.025	green	22.2 / 0.87		5.8 / 0.23	8.8 / 0.35	557.01600	100		

WIRE END FERRULE BOX



Art. No. 557.101

Contents: 100 pieces

Cross section in mm ² / in ²	Colour	# of Pieces	Art. No.
4.0 / 0.006	Grey	50	557.00400
6.0 / 0.009	Black	20	557.00600
10.0 / 0.016	Ivory	20	557.01000
16.0 / 0.025	Green	10	557.01600

LUGS

COPPER LUGS



557.1543 557.1540 557.1575 557.1532 557.1541

Features:

- Seamless 100% copper tube construction.
- Can be crimped or soldered.
- Ideal for general wiring as well as starter or ground connections.



557.1553 557.1582 557.1551 557.1570 557.1571 557.1603 557.1552 557.1542



557.1605 557.1591 557.1604 557.1581 557.1580 557.1601 557.1592 557.1593 557.1602

Wire End copper lugs			
Gauge	Hole Size	Art. No.	P. Qty
4/0	3/8"	557.1543	10
4/0	1/2"	557.1540	
3/0	1/2"	557.1575	
3/0	3/8"	557.1532	
2/0	1/2"	557.1541	
2/0	3/8"	557.1542	
1 GA	3/8"	557.1582	
1/0	1/2"	557.1551	
1 GA	1/2"	557.1570	
1 GA	5/16"	557.1603	
1/0	3/8"	557.1552	

Wire End copper lugs				
Gauge	Hole Size	Art. No.	P. Qty	
2 GA	3/8"	557.1553	10	
2 GA	5/16"	557.1605		
4 GA	1/4"	557.1591		
4 GA	3/8"	557.1581		
4 GA	1/2"	557.1580		
4 GA	5/16"	557.1604		
6 GA	1/4"	557.1601		
6 GA	1/2"	557.1592		
6 GA	3/8"	557.1593		20
6 GA	5/16"	557.1602		10
2 GA	1/2"	557.1571		

LUGS PREFIX 557

90° MAX LUGS

Features:

- Seamless 100% copper tube construction
- Can be crimped or soldered
- Ideal for general wiring as well as starter or ground connections
- Tin Plated



557.595100



557.5952



557.595200



557.5953



557.595400



557.5955



557.595300



557.595500



557.5956



557.595800



557.595700



557.5958



557.595600



557.5957

90° Max Copper Lugs - Tin Plated			
Gauge	Hole Size	Art. No.	P. Qty
6 GA	1/2"	557.595100	5
4 GA	3/8"	557.5952	
4 GA	1/2"	557.595200	
2 GA	3/8"	557.5953	
2 GA	1/2"	557.595300	
1 GA	1/2"	557.595400	

90° Max Copper Lugs - Tin Plated			
Gauge	Hole Size	Art. No.	P. Qty
1/0	3/8"	557.5955	5
1/0	1/2"	557.595500	
2/0	3/8"	557.5956	
2/0	1/2"	557.595600	
3/0	3/8"	557.5957	
3/0	1/2"	557.595700	
4/0	3/8"	557.5958	
4/0	1/2"	557.595800	

LUGS

MAGNA LUGS - RIGHT ELBOW



557.6308



557.6310



557.6312



557.6313



557.6309



557.6311

Features:

- Made of 100% copper, tin plated for added conductivity and to resist corrosion
- Heavy wall copper lugs 80% heavier wall than standard lugs
- Wider pad for better electrical contact, thicker pad for greater strength and conductivity
- Elbows and bent lugs are designed to reduce cable stress in confined space
- Excellent for commercial and industrial applications
- Flameless installation; safe for shop and field repair

Magna Lug				
Gauge	Hole Size	Elbow	Art. No.	P. Qty
6 GA	3/8"	Right Elbow	557.6308	5
4 GA			557.6309	
1 & 2			557.6310	
1/0			557.6311	
2/0			557.6312	
3/0			557.6313	

LUGS

MAGNA LUGS - LEFT ELBOW



557.6318



557.6320



557.6321



557.6319



557.6323



557.6322



557.6324

Features:

- Made of 100% copper, tin plated for added conductivity and to resist corrosion
- Heavy wall copper lugs 80% heavier wall than standard lugs
- Wider pad for better electrical contact, thicker pad for greater strength and conductivity
- Elbows and bent lugs are designed to reduce cable stress in confined spaces
- Excellent for commercial and industrial applications

Magna Lug				
Gauge	Hole Size	Elbow	Art. No.	P. Qty
6 GA	3/8"	Left Elbow	557.6318	5
4 GA			557.6319	
1 & 2			557.6320	
1/0			557.6321	
2/0			557.6322	
3/0			557.6323	
4/0			557.6324	

LUGS

POWER LUGS

Features:

- Made of 100% copper, tin plated for added conductivity and to resist corrosion
- Heavy wall copper lugs 80% heavier wall than standard lugs
- Wider pad for better electrical contact, thicker pad for greater strength and conductivity
- Exceeds SAE conductivity standards J163 and J1811



557.91705 557.91706 557.91707 557.91715 557.91716 557.91717 557.91725



557.91726 557.91727 557.91728 557.91745 557.91746 557.91747 557.91749 557.91757



557.91759 557.91767 557.91769 557.91777 557.91779 557.91787 557.91789

LUGS

POWER LUGS

Power Lugs				
Gauge	Hole Size	Colour	Art. No.	P. Qty.
8 GA	1/4"	Grey	557.91705	5
8 GA	5/16"		557.91706	
8 GA	3/8"		557.91707	
6 GA	1/4"		557.91715	
6 GA	5/16"		557.91716	
6 GA	3/8"		557.91717	
4 GA	1/4"		557.91725	
4 GA	5/16"		557.91726	

Power Lugs				
Gauge	Hole Size	Colour	Art. No.	P. Qty.
4 GA	3/8"	Grey	557.91727	5
4GA	1/2"		557.91728	
1-2	1/4"		557.91745	
1-2	5/16"	Pink	557.91746	
1-2	3/8"		557.91747	
1-2	1/2"		557.91749	
1/0	3/8"	Black	557.91757	
1/0	1/2"		557.91759	

Power Lugs				
Gauge	Hole Size	Colour	Art. No.	P. Qty.
2/0	3/8"	Orange	557.91767	5
2/0	1/2"		557.91769	
3/0	3/8"	Purple	557.91777	
3/0	1/2"		557.91779	
4/0	3/8"	Yellow	557.91787	
4/0	1/2"		557.91789	

BRASS-TIN PLATED LUGS

Features:

- Seamless 100% copper tube construction.
- Can be crimped or soldered.
- Ideal for general wiring as well as starter or ground connections.

Brass-Tin Plated Lugs			
Gauge	Hole Size	Art. No.	P. Qty.
4 GA	3/8"	557.9225	10
1/0	1/2"	557.9234	
2 GA	1/2"	557.9230	
2/0	3/8"	557.9237	
1/0	3/8"	557.9233	
2 GA	3/8"	557.9229	
2 GA	5/16"	557.9228	
6 GA	3/8"	557.9221	
4 GA	5/16"	557.9224	
6 GA	5/16"	557.9220	
6 GA	1/4"	557.9219	



557.9234



557.9237



557.9230



557.9233



557.9225



557.9229



557.9228



557.9221



557.9224



557.9220



557.9219

ASSORTMENTS



Art. No. 965.5572

**Light Duty Copper Lug Assortment
Contents (205 Pieces):**

16 types of copper lugs/ring tongues
Size range: 1 GA to 4/0



Art. No. 965.557150

**Copper Lug Assortment
Contents (70 Pieces):**

14 assorted sizes from 1/4" to 1/2"
Size range: 4 GA to 3/0



Art. No. 965.5573

**Heavy Duty Power Lug Assortment
Contents (45 Pieces):**

9 types of heavy duty power lugs
Size range: 1 GA to 4/0

POLE TERMINAL BRUSH



Art. No. 695.589544

- Cleans dirt and corrosion from battery terminals and cable clamps
- Strong metallic bristles for excellent deposit removal
- Convenient lid provides safe storage
- Rotate the round battery terminal brush on each terminal to ensure a good, solid electrical connection

BOOSTER CLAMPS



- Solid copper clamp for maximum conductivity
- Weighs over 3/4 lb
- Insulated grips
- 3 coil spring provides over 50 lbs of clamping pressure
- Strain relief for longer cable life
- Lugs bolt to booster clamp

Description	Grip Colour	Clamp Amp. Rating	Clamp Style	Art. No.
Booster Clamp	Red	900 Amp	Parrot	715.3051
Booster Clamp	Black	900 Amp	Parrot	715.3056

HARD DIAMOND COATED TERMINAL TWEEZERS



Art. No. 695.6000

This 3 piece set features a highly durable and abrasive coating for cleaning small spade pin electrical connectors. They reduce diagnostic guesswork and increase overall harness life.

Features:

- For flat and spade style terminals
- Works on both male and female connectors
- Removes corrosion and extends harness life
- Reduces diagnostic guesswork by eliminating bad connectors
- Includes a holster for small medium and large cleaners

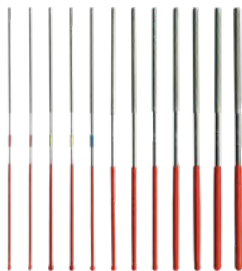
Contents:

Large, medium and small tweezers for the most common connectors found in automotive, trucks, heavy equipment, and agricultural machinery.

Areas of application:

Computer modules, Engines, General transmissions, Fans, Alternator connections, Radios, Lights

SUPER HARD DIAMOND COATED ROUND MICRO FILES - 12 PIECES



Art. No. 695.6001

Great for cleaning and reworking small type electrical bullet connectors as well as general filing applications on Steel, Brass, Aluminum and Plastic

Features:

- Diamond coated round micro files
- 12 piece set in a custom holster
- Made from stainless spring steel wire for optimum strength and flexibility
- Remove corrosion from round electrical connectors
- Also for use in general filing applications such as steel, aluminum, plastic, brass etc.
- File diameter sizes: .030" (2x), .040" (2x), .050", .060", .070", .080", .090", .100", .110", .120"
- The smallest file (.030") can clean Deutsch connectors

TRUCK AND TRAILER CONNECTOR CLEANER SET - 9 PIECES



Art. No. 695.6002

Allows for precise removal of corrosion from both male and female pins, while maintaining proper pin dimensions.

Features:

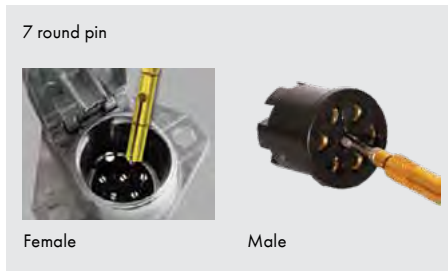
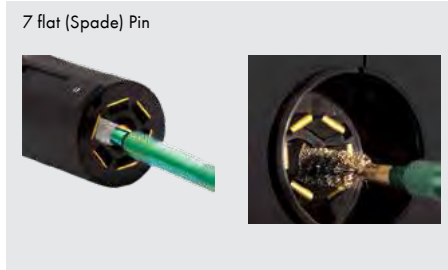
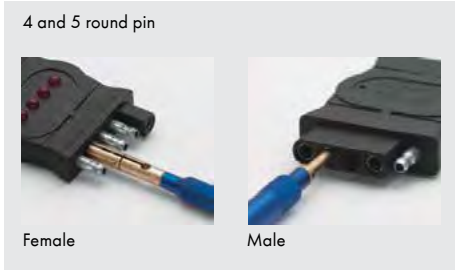
- Maintain continuity and prevent circuit failure
- Clean and re-size trailer pins
- Remove corrosion from connectors
- Extend harness life
- Use as a pin wear gauge

Includes:

- 4 and 5 round pin
- 6 round pin
- 7 flat (spade) pin
- 7 round pin
- Swab-Eez® 8 mm and 5 mm head

Applications:

- Bullet, butt and standard connectors
- AWG terminal connectors; auto, marine, and industrial uses



	Description	Dimensions
A	7 Round Pin	5.5"
B	7 Round Pin	7.5"
C	7 Flat Pin Male	5.375"
D	7 Flat Pin Female	5.125"
E	4/5 & 6 Round Pin	5.125"
F	6 Round Pin	4.875"
G	5mm Head Swab-Eez™	5mm x 6"
H	8mm Head Swab-Eez™	8mm x 6"
I	5mm Head Swab-Eez™	5mm x 3"

DIAMOND-COATED FLEXIBLE CONTACT CLEANING FILES (3PCS)



Art. No. 715.700

The three-piece Diamond-Coated Flexible Flat Point & Electrical Contact Cleaners feature highly durable, super hard, and abrasive diamond coating for cleaning and enhancing electrical connections to reduce diagnostic guesswork and increase contact life.

The set includes a small (6 mm), medium (9mm) and large (15mm) wide, but ultra-thin, flexible cleaner with ergonomic, non-slip handles. Optimized for cleaning large spade terminals including relays and forklift contacts, these flexible, diamond flat files are also great for use in general filing applications.

Features & Benefits:

- Three-piece set covers wide range of contact sizes
- Super hard, diamond coating is highly abrasive and durable
- Enhances connections and extends contact life
- Non-slip, ergonomic handles for comfortable use
- Ultra-thin, flexible files for added functionality

Areas of application:

- Large Spade Relays
- Forklift Contacts
- Industrial Electrical Contacts
- Spark plug electrodes
- General filing use on steel, brass, plastic and aluminum



VEHICLE TEST LAMP



Art. No. 695.00224

- Voltage range 6-24
- Cable length: 750 mm
- Voltage testing
- Cable check

TEST CLIPS RED/BLACK PAIR



Art. No. 715.16971

- 10 Amp.
- 2-1/4" long

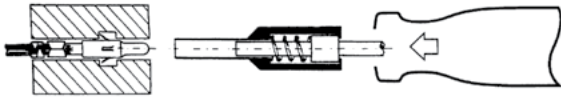
WEATHER PACK EXTRACTOR TOOL



Art. No. 557.14462

Designed for extracting weather pack terminals from their connector housing

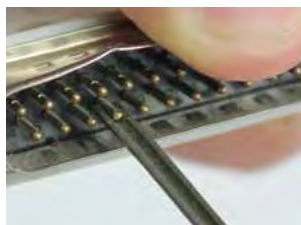
RELEASING TOOLS



For circular plug contacts with locking lugs on contact

		For contacts	Contact ø in mm.	Art. No.	P. Qty.
		Pins and sockets	1.5	713.558110	1
		Pins and sockets (e.g. MATE-N-LOK) Replacement Sleeve: Art. No. 558.999810		713.558130	
		Pins and sockets	2.3	713.558140	

MICRO MALE PIN CLEANERS



Art. No. 695.7000

Würth Micro Male Electrical Pin Cleaners are specially engineered with a contoured design and diamond-coating to clean male electrical pins safely.

Features:

- Durable diamond coating
- Innovative contoured design
- For all types of male electrical pin applications
- The 3-piece set includes a leather-type holster and cleans pins ranging in sizes from .030"-.040", .060"-.065", and .090"-.098"

Benefits:

- Easy to clean pins that are recessed into deep welled plastic housings
- Will not damage pins
- Includes leather type holster
- For use on DC circuitry only

Areas of application:

For cars, trucks, construction, agriculture, industrial and marine equipment.

- Used for cleaning round pins like those found on Deutsch, Cannon and Amphenol Connectors.

BATTERY TERMINALS

STRAIGHT TIN PLATED

Made from 100% Copper Alloy and tin plated to resist corrosion!

Features:

- Made of cast copper alloy, tin plated for added conductivity and corrosion resistance
- Permanent, indelible, readable gauge and polarity stamped on clamp
- Crimp markings for easily installation
- Fasteners included
- 25 times better than SAE conductivity standard J163 and J1811



557.12128



557.12130



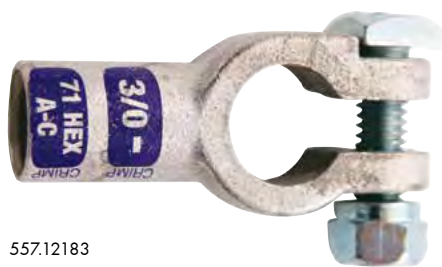
557.12143



557.12144



557.12173



557.12183



557.12184



557.12174



557.501310N



557.501310P



557.501340P

Straight Battery Terminals				
Gauge	Polarity	Colour	Art. No.	P. Qty
4 GA	Negative	Green	557.12128	5
4 GA	Positive	Green	557.12130	
1-2	Negative	Pink	557.12143	
1-2	Positive	Pink	557.12144	
2/0	Negative	Orange	557.12173	5
2/0	Positive	Orange	557.12174	
3/0	Negative	Purple	557.12183	5
3/0	Positive	Purple	557.12184	
1/0	Negative	Black	557.501310N	5
1/0	Positive	Black	557.501310P	
4/0	Negative	Yellow	557.501340N	
4/0	Positive	Yellow	557.501340P	



557.501340N

BATTERY TERMINALS

STRAIGHT LEAD PLATED



553.0838



553.0880

Application:

- Automotive or light truck applications
- Accepts 6 thru 2/0 gauge cable sizes
- Lead construction fasteners included

Lead Battery Terminals				
Gauge	Polarity	Colour	Art. No.	P. Qty
6-2	n/a	n/a	553.0838	10
6-2	n/a	n/a	553.0880	

RIGHT ELBOW TIN PLATED

Elbow connectors designed to reduce cable stress in confined spaces



557.12263



557.12264

Features:

- Made of cast copper alloy, tin plated for added conductivity and corrosion resistance
- Permanent, indelible, readable gauge and polarity stamped on clamp
- Fasteners included
- Crimp markings for easy installation

Right Elbow Tin Plated Battery Terminals				
Gauge	Polarity	Colour	Art. No.	P. Qty
1/0	Negative	Black	557.12263	5
1/0	Positive	Black	557.12264	
2/0	Negative	Red	557.12273	
2/0	Positive	Red	557.12274	
3/0	Negative	Purple	557.12283	
3/0	Positive	Purple	557.12284	



557.12273



557.12274



557.12283



557.12284

BATTERY TERMINALS

LEFT ELBOW TIN PLATED

Elbow connectors designed to reduce cable stress in confined spaces.



557.12363



557.12364



557.12373



557.12374



557.12384

Features:

- Made of cast copper alloy, tin plated for added conductivity and corrosion resistance
- Permanent, indelible, readable gauge and polarity stamped on clamp
- Fasteners included
- Crimp marking for easy installation

Left Elbow Tin Plated Battery Terminals

Gauge	Polarity	Colour	Art. No.	P. Qty
1/0	Negative	Black	557.12363	5
1/0	Positive	Black	557.12364	
2/0	Negative	Red	557.12373	
2/0	Positive	Red	557.12374	
3/0	Positive	Purple	557.12384	

BATTERY TERMINALS

UNIVERSAL POWER TERMINAL

Locking and anti-rotating power terminals to get the job done right!



557.13928



557.13958



557.13968



557.13978

Features:

- Made of 100% copper, tin plated for added conductivity and to resist corrosion
- Heavy wall copper lugs 80% heavier wall than standard lugs
- Wider pad for better electrical contact, thicker pad for greater strength and conductivity
- Elbows and bent lugs are designed to reduce cable stress in confined space
- Excellent for commercial and industrial applications
- Exceeds SAE conductivity standards J163 and J1811
- 3/8" hole



557.13988



557.13998

Universal Power Terminals			
Gauge	Colour	Art. No.	P. Qty
4 GA	Grey	557.13928	5
1-2	Pink	557.13958	
1/0	Black	557.13968	
2/0	Orange	557.13978	
3/0	Purple	557.13988	
4/0	Yellow	557.13998	

BATTERY TERMINALS

BUTT SPlice TERMINALS

Heavy Duty Butt Splice Terminals			
Gauge	Colour	Art. No.	P. Qty
4/0	Yellow	557.501740	5
3/0	Purple	557.91870	
2/0	Orange	557.507120	
1/0	Black	557.501710	
1/2	Pink	557.50172	
4 GA	Green	557.50174	
Butt Splice Terminal			
8 GA	-	557.91800	5
6 GA	-	557.91810	

Copper Butt Splice

Features:

- Seamless 100% copper tube construction
- Can be crimped or soldered
- Ideal for general wiring as well as starter or ground connections



557.501740



557.91870



557.50172



557.91810



557.507120



557.501710



557.50174



557.91800

TERMINAL ACID PROTECTOR



557.99017



557.99014



557.99015

Features:

- Battery washers seal out acid fumes protecting terminals from corrosion.
- Ideal for new batteries or clean up and repair of used batteries.
- The terminal washer is coated with a corrosive preventative that will not evaporate.

Terminal Acid Protector				
Polarity	Colour	Position	Art. No.	P. Qty
Negative	Black	Top	557.99014	25
Positive	Red	Top	557.99015	
Negative	Black	Side	557.99017	



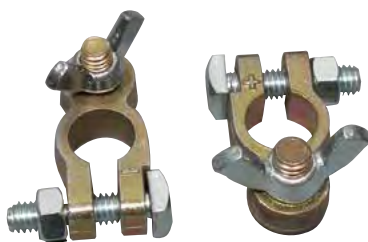
BATTERY ACCESSORIES

NUTS & BOLTS



Description	Art. No.	P. Qty
OEM type side mount terminal bolt 3/8-16x13/32	557.99001	10
Side mount bolt with exterior screw for dual power lead - zinc 3/8-16x1	557.99002	
Stainless steel stud nut - closed cap 3/8-16	557.99005	
Universal stud to post converter (positive & negative) 3/8	557.99010	
Adapter bolt - side term - for single power lead 3/8-16x3/8	557.99013	5
Square head steel bolt & nut, zinc plated 5/16-18x1-1/4	557.99052	25
Square head bolt & nut, tin plated 5/16-18x1-1/2"	557.99057	
Square head bolt with shoulder nut, zinc 5/16-x1-1/2"	557.99513	

BATTERY CONNECTORS FOR MARINE APPLICATIONS



Art. No. 510.30 (Negative, 5/16")
Art. No. 510.31 (Positive, 3/8")

- Heavy duty brass connectors with Tin-plated steel fasteners (anti-corrosion treatment for metal)
- Converts battery post to stud connector
- Permits quick disconnection from battery
- Eliminates current drain during storage
- Meets U.S.C.G. (United States Coast Guard) regulations
- 5 pieces/bag

ASSORTMENTS



Art. No. 965.5571

Battery Terminal Power Splice Assortment
Contents (80 Pieces):
 16 types of battery terminal/power splices
 Size range: 1 GA to 4/0

DEUTSCH CONNECTORS



- Common contact system utilizes common tooling
- Stainless steel sleeves over contact fingers protects them from damage, increasing socket-terminal performance
- Properly crimped connections are air-tight
- Made from flame-retardant, high grade thermoplastics to reduce the risk of fire
- Operating temperature: -55 °C to +125 °C (-67 °F to +257 °F)
- Fail-safe connector assembly ensures the locking wedge can only be inserted if the contacts are fully inserted and the connectors can only be coupled if the wedges are fully inserted
- Withstand intense physical shock and vibration



NOTE: Use Universal Sealing Plug, Art. No. 887.114017, to blank unused connections
 Crimping tool for solid pins and sockets, Art. No. 887.AMSC12 - Size 12
 Art. No. 887.AMSC16 - Size 16
 Art. No. 887.AMSC20 - Size 20



DT Series

- Accommodates wire sizes from 14 - 18 AWG
- Current rating: 13 amps
- Contacts withstand a load of 25 lbs for size 16
- Audible coupling feedback
- Environmentally sealed connections designed for cable to cable applications under the hood, on the chassis or in the cab
- Thermoplastic housings and silicone seals
- Contact insertion and withdrawal require no special tools
- Secondary locks

Pins/Socket	Style	Size	Art. No.
Pin	Stamped	14 - 16 AWG	887.106014012
Socket	Stamped	14 - 16 AWG	887.106214012
Pin	Solid	16 - 18 AWG	887.460202
Socket	Solid	16 - 18 AWG	887.462201
Pin	Solid	14 - 16 AWG	887.460215
Socket	Solid	14 - 16 AWG	887.462209

No. Pins	Art. No.	Art. No.	Art. No.	Art. No.
	Plug	Plug Locking Wedge	Receptacle	Receptacle Locking Wedge
2	887.DT06-2S	887.W2S	887.DT04-2P	887.W2P
3	887.DT06-3S	887.W3S	887.DT04-3P	887.W3P
4	887.DT06-4S	887.W4S	887.DT04-4P	887.W4P
6	887.DT06-6S	887.W6S	887.DT04-6P	887.W6P
8	887.DT06-8S	887.W8S	887.DT04-8P	887.W8P
12	887.DT06-12S	887.W12S	887.DT04-12P	887.W12P

DEUTSCH CONNECTORS

No. Pins	Art. No.	Art. No.	Art. No.	Art. No.
	Plug	Plug Locking Wedge	Receptacle	Receptacle Locking Wedge
2	887.DTM06-2S	887.WM-2S	887.DTM04-2P	887.WM-2P
3	887.DTM06-3S	887.WM-3S	887.DTM04-3P	887.WM-3P
4	887.DTM06-4S	887.WM-4S	887.DTM04-4P	887.WM-4P
6	887.DTM06-6S	887.WM-6S	887.DTM04-6P	887.WM-6P
8	887.DTM06-8S	887.WM-8S	887.DTM04-8P	887.WM-8P
12	887.DTM06-12S	887.WM-12S	887.DTM04-12P	887.WM-12P

Pins/Socket	Style	Size	Art. No.
Pin	Stamped	16 - 20 AWG	887.106020012
Socket	Stamped	16 - 20 AWG	887.106220012
Pin	Solid	20 - 24 AWG	887.4602022
Socket	Solid	20 - 24 AWG	887.4622011

No. Pins	Art. No.	Art. No.	Art. No.	Art. No.
	Plug	Plug Locking Wedge	Receptacle	Receptacle Locking Wedge
2	887.DTP06-2S	887.WP2S	887.DTP04-2P	887.WP2P
4	887.DTP06-4S	887.WP4S	887.DTP04-4P	887.WP4P

Pins/Socket	Style	Size	Art. No.
Pin	Solid	10 - 14 AWG	887.460204
Socket	Solid	10 - 14 AWG	887.462203
Pin	Stamped	10 - 14 AWG	887.106012016
Socket	Stamped	10 - 14 AWG	887.106212106

DTM Series

- Accommodates 16 - 20 AWG wire
- 20 GA - 7.5 Amps continuous
- Contact retention up to 20 lbs
- Silicone seals at front and rear provide water tight sealing
- Good for compact spaces

DTP Series

- Accommodates wire sizes from 10 - 14 AWG
- 25 amps continuous at +125 °C (257 °F)
- Multi-pin power connector
- Environmentally sealed
- Two and four pin arrangements
- Corrosion resistance: 48 hours of salt spray per MIL-STD 1344, method 1001

Numbering System Explained (Plugs and Receptacles)

Example:

Art. No. 887.DTM06-2S

● Prefix ● Deutsch Connector series (06: Plug / 04: Receptacle) ● Number of contacts ● Contact Type (S: Socket Plug / ● P: Pin Receptacle)

ASSORTMENTS



Art. No. 965.8873

Deutsch Connectors for 10-14 AWG Power Series

Contents (358 Pieces):

Pins, sockets and plug assemblies for Deutsch DTP series



Art. No. 965.8871

Deutsch Connectors for 14-18 AWG DT Series

Contents (599 Pieces):

Pins, sockets, and plug assemblies for Deutsch DT series



Art. No. 965.8872

Deutsch Connectors for 16-20 AWG Mini Series

Contents (424 Pieces):

Pins, sockets and plug assemblies for Deutsch DTM series

DEUTSCH SOLID CONTACT CRIMPING TOOL



- Creates a four-indent crimp providing the most uniform displacement of wire and contact material
- Ratchet design ensures full crimp is completed
- For solid contacts

Contact Size	Art. No.
12 AWG	887.AMSC12
14 - 18 AWG	887.AMSC16
20 - 22 AWG	887.AMSC20

DEUTSCH TERMINAL REMOVAL TOOLS



For the removal of contact/wire assemblies from DT series plugs.

Application:

- With rear insert toward you, snap appropriate size extractor tool over the wire of contact to be removed.
- Slide tool along wire into the insert cavity until it engages contact and resistance is felt.
- Pull contact/wire assembly out of connector.

NOTE: Do not twist tool or insert at an angle.

Colour	Wire Gauge	Art. No.	P. Qty
Red	20 GA	715.555330	5
Blue	16 GA	715.555320	
Yellow	12 GA	715.555310	

AMP SUPERSEAL 1.5 CONNECTORS



TE Superseal 1.5 Series.

Certification:

According to IEC 529 and DIN 40050 IP 67

Features:

Designed to meet the increasing requirements for reliability and waterproofness, Superseal connectors meet the sealing requirements outlined in IEC 529 and DIN 40050 IP 67 specifications. Primarily used in automotive, industrial and agricultural machinery.

- Compact system minimizes packaging requirements.
- Sealing reliability proven under harsh conditions.
- Designed for ease of manual harness assembly, engine mounting and under hood environments.

Applications:

- Wire to wire (1.5mm) and ECU applications, under hood or any location where sealing is required.
- Suitable for automotive, truck, bus or off-road vehicles.

Resistant to ozone, salts, gasoline, diesel fuel, brake fluid, anti-freeze/coolant, transmission gear lubricant, and motor oil.

Plug Housing	0555.1021	0555.1022	0555.1023	0555.1024	0555.1025	0555.1026
Socket Housing	0555.1031	0555.1032	0555.1033	0555.1034	0555.1035	0555.1036
Pack Size	10	20	20	10	10	10
# of poles	1	2	3	4	5	6
Wire gauge	22GA - 14GA (0.35-2.5mm ²)	22GA - 14GA (0.35-2.5mm ²)	22GA - 14GA (0.35-2.5mm ²)	22GA - 14GA (0.35-2.5mm ²)	22GA - 14GA (0.35-2.5mm ²)	22GA - 14GA (0.35-2.5mm ²)
IP Rating	IP 67	IP 67	IP 67	IP 67	IP 67	IP 67
Max voltage	24 V/DC	24 V/DC	24 V/DC	24 V/DC	24 V/DC	24 V/DC
Max amperage	14 A	14 A	14 A	14 A	14 A	14 A
Operating temperature	-40 to +125 °C	-40 to +125 °C	-40 to +125 °C	-40 to +125 °C	-40 to +125 °C	-40 to +125 °C
Material	Polyamide PA 6/6	Polyamide PA 6/6	Polyamide PA 6/6	Polyamide PA 6/6	Polyamide PA 6/6	Polyamide PA 6/6
Colour	Black	Black	Black	Black	Black	Black

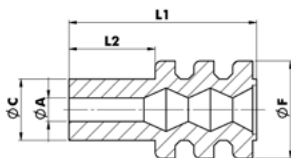
AMP SUPERSEAL CONNECTORS – PINS & SEALS



GA/ mm ²	Insul. dia. in mm	Seal dia. in mm	Plug in mm	Material	Surface	Art. No.	P. Qty.
22 - 20 GA (0.35 - 0.5)	1.2 - 1.6	3.40	1.5	CuSn	Sn (tinned)	0558.99580	100
18 - 16 GA (0.75 - 1.5)	1.7 - 2.4					0558.99582	
16 - 14 GA (1.5 - 2.5)	2.2 - 3.3					0558.99584	



GA/ mm ²	Insul. dia. in mm	Seal dia. in mm	Plug in mm	Material	Surface	Art. No.	P. Qty.
22 - 20 GA (0.35 - 0.5)	1.2 - 1.6	3.40	1.5	CuSn	Sn (tinned)	0558.99579	100
18 - 16 GA (0.75 - 1.5)	1.7 - 2.4					0558.99581	
16 - 14 GA (1.5 - 2.5)	2.2 - 3.3					0558.99583	



Drill dia. (mm)	Insul. dia. A (mm)	Dia. C (mm)	Dia. F (mm)	Length (mm)	Wire Gauge	Colour	Art. No.	P. Qty.
5.15	1.2 - 2.1	3.40	5.56	7.50	22 - 17 GA (0.35 - 1.0 mm ²)	Orange	0558.991406	100
	1.7 - 2.4		6.10	7.80	18 - 16 GA (0.75 - 1.5 mm ²)	Yellow	0558.99141	
	2.5 - 3.3		6.1		14 GA 2.5 mm ²	Red	0558.99142	
					Sealing Plug		0558.99145	

ASSORTMENT - AMP SUPERSEAL 1.5 CONNECTORS



Art. No. 5964.055501 - P. Qty. 1

440 pieces in a 4.4.1 System Case.

CONTENTS		
Description	Art. No.	P. Qty.
TE SUPERSEAL 1.5 SERIES PIN HOUSING 2 WIRE	0555.1022	4
TE SUPERSEAL 1.5 SERIES PIN HOUSING 3 WIRE	0555.1023	
TE SUPERSEAL 1.5 SERIES PIN HOUSING 4 WIRE	0555.1024	
TE SUPERSEAL 1.5 SERIES PIN HOUSING 5 WIRE	0555.1025	
TE SUPERSEAL 1.5 SERIES PIN HOUSING 6 WIRE	0555.1026	
TE SUPERSEAL 1.5 SERIES SOCKET HOUSING 2 WIRE	0555.1032	
TE SUPERSEAL 1.5 SERIES SOCKET HOUSING 3 WIRE	0555.1033	
TE SUPERSEAL 1.5 SERIES SOCKET HOUSING 4 WIRE	0555.1034	
TE SUPERSEAL 1.5 SERIES SOCKET HOUSING 5 WIRE	0555.1035	
TE SUPERSEAL 1.5 SERIES SOCKET HOUSING 6 WIRE	0555.1036	
SUPERSEAL WIRE SEAL YEL (14-12GA) DIA 3.4MM	0558.99141	100
SUPERSEAL WIRE SEAL RED (10-8GA) DIA 3.4MM	0558.99142	
SUPERSEAL PIN 1.5X0.8MM 20-14GA	0558.99581	
SUPERSEAL SOCKET 1.5X0.8MM 20-14GA	0558.99582	

AMP SEAL CRIMPING TOOL



Art. No. 0714.107130 - P. Qty. 1

Crimping plier with integrated locator.

Features & Benefits:

- Crimping pliers for TE Super Seal connectors.
- Integrated locator keeps pin in place while crimping.
- Dual crimp function crimps connector to wire and seal to wire simultaneously.



TECHNICAL INFORMATION	
Connector type	TE Super Seal
Min/Max wire cross section	22-16 GA/0.35-1.5mm ²
Number of crimping points	2 pieces
Locator	Yes
Length	190mm
Material	Tool steel
Surface	Burnished
Handle grip material	Plastic

RELEASE TOOLS



For contacts	Blade width approx. (mm)	Contact dimensions (mm)	Art. No.	P. Qty.
Contacts with one locking lug	1.48	1.5	0713.558241	1

For contacts	Blade width approx. (mm)	Contact dimensions (mm)	Art. No.	P. Qty.
Secondary interlock	-	-	0713.558610	1

ROSIN CORE SOLDER



60 Tin/40 Lead

- General purpose, automotive solder
- Solder thickness: 0.062" (1.57 mm)
- Solder can be easily dispensed through the red cap on the tube

Quantity	Art. No.
0.50 oz.	987.062
1 lb	987.063

SOLDER GUN / HEAT TORCH

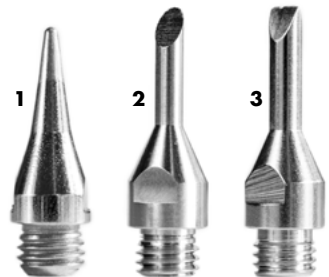


Art. No. 558.80

- Equivalent to a power range 30-125 watt
- Cordless, simple and safe to operate
- Ready to use 15 seconds after ignition
- Tank contains fuel for 200 minutes of operation

Additional Soldering Tips

#	Art. No.	Description	P. Qty.
1	558.80121	Standard Tip	1
2	558.80122	3mm Diagonal Tip	
3	558.80123	3.5mm Chisel Tip	



SOLDER SLUGS - FOR BATTERY TERMINALS



Gauge	Colour	Art. No.	P. Qty.
4	Grey	821.79501	10
2	Green	821.79502	
1	Pink	821.79503	
1/0	Black	821.79504	
2/0	Orange	821.79505	
3/0	Purple	821.79506	
4/0	Yellow	821.79507	

- Provides a high-quality termination without the need for expensive crimping tools
- Easily installed termination system
- Soldered connections provide maximum conductivity and superior tensile strength
- When used with an adhesive-lined heat shrink tubing, prevents cable corrosion
- Colour-coded pre-measured slugs conform to industry standards and ensure correct product identification
- Flux core prevents dirt and contaminants from hindering the soldering process. This is improved further through the use of a liquid flux.
- Installation only requires the use of standard shop tools: a propane torch and utility knife
- Works with any brand of closed-end battery terminals or starter lugs

Improperly installed connections leads to voltage drop, vibration damage and cable corrosion. Using solder slugs is easy, provides maximum conductivity and superior tensile strength. The use of an adhesive-lined heat shrink tubing prevents cable corrosion.



1. Strip the proper size cable so the exposed cable will reach the top of the battery terminal. The cable installation should fit snugly against the top. Insert proper size solder slug and apply solder flux.



2. Secure the battery terminal in a vise. Slide the proper size heat shrink tubing over the cable. Insert the exposed cable into the terminal. Heat the base of the battery terminal while applying gentle downward pressure on the cable.



3. As the solder melts, allow the cable to slide into the terminal until the installation is snug against the top of the terminal. Remove from heat. Slide the heat shrink tubing over the connection. Apply indirect heat to the tubing.



4. Allow connection to cool. You now have the most ideal connection.

NOTE: Solder used contains any or all of the following: antimony, cadmium, copper, indium, silver, iron, aluminum, nickel, arsenic, zinc, bismuth, gold, tin, lead. Meets specification J-STD-006.

Cutting Knife
Art. No. 715.6606
 Dual Wall Heat Shrink Tubing Prefix 775, 776

INDUSTRIAL BATTERIES



- Will not leak, short circuit, or pole-connect.
- Long shelf life.
- Cannot be recharged.
- Please recycle where possible.

Description	Voltage	Art. No.
AAAA Battery	1.5	827.00
AAA Battery		827.01
AA Battery		827.02
C Battery		827.03
D Battery		827.04
9 V Battery	9.0	827.05

LITHIUM BATTERIES



Designation	Art. No.	Qty.
AA, 1.5 V	827.00002	2

Advantages of Lithium Batteries

The lithium battery provides excellent advantages, especially in the operation of: camera flashes, digital cameras, remote-control cars, wireless devices, medical consumers and consumers that often require peak currents of much more than 1 A and for which these currents must also be immediately available over a long standby time. With a modern digital camera, lithium batteries can be used for well over 200 pictures with flash. In comparison, alkaline batteries manage only about 50-60 pictures.

- Currently the longest-lasting batteries in the world! Can be used for almost any device requiring a long operational availability or high current drain (high-current applications).
- Ready for operation from -20 °C to +60 °C at full performance
- Outstanding resistance to leakage
- 30 % lighter than conventional alkaline batteries
- Minimal self-discharge (very long shelf life: over 10 years)
- Not rechargeable!

- Greater energy density = longer service life
 - Very high current output
 - Very long storage life thanks to minimal self-discharge
 - Very wide temperature range for storage and operation
- With low-current consumers, e.g. wall clocks, alarm clocks, flashlights, etc., there is no notable advantage over alkaline batteries. For this reason, they do not need to be used with these products.

6 VOLT BLOCK BATTERY

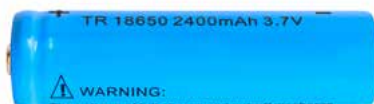


Features:

- Perfect for Rental Companies
- Mercury Free

Description	Output	Voltage	Art. No.	P. Qty
Block Battery	7 Ah	6	827.000001	1
	50 Ah		827.000002	

LITHIUM BATTERY 3.7V #18650



Description	Voltage	Art. No.	P. Qty.
Lithium Ion Battery #18650	3.7V	827.805600	1

Lithium Battery 3.7V Ultrafire 3.7V 2400mAh Li-ion. For use in the windshield UV lamp and Kit (Art. No. 891.634425)

Features:

- 3.7 V 2400mAh
- Full voltage - 4.2 V
- Cut-off discharge - 2.75 V

Benefits:

- One charge gives up to 4 hours with a constant discharge rate

BLOCK BATTERY 12V



Features:

- Top mount battery posts
- 12V 12Amp-hour
- Battery supplied dry with acid bottle
- Advanced lead-calcium technology

Benefits:

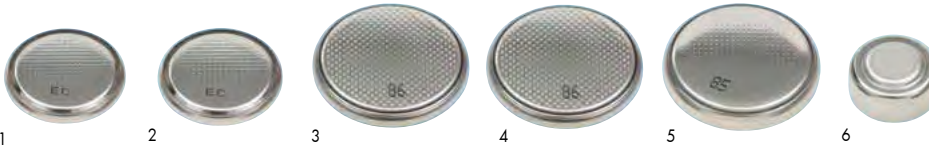
- Maintenance-free and spill-proof
- 200 plus cold cranking amps

- No need to add water but periodic charging required when not in use
- Multiple use battery for Trailer Testers, ATV and most motorcycles

***Note:** Recycle and dispose according to local authority regulations. Always refer to equipment manual before installing battery.

Art. No.	Dimensions (mm)	Voltage	Weight	P. Qty.
827.000003	150 x 87 x 145	12V 12AH	9.5 lbs.	1

BUTTON CELL BATTERIES



- Only minor auto discharging
- Can be used in a large temperature range
- High system voltage
- Long shelf life

IEC Des.	Other designation	Voltage in V	System	Dia. x H in mm	Fig.	Art. No.	P.Qty
CR 1220	DL 1220	3	Lithium	12.5 x 2	1	827.0851220	10
CR 1616	DL 1616	3	Lithium	16.0 x 2	1	827.0851616	
CR 1620	DL 1620	3	Lithium	16.0 x 2	1	827.0851620	
CR 1632	DL 1632	3	Lithium	16.0 x 3.2	2	827.0851632	
CR 2016	DL 2016	3	Lithium	20.0 x 1.6	3	827.0852016	
CR 2025	DL 2025	3	Lithium	20.0 x 2.5	4	827.0852025	
CR 2032	DL 2032	3	Lithium	20.0 x 3.2	5	827.0852032	
CR 2450	DL 2450	3	Lithium	24.5 x 5	5	827.0852450	
SR44/ LR 44	V13 GS (V13 GA); V357; A76	1.5	Silver oxide	11.6 x 5.4	6	827.08513	

Other Possible Applications		
Fitness	Pedometer, calorimeter, stopwatches, heart rate monitors	827.0852016, 827.0852032, 827.08513
	Personal scales	827.0852032
Health	Digital thermometers	827.08513, 827.0851616
	Blood sugar meters	827.0851620, 827.0852016, 827.0852025, 827.0852032
Toys	Toys and games	827.0852016, 827.0852025, 827.0852032, 827.08513
Electronic Devices	Remote controls	827.0852025, 827.0852032
	Pocket calculators/PDAs	827.0851620, 827.08513, 827.0851616
	Organizers	827.0852016, 827.0852025, 827.0852032
	Electronic levels	827.08513
Motor vehicle accessories	Garage door openers	827.0852032, 827.0851616
	Car alarm systems	827.08513, 827.0852450
Watches		827.0851620, 827.0852016, 827.0852025, 827.0852032, 827.08513
Misc.	Pet collars	827.0852032, 827.08513
	Laser pointers	827.08513
	LED lamps	827.0852016, 827.0852032, 827.0851616

ASSORTMENTS



Art. No. 964.827

Battery Assortment
Contents (52 Pieces):
 5 types of batteries (AAA, AA, C, D, 9V)



Art. No. 965.558

Electrical Essentials Service Kit
Contents (97 Pieces):
 Black electrical tape; Soldering gun/heat torch; Ratchet-style crimp tool;

04 CUTTING

- 5 Drill Bits**
- 13 Spot Weld Drill Bits**
- 15 Drill Indexes & Assortments**
- 16 Step Drills & Reamers**
- 18 End Mills**
- 19 Hole Saws & Mounting Hubs**
- 21 Extractor Sets**
- 23 Honing Stones & Carbide Burrs**
- 25 Taps**
- 30 Countersink Bits**
- 31 TIME-SERT® Thread Repair**
- 35 Saw Blades & Accessories**
- 46 Starlock Oscillating Blades**
- 50 Diamond Cutting Discs**
- 55 Diamond Cup Wheels**
- 57 Cutting Knives & Blades**



TAP AND DRILL CHART - CONVERSION TABLES

Metric and Imperial

UNC Unified National Coarse		
Size (inch)	Thread per inch	Recommended drill size
1	64	53
2	56	50
3	48	47
4	40	3/32
5	40	38
6	32	36
8	32	29
10	24	25
12	24	16
1/4	20	13/64
5/16	18	17/64
3/8	16	5/16
7/16	14	3/8
1/2	13	27/64
9/16	12	31/64
5/8	11	35/64
3/4	10	21/32
7/8	9	49/64
1	8	7/8
1-1/8	7	63/64
1-1/4	7	1-7/64
1-3/8	6	1-7/32
1-1/2	6	1-11/32
1-3/4	5	1-9/16
2	4 1/2	1-25/32

Metric Iso Coarse		
Size (mm)	Thread pitch	Recommended drill size
1.6	0.35	3/64
1.7	0.35	55
1.8	0	54
2	0.40	1/10
2.5	0.45	40
3	0.5	40
3.5	0.60	33
4	0.70	30
4.5	0.75	27
5	0.80	11/64
6	1.0	13/64
7	1.0	6.0
8	1.25	H
9	1.25	5/16
10	1.5	11/32
11	1.5	3/8
12	1.75	13/32
14	2.0	31/64
16	2.0	9/16
18	2.5	39/64
20	2.5	45/64
22	2.5	25/32
24	3.0	53/64
27	3.0	61/64
30	3.5	1-3/64
33	3.5	1-11/64
36	4.0	1-1/4
39	4.0	1-3/8

UNC Unified National Coarse		
Size (inch)	Thread per inch	Recommended drill size
0	80	3/64
1	72	53
2	64	50
3	56	45
4	48	42
5	44	37
6	40	33
8	36	9/64
10	32	21
12	26	14
1/4	28	7/32
5/16	24	17/64
3/8	24	Q
7/16	20	25/64
1/2	20	20/64
9/16	18	33/64
5/8	18	37/64
3/4	16	11/16
7/8	14	13/16
1	12	59/64
1	14*	15/16
1-1/8	12	1-3/64
1-1/4	12	1-11/64
1-3/8	12	1-19-64
1-1/2	12	1-27/64

Metric Iso Coarse		
Size (mm)	Thread pitch	Recommended drill size
4	0.35	3/64
5	0.35	55
6	0	54
7	0.40	1/10
8	0.45	40
10	0.5	40
10	0.60	33
12	0.70	30
12	0.75	27
12	0.80	11/64
14	1.0	13/64
16	1.0	6.0
18	1.25	H
18	1.25	5/16
20	1.5	11/32
20	1.5	3/8
22	1.75	13/32
22	2.0	31/64
24	2.0	9/16
24	2.5	39/64

CONVERSIONS EQUIVALENTS

Fraction/Decimal/Metric/Equivalents		
Fraction	Decimal	Metric
1/64	0.0156	0.40
1/32	0.0312	0.79
3/64	0.0468	1.19
1/16	0.0625	1.59
5/64	0.0781	1.98
3/32	0.0937	2.38
7/64	0.1093	2.78
1/8	0.1250	3.18
9/64	0.1406	3.57
5/32	0.1562	3.97
11/64	0.1718	4.36
3/16	0.1875	4.76
13/64	0.2031	5.16
7/32	0.2187	5.55
15/64	0.2343	5.95
1/4	0.2500	6.35
9/32	0.2656	6.75
19/64	0.2812	7.14
5/16	0.2968	7.54
21/64	0.3125	7.94
11/32	0.3281	8.33
23/64	0.3437	8.73
3/8	0.3593	9.13
25/64	0.3750	9.53
13/32	0.3906	9.92
27/64	0.4062	10.32
7/16	0.4218	10.71
29/64	0.4375	11.11
15/32	0.4531	11.51
31/64	0.4687	11.90
1/2	0.4843	12.30
33/64	0.5156	13.10

Fraction/Decimal/Metric/Equivalents		
Fraction	Decimal	Metric
17/32	0.5312	13.49
35/64	0.5468	13.89
9/16	0.5625	14.29
37/64	0.5781	14.68
19/32	0.5937	15.08
39/64	0.6093	15.48
5/8	0.6250	15.88
41/64	0.6406	16.27
21/32	0.6562	16.67
43/64	0.6718	17.06
11/16	0.6875	17.46
45/64	0.7031	17.86
23/32	0.7187	18.25
47/64	0.7343	18.65
3/4	0.7500	19.05
49/64	0.7656	19.45
25/32	0.7812	19.84
51/64	0.7968	20.24
13/16	0.8125	20.64
53/64	0.8281	21.03
27/32	0.8437	21.43
55/64	0.8593	21.83
7/8	0.8750	22.23
57/64	0.8906	22.62
29/32	0.9062	23.02
5/64	0.9218	23.41
15/16	0.9375	23.81
61/64	0.9531	24.21
31/32	0.9687	24.60
63/64	0.9843	25.00
1	1.0000	25.40

INCH to METRIC

1 inch = 25.400 millimetres
 1 foot = 0.3048 metres
 1 mile = 1.609 kilometers

SQ INCH to METRIC

1 sq. inch = 6.4516 sq. centimetres
 1 sq. foot = .0929 sq. metres

CU. INCH to METRIC

1 cu. inch = 16.387 cu. centimetres

IMPERIAL to METRIC

1 fluid ounce = 28.413 millilitres
 1 gallon = 4.546 litres

IMPERIAL to METRIC

1 ounce = 28.35 grams
 1 pound = .4536 kilograms

POUNDS/INCHES to METRIC

1 pound per square inch = .0703 kilogram per square centimetre
 1 pound per square inch = .0703 atmosphere (metric)

FAHRENHEIT to CELSIUS

(°F minus 32°) x .556 = °Celsius

REVERSIBLE - LEFT HAND DRILL BITS



Size	Decimal Equivalent	Flute Length	Overall Length	Art. No.
1/16"	.0625	7/8	1-7/8	624.11104
5/64"	.0781	1	2	624.11105
3/32	.0938	1-1/4	2-1/4	624.11106
7/64"	.1094	1-1/2	2-5/8	624.11107
1/8"	.1250	1-5/8	2-3/4	624.11108
9/64"	.1406	1-3/4	2-7/8	624.11109*
5/32"	.1562	2	3-1/8	624.11110
11/64"	.1719	2-1/8	3-1/4	624.11111*
3/16"	.1875	2-5/16	3-1/2	624.11112
7/32"	.2188	2-1/2	3-3/4	624.11114
15/64"	.2344	2-5/8	3-7/8	624.11115*
1/4"	.2500	2-3/4	4	624.11116
9/32"	.2812	2-15/16	4-1/4	624.11118
19/64"	.2969	3-1/16	4-3/8	624.11119
5/16"	.3125	3-3/16	4-1/2	624.11120
21/64"	.3281	3-5/16	4-5/8	624.11121*
11/32"	.3438	3-7/16	4-3/4	624.11122*
3/8"	.3750	3-5/8	5	624.11124
13/32"	.4062	3-7/8	5-1/4	624.11126*
7/16"	.4375	4-1/16	5-1/2	624.11128*
15/32"	.4688	4-5/16	5-3/4	624.11130*
1/2"	.5000	4-1/2	6	624.11132*

* Available OnDemand

Premium-grade industrial steel

P. Qty. 1

Designed for light to intermediate duty applications

Application:

- If you use a left-hand bit to drill the hole in a broken screw or bolt so you can extract it, the odds are good that the very act of drilling will remove the broken screw without ever needing to use an extractor. Your drill must be running in reverse when you use left-hand bits.
- Left handed drills allow a machining operation to continue when the spindle either cannot be reversed or where the design of the machine makes it more efficient to run left handed
- They may also be used as an aid in the removal of right-hand screws

Assortment

Left-hand Drill Bits - 29 pcs.

Art. No. 624.11100



THUNDERBIT® STUBBY DRILLS



Size	Decimal Equivalent	Flute Length	Overall Length	Art. No.
1/8	.1250	7/8	1-7/8	627.418
3/16	.1875	1-1/8	2-3/16	627.4316
1/4	.2500	1-3/8	2-1/2	627.414
17/64	.2656	1-7/16	2-5/8	627.41764*
9/32	.2812	1-1/2	2-11/16	627.4932*
5/16	.3125	1-5/8	2-13/16	627.4516
3/8	.3750	1-13/16	3-1/8	627.438

* Available by OnDemand

135° Split-Point, High Speed Steel, Black & Bronze Oxide

- 135° split-point for quick penetration and reduced "walking"
- Premium-grade M-7 industrial steel for longer life and heat resistance
- Unique flute design for superior material removal
- Short length and heavy-duty construction provides additional strength
- Ideal for use in medium- and high-tensile strength alloy materials

P. Qty. 1

Application areas:

Cast Iron; Low and Medium Carbon Steel; High Alloy Steel; Stainless Steel and PH; Tough-, Medium- and High-Tensile Strength Alloys; Wood

NUMBERED DRILL BITS



Size	Decimal Equivalent	Flute Length	Overall Length	Art. No.
45	.0820	1-1/8	2-1/8	627.045*
44	.0860	1-1/8	2-1/8	627.044*
43	.0890	1-1/4	2-1/4	627.043
42	.0935	1-1/4	2-1/4	627.042*
41	.0960	1-3/8	2-3/8	627.041*
40	.0980	1-3/8	2-3/8	627.040
39	.0995	1-3/8	2-3/8	627.039*
38	.1015	1-7/16	2-1/2	627.038*
37	.1040	1-7/16	2-1/2	627.037
36	.1065	1-7/16	2-1/2	627.036
35	.1100	1-1/2	2-5/8	627.035*
34	.1110	1-1/2	2-5/8	627.034*
33	.1130	1-1/2	2-5/8	627.033*
32	.1160	1-5/8	2-3/4	627.032
31	.1200	1-5/8	2-3/4	627.031*
30	.1285	1-5/8	2-3/4	627.030
29	.1360	1-3/4	2-7/8	627.029
28	.1405	1-3/4	2-7/8	627.028*
27	.1440	1-7/8	3	627.027*
26	.1470	1-7/8	3	627.026*
25	.1495	1-7/8	3	627.025
24	.1520	2	3-1/8	627.024*
23	.1540	2	3-1/8	627.023*
22	.1570	2	3-1/8	627.022
21	.1590	2-1/8	3-1/4	627.021
20	.1610	2-1/8	3-1/4	627.020*

- Replacements for ThunderBit® Number Drill Index (1-60) **Art. No. 627.102**
- 135° split point, High Speed Steel, black & bronze oxide
- Premium grade steel
- Heavy-duty construction
- Unique flute design for superior material removal

P. Qty. 1

Size	Decimal Equivalent	Flute Length	Overall Length	Art. No.
19	.1660	2-1/8	3-1/4	627.019*
18	.1695	2-1/8	3-1/4	627.018
17	.1730	2-3/16	3-3/8	627.017*
16	.1770	2-3/16	3-3/8	627.016*
15	.1800	2-3/16	3-3/8	627.015*
14	.1820	2-3/16	3-3/8	627.014
13	.1850	2-5/16	3-1/2	627.013*
12	.1890	2-5/16	3-1/2	627.012
11	.1910	2-5/16	3-1/2	627.011
10	.1935	2-7/16	3-5/8	627.010
9	.1960	2-7/16	3-5/8	627.009*
8	.1990	2-7/16	3-5/8	627.008*
7	.2010	2-7/16	3-5/8	627.007
6	.2040	2-1/2	3-3/4	627.006*
5	.2055	2-1/2	3-3/4	627.005*
4	.2090	2-1/2	3-3/4	627.004
3	.2130	2-1/2	3-3/4	627.003
2	.2210	2-5/8	3-7/8	627.002
1	.2280	2-5/8	3-7/8	627.001

* Available OnDemand

HIGH SPEED STEEL DRILL BITS

135° Split Point



Size	Decimal Equivalent	Flute Length	Overall Length	Art. No.
5/64"	0.0781"	1"	2"	624.564
3/32"	0.0938"	1-1/4"	2-1/4"	624.332
7/64"	0.1094"	1-1/2"	2-5/8"	624.764
1/8"	0.1250"	1-5/8"	2-3/4"	624.18
9/64"	0.1406"	1-3/4"	2-7/8"	624.964
5/32"	0.1562"	2"	3-1/8"	624.532
11/64"	0.1719"	2-1/8"	3-1/4"	624.1164
3/16"	0.1875"	2-5/16"	3-1/2"	624.316
13/64"	0.2031"	2-7/16"	3-5/8"	624.1364
7/32"	0.2188"	2-1/2"	3-3/4"	624.732
15/64"	0.2344"	2-5/8"	3-7/8"	624.1564
1/4"	0.2500"	2-3/4"	4"	624.14
17/64"	0.2656"	2-7/8"	4-1/8"	624.1764
9/32"	0.2812"	2-15/16"	4-1/4"	624.932
19/64"	0.2969"	3-1/16"	4-3/8"	624.1964
5/16"	0.3125"	3-3/16"	4-1/2"	624.516
21/64"	0.3281"	3-5/16"	4-5/8"	624.2164
11/32"	0.3438"	3-7/16"	4-3/4"	624.1132
23/64"	0.3594"	3-1/2"	4-7/8"	624.2364
3/8"	0.3750"	3-5/8"	5"	624.38
25/64"	0.3906"	3-3/4"	5-1/8"	624.2564
13/32"	0.4062"	3-7/8"	5-1/4"	624.1332
27/64"	0.4219"	3-15/16"	5-3/8"	624.2764
7/16"	0.4375"	4-1/16"	5-1/2"	624.716
29/64"	0.4531"	4-3/16"	5-5/8"	624.2964
15/32"	0.4688"	4-5/16"	5-3/4"	624.1532
31/64"	0.4844"	4-3/8"	5-7/8"	624.3164
1/2"	0.5000"	4-1/2"	6"	624.12
1/16"	0.06250"	7/8"	1-7/8"	624.116

HSS general purpose, straight shank, jobber drills are the most popular drill used by engineers, tradesmen and handymen.

- High speed Steel Material
- Black Oxide Coating
- Heavy-Duty Construction

P. Qty. 1

Works Best in This Material	Heavy-Duty Black Oxide
Aluminum/Aluminum Alloys; Bronze, Soft & Medium	
Iron, Cast	✓
Steel, Low & Medium Carbon	✓
Steel, High Alloy	✓
Steel, Stainless & PH	
Tough, Medium & High-Tensile Strength Alloys	✓
Wood & Plastic	

METRIC HSS DRILLS



Cold-formed assembly drill for working in steel, tip angle 118°

Drilling Depth: 5x drill bit diameter

Note: The drill shank is turned from the 13.0 mm dia. to a 12.7 mm dia.

P. Qty: 1

Size	Imperial Equivalent	Overall Length	Chip Flute Length	Art. No.
M1	1/32	34mm	12mm	625.10
M1.5	3/64	40mm	18mm	625.15
M2	5/64	49mm	24mm	625.20
M2.5	3/32	57mm	30mm	625.25
M3	7/64	61mm	33mm	625.30
M3.1	1/8-	65mm	36mm	625.31*
M3.2	1/8+	65mm	36mm	625.32
M3.5	9/64	70mm	39mm	625.35
M4	5/32	75mm	43mm	625.40
M4.2	11/64	75mm	43mm	625.42
M4.5	11/64+	80mm	47mm	625.45
M5	13/64	86mm	52mm	625.50
M5.5	7/32	93mm	57mm	625.55
M6	15/64	93mm	57mm	625.60
M6.3	1/4-	101mm	63mm	625.63*
M6.5	1/4	101mm	63mm	625.65
M7	17/64	109mm	69mm	625.70
M7.5	19/64	109mm	69mm	625.75
M8	5/16	117mm	75mm	625.80
M8.5	21/64	117mm	75mm	625.85
M9	11/32	125mm	81mm	625.90
M9.5	3/8	125mm	81mm	625.95
M10	25/64	133mm	87mm	625.100
M11	27/64	142mm	94mm	625.110
M12	15/32	151mm	101mm	625.120
M13.0	1/2	151mm	101mm	625.130

* Available OnDemand

**Drill Bit Assortment - M1-10 - 19 pcs.
Art. No. 634.4**



**Drill Bit Assortment - M1-13 - 25 pcs.
Art. No. 634.6**



HEAVY DUTY HSS BLACK & BRONZE OXIDE DRILL BITS

Straight Shank



Size	Decimal Equivalent	Flute Length	Overall Length	Art. No.	P. Qty	Bulk Art. No.	Bulk Qty
1/16"	0.0625	7/8"	1-7/8"	627.116	1	627.116-12	12
5/64"	0.0781	1"	2"	627.564		627.564-12	
3/32"	0.0938	1-1/4"	2-1/4"	627.332		627.332-12	
7/64"	0.1094	1-5/16"	2-3/8"	627.764		627.764-12	
1/8"	0.1250	1-7/16"	2-1/2"	627.18		627.18-12	
9/64"	0.1406	1-9/16"	2-5/8"	627.964		627.964-12	
5/32"	0.1562	1-11/16"	2-3/4"	627.532		627.532-12	
11/64"	0.1719	1-13/16"	2-7/8"	627.1164		-	

Ideal for drilling truck frames and stainless steel, 135° split point eliminates "walking", unique flute design enhances chip ejection.

- 135° Split Point
- Premium Grade High Speed Steel Material
- Black and Bronze Oxide Coating/Finish
- Heavy-Duty Construction. Sizes 3/16" and larger have 3 flats on shank

Works Best in This Material	Heavy-Duty Black Oxide
Aluminum/Aluminum Alloys; Bronze, Soft and Medium	
Iron, Cast	✓
Steel, Low and Medium Carbon	✓
Steel, High Alloy	✓
Steel, Stainless and PH	
Tough, Medium and High-Tensile Strength Alloys	✓
Wood and Plastic	

Tri-Shank



Size	Decimal Equivalent	Flute Length	Overall Length	Art. No.	P. Qty	Bulk Art. No.	Bulk Qty	
3/16"	0.1875"	1-7/8"	3"	627.316	1	627.316-12	12	
13/64"	0.2031"	1-5/16"	3-1/8"	627.1364		627.1364-12		
7/32"	0.2188"	2"	3-1/4"	627.732		627.732-12		
15/64"	0.2344"	2-1/16"	3-3/8"	627.1564		627.1564-12		
1/4"	0.2500"	2"	3-1/2"	627.14		627.14-12		
17/64"	0.2656"	2-1/8"	3-5/8"	627.1764		627.1764-12		
9/32"	0.2812"	2-1/4"	3-3/4"	627.932		627.932-12		
19/64"	0.2969"	2-3/8"	3-7/8"	627.1964		627.1964-6		6
5/16"	0.3125"	2-1/2"	4"	627.516		-		-
21/64"	0.3281"	2-9/16"	4-1/16"	627.2164		627.2164-6		6
11/32"	0.3438"	2-5/8"	4-1/8"	627.1132		627.1132-6		
23/64"	0.3594"	2-11/16"	4-3/16"	627.2364		627.2364-6		
3/8"	0.3750"	2-11/16"	4-1/4"	627.38	627.38-6			
25/64"	0.3906"	2-3/4"	4-5/16"	627.2564	-	-		
13/32"	0.4062"	2-13/16"	4-3/8"	627.1332	627.1332-6	6		

3/8" Reduced Shank



Size	Decimal Equivalent	Flute Length	Overall Length	Art. No.	P. Qty	Bulk Art. No.	Bulk Qty
27/64"	0.4219"	2-7/8"	4-7/16"	627.2764	1	627.2764-6	6
7/16"	0.4375"	2-15/16"	4-1/2"	627.716		627.716-6	
29/64"	0.4531"	3"	4-5/8"	627.2964		627.2964-6	
15/32"	0.4688"	3-1/8"	4-3/4"	627.1532		627.1532-6	
31/64"	0.4844"	3-1/4"	4-7/8"	627.3164		627.3164-6	
1/2"	0.5000"	3-3/8"	5"	627.12		627.12-6	

HEAVY DUTY HSS BLACK & BRONZE OXIDE DRILL BITS

1/2" Reduced Shank



- 118° Split Point, 1/2" Shank
- Premium Grade High Speed Steel Material
- Black and Bronze Oxide Coating

P. Qty: 1

Size	Decimal Equivalent	Flute Length	Overall Length	Art. No.
33/64"	0.5156"	3"	6"	627.3364
17/32"	0.5312"	3"	6"	627.1732
9/16"	0.5625"	3"	6"	627.916
37/64"	0.5781"	3"	6"	627.3764
19/32"	0.5938"	3"	6"	627.1932
39/64"	0.6094"	3"	6"	627.3964
5/8"	0.6250"	3"	6"	627.58
21/32"	0.6562"	3"	6"	627.2132
11/16"	0.6875"	3"	6"	627.1116
45/64"	0.7031"	3"	6"	627.4564*
23/32"	0.7188"	3"	6"	627.2332
3/4"	0.7500"	3"	6"	627.34
49/64"	0.7656"	3"	6"	627.4964
25/32"	0.7812"	3"	6"	627.2532
13/16"	0.8125"	3"	6"	627.1
27/32"	0.8438"	3"	6"	627.2732*
7/8"	0.8750"	3"	6"	627.78
29/32"	0.9062"	3"	6"	627.2932
15/16"	0.9375"	3"	6"	627.1516
1"	1.0000"	3"	6"	627.1
1-1/16"	1.0625"	3"	6"	627.11161
1-1/8"	1.1250"	3"	6"	627.118
1-3/16"	1.1875"	3"	6"	627.13161
1-1/4"	1.2500"	3"	6"	627.114
1-15/16"	1.3125"	3"	6"	627.15161
1-1/2"	1.5000"	3"	6"	627.112

* Available OnDemand

Assortment

Thunderbit Drill Index - 8 pcs.

Contains one of: 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1"

Art. No. 627.90595



SOLID CARBIDE TiAlN TWIST DRILL



Particularly suitable for drilling in high-strength steels, chromium-nickel steels, chilled cast iron, grey cast iron, cast steel, manganese high carbon steel, bronze, aluminum with high silicon content and other difficult-to-machine materials.

Features:

- Solid carbide with TiAlN coating
- Cylindrical shank
- 118 degree angle tip
- DIN 338

Applications:

- High-strength steels, chromium-nickel steels, chilled cast iron, grey cast iron, cast steel, manganese high carbon steel, bronze, aluminum with high silicon content and other difficult-to-machine materials

Diameter (mm)	Length (mm)	Chip Flute Length (mm)	Shaft Diameter (mm)	Art. No.	P. Qty.
2	49	24	2	544.3000351	1
4	75	43	4	544.3000371	
6	93	57	6	544.3000391	
8	117	75	8	544.3000411	
10	133	87	10	544.3000431	
12	151	101	12	544.3000437	

COMBI DRILLS / COUNTERSUNK BITS



- High speed steel
- Combined drill/countersunk
- Plain type
- 60° included countersunk angle

Application:

- Used for creating turning centers in bar stock so that the material can be turned or ground between centers in a lathe

P. Qty. 1

Drill Ø (D1)	Drill Length (L2)	Overall length (L1)	Diameter Ø (D2)	Art. No.
3/64	3/64	1-1/4	1/8	649.1
5/64	5/64	1-7/8	3/16	649.2
7/64	7/64	2	1/4	649.3
1/8	1/8	2-1/8	5/16	649.4
3/16	3/16	2-3/4	7/16	649.5
7/32	7/32	3	1/2	649.6
1/4	1/4	3-1/4	5/8	649.7

METRIC HSS DOUBLE-ENDED TWIST DRILL BIT



Metric HSS double-Ended Twist Drill Bit

- Right-hand cutting
- Special purpose grinding facilitates penetration of the drill into the material
- No centre punch required
- Drill does not drift from the drilling location
- Ideal for machining light gauge materials
- For drilling rivet holes

Diameter		Art. No.
(mm)	(inches)	
3.2	1/8 +	636.32
5	3/16	636.50
6.4	1/4	636.64

TWIST DRILL HSCO BRONZE



The affordable, robust drill bit for machining stainless steel and heat-resistant steels. Suitable for general, broad applications in steel up to 1000 N/mm² strength, as well as cast iron.

Features:

- Self-centering, extremely robust, quiet drilling and a high degree of break resistance
- Cylindrical shank
- 118 degree angle tip

Applications:

- Ideal for construction sites and assembly applications
- Stainless steel, steel, cast iron

Diameter (mm)	Length (mm)	Chip Flute Length (mm)	Drilling Depth (mm)	Art. No.	P. Qty.
3	61	33	15	635.010300	1
3.5	70	39	17.5	635.010350	
4	75	43	20	635.010400	
4.5	80	47	22.5	635.010450	
5	86	52	25	635.010500	
5.5	93	57	27.5	635.010550	
6	93	57	30	635.010600	
6.5	101	63	32.5	635.010650	
7	109	69	35	635.010700	
7.5	109	69	37.5	635.010750	
8	117	75	40	635.010800	
8.5	117	75	42.5	635.010850	
9	125	81	45	635.010900	
9.5	125	81	47.5	635.010950	
10	133	87	50	635.011000	
10.5	133	87	52.5	635.011050	
11	142	94	55	635.011100	
11.5	142	94	57.5	635.011150	
12	151	101	60	635.011200	
12.5	151	101	62.5	635.011250	

COBALT DRILL BITS



135° Split-Point, Cobalt, High Speed Steel, Bronze Oxide

**Assortment
Cobalt Drill Index 1/16-1/4
13 pcs.
Art. No. 626.100**

Size	Decimal Equivalent	Flute Length	Overall Length	Art. No.	P. Qty.
1/16	.0625	7/8	1-7/8	626.116	1
5/64	.0781	1	2	626.564	1
3/32	.0938	1-1/4	2-1/4	626.332	1
7/64	.1094	1-1/2	2-5/8	626.764	1
1/8	.1250	1-5/8	2-3/4	626.18	1
9/64	.1406	1-3/4	2-7/8	626.964	1
5/32	.1562	2	3-1/8	626.532	1
11/64	.1719	2-1/8	3-1/4	626.1164	1
3/16	.1875	2-5/16	3-1/2	626.316	1
13/64	.2031	2-7/16	3-5/8	626.1364	1
7/32	.2188	2-1/2	3-3/4	626.732	1
15/64	.2344	2-5/8	3-7/8	626.1564	1
1/4	.2500	2-3/4	4	626.14	1
17/64	.2656	2-7/8	4-1/8	626.1764	1
9/32	.2812	2-15/16	4-1/4	626.932	1
5/16	.3125	3-3/16	4-1/2	626.516	1
21/64	.3281	3-5/16	4-5/8	626.2164	1
23/64	.3594	3-1/2	4-7/8	626.2364	1
3/8	.3750	3-5/8	5	626.38	1
27/64	.4219	3-15/16	5-3/8	626.2764	1
29/64	.4531	4-3/16	5-5/8	626.2964	1
31/64	.4844	4-3/8	5-7/8	626.3164	1



Size	Decimal Equivalent	Flute Length	Overall Length	Art. No.	P. Qty.
11/32	.3438	3-7/16	4-3/4	Special order only	6
13/32	.4062	3-7/8	5-1/4	Special order only	6
7/16	.4375	4-1/16	5-1/2	Special order only	6
15/32	.4688	4-5/16	5-3/4	Special order only	6
1/2	.5000	4-1/2	6	Special order only	6

4 PLUS ROTARY HAMMER DRILL BIT



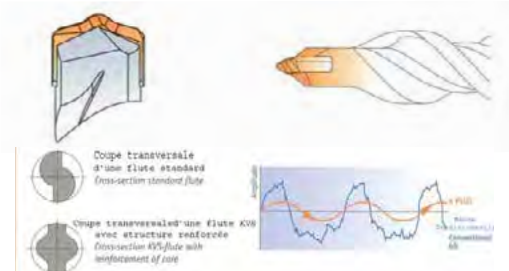
For use in concrete, masonry and natural stone

Compatible with SDS

- The new fast and durable carbide tip provides aggressive, easy centering and fast drilling from the very start. Steel reinforcement no longer presents a problem.
- The dynamic, chisel-shaped drill bit head penetrates rapidly into the material and simultaneously feeds the drilling dust into the multi-fluted spiral.
- The patented spacious, multi-fluted KVS-Spiral quickly removes drilling dust from the hole, saving both time and money.
- The unique reinforced flute geometry (KVS-flute) reduces vibration and transfers more impact energy from the hammer to the drilling head, thus remarkably increasing drilling speed and life expectancy. Drilling is less strenuous for the operator and for the rotary hammer.
- Modern thermal treatment and a special surface finish reduce the wear of the bit and improve its resistance against bending forces.

Dia. (in)	Working Length (in)	Total Length (in)	Art. No.
5/32	2	4 1/4	648.5322
5/32	4	6 1/4	648.5324
3/16	2	4 1/4	648.3162*
3/16	6	6 1/4	648.3164
7/32	6	8 1/4	648.7326
1/4	2	4 1/4	648.142*
1/4	4	6 1/4	648.144
1/4	6	8 1/4	648.146*
1/4	12	14	648.1412*
5/16	4	6 1/4	648.5164
3/8	4	6 1/4	648.384
1/2	8	10 1/4	648.128
5/8	6	8	648.586
5/8	10	12	648.5810

* Available OnDemand



4 PLUS DRILL SET



Art. No. 648.5

Compatible with SDS

Contains 1 each of:

3/6" x 4", 1/4" x 6", 5/16" x 6", 3/8" x 6", 1/2" x 6"

MASONRY DRILL BITS



118° point, carbide-tip, masonry, regular helix, black oxide

- Wide flutes improve dust removal
- For best performance, use slow speed and apply enough feed pressure to keep the drill cutting
- For recommended use in brick, concrete and sandstone

Size	Shank Dia.	Overall Length	Art. No.	P. Qty.
1/8"	1/8"	3"	647.18	2
5/32"	5/32"	3-1/2"	647.532	2
3/16"	3/16"	4"	647.316	2
1/4"	1/4"	4"	647.14.4	2
1/4"	1/4"	6"	647.14.6	2
5/16"	1/4"	4"	647.516.4	2
5/16"	1/4"	6"	647.516.6*	2
3/8"	1/4"	4"	647.38.4	2
3/8"	1/4"	6"	647.38.6	2
1/2"	1/4"	4"	647.12.4*	2
1/2"	3/8"	6"	647.12.6	2

* Available OnDemand

ASSORTMENTS



Art. No. 964.6272

Heavy Duty Drill Set - 30 pcs
15 assorted sizes, size range 1/16" - 1/2"



Art. No. 964.6274

Heavy Duty Drill Set - 40 pcs
20 assorted sizes, size range 1/16" - 3/8"

Note: When working on metals (except Cast Iron) use Würth Cutting Oil, **Art. No. 893.050004**. This will provide clean cutting and long service life.

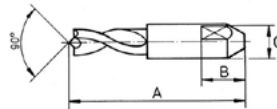
SPOT WELD DRILL BITS



Ø mm	Total Length mm	Flute length mm	Max. Speed	Art. No.
6	66	27	up to 1,200 rpm	710.0066
8	79	36	up to 950 rpm	710.0088
10	88	44	up to 730 rpm	710.01010

HSCO Spot Weld Drill Bit TiN - Titanium Nitride coated

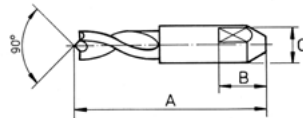
- Tool life extended two to three times
- High cutting speed



Drilling Ø mm	A mm	B mm	C mm	Max. RPM	Art. No.	P. Qty.
8	44.7	17	7.5	950	710.808	1

Suitable for C-clamp drills

- No need for centre punching
- High cutting speed



Drilling Ø mm	A mm	B mm	C mm	Art. No.	P. Qty.
6	44	16	7.5	710.60	1
8				710.80	
9				710.90	

HSCO Spot Weld Drill Bit

- Suitable for C-clamp drills
- No need for centre-punching



Note: Suitable for use with VARIO DRILL VD90 **703.090**



Ø mm	Total Length mm	Flute length mm	Max. Speed	Art. No.
6	66	27	up to 920 rpm	710.6
8	79	36	up to 700 rpm	710.8
10	86	41	up to 700 rpm	710.10

HSS Spot Weld Drill Bit

- Fixed centering point eliminates need for a centre punch



Drilling Ø mm	Stop Ø mm	Total length mm	Recommended RPM	Art. No.	P. Qty.
7.5	10	88	600 - 670	710.0010	1

HSCO Spot Weld Drill Bit with Step

For the quick and precise drilling out of spot welds in car bodywork repairs. The PLUS centering tip guarantees a long service life.

The step at the tip of the bit acts as a stop and indicates to the user the exact drilling depth.

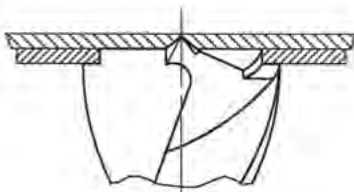
- This prevents unintentional drilling through into the second sheet of metal.

If the user notices that the step is touching the metal only on one side, then the drill is tilting.

- The tilt can then be easily corrected.

Improved PLUS centering tip for modern high-strength car body sheets.

- The centering tip has a long service life.



SPOT WELD DRILL BITS

Art. No. 698.1



Two Piece Spring Spot Weld Bit

Features:

- Right-hand cutting
- Special ground edge facilitates entry of the twist drill into the material
- No centre punch required
- Drill does not drift from the drilling location
- Spring loaded/Anti-skate tip
- Specially suitable for working on thin-gauge material

Areas of application:

- Bodywork & sheet metal processing workshops
- Apparatus construction

Additional tools:

Replacement end **Art. No. 698.01**



3-EDGED SOLID CARBIDE SPOT WELD CUTTER



For precision milling/drilling out of spot welds on vehicle bodies with high-strength steel plates in vehicles of all types, A-pillars, B-pillars, door sills, etc.

Excellent centering of the drill bit on the spot weld.

- Broad yet stable geometry.

Very long service life.

Drill bit tip features innovative Magma coating.

- Innovative layered coating of TiN and TiAN increases durability and performance.

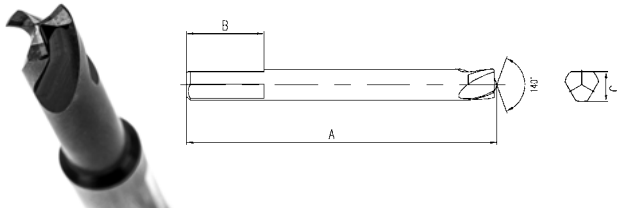
Applications:

- With its shorter length, **Art. No. 710.810800** is suitable for use with C-Clamp drills.
- With its triangular shaft, **Art. No. 710.811800** is only suitable for use in 3-jaw chucks drills.

Instructions:

- The solid carbide material is very brittle due to its extremely high hardness level and is susceptible to breakage if handled improperly.
- Insert drill bit precisely and at a right angle. First position the drill bit in the centre and then drill using consistent contact pressure.
- We recommend not exceeding a constant speed of 1800 rpm while drilling.

Note: The following must absolutely be avoided: interrupted cuts, abrupt bit contact, lateral impacts, and dropping the bit.



Art. No.	710.810800	710.811800
P. Qty.	1	1
Diameter - C	8 mm	8 mm
Length - A	45 mm	80 mm
Shank Length - B	35 mm	20 mm
Shank Diameter	7.5 mm	8 mm
Shank Type	Cylindrical with single flat	Triangular
Material	Carbide	Carbide

DRILL INDEXES & ASSORTMENTS



Art. No. 627.101

ThunderBit® Letter Drill - Index (A-Z)

Contents: 26 piece set, black & bronze oxide, high speed steel



Art. No. 627.102

ThunderBit® Number Drill - Index (1-60)

Contents: 60 piece set, bronze oxide, high speed steel.



Art. No. 627.100

ThunderBit® Drill Index

Contents: 29 drill bits, 1/16" to 1/2" by 64th, protective indexed metal case

NOTE: All dia. larger than 3/8" come with a reduced shank



Art. No. 634.4

Metric High Speed Steel Drill Bit Indexes - DIN 338

Contents: 19 twist drills from 1.0 x 10.0mm/0.5 mm intervals



Art. No. 627.1100

ThunderBit® Drill Index Mechanic's Size

Contents: 21 piece set, sizes 1/16" - 3/8"



Art. No. 634.6

Metric High Speed Steel Drill Bit Indexes - DIN 338

Contents: 25 twist drills from 1.0 x 13.0mm/0.5 mm intervals



Art. No. 627.90595

HSS Heavy Duty ThunderBit® Drill Index

Contents: Heavy duty 1/2" reduced-flatted shank Silver & demming drill det, black & bronze oxide. 8 pieces - One of Each: 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1", moulded plastic case



Art. No. 627.640627

ThunderTap® & ThunderBit® Bit Set

Contents: 9 taps and 9 matching drills: 6-32NC - #36, 8-32NC - #29, 10-24NC - #25, 10-32NF - #21, 1/4-20NC - #7, 5/16-18NC - F, 3/8-16NC - 5/16, 7/16-14NC - U, 1/2-13NC - 27/64



Art. No. 624.11100

Left-Hand Drill Assortment

Contents: 29 pieces



Art. No. 627.10

Empty Drill Index

Contents: 29 Compartments, 1/16" - 1/2"

HSS-E STEP DRILL

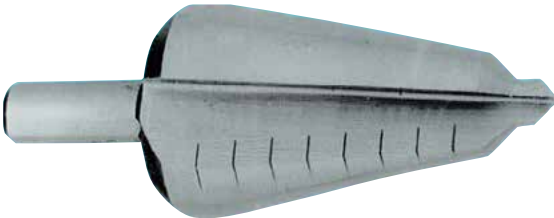


- CBN (cubical boron nitride) deep ground Suitable for material thickness up to 4 mm
- Centering, drilling and deburring in one step
- Less pressure needed due to specially ground opening angle per cutting step
- Sharp cutting edges produce exact hole sizes
- Extended service life due to radial and axial relief grinding
- Increase life span by using Würth Cut+Cool Cutting and Drilling Oil (**Art. No. 893.050004**)

Recommended Cutting Speed (RPM)

Non-Ferrous Metals	Steel Unhardened St 14-St 37	High Grade Stainless	Duro-Plastics	Thermo-Plastics	Drill Diameter mm	Art. No.	P. Qty.
2400-800	1350-460	1200-460	1200-400	1200-550	4-12	694.022412	1
2400-320	1350-185	1200-160	1200-160	1600-220	4-30	694.022430	

HSS REAMER



- CBN (cubical boron nitride) deep ground
- Universally suitable; stepless drilling and widening of holes with a diameter range of 3-20 mm
- Suitable for drilling thin sheet metal
- No counter sinking or pre-drilling required
- Burr-free drilling without deforming the sheet metal
- Excellent heat conductivity for improved tool life due to radial and axial relief grinding
- Increase life span by using Würth Cut+Cool Cutting and Drilling Oil (**Art. No. 893.050004**)

Size	Drill Diameter mm	Total Length mm	Shank Dia. mm	Art. No.
1	3-14	53	6	694.02414
2	5-20	61	8	694.02420

SPIRAL FLUTE CAR REAMER



Hole Buster™ super premium 50-AG flatted tri-shank design.

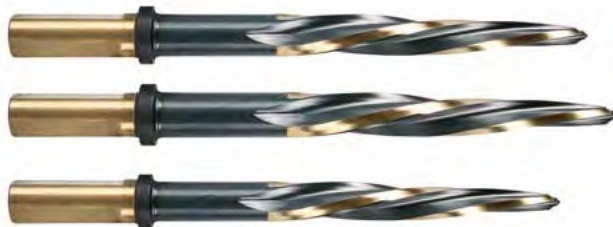
Designed for reaming of structural steel plate commonly found in truck frames, rail cars, bridges and pressure vessels.

- Special HI-TUNGSTEN tool steel
- All tools are constructed with left-hand spiral and right-hand cut Left spiral eliminates the tendency of the reamer to hog into holes; this feature makes a stop collar unnecessary

Diam. (inches)	Point Diameter	Min. Starting	Overall Length	Shank Diameter	Art. No.	P. Qty.
3/8"	.250"	5/16"	4 5/8"	3/8"	694.06390	1
1/2"	.281"	3/8"	5 7/8"	1/2"	694.06400	
9/16"	.343"	7/16"	5 7/8"	1/2"	694.06410	
5/8"	.343"	7/16"	6 3/8"	1/2"	694.06420	
3/4"	.406"	1/2"	6 7/8"	1/2"	694.06440	
1"	.594"	7/8"	6 7/8"	1/2"	694.06480	

Note: Use only to enlarge previously formed or drilled holes

SPIRAL REAMER SET



Art. No. 694.05000 P. Qty. 1

- 1/2", 3-flatted shank prevents slippage in three-jaw chuck
- High speed steel, black & bronze oxide
- Ideal for maintenance and repair

Size	Decimal Equivalent	Flute Length	Overall Length
1/2"	.5000	3-15/16"	5-15/16"
5/8"	.6250	4-1/2"	6-9/16"
3/4"	.7500	4-15/16"	7"

HSS END MILLS



Single End, Multi Flute, Non-Center Cutting

- Shank type: parallel shank with flat
- 4 spiral flutes
- Cutting length: regular, sizes 1/8" - 3/4"

Application:

To provide improved performance. For profile milling and producing open slots or pockets where a plunge feed-in is not required.

Size	Shank Dia.	Flute Length	Overall Length	No. of flutes	Art. No.	P. Qty.
3/16	3/8	1/2	2 3/8	4	654.316*	1
1/4		5/8	2 7/16		654.14	
5/16		3/4	2 1/2		654.516	
3/8		3/4	2 1/2		654.38	
7/16		1	2 11/16		654.716	
1/2	1/2	1 1/4	3 1/4		654.12	
3/4	1/2	1 5/8	3 5/8		654.34*	

END MILL HSS-CO8



Suitable for a wide range of applications including both low-strength and difficult-to-machine materials.

Features:

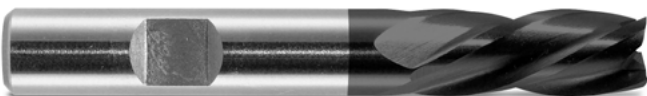
- Quality high speed steel with 8% cobalt
- 90 degree angle tip
- DIN 844K, centre-cutting

Applications:

- Construction and tool steels
- Also suitable for non-ferrous metals, cobalt and nickel alloys, titanium and titanium alloys

Diameter (mm)	Length (mm)	Chip Flute Length (mm)	Shaft Diameter (mm)	Art. No.	P. Qty.
4	55	11	6	544.3600605	1
5	57	13	6	544.3600607	
6	57	13	6	544.3600609	
8	69	19	10	544.3600613	
10	72	22	10	544.3600617	
12	83	26	12	544.3600619	
14	83	26	12	544.3600621	
18	92	32	16	544.3600624	
20	104	38	20	544.3600625	

END MILL HSS-CO8 TiAlN



Suitable for a wide range of applications including both low-strength and difficult-to-machine materials.

Features:

- TiAlN coating provides faster cutting, longer service life and overall greater performance
- Quality high speed steel with 8% cobalt and TiAlN coating
- 90 degree angle tip
- DIN 844K, centre-cutting
- Superior performance
- Long service life

Applications:

- Construction and tool steels
- Also suitable for non-ferrous metals, cobalt and nickel alloys, titanium and titanium alloys

Diameter (mm)	Length (mm)	Chip Flute Length (mm)	Shaft Diameter (mm)	Art. No.	P. Qty.
2	51	7	6	544.3600641	1
4	55	11	6	544.3600645	
5	57	13	6	544.3600647	
6	57	13	6	544.3600649	
8	69	19	10	544.3600653	
10	72	22	10	544.3600657	
12	83	26	12	544.3600659	
14	83	26	12	544.3600661	
18	92	32	16	544.3600664	
20	104	38	20	544.3600665	

HSS-CO8 BI-METAL HOLE SAWS



Properties

Versatility:	●●●●
Service life:	●●●●
Drilling speed:	●●●●
Drill-hole quality/precision:	●●●●

Steel
Stainless Steel

High drilling speed and long service life, even when drilling solid stainless steel materials.

Extremely fast sawing with minimal expenditure of force
Newly developed tooth shape

High concentric and side-stroke precision
Sturdy base plate with more threads

Low vibration up to a cutting depth of 38mm

Combination Vario teeth made of M42 bi-metal (8% cobalt)

Instructions:

Pre-drill using light contact pressure. Continue drilling with minimal, even pressure; avoid oscillating while drilling. Follow speed guidelines and use coolant. Allow hole saw to "air" when using with wood and wood alternatives.

Materials to be processed

Steel, stainless steel, cast iron, copper, bronze, aluminum, wood and plastic

Size		Recommended Speed in RPM					Art. No.
mm	inches	Steel	Stainless Steel	Cast Iron	Brass	Aluminum	
19mm	3/4"	460	230	300	600	690	632.19
22mm	7/8"	390	195	260	520	585	632.22
25mm	1"	350	175	235	470	525	632.25
29mm	1-1/8"	300	150	200	400	450	632.29
32mm	1-1/4"	275	140	180	360	410	632.32
35mm	1-3/8"	250	125	165	330	375	632.35
38mm	1-1/2"	230	115	150	300	345	632.38
41mm	1-5/8"	210	105	140	280	315	632.41
44mm	1-3/4"	195	95	130	260	295	632.44
51mm	2"	170	85	115	230	255	632.51
54mm	2-1/8"	160	80	105	210	240	632.54
57mm	2-1/4"	150	75	100	200	225	632.57
64mm	2-1/2"	135	65	90	180	205	632.64
70mm	2-3/4"	125	60	80	160	185	632.70
76mm	3"	115	55	75	150	170	632.76
89mm	3-1/2"	95	45	65	130	145	632.900089
102mm	4"	85	40	55	110	130	632.102
111mm	4-3/8"	80	40	50	100	120	632.900111
114mm	4-1/2"	75	35	50	100	105	632.900114
121mm	4-3/4"	70	35	45	90	95	632.900121
127mm	5"	65	30	40	85	90	632.900127
140mm	5-1/2"	60	30	35	80	85	632.900140
152mm	6"	55	25	35	75	85	632.900152
200mm	7-7/8"	45	20	30	60	65	632.900200

Mounting Hub A2 (with pilot drill bit)



for dia. 32-152 mm Shank dia. 11mm, hex	Art. No. 632.02	P. Qty. 1
--	----------------------------------	---------------------

Pilot Drill AO14C (for mount A2)



dia. 6.35 mm (1/4"), short type	Art. No. 632.014	P. Qty. 1
---------------------------------	-----------------------------------	---------------------

Mounting Hub A4 (with pilot drill bit)



dia. 14-30 mm, Shank dia. 6.35 mm	Art. No. 632.04	P. Qty. 1
--------------------------------------	----------------------------------	---------------------

Pilot Drill AO14D (for mount A4)



dia. 6.35 mm (1/4"), long type	Art. No. 632.0141	P. Qty. 1
--------------------------------	------------------------------------	---------------------

Note: When working on metals (except Cast Iron) use Cut+Cool Cutting and Drilling Oil **Art. No. 893.050004**. This will provide clean cutting and long service life.

BI-METAL HOLE SAW ASSORTMENT – 16 PCS



Art. No. 5964.063291

Steel

Stainless Steel

Best suited for:



Extremely fast sawing with minimal expenditure of force

Newly developed tooth shape

High concentric and side-stroke precision

Sturdy base plate with more threads

Low vibration

Combination Vario teeth made of M42 bi-metal (8% cobalt)

Materials to be processed:

Steel, stainless steel, cast iron, copper, bronze, aluminum, wood and plastic.

Kit Contents

Size		Recommended Speed in RPM					Art. No.
Mm	In.	Soft Steel	Tool Steel & Stainless Steel	Cast Iron	Brass	Aluminum	
19	3/4	460	230	300	600	690	632.19
22	7/8	390	195	260	520	585	632.22
25	1	350	175	235	470	525	632.25
32	1-1/4	275	140	180	360	410	632.32
35	1-3/8	250	125	165	330	375	632.35
38	1-1/2	230	115	150	300	345	632.38
44	1-3/4	195	95	130	260	295	632.44
51	2	170	85	115	230	255	632.51
57	2-1/4	150	75	100	200	225	632.57
64	2-1/2	135	65	90	180	205	632.64
68	2-11/16	130	65	85	170	195	0632 900 068*
76	3	115	55	75	150	170	632.76

*Available through Special Orders

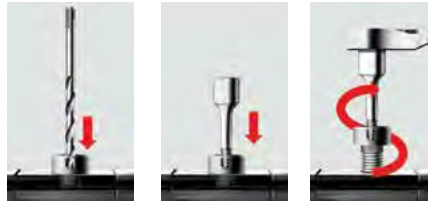
Art. No.	Description	Qty.
632.02	Mounting Hub A2	1
632.04	Mounting Hub A4	
0632 07*	Slinger Spring A7	
0632 05*	Extension for Hold Saw	

*Available through Special Orders

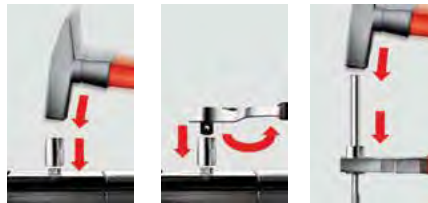
SCREW EXTRACTION SET 15PCS



Application: Internal extractor:



External extractor:



Art. No. 714.131150

Problem solver for stripped or rusty Allen and Torx screw heads. Also for hexagonal bolts and nuts

- Precisely manufactured conical spiral profile
- All sockets also have a wrench flat for the external drive
- Supplied in metal box with high-quality foam insert with clamping effect
- Suitable for impact wrenches

Easy unscrewing of stripped bolt heads and nuts

Thanks to conical spiral profile

Saves lots of time

Thanks to quick loosening instead of heating or drilling out

Applications:

For repair and removal work in any motor vehicle/utility vehicle workshop, locksmith's shop, metal construction etc

Notes on use for internal extractor:

Select the appropriate extractor and screw it into the screw with 3/4" or 1/2" ratchet. Thanks to its aggressive conical spiral shape, the extractor grips securely into the material of the screw, allowing it to be securely unscrewed. Also ideal for unscrewing torn-off bolts and screws. Tap torn-off bolt or screw. Drill up to a half millimetre larger with dias. up to 6 mm. Drill up to one millimetre larger with dias. of 8-14 mm. Select the appropriate extractor, screw it into the drilled hole and then unscrew the screw or bolt.

Designation	Length	Wrench & Size	Art. No.	Qty	
3/8" Long Internal Extractor, 6 mm	60mm		714.131206	1	
3/8" Long Internal Extractor, 8 mm			714.131208		
3/8" Long Internal Extractor, 10 mm			714.131210		
1/2" Long Internal Extractor, 12 mm	78mm		714.131212		
1/2" Long Internal Extractor, 14 mm			714.131214		
3/8" Spiral Socket 10 mm	36mm		17		714.131310
3/8" Spiral Socket 12 mm			19		714.131312
3/8" Spiral Socket 13 mm					714.131313
3/8" Spiral Socket 14 mm			714.131314		
1/2" Spiral Socket 16 mm			21		714.131316
1/2" Spiral Socket 17 mm		714.131317			
1/2" Spiral Socket 18 mm		26	714.131318		
1/2" Spiral Socket 19 mm			714.131319		
3/8" Expulsion Mandrel	74mm		714.131360		
1/2" Expulsion Mandrel	80mm		714.131370		
Metal Box, size 1	220x110x35mm		955.7151		
Hard Foam with clamping effect	215x105x30mm		955.131300		

Note: Item Sold Separately by Special Order Only

DRILL-OUT® POWER EXTRACTOR KIT



Recommended Sizes	
Dia. (mm)	Dia. (inch)
6	1/4
8	5/16
10	3/8
12	1/2

Art. No. 698.401

- Can drill into grade 8 and stainless steel bolts
- Self-centering tip
- Fast, easy time saving operation
- Reusable
- Left hand drill bit and extractor all in one

Applications:

- Auto mechanics
- Machinery rebuilder/repairmen
- Maintenance engineers and technicians

BOLT/STUD EXTRACTOR SET



Art. No. 690.14

- Studs which have been sheared off level to the surface or are emerging from the surface have to be centre punched
- If the stud is broken below the surface, the bore has to be drilled down to the shear point according to the external diameter of the drill guide. Pre-drill the broken stud.
- Enlarge the hole for correct mandrel
- Hammer mandrel into hole
- Slide nut to bottom of mandrel and unscrew bolt gently without tilting

Contents:

- Drill Guides A-K
- Drills: 3.2/4.8/6.4/8.0/8.7
- Mandrels and removing nuts

For Bolt Dia.		Drill Guides			Pre-drill (mm)	Final draft without drill guide (mm)	Mandrel & removing g Nut A/F
mm	inches	Guide Ext. (mm)	For Drill (mm)	For Drill Letter			
M6	1/4	6	3.2	A	3.2	-	10
M7	9/32	8		B			
M8	5/16	9		C			
M9	3/8	10	4.8	D	4.8	4.8	11
M10	7/16			E			
M12	1/2	11	4.8	F	4.8	6.4	13
M14	9/16	12		G			
M16	5/8	13		H			
		14	6.4	I	6.4	8.0	14
				J		8.7	17
				K			

"EASY OUT" STUD EXTRACTOR SET



Art. No. 695.684353

- For removing broken-off studs or bolts
- Durable chrome vanadium forged steel construction
- Convenient plastic storage case

Applications:

- Determine size of the fastener that needs to be extracted
- Select stud extractor 1-5 and the recommended drill size
- Drill hole in the centre of the fastener, then turn extractor counter clock wise into the drilled hole
- Broken stud/bolt will back out without damaging the threaded hole

Size	For Screws		Length	Rec. Drill Size	
	mm	inch		mm	Gauge
1	M3-6	1/8 - 1/4	50	1.8	#50
2	M6-8	1/4 - 5/16	57	2.6	#38
3	M8-11	5/16 - 7/16	64	3.7	#27
4	M11-14	7/16 - 9/16	71	5.5	7/32
5	M14-18	9/16 - 3/4	78	7.0	J'

HONING STONE SET

Art. No. 680.10 – 10 pc. set



A set of 10 stones for precise bore sizing, deburring and surface finishing

Contents: one of each size below

Available quality: special fused alumina

Binding: ceramically bound

Color: pink

Shaft diameter: 6 mm

Specially suitable for grinding of steel

Ø x L mm	Grit	Description acc. DIN 69170	Grinding Wheel Head	Picture No.	Art. No.	Individual Order Qty.	P. Qty.
20 x 30	30	ZY	Cylinder	5	680.75	5	1
13 x 20	30	ZY 1320	Cylinder	4	680.72		
20 x 12	30	ZY	Disc	2	680.74		
20 x 20	30	KE 2020	Conical	7	680.21		
13 x 20	30	SP 1320	Tapered	8	680.41*		
10 x 13	46	ZY1013	Cylinder	3	680.71*	10	
20 x 6	46	ZY 2006	Disc	1	680.73*		
20 x 25	30	WK 2025	Cylindrical Cone	10	680.51*		
20 x 25	30	WK 2025	Cylindrical Round	9	680.61*		
16	30	KU 16	Round	6	680.31*		

* Available OnDemand

CARBIDE BURRS

- Carbide material offers much longer tool life compared to common tool materials
- Suitable for work on hard/exotic materials
- Crossed pattern is universally suitable for working on stainless steels, high strength steel, black iron, welding seams, hard plastics, hardened steels

Cylindrical Type



Head Dia.	Shank Dia.	Flute Length	Overall Length	Art. No.	P. Qty.
1/4"	1/4"	5/8"	2"	616.160616	1
3/8"	1/4"	3/4"	2 1/2"	616.161019	
1/2"	1/4"	1"	2 3/4"	616.112001	
1/4"	1/8"	1/2"	2"	616.114012*	

Cylindrical Round Type



Head Dia.	Shank Dia.	Flute Length	Overall Length	Art. No.	P. Qty.
1/4"	1/4"	3/4"	2"	616.260616	1
3/8"	1/4"	3/4"	2 1/2"	616.261025	
1/2"	1/4"	1"	3"	616.212034*	
1/4"	1/8"	1/2"	1 3/4"	616.214012*	
3/8"	1/4"	3/4"	6 3/4"	616.238034	
1/2"	1/4"	1"	2 3/4"	616.461322†	

* Aluma Cut † Tapered

Ball Type



Head Dia.	Shank Dia.	Flute Length	Overall Length	Art. No.	P. Qty.
1/4"	1/4"	1/4"	2"	616.314014	
3/8"	1/4"	5/16"	2 1/8"	616.338038	
1/2"	1/4"	7/16"	2 1/4"	616.312012	

* Available OnDemand

CARBIDE BURRS



Tapered Type / Tree Shaped Radius

Head Dia.	Shank Dia.	Flute Length	Overall Length	Art. No.	P. Qty.
1/2"	1/4"	1"	2 3/4"	616.561332	1
1/4"	1/4"	3/4"	2"	616.514034	
3/8"	1/4"	3/4"	2 1/2"	616.538078	
1/4"	1/8"	1/2"	2"	616.514012 *	
1/2"	1/4"	1"	7"	616.512001	
3/8"	1/4"	3/4"	6 3/4"	616.538034 *	



Conical Type/ Tree Shaped Pointed

Head Dia.	Shank Dia.	Flute Length	Overall Length	Art. No.	P. Qty.
1/4"	1/4"	11/16"	2"	616.660616	1
3/8"	1/4"	3/4"	2 1/2"	616.661019	
1/8"	1/8"	1/2"	1 1/2"	616.618012 *	
1/2"	1/4"	1"	3"	616.612001	

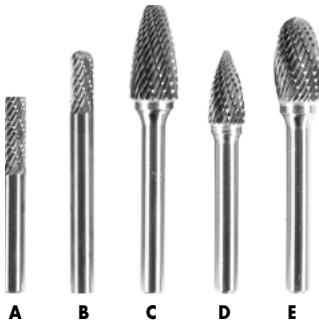


Oval Shaped Type

Head Dia.	Shank Dia.	Flute Length	Overall Length	Art. No.	P. Qty.
1/4"	1/8"	3/8"	1 7/8"	616.714716	1

* Available OnDemand

CARBIDE BURR ASSORTMENTS



Art. No. 616.105

Carbide Burrs

Contains: 5 Pieces
A: Art. No. 616.160616
B: Art. No. 616.260616
C: Art. No. 616.561332
D: Art. No. 616.661019
E: Art. No. 616.461322



Art. No. 616.205

Mini Carbide Burrs

Contains: 9 pieces with a 1/8" shank and 1/4" head
 1 x cylindrical type - 1/8", 1 x cylindrical type with teeth on end face - 1/8", 1 x inverted conical type - 1/8", 1 x ball nose cylinder - 1/8", 1 x ball type - 1/8", 1 x ball nose cylinder - 1/8", 1 x tapered type/tree shaped radius - 1/8", 1 x conical type/tree shaped pointed - 1/8", 1 x conical type/tree shaped pointed - 1/8"

Art. No. 616.305

Extended Carbide Burrs

Contains: 4 pieces with a 1/4" shank
 1 x 3/8" dia., ball nose cylinder, double cut - 6 3/4",
 1 x 3/8" dia., conical type/tree shaped pointed, double cut - 6 3/4",
 1 x 1/2" dia., tapered type/tree shaped radius, double cut - 7",
 1 x 1/2" dia., ball type, double cut - 6 1/2"



TAPPING MACHINE TAPS HSS-E

For pocket and through holes, for fabrication of metric ISO threads DIN 13 according to tolerance range 6H Outstanding features of Zebra tapping machine taps:

Highest quality:

- Cobalt alloyed basic materials
- Constant material receiving inspections
- Highest precision in production

Special geometry:

- Low wear
- Better chip removal
- More accurate thread

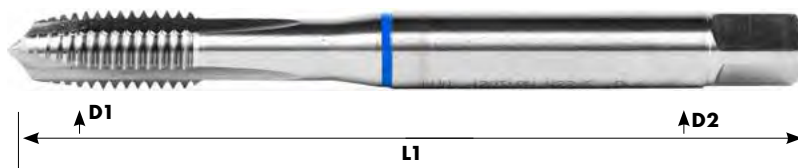
Application areas:

Unalloyed steels and tempering steels up to approx. 1000 N/mm strength, machining steels, brass, long-chipping, steel castings, aluminum above 10% Si, zinc alloy, synthetics, copper, gunmetal.

++ Good suitability + Limited suitability

Material groups	Material Designations Examples	Cutting speed V = m/min	Speed at Ø					Blue Ring	
			3	5	8	12	18	653...	653.0
Unalloyed steels up to 800 N/mm ²	C10, C35, CK10, CK35, 9S20, 9SMn28, 9SMnPb36, Si33-, ST60-2	10-15	1062-1592	637-955	398-597	295-398	199-299	++	++
Unalloyed steels up to 1000 N/mm ² Tempering steels	C45, C60, CK45, CK60, 16MnCr5, 45S20, 60S20, 41Cr4, 36Mn5, 42CrMo4, C60W3/C135W2	4-10	425-1062	255-637	159-398	106-295	71-177	++	++
Alloyed tool steels, rust and acid resistant steels	14NiCr18, 54NiCrMoS6, X10Cr13, X100CrMoV51	4-8	425-849	255-509	159-318	106-212	71-142	+	+
Steel casting, annealed cast iron, nodular graphite iron	GS-38, GS-45, GS-70, GTW35, GTW60, GTS35, GTS70, GGG38, GGG45, GGG70	6-12	637-1274	382-764	239-478	159-318	106-212	++	++
Copper	F-Cu, SF-Cu	15-20	1592-2123	955-1274	597-796	398-531	299-354	+	+
Electrolytic copper	KE-Cu, E-Cu	8-15	849-1592	509-955	318-597	212-398	142-299		+
Brass, long-chipping	CuZn37 (Ms63), CuZn10, CuZn30	15-20	1592-2123	955-1274	597-796	398-531	299-354	++	+
Bronze, soft, gunmetal Tin bronze	G-CuSn10Zn, CuSn8 (SnBz8), G-CuSn5ZnPb(Rg5), (Rg10)	5-12	531-1274	318-764	199-478	133-318	88-212	++	+
Bronze, hard	CuAl8(AlBz8), CuAl10(AlBz10Ni), Eterna bronze, beryllium bronze	5-10	531-1062	318-637	199-398	133-265	88-177	+	
Al alloy < 10%	G-ALSi6Cu4, G-ALSi10Mg, Si G-ALSi5Cu1	18-20	1911-2123	1146-1274	717-796	478-531	318-354	+	
Al alloy < 10%	G-ALSi12, GD-ALSi12, Si ALSi12CuNi	14-16	1486-1699	892-1019	557-637	372-425	248-283	++	++
Zinc alloy	GD-ZnAl4, GD-ZnAl4Cu1, GK-ZnAl4Cu3, GK-ZnAl6Cu1	20-25	2123-2654	1274-1592	796-955	531-663	354-442	+	

TAPPING MACHINE TAPS HSS-E

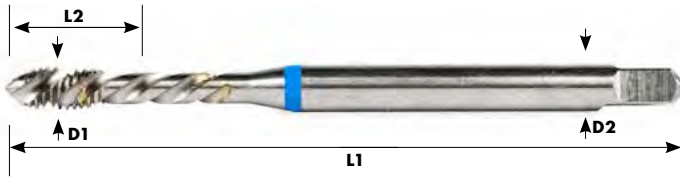


Ø = D1	Pitch	D2	L1	L2	Square size mm	Art No.	P. Qty.
M5	0.8	6.0	70	14	4.9	653.5	1
M6	1.0	6.0	80	16	4.9	653.6	
M8	1.25	8.0	90	18	6.2	653.8	
M10	1.5	10.0	100	20	8.0	653.10	

Through hole

Technical Data	
Surface	Bright
Groove	Straight grooved
Relief grinding	Flanks relief ground
Shaft	Up to M10 reinforced shaft, from M12 overrun shaft
Centering	Up to M5 solid tip, M6 - M10 turned tip, from M12 interior centering
Thread depth	M2.5 approx. 2.5 x d; M3-M10 approx. 3 x d1; from M12 approx. 3 x d1
Chamfer	4-5 turns, curling tap

TAPPING MACHINE TAPS HSS-E



Ø = D1	Pitch	D2	L1	L2	Square size mm	Art No.	P. Qty.
M4	0.7	4.5	63	8	3.4	653.04	1
M5	0.8	6.0	70	10	4.9	653.05	
M6	1.0	6.0	80	12	4.9	653.06	
M8	1.25	8.0	90	15	6.2	653.08	

Plug hole

Technical Data	
Surface	Bright
Groove	40° right grooved
Relief grinding	Flanks relief ground
Shaft	Up to M10 reinforced shaft, from M12 overrun shaft
Centering	Up to M5 solid tip, M6 - M10 turned tip, from M12 interior centering
Thread depth	approx. 3 x d1
Chamfer	short, 2-3 turns

EUROPEAN-STYLE METRIC HAND TAPS

These hand taps are designed for a gradual multi-step tapping process. This tapping process is easier and results in less crooked threads and a more precise finish.

- **First:** This tap is for preliminary cutting of threads. It creates a partial cut, and must be followed by the Finishing tap to complete the thread cutting.
- **Finishing:** This tap is for final thread cutting and is a required step when using the First tap. It results in a fully finished thread.
- Specially designed for high speed, close tolerance tapping applications
- Can be used with a variety of ferrous and non-ferrous materials, in through or blind holes

Applications:

- Ideal for brass or cast iron fittings.
- Suitable for engine or brakes; specifically for making threads for bolts.



Assortment Hand Tap Set - 21 pcs. Art. No. 639.01

1 set of First, Second and Finishing metric coarse taps for each of M3, M4, M5, M6, M8, M10, M12.



DIN 352 HSS

Taps for metric ISO threads (metric "coarse") according to DIN 13

Thread Ø mm	Pitch	Length	Thread length	Shank Ø	Square Shank	First Art. No.	Finishing Art. No.	P. Qty.
M6	1mm	50mm	16mm	6mm	4.9mm	640.1..6	640.3..6	1
M8	1.25mm	56mm	22mm	6mm	4.9mm	640.1..8	640.3..8	
M10	1.5mm	70mm	24mm	7mm	5.5mm	640.1..10	640.3..10	
M12	1.75mm	75mm	29mm	9mm	7mm	640.1..12	640.3..12	
M14	2mm	80mm	30mm	11mm	9mm	640.1..14	640.3..14	
M16	2mm	80mm	32mm	12mm	9mm	640.1..16	640.3..16	



DIN 2181 HSS

For metric ISO fine threads according to DIN 13

Thread Ø mm	Pitch	Length	Thread length	Shank Ø	Square Shank	First Art. No.	Finishing Art. No.	P. Qty.
M8	1mm	56mm	22mm	6mm	4.9mm	642.18.1	642.38.1	1
M10	1mm	63mm	20mm	7mm	5.5mm	642.110.1	642.310.1	
M10	1.25mm	70mm	24mm	7mm	5.5mm	642.110.125	642.310.125	
M12	1mm	70mm	22mm	9mm	7mm	642.112.1*	642.312.1*	
M12	1.25mm	70mm	22mm	9mm	7mm	642.112.125	642.312.125	
M12	1.5mm	70mm	22mm	9mm	7mm	642.112.15*	642.312.15	
M14	1.25mm	70mm	22mm	11mm	9mm	642.114.125	642.314.125	
M14	1.5mm	70mm	22mm	11mm	9mm	642.114.15	642.314.15	
M16	1.5mm	70mm	22mm	12mm	9mm	642.116.15*	642.316.15	

* Available OnDemand

STANDARD HIGH SPEED STEEL HAND TAP



Straight Flute hand Taps

High Speed Steel Material
Bronze Oxide Coating/Finish
Chamfer: Taper = 7 -10 threads long
Plug = 3 - 5 threads long
Bottoming: 1-2 threads long
P. Qty. 1

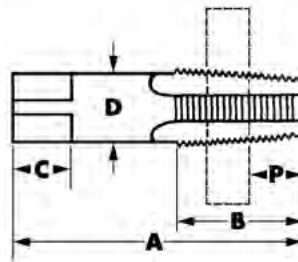
Coarse Thread (UNC)				
Type	Size	No. of Flutes	Drill size	Art. No.
Bottoming	1/4-20"	4	7	640.711420
	5/16-18"	4	F	640.715618
	3/8-16"	4	5/16	640.713816
	7/16-14"	4	U	640.717614 *
Plug	1/2-13"	4	27/64	640.711213
	6-32"	3	36	640.81632
	8-32"	4	29	640.81832
	10-24"	4	25	640.811024
	1/4-20"	4	7	640.811420
	5/16-18"	4	F	640.815618
	3/8-16"	4	5/16	640.813816
	7/16-14"	4	U	640.817614
	1/2-13"	4	27/64	640.811213
	5/8-11"	4	17/32	640.815811
Taper	3/4-10"	4	21/32	640.813410
	1/4-20"	4	7	640.911420
	5/16-18"	4	U	640.915618
	3/8-16"	4	5/16	640.913816
	7/16-14"	4	U	640.917614
	1/2-13"	4	29/64	640.911213

Fine Thread (UNF)					
Type	Size	No. of Flutes	Drill size	Art. No.	
Bottoming	1/4-28"	4	3	640.721428 *	
	5/16-24"	4	I	640.725624 *	
	3/8-24"	4	Q	640.723824 *	
	7/16-20"	4	25/64	640.727620 *	
Plug	1/2-20"	4	29/64	640.72220 *	
	10-32"	4	21	640.811032	
	1/4-28"	4	3	640.821428	
	5/16-24"	4	I	640.825624 *	
	3/8-24"	4	Q	640.823824 *	
	7/16-20"	4	25/64	640.827620 *	
	5/8-18"	4	37/64	640.825818	
	3/4-16"	4	11/16	640.823416	
	Taper	1/4-28"	4	3	640.921428 *
		5/16-24"	4	I	640.925624
3/8-24"		4	Q	640.923824 *	
7/16-20"		4	25/64	640.927620	
	1/2-20"	4	29/64	640.92220	

* Available OnDemand

Tip: Straight Flute taps can be used for Through Holes or Blind Holes

NPT TAPER PIPE TAPS



NPT taper pipe taps made of high speed steel for tapping pipe fittings of couplings.

Features:

- High speed steel
- Bronze Oxide surface treatment for easier tapping, higher speeds and greater abrasion resistance
- Precision ground cutting surfaces for precise thread production

Technical data:

- Material: High Speed Steel
- Coating/Finish: Bronze Oxide

Thread Dia./Pitch	Thread	# of Flutes	Overall Length (A)	Flute Length (B)	Square Length (C)	Shank Diam. (D)	Projection (P)	Art. No.	P. Qty.
1/8"-27	NPT	4	2-1/8"	3/4"	3/8"	0.4375"	0.312"	640.71250	1
1/4"-18	NPT	4	2-7/16"	1-1/16"	7/16"	0.5625"	0.459"	640.71251	1
3/8"-18	NPT	4	2-9/16"	1-1/16"	1/2"	0.7000"	0.454"	640.71252	1
1/2"-14	NPT	4	3-1/8"	1-3/8"	5/8"	0.6875"	0.579"	640.71253	1
3/4"-14	NPT	5	3-1/4"	1-3/8"	11/16"	0.9063"	0.565"	640.71254	1

HIGH SPEED STEEL TAP



Size	Thread	No. of Flutes	Drill size	Art. No.	P. Qty.
1/4-20"	NC	2	7	641.14.20	1
1/4-28"	NF	2	3	641.14.28	
5/16-18"	NC	2	F	641.516.18	
5/16-24"	NF	2	I	641.516.24	
3/8-16"	NC	3	5/16	641.38.16	
3/8-24"	NF	3	Q	641.38.24	
7/16-14"	NC	3	U	641.716.14*	
7/16-20"	NF	3	25/64	641.716.20	
1/2-13"	NC	3	27/64	641.12.13	
1/2-20"	NF	3	29/64	641.12.20	
6-32"	NC	2	36	641.6..32	
8-32"	NC	2	29	641.8..32	
10-24"	NC	2	25	641.10.24	
10-32"	NF	2	21	641.10.32	

* Available OnDemand

Spiral Point Tap

- Bronze oxide surface treatment for easier tapping, higher speeds and greater abrasion resistance
- Precision ground cutting surfaces for precise thread production
- Prevents thread damage by forcing chips ahead of the cutting action, reducing chip loading in the flutes
- For use in through holes
- Chamfers: 3-5 threads long

MACHINE TAP HSCO TIALN (RED RING)



ZEBRA[®]

Thread Type x Nominal Diameter	Pitch (mm)	Thread Length (mm)	Length (mm)	Art. No.	P. Qty.
M3	0.5	10	56	654.3	1
M4	0.7	12	63	654.4	
M5	0.8	14	70	654.5	
M6	1.0	16	80	654.6	
M8	1.25	18	90	654.8	
M12	1.75	22	110	654.012	
M14	2.0	24	110	654.014	
M16	2.0	26	110	654.16	
M20	2.5	30	140	654.20	

This long service life screw tap is designed for machining tough materials with extremely high strengths from 1000 up to 1400 N/mm².

Features:

- High end TiAlN
- Cylindrical shank with square drive
- DIN 371/376
- Specifically developed for thread cutting
- Extremely high heat resistance – up to 800°C
- Multi-layer design with additional lubricant coating ensures low friction, low adhesion and optimum chip removal

Applications:

- Excavator shovels, lorry attachments, armour plating, snow ploughs, agricultural machinery, etc.
- Alloyed tempering steels, nitriding steels, tool steels, high speed steels, special alloys, Hardox, spring steels, etc.

THUNDERTAP[®] & THUNDERBIT[®] SET



Art. No. 627.640627

18 pieces, contains 9 taps and 9 matching drills

- A high-performance drilling and tapping solution for iron, steel and stainless steel materials
- Industrial quality
- Bronze oxide surface treated taps for faster, easier thread production and greater abrasion resistance
- M-7 industrial grade steel drills for longer life and superior heat resistance
- Unique flute design for increased material removal
- 135° split-point for quick penetration and reduced "walking"

Set Contents: 6-32 NC - #36, 8-32NC - #29, 10-24NC - #25, 10-32NF - #21, 1/4-20NC - #7, 5/16-18NC - F, 3/8-16NC - 5/16, 7/16-14NC - U, 1/2-13NC - 27/64.

T-HANDLE TAP WRENCH

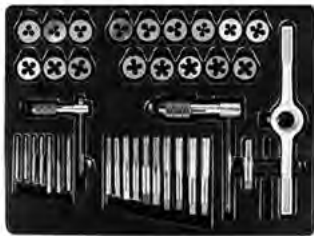


- Sliding T-Handle is ideal for turning in confined areas
- Strong and rugged for easy handling and accurate tapping

Capacity	Art. No.
#0 - 1/4"	640.99901*
#12 - 5/16"	640.99950*
1/4" - 1/2"	640.99999

* Available OnDemand

CARBON STEEL TAP & DIE ASSORTMENTS



Art. No. 652.69961

38 Piece Set in molded Case, 17 Taps and 16 Dies

Contains: 17 plug style taps and 16 round dies (1" OD)

National Coarse: 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13, 4-40, 6-32, 8-32, 10-24, 12-24

National Fine: 1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20, 10-32

National Special: 4-36

Includes: 1/8-27 NPT round die, 1" OD round die stock, 1/8-27 NPT Pipe tap, 0 - 1/4" T-handle tap wrench, 1/4" - 1/2" T-handle tap wrench



Art. No. 965.92100

32 Piece Set in molded Case, 21 Taps and 11 Dies

Taps: 1 set each of M 3 - 4 - 5 - 6 - 8 - 10 - 12

Dies: 1 set each of M 3 - 4 - 5 - 6 - 8 - 10 - 12

Stocks: 1 each of 20 x 5 - 20 x 7 - 25 x 9 - 30 x 11 - 38 x 14

Tap holders: adjustable nos. 1 + 2

Includes a starter tap, bottoming tap and finishing tap for each size



Art. No. 652.69999

64 Piece Set in molded Case, 28 Taps and 28 Dies

Contains: 26 Plug style taps and 26 adjustable round dies (1", 1 1/2", 2" OD)

National Coarse: 1/2-20, 3/8-16, 1/2-13, 5/8-11, 7/8-9, 5/16-18, 7/16-14, 9/16-12, 3/4-10, 1-8, 4-40, 6-32, 8-32, 10-24, 12-24

National Fine: 1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20, 9/16-18, 5/8-18, 3/4-16, 7/8-14, 10-32

National Special: 1-14

Includes: 1/8-27 NPT, 1/4-18 NPT Pipe Taps and Pipe Dies, T-Handle Tap Wrench (#0-1/4), 2 adjustable Tap Wrenches (1/16-1/2" and 1/4 - 1 1/8"), 3 Round Dies Stocks (1" O.D., 1-1/2" O.D., 2" O.D.), Screw pitch gauge and screwdriver.

CONICAL COUNTERSINK SET



Art. No. 694.02101

HSS-E, 90° with diagonal hole

Features:

- One each of the countersink ranges 2-5, 5-10, 10-15, 15-20mm
- CBN (cubical boron nitride), deep ground
- For deburring 90° countersinks
- Suitable for almost all materials
- The even-running cone-envelope relief grinding results in a light, paring cut
- Even, chatter-free, burr-free & high surface quality via chip removal in the shank direction via angled drilling
- Speed table included
- Increase in service life & cutting power when used with Eco Cutting & Drilling Oil **Art. No. 893.050012**

Contents:

- One each of the countersink ranges 2-5, 5-10, 10-15, 15-20mm

Countersink range in mm	Head Dia. in mm	Total length in mm	Shank dia in mm
2 - 5	10	45	6
5 - 10	14	48	8
10 - 15	21	65	10
15 - 20	28	85	12

Standard speed values for Conical Countersinks with diagonal hole					
Material	Non - ferrous metal	Steel sheets soft, e.g. St 4 - St 37	Plastics, Duroplast, Thermoplast	Cast iron up to 250 N/mm ²	Aluminum alloys
Cutting speed m/min.	20	15	15 - 20	10	25
dia. in mm	n = rpm	n = rpm	n = rpm	n = rpm	n = rpm
2 - 5	900 - 1200	600 - 900	900 - 1200	500 - 700	1200 - 1600
5 - 10	500 - 700	300 - 500	500 - 700	300 - 400	700 - 900
10 - 15	300 - 500	250 - 300	300 - 500	200 - 300	500 - 700
15 - 20	200 - 300	150 - 250	200 - 300	100 - 200	300 - 500

COUNTERSINK SET



Art. No. 694.01701

90° with triple cutting edges

Features:

- One each of ø 6.3, 8.3, 10.4, 12.4, 16.5, 20.5 mm
- HSS, for standard, commercial steels
- DIN 335, type C (round shaft)
- CBN (cubical boron nitride) deep ground
- Deburring and countersinking in one go
- Special grinding of the tool allows for chatter-free handling, smooth surface structure, excellent burr removal and extended tool life
- Speed table enclosed
- Extend tool life and improve cutting performance by using Würth Drilling and Cutting Oil Eco **Art. No. 893.050012**

Contents:

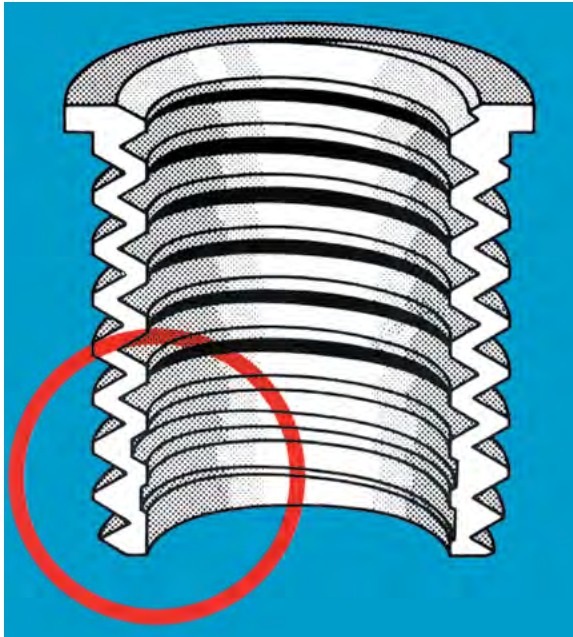
- One countersink bit each of ø 6.3, 8.3, 10.4, 12.4, 16.5, 20.5 mm

Standard speed values for countersinkers

Medium	For general construction steel 900 N/mm ² St 32- St 70 cast iron, non-ferrous metals
Cutting speed m/min.	10 - 15
ø mm	n = r.p.m.
6.3	500 - 800
8.3	400 - 600
10.4	300 - 500
12.4	250 - 400
16.5	200 - 300
20.5	150 - 250

Countersink ø mm	for counter sunk screws	Total length mm	Shank ø mm
6.3	M 3	45	5
8.3	M 4	50	6
10.4	M 5	50	6
12.4	M 6	56	8
16.5	M 8	60	10
20.5	M 10	63	10

TIME-SERT®



For perfect thread reinforcement and renewal
as used on series production and repair



Convincing Advantages

- TIME-SERT® is based on steel instead of wire inserts. It guarantees easy installation and allows for permanent full load use.
- TIME-SERT® is thin walled due to synchronized internal and external threads. Its thin cross-section allows for installation in areas of limited space and clearance material.
- TIME-SERT® is self locking due to forming of the component threads when inserted. The bushing will not pull torque out even when inserted or removed often.
- TIME-SERT® is media tight, i.e. by mating internal and external threads the thread is sealed against water, oil, other liquids and compressed gas.
- TIME-SERT® has a collar which allows for exact positioning in the material.

Application Areas

Engine: Spark plug thread/stud thread

Aggregates: Fastenings of Servo pump/alternator/air conditioning

Transmission: Transmission cover and mountings

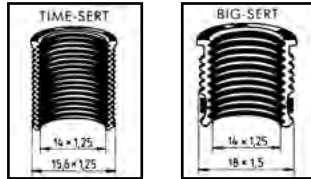
Differentials: Studs, Axles: Fastenings, mountings, Chassis, Body

- 1) TIME-SERT® insert.
- 2) Thin wall with synchronized internal and external thread.
- 3) Insertion tool position prior to insertion action.
- 4) Base material with cut thread and milled seat.
- 5) Threads of the lower section are not fully formed.
- 6) The insertion tool will form these unfinished threads and presses the TIME-SERT® insert firmly into the base material without the fear of pull out or torque out.

Recommended by Leading Car Manufacturers



BIG-SERT® - SPARK PLUG THREAD REPAIR



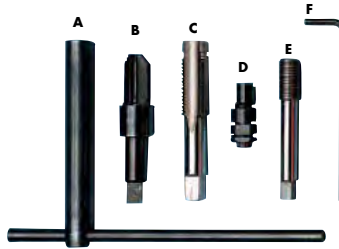
To be used if repair with TIME-SERT® is no longer possible. Threads which have been previously repaired or cut too big can be renewed with the BIG-SERT® insert.

The BIG-SERT® insert comprises a 4-fold torque lock out. The BIG-SERT® external thread is M18 x 1.5, the internal thread M 14 x 1.25. Maximum diameter for repair should be 16.3 mm or .640" respectively.

The lower portion of the threads comprise grooves for 4 metal pins. When inserting the insert these pins are pressed outwards into the base material. The locking effect of these pins guarantees 100 % safety against torque-out of the insert.

Size mm	Thread Pitch	Washer Seat Insert Length		Kit Art. No.	Inserts Art. No.
		Inches	mm		
M14	1.25	.370	9.4	699.1700	699.1710
		.600	15		699.1712
		.660	16.8		699.1713

BIG-SERT® Spark Plug Repair Kit, M14 x 1.25
Art. No. 699.1700



Kit tools:

- A: Wrench with T-Bar
- B: Reamer
- C: Tap
- D: Locating Tap
- E: Insertion Tool
- F: Socket Head Wrench

Note: BIG-SERT® Spark Plug Repair Kit Art. No. 699.1700, does not include inserts and must be ordered separately.

TIME-SERT® - SPARK PLUG KITS & INSERTS



Washer Seat Insert



Taper Seat Insert

Contents:

- 1 Step Tool
- 1 Wrench
- 1 Seat Cutter
- 1 Insert Driver

Note: Inserts must be ordered separately.

Size	Thread Pitch	Washer Seat Inserts			Taper Seat Insert			Kit Art. No.
		Insert Length		Insert Art. No.	Insert Length		Insert Art. No.	
		mm	Inches		mm	Inches		
10	1.0	9.0	.360	699.1180*	-	-	-	699.1144
12	1.25	9.0	.360	699.1182*	-	-	-	
		15.0	.600	699.1184*	-	-	-	
14	1.25	7.0	.270	699.1186*	-	-	-	
		8.0	.320	699.1188*	-	-	-	
		9.4	.370	699.1190	-	-	-	
		11.0	.430	699.1192	-	-	-	
		15.0	.600	699.1194	15.7	.620	699.1199	
		16.8	.660	699.1196	-	-	-	

Spark Plug

Insert		Drill		Counterbore		Tap
Insert (mm)	Thread Pitch	Drill	Diameter	Min Dia.	Min. Depth.	Major Dia.
10	1.0	Y	0.0404	0.461	0.067	0.445
12	1.25	31/64	0.484	0.484	0.073	0.540
14		9/16	0.562	0.562	0.073	0.619

* Available OnDemand

TIME-SERT® - UNIVERSAL KITS AND INSERTS - METRIC



Replacement Parts					
Tool Size	Thread Pitch	Drill	Counter Bore	Tap	Driver
6	1.0		699.5010*		699.9010
8	1.25	699.3020*	699.5020*	699.7020	699.9020
10	1.5	699.3030*	699.5030*	699.7030	699.9030
12	1.75	-	699.5040*	-	-
14	1.5	699.3050*	-	699.7050	-

Technical Data						
Metric						
Insert		Drill		Counterbore		Tap
Threads (mm)	Thread Pitch	Drill	Diameter	Min. Dia.	Min. Depth	Major Dia.
4	0.7	#19	0.166	0.226	0.075	0.194
5	1.0	#8	0.199	0.279		0.238
6		Drill	0.246	0.319	0.290	
8	1.25	L	0.323	0.351	0.080	0r.330
		P		0.419		0.369
10	1.5	P	0.406	0.440	0.085	0.381
				0.466		0.422
				0.500		0.463
				0.474		0.349
12	1.75	29/64	0.453	0.542	0.110	0.503
				0.552		0.516
				0.560		0.540
				0.595		0.552
14	1.5	1/2	1/2	0.605	0.110	0.567
14	1.5	37/64	37/64	0.668	0.130	0.634
				0.743	0.130	0.713
16	2.0	21/32	0.656	0.787	0.115	0.741
				0.787	0.115	0.741
18	1.5	23/32	0.718	0.837	0.125	0.794

Metric Inserts (Shaded areas indicate inserts supplied with the kit)					
Size (mm)	Thread Pitch	Insert Length		Insert	Kit
		Inches	mm	Art. No.	Art. No.
4	0.7	.240	6.0	699.1098	699.1003
		.300	7.6	699.1100	
5	0.8	.400	10.0	699.1102	699.1002
		.370	9.4	699.1104	
6	1.0	.470	12.0	699.1106	699.1004
		.550	14.0	699.1109*	-
8	1.25	.460	11.7	699.1110	699.1006
		.460	11.7	699.1112	699.1008
9	1.25	.640	16.2	699.1114	699.1008
		.510	13.0	699.1115	699.1019
10	1.0	.710	18.0	699.11151*	
		.360	9.0	699.1111	699.1009
	.600	15.0	699.1113		
	1.25	.550	14.0	699.1116	
.650		16.2	699.1118	699.1010	
11	1.5	.800	20.0	699.1120	
		.550	14.0	699.1122	
		.800	20.0	699.1124	699.1012
		.960	24.5	699.1126	
12	1.5	.630	16.0	699.1127*	
		.870	22.0	699.1128	699.1013
12	1.25	1.18	30.0	699.11285	
		.600	15.0	699.1129	699.1015
		.360	9.0	699.1130	
		.650	16.2	699.1131	699.1014
14	1.5	.950	24.0	699.1132	
		.640	16.2	699.1134	699.1016
14	1.5	.950	24.0	699.1136	
		.260	6.6	699.1137	
		.370	9.4	699.1138	
		.500	12.7	699.1139	699.1018
16	2.0	.700	17.8	699.11392	
		1.100	28.0	699.11393	
16	1.5	.500	12.7	699.11396	699.10185
		.945	24	699.1401	-
18	1.5	.720	18.3	-	699.10187

* Available OnDemand

TIME-SERT® - UNIVERSAL KITS AND INSERTS - STANDARD



Technical Data: Imperial UNIC and UNF

Insert		Drill		Counter Bore		Tap	
Thread	Thread Pitch	Drill	Diameter	Min. Dia.	Min. Depth.	Major Dia.	
#6	32	#26	0.147	0.218	0.070	0.182	
#8	32	#17	0.173	0.241	0.065	0.208	
#10	24	13/64	0.203	0.288	0.075	0.247	
	32			0.274		0.234	
1/4	20	17/64	0.265	0.352		0.319	0.300
	28	G	0.216	0.340			
5/16	18	21/64	0.328	0.430	0.085	0.388	
	24	P	0.323	0.410	0.080	0.368	
3/8	16	X	0.323	0.495	0.085	0.460	
	24	W	0.386	0.473	0.080	0.432	
7/16	14	29/64	0.453	0.571	0.110	0.534	
	20			0.547	0.085	0.506	
1/2	13	33/64	0.515	0.648	0.110	0.604	
	20			0.610	0.085	0.569	
9/16	12	19/32	0.593	0.711	0.130	0.675	
	18	37/64	0.578	0.668	0.110	0.638	
5/8	11	21/32	0.656	0.787	0.135	0.748	
	18	41/64	0.640	0.740	0.110	0.701	
3/4	10	25/32	0.765	0.953	0.135	0.885	

Replacement Parts					
Tool Size	Thread Pitch	Drill	Counter Bore	Tap	Driver
1/4	20	699.2010*	699.4010*	699.6010*	-
5/16	18	699.2020*	699.4020	699.6020	699.8020
3/8	16	699.2030*	699.4030	699.6030	
7/16	14	-	699.4040*	699.6040*	699.8040*
1/2	13	-	-	699.6050*	699.8050

Standard Inserts (Shaded areas indicate inserts supplied with the kit)					
Size	Threads per Inch	Insert Length		Insert Art. No.	Kit Art. No.
		Inches	mm		
#8	32	.250	6.3	-	-
#10	24	.370	9.4	699.1605*	-
1/4	20	.380	9.4	699.1607	699.1506
		.500	12.7	699.1608	
5/16	28	.380	9.4	699.1609*	-
		.450	11.4	699.1611	
	18	.620	15.7	699.1612	699.1508
		.520	11.4	699.1613*	
3/8	24	.620	15.7	699.1614*	699.1509
		.520	13.2	699.1615	
	16	.620	15.7	699.1616	699.1510
		.750	19.0	699.1617	
7/16	24	.520	13.2	699.1618	699.1511
		.600	15.2	699.1620	
	14	.870	22.0	699.1621	699.1512
		.600	15.2	699.1622*	
1/2	20	.650	16.5	699.1623	699.1514
		1.000	25.4	699.1624	
	20	.650	16.5	699.1626	
5/8	11	.850	21.6	699.1627	699.1516
	18	.850	21.6	-	699.1518

* Available OnDemand

MASTER SETS



Art. No. 964.9617

Thread sizes: M5 / M6 / M8 / M10 / M12

- Metric coarse thread
- Inserts and tools for 5 sizes with 2 different lengths of inserts

Thread Ø x pitch x length, mm	
M5 x 0.8 x 7.6	M8 x 1.25 x 16.2
M5 x 0.8 x 10.0	M10 x 1.5 x 14.0
M6 x 1.0 x 9.4	M10 x 1.5 x 20.0
M6 x 1.0 x 12.0	M12 x 1.75 x 16.2
M8 x 1.25 x 11.7	M12 x 1.75 x 24.0



Art. No. 699.0100

Thread sizes: 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13

- Inch coarse thread
- Each kit includes 5 complete tool kits with 20 inserts per kit (10 long and 10 short) for a total of 100 inserts

OEM TIME-SERT® THREAD REPAIR KITS



Art. No. 699.5553

Ford Triton Spark Plug Kit

Insert size: M14 x 1.25 x 16.8 mm

Replacement inserts:

Art. No. 699.1800

Contains: 1 wrench, 1 reamer, 1 tap, 1 driver, 1 setting tool, 1 hex key 3/16, 1 hex key 1/8, 1 sealer, 5 Triton inserts.

- 1.9/3.8/4.6/5.4/6.8 litre 2 valve or 4 valve heads

Note: Not recommended for holes larger than .660" or 16.8 mm



Art. No. 699.2200

Toyota Head Bolt Repair Kit

Insert size: M11 x 1.50 x 30mm

Replacement inserts:

Art. No. 699.11285

- Universal head bolt repair for Toyota
- Coredrill - 7-1/2" OAL
- Tap - 6" OAL
- Driver - 6" OAL

SABRE SAW BLADES

- *** High performance saw blade for extreme applications, high cutting rates and long service life
- ** Excellent saw blade for heavy duty use
- * Good standard saw blade for conventional applications

Important note

Cooling using Würth Cutting Oil,

Art. No. 893.050004, extends the service life of metal sabre saw blades.

With stainless steel sabre saw blades, cool, reduce number of strokes and switch off pendulum.



1/2" Universal shaft to fit in sabre, Recipro and Tiger saws manufactured by Würth, Atlas Copco, Black & Decker, Bosch, DeWalt/Elu, Fein, Flex,

Hitachi, Holz-Her, Makita, Metabo, Millers-Falls, Milwaukee, Rems, Ridgid, Rockwell, Roller and Skil

Recommended area of application for metal blades:

Teeth spacing (in mm)	
1.0	Metals, sheet metal, pipes and profiles <1.5mm
1.4	Metals, sheet metal, pipes and profiles < 3.0mm
1.8	Metals, sheet metal, pipes and profiles 3-8mm
1.8-2.6	Metals, sheet metal, pipes and profiles 3-10mm
2.9-3.2	Metals, pipes and profiles 4-12mm

Special blades for special areas of application



Heavy Duty for solid, thick workpieces of 3-10 mm. Ideal for more demanding applications, e.g. thick metal sheets and pipes.



Demolition for demolition and rescue work, material thickness 4-12 mm. Ideal for working with a pipe bracket. A right-angled cut is ensured by the extremely thick blade thickness of 1.6 mm.



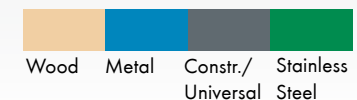
Multi Blade with progressive tooth pitch for thin and thick materials for particularly fast cutting.

Colour Code System:

- Using the four very different colours you will always find the right sabre saw blade for your application

Star System:

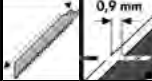





- Three application-optimized quality stages
- Exactly the right strip saw blade for every application
- Optimized combination of material, tooth spacing and saw blade
- Outstanding cutting results



SABRE SAW BLADE INFORMATION

Material	Quality	Art. No.	Pack Qty.	Image	Diagram		
					Tooth spacing in mm and inches	Overall length in mm and inches	Thickness in mm
Wood	***	615.815030	1=5		3.6-5.1	150 6"	1.25
		615.820340	1=5		2-4	200 8"	1.25
	**	608.03022	1=5		4.0 6 tpi	150 6"	1.25
		615.830040	1=5		3.6/5.1 5-7 tpi	305 12"	1.25
Metal	***	615.915029	1=5		2.5/3.2 8/10 tpi	150 6"	1.6
		615.920314	1=5		1.4 18 tpi	200 8"	1.25
		615.920326	1=5		1.8/2.6 10/14 tpi	200 8"	1.25
		615.922829	1=5		2.5/3.2 8/10 tpi	228 9"	1.6
	**	615.910010	1=5		1.0 24 tpi	100 4"	0.9
		615.915010	1=5		1.0 24 tpi	150 6"	0.9
		615.915014	1=5		1.4 18 tpi	150 6"	0.9
		615.915026	1=5		1.8/2.6 10/14 tpi	150 6"	0.9
		615.922814	1=5		1.4 18 tpi	228 9"	0.9
		615.922826	1=5		1.8/2.6 10/14 tpi	228 9"	0.9
		615.930526	1=5		1.8/2.6 10/14 tpi	305 12"	0.9

SABRE SAW BLADE INFORMATION

Material	Quality	Art. No.	Pack Qty.	Image	0,9 mm	Tooth spacing in mm and inches	Overall length in mm and inches	Thickness in mm
								
Construction	***	615.720325	1=5			2.54 10 tpi	200 8"	0.9
		615.720332	1=5			2.1-3.2 8-12 tpi	200 8"	1.25
		615.722842	1=5			4.3 6 tpi	150 9"	1.6
		615.730585	1=2			8.5 3 tpi	305 12"	1.5
Stainless Steel	***	615.911614	1=3			1.4 18 tpi	228 4.5"	1.25

Art. No.	Bosch	Berner	BTI	De Walt/ Elu	D + N	Hitachi (Eur.)	Lenox	Makita	Metabo	Milwaukee	Morse	Wilpu
608.03022	S 644 D	-	-	35406	-	750 053	-	05000	31473	1064	-	3020/150
615.720325	S 1022 HF	-	-	-	11 10 24	-	-	-	-	-	-	-
615.720332	S 1012 VF	-	-	-	-	-	-	-	-	-	-	-
615.722842	S 1110 DF	-	-	-	-	-	-	-	-	-	-	-
615.730585	S 1241 HM	-	R-HM 225/85	-	11 20 06	-	-	05050	31146	-	RTCT 1203	3041/300HM
615.815030	S 611 VF	R-HK 3-5/150 G KU	-	DW 4802	11 22 70	-	656 R	-	-	-	-	-
615.820340	S 2345 X	Protec Bi HK	Tornado R-H	-	11 20 55	-	-	-	-	-	-	-
615.910010	S 522 AF	R-HK 4.0/305 G	SR-H 300/42	DW 4804 35440	11 22 72	750 054	156 R	-	-	5037/3037	RB 125006	3021/300bi
615.911614	S 518 EHM	-	-	-	-	-	-	-	-	-	-	-
615.915010	S 922 AF	-	R-M 150/10	DW 4813	11 10 21	750 066	624 R	04905	31453	5186	RB 624	3015/150
615.915014	S 922 EF	-	R-M 150/14	DW 4811 35431	11 10 20	983 6027Z	618 R	04880	31454	5184	RB 618	3014/150
615.915026	S 922 VF	-	R-M 150/1824	DW 4806B 35423	11 10 22	-	610 R	-	31492	-	RB 1010	1014 C/150
615.915029	S 920 CF	R protec S 150	Mammut R-M	-	-	-	-	-	-	-	-	3001/150
615.920314	S 1025 EF	-	-	-	-	-	6518 R (6")	-	-	-	-	-
615.920326	S 1025 VF	-	-	-	-	-	650 R (6")	-	-	-	-	-
615.922814	S 1122 EF	-	R-M 200/14	-	11 10 26	750 063	818 R	-	31493	5188	RB 818	3014/250
615.922826	S 1122 VF	-	R-M 200/1824	-	11 10 35	-	-	-	31495	-	-	1014 C/ 225
615.922829	S 1020 CF	R protec S 230	Mammut R-M	-	-	-	-	-	-	-	-	3001/200
615.93052	S 1222 VF	-	-	-	-	-	110 R	-	-	-	-	-

SABRE SAW BLADE INFORMATION

		<ul style="list-style-type: none"> ● Particularly well suited ○ Suitable 	Hardwood, softwood	Green wood	Chip boards	Fiber boards with synthetic coating	Plywood	Glued wood	Wood with nails	Wood with metal	Window construction	Thin sheet metal	Thick sheet metal	Sheet metal profiles and pipes	Metal profiles and pipes	Stainless steel, sheet metal and profiles
		Art. No.														
Wood	***	615.815030	○		○		○			●	●					
		615.820340 ^A	●		●	●	●	●								
	**	608.03022	●		●	●	●									
		615.830040	●		●		●		●							
Metal	***	615.915029											●		●	
		615.920314										●	○	●	○	
		615.920326											●		●	
		615.922829											●		●	
	**	615.910010										●		●		
		615.915010 ^B										●		●		
		615.915014										●		●		
		615.915026								●			●		●	
		615.922814 ^C														
		615.922826 ^D								●			●		●	
	615.930526 ^E								●			●		●		
Construction	**	615.715242														
		615.720325							●				○			
	***	615.720332	●					●		●					○	
		615.722842	●		●					●						
		615.730585														●
Stainless	***	615.911614														●
		615.915126														

A = with sharpened teeth

B = longer version of 615.910010

C = longer version of 615.915014

D = longer version of 615.915026

E = longer version of 615.922826

SABRE SAW BLADE INFORMATION

Aluminum	Non-ferrous metal	Metal pipes	Steel pipes, cast iron pipes	Sandwich material	Pallets	Porous concrete	Drywall	Fibre cement	Bricks	PVC, general synthetics	Asbestos cement, fibreglass reinforced synthetics	Straight cut	Curved cut	Plunge cut	Flexible and break-proof for flush cuts	Perpendicular cuts	Pipe vise	Fine cuts	Rough cut	Fast cut
										○		X	X	X						X
										●		X		X				X		X
										●			X	X				X		X
												X								X
○	○											X				X	X			
●	●											X								
												X								
○	○											X				X	X			
○	○											X						X		
○	○											X						X		
○	○											X						X		
○	○											X			X			X		
○	○											X			X			X		
○	○											X						X		X
○	○										○									
				○						●	●									
						●		○	○		○	X							X	
												X								
												X								

JIG SAW BLADE INFORMATION

Special blades



Multi Blade with progressive tooth pitch for thin and thick materials for particularly fast and clean cutting.

- Superb blade for use on the construction site, as the same blade can be used for all situations
- Saves time, as no need for lengthy blade-changing operations

- *** High performance saw blade - high cutting performance and long service life
- ** High-quality jig saw blade for meeting tough requirements
- * Good standard blade for conventional applications

No matter how good and easy-cutting a jig saw blade may be, it is constantly exposed to high mechanical and thermal loads that reduce its lifespan.

With stainless steel jig saw blades, first cool, then reduce number of strokes and finally switch off pendulum.

Color Code System:

- Thanks to the four easily distinguishable colours, you will always find the right jig saw blade for your application

Star System:

- Three application-optimized quality stages
- Exactly the right jig saw blade for every application
- The perfect combination of material, tooth pitch and saw blade
- Phenomenal cutting results

Wood	Metal	Constr./ Universal	Stainless Steel

Cooling extends the service life of your Würth jig saw blades

Material to be processed	Coolant
Mild steel, rust-free steel, non ferrous metals	Würth Cutting Oil Art. No. 893.050004
Aluminum, aluminum alloys	Turpentine, paraffin, or a mixture turpentine and paraffin.
Cement asbestos, moulded laminate moulding materials, Plexiglas, plastics, insulation materials, rubber	Water (note: avoid all contact with electrical parts)

Material	Attachment	Quality	Art. No.	Pack Qty.	Image	Design	Pitch mm	Total length mm	Toothed length mm	Thickness mm	Diagram			
Wood	Single cam shaft (T-shaft) suitable for: Würth STP, AEG, Atlas copco, Bosch, Dewalt/Elu, Festool, Hilti, Hiltachi, Kress, Holz-her/Makita, Metabo and Skil	***	608.116234	1=5		HCS progressive	2.0-3.0	117	90	1.35				
		*	608.11791	1=5		HCS sharpened and set	4.0	132	104	1.7				
		*	608.11891	1=5			4.0	152	126	1.25				
		**	608.11592	1=5		HCS sharpened and conically ground	2.5	100	75	1.35				
		*	608.11690	1=5			4.0	100	72	1.7				
		**	608.116111	1=5			2.5	100	75	1.35				
		*	608.116102	1=5		HCS corrugated	1.9-2.3	91	66	1.0				
		*	608.116103	1=5			2.0	82	57	1.0				
		*	608.116099	1=5			3.0	100	75	1.25				

JIG SAW BLADE INFORMATION

Material	Attachment	Quality	Art. No.	Pack Qty.	Image	Design						
							Pitch mm	Total length mm	Toothed length mm	Thickness mm		
Metal	Single cam shaft (T-shaft) suitable for: Würth STP, AEG, Atlas copco, Bosch, Dewalt/Elu, Festool, Hilfi, Hitachi, Kress, Holz-her, Makita, Metabo and Skil	***	608.116123	1=5		HSS progressive	1.22.6	100	75	1.0		
		***	615.05012	1=5		Bimetal corrugated	1.2	90	68	1.0		
		***	615.05015	1=5			0.8	90	68	1.0		
		***	615.05020	1=5			2.0	90	68	1.0		
		**	608.116104	1=5			2.5	100	75	1.25		
		**	608.116007	1=5		HSS corrugated	0.7	91	66	1.0		
		*	608.11593	1=5			1.1-1.5	91	66	1.0		
		*	608.116006*	1=5			1.9-2.3	91	66	1.0		
		Construction	Single cam shaft (T-shaft) suitable for: Würth STP, AEG, Atlas copco, Bosch, Dewalt/Elu, Festool, Hilfi, Hitachi, Kress, Holz-her, Makita, Metabo and Skil	***	608.116345*	1=5		Bimetal progressive	2.4-5	132	105	1.25
				***	615.27540*	1=3		Bimetal ground	4.3	100	74	1.25
***	615.20540*			1=3		4.3	117		106	1.25		
**	615.09025			1=5		Bimetal set	2.5	117	90	1.0		
*	608.116008A*			1=5		HSS set	3.0	100	75	1.0		
*	608.116009 ¹			1=5			3.0	100	75	1.0		
Stainless Steel	Single cam shaft (T-shaft) suitable for: Würth STP, AEG, Atlas copco, Bosch, Dewalt/Elu, Festool, Hilfi, Hitachi, Kress, Holz-her, Makita, Metabo and Skil	***	615.25010	1=3		HM ground	1.0	82	57	1.0		
		***	615.25014	1=3			1.4	82	57	1.0		

* Available OnDemand



















1 = specially for scroll saws; A = special blade for aluminum

JIG SAW BLADE INFORMATION

		<ul style="list-style-type: none"> ● Particularly well suited ○ Suitable 	Hardwood, soft-wood	Chipboard panels	Plastic-laminated chipboard panels	Plywood	Bonded wood	Wood with nails	Laminate	Thin metal sheets	Thick metal sheets	Stainless steel, metal sheets and metal profiles	Aluminum	Non-ferrous metals	Steel and cast iron pipes
		Art. No.													
Wood	***	608.116234	●	○	○	●	●					●			
		608.11690	●	○			●								
	**	608.116111	○			●	○					●			
		608.11791	●	●		●	●								
		608.11891	●			●	●					●			
		608.116099	●	○		●									
	*	608.116102	○	○		●	○					●			
		608.116103	●	○		●									
Metal	***	608.116123								●	●	○	●	●	
		615.05012								●			○	○	
	**	615.05015								●		●		●	
		615.05020									●		○	○	
		608.11593								●		●	○	○	
	*	608.116006									●		○	○	
		608.116007								●		●	○	●	
Construction		608.116345	○					●		●	●		○	○	
	***	608.11595										●			○
		615.20540 ^A													
		615.27540										●			
	**	615.09025	●					●			○		○	●	
		608.116008									○	●	●	●	
	*	608.116009											○	●	
Stainless	***	615.25010										●			
		615.25014										●			

A= conical and finer version of 615.27540

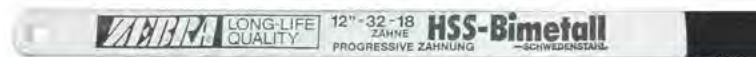
JIG SAW BLADE INFORMATION

Sandwich material	Drywall	Fibre cement	PVC, general plastics	Plexiglas	Asbestos cement, fibreglass reinforced plastics	Corian	Brick, glass, ceramic	Insulating material (polystyrene)	Straight cut	Curved cut	Thick material	Thin material	Fine cut	Coarse cut	Right-angled cut	Fast cut	Bi-Metal
																	
									X		X	X	X			X	
			○						X		X		X		X		
									X				X				
									X		X			X	X	X	
									X		X			X		X	
			●						X		X			X		X	
				●					X					X			
			○	○						X							
									X		X	X				X	
				○					X			X					X
				○					X			X					X
				○													
									X		X						
									X			X					
			○						X		X	X				X	X
					●		●		X								
	●	●			●				X		X						
	●	●			●				X		X						
			○						X		X					X	X
			●		○				X		X					X	
			●		○					X	X						
									X			X					
									X			X					

BI-METAL HACKSAW BLADES



Material thickness	No. of teeth	Length (mm)	Width (mm)	Thickness (mm)	Art. No.	P. Qty.
over 2 mm	24	300	13	0.65	603.30013	10
up to 2 mm	32				603.300133	



Length (mm)	Width (mm)	Thickness (mm)	Art. No.	P. Qty.
300	13	0.65	603.30113	10

No saw blade offers higher cutting capacity and flexibility

- Bi-Metal, high-alloy high speed steel at the toothed edge, tough tool steel for the back
- Most up-to-date manufacturing techniques guarantee unsurpassed quality. Precision electron beams in a high vacuum are used to weld joints.

Standard Tooth Pattern

- High cutting capacity
- Longer service life
- Greater safety

Progressive Tooth Pattern

- High tooth pitch in the starting cut area makes it easy to begin cuts. The "fluttering" of thin materials is substantially reduced
- The low tooth pitch in the remainder of the cutting edge provides for high metal-cutting capacity.

HACKSAW FRAME



Art. No. 714.6401

For 300 mm (12") Bi-Metal Hacksaw Blades (Prefix 603)

- Suitable for cutting in the automotive, metal and construction industries
- Suitable for flush cutting due to dual mounting angles
- Aluminum frame with ergonomic grip handle
- Square steel upper tube, incorporating blade storage
- Easy change of the blades, handy, strong and durable

Note: Blades sold separately

AIR SAW BLADES

High Speed and Long Life cutting blades for Automotive Body Work and sheet metal applications

Features:

- Designed for high speed cutting and long service life
- High quality bi-metal strength
- High Speed Steel teeth provide a strong, long lasting cutting edge
- Bi-metal blades bend and resist breaking and extend blade life
- Specially designed blades for use in pneumatic machine cutting applications
- Enhances overall cutting performance
- Tooth profile reduces the frictional heat that is generated during the cutting process, thus enhancing the overall blade performance

FLAT MOUNTING



Item	Material	Min./Max. material thickness (mm)	Teeth per inch	Tooth spacing (mm)	Overall length (mm)	Working length (mm)	Art. No.	P. Qty.
1	For wood, aluminum, composites and plastic	4 - 10	14	1.8	90	77	696.9141	10
2	For tight radius cutting in wood, aluminum, composites and plastic		18	1.4	66	53	696.9181	
3	For double and triple sheet metals	0.5 - 4	24	1	90	77	696.9241	
4	For thin sheet metal and higher-strength steels	0.5 - 1	32	0.8		696.9321		

TIP MOUNTING



Item	Material	Min./Max. material thickness (mm)	Teeth per inch	Tooth spacing (mm)	Overall length (mm)	Working length (mm)	Art. No.	P. Qty.
1	For wood, aluminum, composites and plastic	4 - 10	14	1.8	96	76	696.914	10
2	For tight radius cutting in wood, aluminum, composites and plastic		18	1.4	72	53	696.918	
3	For double and triple sheet metals	0.5 - 4	24	1	96	77	696.924	
4	For thin sheet metal and higher-strength steels	0.5 - 1	32	0.8		696.932		

STARLOCK OSCILLATING BLADES

3 dimensional blade locking system with quick change capability

3D mount (Starlock)

- High power transmission with low wear
- 3x longer service life compared to conventional mount systems
- Much better material removal
- Precise results
- High cutting speeds
- Excellent compatibility with existing mount systems



STARLOCK CARBIDE SAW BLADE



Art. No. 696.121220 1 blade

Extreme cutting performance and long tool life

- High performance saw blade for extremely demanding applications, high cutting and long tool life.

The right immersion depth every time

- Depth scale for monitoring precise immersion depth

Technical Information	
Cutting depth	40mm
Cutting width	32mm
Material	Tungsten Carbide
Saw blade design	Single toothed
Adapter type	Starlock
Material to be processed	Steel, stainless steel, fiberglass, wood with metal

STARLOCK BI-METAL SAW BLADE



Art. No. 696.121410 1 blade

Precise, clean cut

- The slightly curved "clean cut" single toothed blade enables a clean immersion.

The right immersion depth every time

- Depth scale for monitoring precise immersion depth

Technical Information	
Cutting depth	50mm
Cutting width	32mm
Material	Bi-Metal
Saw blade design	Single toothed
Adapter type	Starlock
Material to be processed	Fiberglass, plaster board, glass reinforced plastics, thin sheet metal, wood with metal, softwood, hardwood, coated particle board, veneered particle board, particle board

STARLOCK BI-METAL WIDE SAW BLADE



Art. No. 696.121411 1 blade

Precise, clean cut

- The slightly curved "clean cut" single toothed blade enables a clean immersion.

The right immersion depth every time

- Depth scale for monitoring precise immersion depth

Technical Information	
Cutting depth	40mm
Cutting width	65mm
Material	Bi-Metal
Saw blade design	Single toothed
Adapter type	Starlock
Material to be processed	Fibreglass, plaster board, glass reinforced plastics, thin sheet metal, wood with metal, softwood, hardwood, coated particle board, veneered particle board, particle board

STARLOCK SPATULA



Art. No. 696.121340 1 blade

For replacing silicon joints and removing carpet adhesive and paint residue

Flexible design

- Flexibility allows the spatula to be pressed into a wide variety of positions.

Technical Information	
Cutting depth	38mm
Cutting width	52mm
Material	High-speed chrome steel
Adapter type	Starlock

STARLOCK BI-METAL SEGMENTED SAW BLADE



Art. No. 696.121412 1 blade

Ideal for immersion cuts, work in corners and setting door frames

- The segmented blade can be positioned flush against the floor. Door frames can therefore be cut to the exact length.

Extra long life

- The saw blade can be rotated to optimize wear on the blade.

Precision work in corners

- The blade shape is designed for precise cutting in corners.

Technical Information	
Diameter	85mm
Material	Bi-Metal
Saw blade design	Segmented
Adapter type	Starlock
Material to be processed	Aluminum, fibreglass, glass reinforced plastics, hardwood, softwood, particle board

STARLOCK DIAMOND SEGMENTED SAW BLADE



Art. No. 696.121330 1 blade

Ideal for removing joint mortar in damaged tiles and for separating tiles up to scratch hardness 6, fiberglass and reinforced plastics.

Extremely long service life

- Diamond coating guarantees a long service life
- The segmented blade can be rotated to optimize wear

Technical Information	
Diameter	85mm
Thickness	2mm
Material	Diamond
Saw blade design	Segmented
Adapter type	Starlock
Material to be processed	Fibreglass, tiling, glass reinforced plastics

STARLOCK CARBIDE GROUT BLADE



Art. No. 696.121320 1 blade

3-in-1 professional tile tool for removing wall and floor tiles and sanding tile grout.

Extremely long service life

- Cemented carbide guarantees a long service life
- The segmented blade can be rotated to optimize wear

Technical Information	
Diameter	70mm
Material	Tungsten Carbide
Adapter type	Starlock
Material to be processed	Tiling

STARLOCK BI-METAL DOUBLE TOOTH SAW BLADE



Art. No. 696.121110 1 blade

For clean, tear-free separating and immersion cuts

Precise, clean cut

- The slightly curved "clean cut" double toothed blade enables a clean immersion

The right immersion depth every time

- Depth scale for monitoring precise immersion depth

Technical Information	
Cutting depth	50mm
Cutting width	32mm
Material	Bi-Metal
Saw blade design	Double toothed
Adapter type	Starlock
Material to be processed	Softwood, hardwood, laminated panels, laminate, fiberglass, glass reinforced plastics

STARLOCK BI-METAL DOUBLE TOOTH WIDE SAW BLADE



Art. No. 696.121111 1 blade

For clean, tear-free separating and immersion cuts

Precise, clean cut

- The slightly curved "clean cut" double toothed blade enables a clean immersion

The right immersion depth every time

- Depth scale for monitoring precise immersion depth

Technical Information	
Cutting depth	40mm
Cutting width	65mm
Material	Bi-Metal
Saw blade design	Double toothed
Adapter type	Starlock
Material to be processed	Softwood, hardwood, laminated panels, laminate, fiberglass, glass reinforced plastics

STARLOCK TRIANGULAR DUST EXTRACTION BACKING PAD



Art. No. 696.121150 1 piece

Use with Multi-Surface Sandpaper Triangles for sanding wood, filler, plastics, paints and more.

Technical Information	
Dimensions	90 x 90 x 90mm
Adapter type	Starlock

Note: Use with Multi-Surface Sandpaper Triangles 581.220...



DIAMOND CUTTING DISC – ESSENTIAL



Construction site

Yellow label for construction sites. Can be used with hand-held saws, floor saws, stationary saw or bench saws.

Features & Advantages:

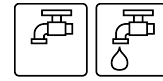
- Developed for use on construction sites
- Fan segments for better dissipation of heat and removal of dust compared to conventional segments

Applications:

- Concrete, reinforced concrete, concrete bricks, concrete pipes, interlocking paving stones, clinker bricks, clay bricks



Suitable for multiple cutting surfaces



For dry and wet cutting

Dia. in In.	Dia. in mm	Arbour Hole in mm	Segment height in mm	Segment thickness in mm	No. of segments	Segment conn.	Max. RPM	Art. No.	P. Qty.
12.0*	300	25.4**	10	3.0	20	Laser	6,400	666.771301	1
14.0*	350			3.2	24		5,400	666.771351	

*Max. circumferential speed 100 m/s **With driver hole

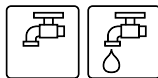
DIAMOND CUTTING DISC – CLEAN CUT



Construction site

Features:

- Versatility: ●●●●
- Service life: ●●●●
- Cutting speed: ●●●●
- Cutting quality: ●●●●



For dry and wet cutting

Highly versatile, long-lasting and cost-effective construction site disc

Features & Advantages:

- Highly versatile, long-lasting and cost-effective construction site disc
- Closed cutting edge results in a cleaner cut

Applications:

- Old concrete, exposed aggregate concrete, concrete pipes, lightly reinforced concrete, interlocking paving stones, clay bricks, clinker brick, etc.

Dia. in In.	Dia. in mm	Hole in mm	Segment height in mm	Segment thickness in mm	Segment conn.	Max. RPM	Art. No.	Pack Qty.
5.0*	125	22.23	10	2.0	Sintered	12,250	5527.165125	1
7.0*	180	22.23	10	2.5	Sintered	8,500	552.7165180	

*Max. circumferential speed 80 m/s

DIAMOND CUTTING DISC – HARD STONE



Properties

- Versatility: ●●●●
- Service life: ●●●●
- Cutting speed: ●●●●
- Cutting quality: ●●●●



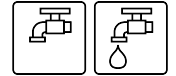
Granite

Hard material

This diamond cutting disc is specially designed for hard materials in building construction, civil engineering and related trades.

Applications:

- Granite
- Reinforced concrete
- Washed concrete
- Clinker brick
- Clay brick



For dry and wet cutting

Dia. in In.	Dia. in mm	Arbour Hole in mm	Segment height in mm	Segment thickness in mm	No. of segments	Segment conn.	Max. RPM	Art. No.	P. Qty.
7.0*	180	22.23	12	2.6	14	Laser	8,500	552.6700180	1
9.0*	230	22.23	12	2.6	16		6,600	552.6700230	

*Max. circumferential speed 80 m/s

X-Shape

The x-shape ridges of the segmented sides extend service life considerably. They reduce lateral contact surface of the segment in the material. This results in less friction, and thus, less heat generation and strain on the segments. At the same time, the X structure increases the active cutting service, thereby distributing the load more evenly. The increased active cutting surface also enables comparatively quick cutting for a wheel that is optimized for service life.



Cutting edge of conventional turbo wheels



Cutting edge of a wheel with X-Shape

Optimum bond for hard materials

The diamond bond is specially designed for hard materials and thus ensures optimum support of the diamonds from the first cut to the last.

Smooth cutting

PTFE-filled slots, the so-called "silent holes," reduce vibrations and unpleasant running noises

Secure direction indication

The ventilation holes are arranged as arrows which are still visible and unmistakable after heavy use.

DIAMOND CUTTING DISC – SOFT STONE



Properties

- Versatility: ●●●●
- Service life: ●●●●
- Cutting speed: ●●●●
- Cutting quality: ●●●●



Abrasive

Applications:

- Concrete
- Brick
- Natural stone
- Pumice
- Mortar



For dry and wet cutting

Dia. in In.	Dia. in mm	Arbour Hole in mm	Segment height in mm	Segment thickness in mm	No. of segments	Segment conn.	Max. RPM	Art. No.	P. Qty.
7.0*	180	22.23	12	2.6	14	Laser	8,500	552.6710180	1
9.0*	230	22.23	12	2.6	16		6,600	552.6710230	

*Max. circumferential speed 80 m/s

DIAMOND CUTTING DISC - VERSATILITY



Construction site

The enormously versatile and extremely fast diamond cutting disc for all construction trades. Specially developed for trades with frequently changing materials.

Features:

Versatility:	●●●●
Service life:	●●●●
Cutting speed:	●●●●
Cutting quality:	●●●●

Flexible and fast

- Perfectly suited for those who do not have to do a great deal of cutting, but where flexibility and speed are important.

Cuts virtually all materials

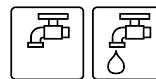
- Diamonds applied directly to the main blade with a special vacuum process (BSL) form an aggressive abrasive surface that cuts even the toughest materials.

Considerably cooler cutting

- Openings located directly under the segment provide for optimum cooling

Applications:

- Old concrete, washed concrete, reinforced concrete, concrete piping, sandstone, natural stone, granite, cast iron, clinker bricks, steel, stainless steel, plastics, wood, guard rails



For dry and wet cutting

Angle Grinders

Dia. in In.	Dia. in mm	Arbour Hole in mm	Segment height in mm	Segment thickness in mm	No. of segments	Segment conn.	Max. RPM	Art. No.	P. Qty.
4.5*	115	22.23	6	2.5	8	BSL	13,300	552.6860115	1
5.0*	125	22.23	6	2.5	10		12,200	552.6860125	
9.0*	180	22.23	6	2.8	16		6,600	552.6860230	

*Max. circumferential speed 80 m/s

Hand-Held and Joint Cutters

Dia. in In.	Dia. in mm	Arbour Hole in mm	Segment height in mm	Segment thickness in mm	No. of segments	Segment conn.	Max. RPM	Art. No.	P. Qty.
12.0*	300	20.0	6	3.1	20	BSL	6,400	552.6860300	1
14.0*	350	20.0	6	3.1	24		5,400	552.6860350	
14.0*	350	25.4**	6	3.1	24		5,400	552.6860355	

*Max. circumferential speed 100 m/s **With driver hole

DIAMOND MILLING DISC



Construction site

Specialized cutting disc for removing old mortar from joints during renovation work and for milling slots for tile and floor layers, façade renovators, electrical installers, plumbers and similar trades.

Features:

Versatility:	●●●●
Service life:	●●●●●
Cutting speed:	●●●●
Cutting quality:	●●●●

Efficient

- Extra wide segments remove a large amount of material in a single pass.

Extended service life

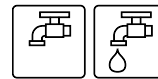
- Over 20% higher segments extend the life of the disc in comparison to conventional diamond milling discs

Optimized stability

- Welded carbide segments protect the main blade against undercut and thus effectively prevent premature breakage of the segments

Applications:

- Concrete, mortar, plaster and brick



For dry and wet cutting

Delivery Overview:
For angle grinders

Dia. in In.	Dia. in mm	Hole in mm	Segment height in mm	Segment thickness in mm	No. of segments	Segment conn.	Max. RPM	Art. No.	P. Qty.
5.0*	125	22.23	9	8.0	10	Laser	12,200	552.6960128	1

*Max. circumferential speed 80 m/s

DIAMOND CUTTING DISC – 3D EXTREME



Construction site

Versatility:	●●●●
Service life:	●●●●●
Cutting speed:	●●●●●
Cutting quality:	●●●●●

3D technology designed for hard materials that tend to cause other discs to burn.

Features:

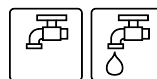
- 3x more cutting edges when compared to similar cutting discs
- 3D technology to protect against undercut on particularly abrasive materials
- ZEBRA quality suitable for all construction trades

Advantages:

- Quick, precise and long lasting blade
- Extremely low amount of friction resulting in low heat generation
- Optimized cooling with an "arrow arrangement" providing additional cooling and low vibration
- Quick and accurate for clean cut edges resulting in improved productivity

Applications:

- Old concrete, exposed aggregate concrete, reinforced concrete, concrete tiles, concrete bricks, concrete pipes, granite, marble, cast iron pipes, clinker bricks, mortar and more



For dry and wet cutting

For Angle Grinders

Dia. in In.	Dia. in mm	Arbour Hole in mm	Segment height in mm	Segment thickness in mm	No. of segments	Segment conn.	Max. RPM	Art. No.	P. Qty.
9.0*	230	22.23	12	2.6	15	Laser	6,600	552.6663230	1

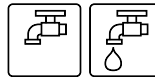
*Max. circumferential speed 80 m/s

DIAMOND CUTTING DISC – LONG LIFE & SPEED



Features:

- Versatility: ●●●●
- Service life: ●●●●
- Cutting speed: ●●●●
- Cutting quality: ●●●●



For dry and wet cutting

Construction site

This high tech diamond cutting disc has an extremely long service life, a high cutting speed and is suitable for all construction trades.

Patented Structure Diamond Technology

- For up to 70% higher cutting capacity and service life compared to the competition.
- The special even orientation of the diamonds ensures that there are always sufficient diamonds on the cutting surface, resulting in a clean, fast cut.

Less cutting resistance

- Narrower segments prevent unnecessary friction loss.
- Longer service life due to a (up to) 14 mm segment height compared to the industry standard of 10 mm. That's a 40% difference, which effectively means, 40% more cutting diamonds!

Optimized dust removal and cooling

- The fan segments feed in cooling air and transport the dust out of the cutting area. Special cooling openings with arrows serve both as additional cooling and a running direction indicator.

Smoother running conditions

- PTFE-filled slits absorb vibrations and unpleasant running noises.

Applications:

- Old concrete, washed concrete, reinforced concrete, concrete piping, interlocking stones, roofing tiles, granite, marble, cast iron pipes, clinker bricks, clay bricks

Angle Grinders/Wall Slitting Cutters

Dia. in In.	Dia. in mm	Arbour Hole in mm	Segment height in mm	Segment thickness in mm	No. of segments	Segment conn.	Max. RPM	Art. No.	P. Qty.
4.5*	115	22.23	12	2.2	9	Laser	13,300	552.6660115	1
5.0*	125	22.23	12	2.2	10		12,200	552.6660125	
7.0*	180	22.23	14	2.4	14		18,500	552.6660180	

*Max. circumferential speed 80 m/s

Hand-Held and Joint Cutters

Dia. in In.	Dia. in mm	Arbour Hole in mm	Segment height in mm	Segment thickness in mm	No. of segments	Segment conn.	Max. RPM	Art. No.	P. Qty.
12.0*	300	20.0	14	2.8	19	Laser	6,400	552.6660300	1
12.0*	305	25.4**	14	2.8	19		6,400	552.6660305	
14.0*	350	20.0	14	3.2	23		5,400	552.6660350	
14.0*	355	25.4**	14	3.2	23		5,400	552.6660355	

*Max. circumferential speed 100 m/s **With driver hole

ASPHALT DIAMOND CUTTING DISC



Construction site

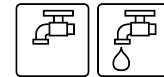
Special protective segments prevent the core of the blade against undercut.

Applications:

- For hand-held and floor saws
- Dry and wet cutting
- Asphalt, sand-lime brick, mortar, plaster, screed, concrete



Suitable for multiple cutting surfaces



For dry and wet cutting



Asphalt



Sand-lime Brick, Soft



Mortar, plaster, screed



Concrete, Abrasive, Fresh Concrete

Dia. in In.	Dia. in mm	Arbour Hole in mm	Segment height in mm	Segment thickness in mm	No. of segments	Segment conn.	Max. RPM	Art. No.	P. Qty.
14	350*	20	10	3.2	21	Laser	5400	668.751350	1
		25.4*						668.751351	

*Max. circumferential speed 100 m/s **With driver hole

DIAMOND CUP WHEEL – SOFT STONE



Features & Advantages:

- High removal speed
- Long service life
- Ideal for abrasive materials
- Optimal dust removal

Applications:

- Various types of concrete, limestone and other abrasive materials

Dia. in In.	Dia. in mm	Arbour Hole (mm)	Segment height (mm)	Useable sanding surface	Max. RPM	Art. No.	P. Qty.
5.0*	125	22.23	5.5	2300mm ²	12,250	666.511125	1

*Max. circumferential speed 80 m/s

DIAMOND CUP WHEEL – VERSATILITY



Features & Advantages:

- The wheel shape, number and order of segments make for a large active grinding surface area
- Long service life
- Optimal dust removal

Applications:

- Highly versatile use on concrete and stone

Dia. in In.	Dia. (mm)	Arbour Hole (mm)	Segment height (mm)	Useable sanding surface	Max. RPM	Art. No.	P. Qty.
5.0*	125	22.23	6	3700mm ²	12,250	666.521125	1

*Max. circumferential speed 80 m/s

DIAMOND CUP WHEEL – HARD STONE



For faster and more efficient work, this versatile diamond cup wheel has an extremely high removal rate and good surface finish

Faster and more efficient:

- Special shaft segment with double function: removal and finishing
- Optimum dust removal

Applications:

- Sands most concrete and stone materials

Versatility (points system)	●●●○
Service life (points system)	●●●●
Removal speed (points system)	●●●●
Surface quality/finish (points system)	●●●○

Dia. in In.	Dia. in mm	Arbour Hole (mm)	Segment height (mm)	Useable sanding surface	Max. RPM	Art. No.	P. Qty.
5.0*	125	22.23	5.5	2300mm ²	12,250	666.501125	1
7.0*	180	22.23	5.5	2760mm ²	8,500	666.501180	

*Max. circumferential speed 80 m/s

HOOKED BLADES



Features:

- Two notch, two hole hook blade
- Made of Carbon Steel

Applications:

- Roofing shingles, felt paper, tyvek, foam board, insulation, carpeting and other building materials

Compatible with:

Würth Utility Holders

715.66013 and 715.66016



Width of Blade	Length of Blade	Thickness of Blade	Material	Art. No.	P. Qty.
18.7 mm	50 mm	0.65 mm	Carbon Steel	715.6603	5

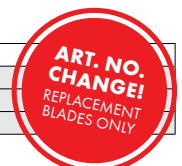
ALL STEEL SAFETY RAZOR SCRAPER



Art. No. 690.1

- Push button securely locks blade and safely retracts blade into handle
- Useful for scraping paint and window stickers
- Complete with sleeves and tray
- Considered the finest available by professional and industrial users
- Ideal for scraping, cutting and trimming parts, upholstery, paint, glass and more

Replacement Blades		Box Qty.	Old Art. No.	Art. No.
Duty	Gauge			
# 9"	.009	100	690.9	714.663317
# 12" Heavy	.012		690.912	714.663318



RETRACTABLE RAZOR SCRAPER



Art. No. 715.13626

- A unique retractable scraper that takes the aggravation out of getting old stickers off car windshields and paint blotches off windows
- Size: 7 7/8" when fully open and locked in position
- The razor blade holder tilts the blade to give a better angle of attack in tight corners
- The blade can be folded 180° into the handle and locked when not in use, permitting it to be kept in a tool box safely
- The blade can be replaced when worn out

PLASTIC RAZOR BLADES



Art. No. 690.8 P. Qty. 25

- Safely removes stickers from plastic-coated windshields without the risk of scratching or cutting the windshield
- Made from polypropylene
- Blades are also ideal for scraping many other surfaces in automotive, industrial, and home applications

EXACTA KNIFE



Recommended:

Replacement blade 18mm for Exacta knife

Art. No.

P. Qty: 10



Art. No. 715.6604

- Handle: impact-resistant plastic
- Catch: via wheel
- 1 break-off blade, 18 mm, included
- 8 point breakaway

P. Qty: 5

CUTTING KNIFE



Note: Two (2) extra blades included in magazine.

Art. No. 715.6621 – 18 mm

Features

- Handle of impact-resistant plastic and metal blade guide. High stability and precise blade guidance.
- Automatic blade locking up to pressure load of 20 kg. Convenient one-hand operation.
- Blade magazine for 2 spare blades.
- Delivery scope incl. 3 x 18 mm break-off blades.

P. Qty: 1

REPLACEMENT BLADE



Art. No. 715.6605 – 18mm – P. Qty. 10

Features

- 3-corner grinding
- Ice-hardened
- Double durability
- Sharp and proper cut

CUTTING KNIFE, 9 MM WIDE



Recommended:
Replacement breakoff blade, 9 mm
Art. No. 715.6607
P. Qty: 10



Art. No. 715.6606 – 135 mm

- Handle of impact-resistant plastic with metal blade guide.
- High stability and precise blade guidance.
- Blade locks with locking bar.
- Convenient one-hand operation.
- Holding clip for breast pocket.
- Includes 1 x 9 mm break off blade.

SAFETY KNIFE



Recommended: Replacement trapezoid utility blade
Art. No. 695.106
P. Qty: 100



Art. No. 715.66013 170 mm

With bi-metal blade

Features:

- Automatic blade retraction via retracting spring.
- Blade changed in seconds without tools thanks to magnetic retainer.
- Ergonomic, non-slip two component handle.
- Integrated blade magazine for five blades.
- Includes one bi-metal trapezoidal blade.
- Flexible yet unbreakable blade under normal working conditions

Benefits:

- Minimizes risk of injury.
- Fits well and securely in your hand.
- Optimum storage of spare blades.



SELF-RETRACTING SAFETY KNIFE



Art. No. 715.66017 - P. Qty. 1

With fully automatic blade retraction after the cutting process.

Features:

- Even when the slide is activated, the blade retracts after leaving the cut material
- Non-slip and solid 3-component handle
- Tool-free blade change
- Length - 160 mm
- Material of the grip handle - Aluminium
- Pocket Safe
- Cut Safe



REPLACEMENT BLADE
Art. No. 695.106

UNIVERSAL AUTO-LOAD KNIFE



Art. No. 715.66016 176 mm

With auto-load blade changing system

Features:

- Made out of durable aluminum, rubber and ABS plastic
- Dual locking mechanism of the blade
- Internal cartridge contains 10 spare blades
- Change the blade by simply retracting the slider and moving it back forward
- Weight 260g

Recommended:

Replacement trapezoid utility blade Art. No. 695.106

P. Qty: 100

2K UTILITY KNIFE



2K-Cutter 9 mm, 18 mm, 25 mm

Features:

- High quality 2-component handle and blade slide
- Extremely rugged stainless-steel blade guide
- Automatic blade locking up to a pressure load of 12 kg

Blade Width (mm)	Total Length (mm)	Art. No.	P. Qty
9	160	715.66274	1
18	165	715.66275	
25	195	715.66276	

BREAK-OFF BLADES



Blade Width (mm)	Blade Length (mm)	Blade Thickness (mm)	Material	Art. No.	P. Qty
9	80	0.4	Steel	715.66073	1
25	142	0.7		715.66093	

3K UTILITY KNIFE



Art. No. 715.66277

3K-Cutter 18 mm with Clamping Screw

Features:

- Includes 1 break-off blade
- Ergonomic and non-slip 3-component handle
- Tough stainless steel blade
- Blade clamping screw

Description	Length	Art. No.	P. Qty.
Utility Knife	170 mm	715.66277	1
Bare break-off blades	110 mm	715.6605	10 pk.
Black break-off blades	110 mm	715.66053	10 pk.

DUAL-BLADE POCKET KNIFE



Art. No. 715.66500

Features:

- Safe to use with stud lock, keeps blades safely in place
- High quality cutting ability with replaceable trapezoidal blades
- Universal cutting rust-free knife blade
- Comes in high-quality leather pouch with belt loop
- Includes 1 trapezoidal blade



TACTICAL POCKET KNIFE



Art. No. 715.66504

Features:

- Safe to use with side-lock which holds the blade safely in place
- Universal cutting rust-free knife blade
- Stainless steel handle with plastic insert
- High-quality leather pouch with belt loop





LEARN MORE

FASTENERS

ELECTRICAL

CLEANING & DETAILING

VEHICLE REPAIR & COMPONENTS

ABRASIVES

SPECIALS

WÜRTH CANADA

Electrical Supply, Fasteners, Chemicals & Professional Hand Tools

SEE ALL PRODUCTS



SHOP ONLINE NOW!

SHOP.WURTH.CA

05 PAINTS & PRIMERS

- 2** Spray Primers
- 3** Spray Paints
- 4** Sprayer for Spray Cans
- 8** "Perfect" Metal Surface Sprays
- 10** Paint Markers
- 10** Micro Brushes



SPRAY PAINT PRIMERS



An industrial primer for maximum rust protection and adhesion

Features:

- Improves long-term durability of finishing top coats
- Can be used with lacquer, enamel, and acrylic paints
- Provides excellent corrosion resistance
- Better coverage than conventional primers. Contains 23% solid content
- For best results, primer can be sanded lightly with a fine sandpaper
- Heat resistant to 120°C

Dry Time:

- To touch: 5 minutes
- To recoat: 20 minutes

Note: Curing time is extended with multiple and excessively thick coats

Name	Colour	Art. No.	Content
High Solids Primer Light Grey		892.150001	482 g
High Solids Primer Red Oxide		892.150002	
General Use Primer Light Grey		892.140001	340 g

SELF-ETCH PRIMER



Art. No. 890.91701 340 g

- This primer etches the surface of the bare metal to replace the metal conditioning step. It provides excellent corrosion protection.
- Use on steel, aluminum, galvanized steel, zinc coated steel and fiberglass
- You can apply topcoat directly on this Self-Etching Primer
- Excellent adhesion
- Corrosion resistant
- Dries fast
- Good filling and sanding

SELF-ETCHING PRIMER



Self-etching primer adheres to bare metal to replace the metal conditioning step. Suitable for use on metal, aluminum, galvanized steel, zinc coated steel and fiberglass.

Features:

- Provides excellent adhesion on steel, aluminum and stainless steel
- Dry to the touch in under 15 minutes
- Top coat can be applied directly on top of the product

Application:

- Surface must be degreased and sanded and rust must be removed. Do not apply over newly painted surfaces.
- Shake container for 1 minute after mixing ball moves freely. Spray approximately 30 cm from the surface. Apply two thin coats, allowing 5 minutes flash time between coats. Top coat can be applied after 30 minutes.
- Once finished, turn can upside down and spray for 3 seconds to prevent clogging.

Colour	Contents	Art. No.	P. Qty.
Black	340 g	8856.917010	1
Olive Green		8856.917011	

ZINC RICH WELD THRU PRIMER



Art. No. 893.109 464 ml

Zinc Rich Weld Thru Primer protects steel from corrosion by sacrificial or galvanic action. When applied to metal surfaces prior to MIG or spot welding, the zinc melts and fuses to the surface of the steel, reducing the formation of rust and rust creeping.

Features:

- 98 - 99% pure zinc content.
- Heat resistant up to 490°C (914°F)
- Good electrical conductivity
- Special epoxy resin for better adhesion to metal
- Adheres reliably to all metals
- Long term cathodic protection for all metallic surfaces.

Note: DO NOT apply filler after application

PREMIUM SELF-ETCHING PRIMER



Art. No. 890.91700 340 g

A unique and convenient primer that provides excellent adhesion to bare metal, primers and top coats.

- Excellent sanding properties
- Good filling characteristics
- Strong adhesion to metals
- Superior adhesion of primer surfaces and other top coats
- Fast drying

LACQUER SPRAY



High-Quality Spray Lacquer

Excellent coverage with a lustrous finish

A remarkably versatile spray paint with the most outstanding performance characteristics available anywhere

- Has an exclusive resin base
- Can be used on both interior and exterior surfaces such as wood, metal and can be recoated anytime
- Bare metal surfaces should be primed before application
- Ideal for guide coating
- Lead free
- **Art. No's. 893.339006 and 893.351930** can also be used on wheels

Colour	Finish	Contents	Art. No.
Matte Jet Black	High - Temp	296 g	893.359005
Satin Black	Satin	310 g	893.349110
Matte Jet Black	Matte	300 g	893.329005
White Aluminum	High - Gloss	462 g	893.339006
Clear	High - Gloss	317 g	893.351930
Yellow	High - Gloss	308 g	893.364464
Silver	Metallic Silver	340 g	893.339108

Temperature resistance for Art. No. 893.359005 is 650 °C (1,200 °F)

SPRAY PAINT - PREMIUM HIGH SOLIDS

A superior industrial spray paint when maximum performance is needed




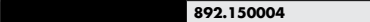
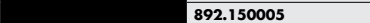

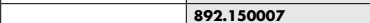
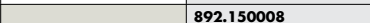

















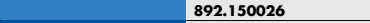

**Use with our Sprayer
for Spray Cans,
Art. No. 891.090**

Features:

- High solid content (35%)
- Provides twice the coverage of conventional spray paints. Up to 18 square feet. Cans contain 16oz (454g) of paint
- Does not run or sag
- Can be applied to bare metal, and inhibits rust
- Resists oil, gas, and sunlight
- Heat resistant to 150°

Application:

1. Clean and dry surface to remove dirt and grease
2. For maximum protection, the surface should be primed before painting
3. Shake can for at least 1 minute after hearing the mixing ball rattle.
4. Spray surface with steady strokes at a distance of 20-25cm from surface
5. When finished, turn can upside down and spray for 3 seconds (not for general use paint)

Name	Finish	Colour	Art. No.	Content
Gloss Black	Gloss		892.150003	453g
Satin Black	Satin		892.150004	
Flat Black	Flat		892.150005	
Gloss White	Gloss		892.150006	
Flat White	Flat		892.150007	
Light Grey	Gloss		892.150008	
Grey	Gloss		892.150009	
Dark Grey	Gloss		892.150010	
IH Red	Gloss		892.150011	
Safety Red	Gloss		892.150012	
Bright Orange	Gloss		892.150013	
Safety Orange	Gloss		892.150014	
Old CAT Yellow	Gloss		892.150015	
New CAT Yellow	Gloss		892.150016	
School Bus Yellow	Gloss		892.150017	
Tractor Yellow	Gloss		892.150018	
OSHA Yellow	Gloss		892.150019	
Safety Yellow	Gloss		892.150020	
Tractor Green	Gloss		892.150021	
Shamrock Green	Gloss		892.150022	
Safety Green	Gloss		892.150023	
Astro Blue	Gloss		892.150024	
Safety Blue	Gloss		892.150026	
Lift Blue	Gloss		892.150025	
Aluminum	Metallic		892.150027	

Note: Above colour samples are approximations.

SPRAY PAINT CONTINUED

General Use				
Name	Finish	Colour	Art. No.	Contents
Gloss Black	Gloss		892.140002	340 g
Satin Black	Satin		892.140003	
Flat Black	Flat		892.140004	
Gloss White	Gloss		892.140005	
Flat White	Flat		892.140006	
Grey	Gloss		892.140007	

A top quality paint that provides a tough, durable finish

Features:

- 360° Spray nozzles. Works upside down
- Fast drying with good coverage
- Rust inhibiting, and resists chipping and peeling

Dry Time:

- To touch: 5 minutes
- To recoat: 30 minutes
- Note: Curing time is extended with multiple and excessively thick coats

Engine Enamels				
Name	Finish	Colour	Art. No.	Contents
Universal Black	Gloss		892.140011	340 g
Universal Gray	Gloss		892.140012	
Cummins Beige	Gloss		892.140013	
Chevy Orange	Gloss		892.140014	
Alpine Green	Gloss		892.140015	
Ford Blue	Gloss		892.140016	
GM Blue	Gloss		892.140017	
Mustang Blue	Gloss		892.140018	

A fast-dry spray paint for restoring engines and brake calipers to their original factory colour

Features:

- Replicates original factory colours
- Fast drying with good coverage
- Provides corrosion protection for engines, transmissions, and other O.E.M equipment
- Resists heat up to 120°C and does not crack or peel

Dry Time:

- To touch: 5 minutes
- To recoat: 30 minutes
- Note: Curing time is extended with multiple and excessively thick coats

High-Heat Paint				
Name	Finish	Colour	Art. No.	Contents
Black	Flat		892.140025	453 g
White	Gloss		892.140026	
Aluminum	Gloss		892.140027	

A high temperature, heat-resistant paint

Features:

- Withstands continuous temperatures up to 650°C
- The porcelain-like bond resists peeling and blistering

Dry Time:

- To touch: 5 minutes
- For a hard cure, this product must be heated to a minimum of 205°C for two hours
- DO NOT use a primer

Note: Curing time is extended with multiple and excessively thick coats

ANTI-SLIP PAINT



Slip-resistant paint to prevent slip and falls on wet or dry surfaces.

Features:

- Slip-resistant coating
- Contains plastic beads within an epoxy resin

Benefits:

- Applications in institutional, industrial or commercial surfaces.
- Use on metal, wood, concrete, masonry, asphalt, floors, walkways, tool handles, ramps, stairs, truck beds, grab bars, ladders or anywhere an anti-slip coating is needed.
- Easy to use aerosol format which applies a textured anti-slip coating to almost any surface.
- Ideal choice for reducing accidents due to slippery surfaces.

Tack Free: 60 minutes

Fully Cured: 24 hours

Recoat surface every 2 to 4 months, depending on wear.

Suggested Uses:

- **Automotive**
Step bumpers, running boards, truck beds, garage floors
- **Industrial**
Stairs, steps, floors, tool handles, rails, ladders
- **Marine**
Boat decks, docks, piers, grab handles
- **Construction**
Heavy equipment steps, stairs, ladders, handles
- **Home, Lawn and Garden**
Kitchen and bathroom floors, tool handles, tractor steps
- **Cargo**
Docks, trailer floors, steps, handles

Colour	Contents	Art. No.	P. Qty.
Black	340 g	890.00061	1

BUMPER AND TRIM PAINT



Art. No. 893.0190 425 g

- Trim black flexible paint for refinishing metals, plastic bumpers and flexible trim components.
- Its etching formulation eliminates the need for priming.
- Can also be applied on aluminum, stainless steel and galvanized steel.
- Etching properties.
- Very flexible.
- Dries fast.
- Matches OEM coating.
- Easy to control fan spray.

SPRAY PAINT - INVERTED TIP MARKING PAINT



Application: Locators, construction sites, excavation sites, landscaping, surveyor's markings, utility marking, golf courses, mining, etc.

Advantages:

- Fast drying
- Non-clogging
- Vivid lines
- Safe on grass
- Easy to aim with low over-spray
- Meets APWA standard colours (American Public Works Association)
- 453 g



Technical Data	
Dry to touch	15 mins
Application Temperature	+10 - 40 °C (+50 - +100 °F)
VOC compliant	Yes
Finish	Flat, non-glossy (<15 on a 60° gloss meter)
Resin system	V.T. Alkyd
Application Temperature	+10 - 40 °C (+50 - +100 °F)
Storage Temperature	+5 - +32 °C (+40 - +90 °F)

Colour	Sample	Art. No.	Qty.
Fluorescent Orange		893.199301	1
Fluorescent Red/Orange		893.199302	
Fluorescent Pink		893.199303	

ZINC SPRAY LIGHT 96.5%



Art. No. 893.113114 324 g

Long-term protection and repair of metallic surfaces.

Features:

- Excellent corrosion protection
- Contains 96.5% of pure zinc
- Thermal stability is approximately +240 °C
- Over 100 hours of salt-spray resistance (DIN 50021 SS)
- Excellent adhesive properties on bare metal
- Excellent spot-welding properties

Areas of Application:

- For visual improvement, repair and protection against corrosion of metallic surfaces

Note: Not suitable as adhesive base for PU, MS-polymer and hybrid sealing compounds.

METAL SURFACE SPRAYS "PERFECT"



Outstanding long-time protection and optimum metal surface appearance.

- **High layer thickness in 1st spray pass.** Very safe due to optimal protection against weathering. Minimal time required, as only one work step necessary. Covers well.
- **Can be used on residual rust.** Only loose rust must be removed.
- **For variable use thanks to adjustable spray head.** Large-area and minor repairs can be carried out quickly and safely with the variable spray head.

- **High resistance to running**
- **High abrasion resistance**

Additional advantages

Zinc Spray and Zinc Spray light:

- Tested high level of corrosion protection according to DIN 50021 SS in salt spray test
Zinc Spray Light Perfect: 250 hours
Zinc Spray Perfect: 500 hours
Tested by the TÜV Rheinland Group
Optimal for spot welding

Application: For optical improvement, repair and protection against corrosion of metallic surfaces.

Corrosion protection after 240 hours of salt spray test acc. to DIN 50021 SS



Function of the variator variable spray head

Infinitely adjustable change in the output rate and the spray width by turning the variable adjustment wheel. (front view of the spraying pattern)



**Zinc Spray
Light Perfect**

**Competitor's
Product**

Description	Colours	Contents	Art. No.	P. Qty.
Zinc Spray Perfect 99%		460 g	893.114113	1/12
Zinc Spray Light Perfect 98.5%		325 g	893.114114	
Aluminum Spray Matte Perfect		280 g	893.114115	
Stainless Steel Spray Perfect		298 g	893.114116	
Brass Spray Perfect		315 g	893.114117	
Copper Spray Perfect			893.114118	
Aluminum Silver Spray High-Gloss Perfect		270 g	893.114119	

Note: The products Zinc Spray Perfect and Zinc Spray Light Perfect contain zinc, and therefore offer optimum, active cathodic protection against corrosion. If the surface is damaged, the zinc coating sacrifices itself (sacrificial anode) and therefore protects the metal against rust. The remaining products offer protection of the entire surface treated against rust. If the surface is damaged, the metal is not protected further. Not suitable as adhesive base for PU, MS- polymer and hybrid sealing compounds.

TECHNICAL DATA FOR METAL SURFACE SPRAYS

Product Name	Zinc Spray Light	Zinc Spray Perfect	Zinc Spray Light Perfect	Aluminum Spray Matte Perfect	Stainless Steel Spray Perfect	Brass Spray Perfect	Copper Spray Perfect	Aluminum Silver Spray High-Gloss Perfect
Art. No.	893.113114	893.114113	893.114114	893.114115	893.114116	893.114117	893.114118	893.114119
Chemical Basis	Alkyd resin combination	Alkyd resin	Alkyd resin combination	Alkyd-acrylate combination	Alkyd resin combination	Nitri-combination resin	Nitri-combination resin	Ethyl-cellulose synthetic resin
Pure Zinc	96.50%	99%	98.50%	-	-	-	-	-
Cross Cutting (DIN 53151)*	Gr0-1	Gr0-1	Gr0-1	Gr0-1	Gr0-1	Gr0-1	Gr0-1	Gr0-1
Salt Spray test (DIN 50021 SS)	100 hrs	500 hrs	250 hrs	-	-	-	-	-
Dry layer thickness 1 back-and-forth motion	approx. 30 µm	approx. 40 µm	approx. 40 µm	approx. 50 µm	approx. 30 µm	approx. 25 µm	approx. 36 µm	approx. 7 µm
Recomm. layer thickness	70 µm	40 µm	40 µm	50 µm	30 µm	25 µm	25 µm	7 µm
Dust-dry (with recommended dry layer thickness)	approx. 15 min.	5 min.	approx. 15 min.	20-30 min.	approx. 15 min.	5 min.	6 min.	Approx. 15 min.
Completely hardened (with recommended dry layer thickness)	10-12 hrs	60 min.	10-12 hrs	approx. 8 hrs	10-12 hrs	80 min.	90 min.	4-6 hrs
Touch-dry (with recommended dry layer thickness)	15-20 min.	18 min.	15-20 min.	45-60 min.	20 min.	14 min.	17 min.	25 mins.
Can be spot welded	Yes	Yes	Yes	-	-	-	-	-
Thermal stability	approx. +240 °C (+464 °F)	approx. +500 °C (+932 °F)	approx. +300 °C (+572 °F)	approx. +250 °C (+482 °F)	approx. +240 °C (+464 °F)	approx. +100 °C (+212 °F)	approx. +100 °C (+212 °F)	approx. +240 °C (+464 °F)
Minimum shelf life at +10 °C to +25 °C (+50 °F to +77 °F) in months	24	24	24	24	24	24	24	24
Surfaces with good adhesion	Ferrous metals Galvanised surfaces Polycarbonate Polystyrene PMMA	Steel Galvanized steel	Ferrous metals Galvanised surfaces Polycarbonate Polystyrene PMMA	Metal, wood, pasteboard, Polycarbonate Polystyrene PMMA	Metal, wood, pasteboard, Polycarbonate Polystyrene PMMA	Brass, steel	Copper, steel	Metals, wood, pasteboard
Suitable for painting over	Condition: Preliminary testing required!							

* Test to determine the adhesion of a coating on a foundation. Gr0 = Very good adhesion. Gr5 = Very bad adhesion.

PAINT MARKERS - BRITE MARK

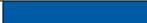








General purpose permanent marker

- Quick drying, oil-based.
- Won't fade, chip or lose its opacity.
- Resists most work-related abuses or compounds.
- Valve action mechanism prevents paint in barrel from drying.
- Heavy-duty aluminum body with large paint capacity.
- Formula is not xylene-based.
- Drying time: 25-35 seconds.

Application:

Excellent for identifying inventory, assemblies, tools, finished products or works-in-progress. Marks metal, rubber, plastic, glass, concrete, leather, stone, wood, vinyl and more.

Colour	Sample	Art. No.	Contents	P. Qty.
Blue		825.84001	12 ml	1
Black		825.84002		
White		825.84003		
Yellow		825.84004		
Orange		825.84005		
Red		825.84006		
Green		825.84007		

PAINT MARKERS - SUDZ-OFF





Detergent removable marker for water resistant temporary writing

- Marks can be removed with detergents with a pH of 10 or higher.
- Valve action mechanism prevents paint in barrel from drying.
- No "ghosting" when paint is removed.
- Xylene-free.
- Drying time: 15-20 seconds.

Application:

For use on non-treated, non-painted and non-porous metal and glass surfaces. Excellent for quality control.

Colour	Sample	Art. No.	Contents	P. Qty.
White		825.91146	12 mL	1
Yellow		825.91694		

MICRO BRUSHES



For precision application of paints on vehicle body due to minor paint or chip damage

Features:

- Lint-free
- Ribbed finger grip with a flexible tip
- 100 mm length
- Easy dispensing container
- Non-drip

Benefits:

- The ultra-fine fibers are lint-free and leave no residues on the surface.
- The flexible tip allows extremely precise work, even in hard-to-access areas.
- Leaves vehicle undamaged with no residue
- Used to apply tiny amounts of oil, paint, glue, solvents, etc., accurately and controllably.
- Used in body shops, automotive repair, wood work and hobbyist shops

Application Areas:

- Paint dabbing, precision paint repair, auto detailing, cleaning, cosmetic paint touch-ups and minor paint repairs.

Great for Customers that purchase:

- Stabilant 22A (**Art No. 893.622**)
- Contact OL (**Art. No. 893.60**)
- or Dielectric Grease (**Art. No. 893.844100**)

Art. No.	Description	Colour
890.586701	Standard-100 pcs.	Blue
890.586702	Medium-100 pcs.	Yellow
890.586703	Fine-100 pcs.	White

06 SAFETY & PERSONAL PROTECTION



2 Head & Face Protection

18 Hand Protection

36 Safety Clothing

38 Hearing Protection

40 Anti-Fatigue Insoles

40 Kneeling Mat

41 Fall Protection

43 First Aid Kits & Supplies

43 Federal First Aid Kits

47 Ontario First Aid Kits

50 Quebec First Aid Kits

53 Manitoba First Aid Kits

55 Saskatchewan First Aid Kits

56 PEI First Aid Kits

57 Newfoundland & Labrador First Aid Kits

59 New Brunswick First Aid Kits

60 Nova Scotia First Aid Kits

63 British Columbia First Aid Kits

66 Alberta First Aid Kits

68 First Aid Supplies

SOLAR WELDING HELMETS



Welding helmet that offers outstanding blend of protection, performance, comfort and reliability.

Features & Benefits:

- Automatic mode for individualized and automatic adjustment of the protection level
- Ergonomically designed helmet shell: protects the forehead, crown, ears and neck perfectly.
- Lightweight and extremely comfortable
- Smoke-repellent design
- Protects against weld spatter and heat and protects during overhead welding
- Comfortable four-way adjustable headband
- Padded anti-sweat headband

Applications:

- Sticking welding (DC & AC), TIG (DC, DC Pulse), TIG AC (Pulse), MIG/MAG Pulse, Plasma Cutting/Welding.

TECHNICAL INFORMATION	
Translucency when activated:	Protection level 9-13
Dimensions:	110 x 90 x 9 mm
Field of Vision:	98 x 44 mm
Energy supply:	Solar cells, no battery change required
UV and IR protection:	Permanently ensured
Min./max. temperature conditions:	-10 to 55 °C

Description	Colour	Art. No.	P. Qty.
SOLAR WELDING HELMET	Flat Black	984.700200	
SOLAR PLUS WELDING HELMET	Flame Design	984.700620	1

SOLAR WELDING HELMET ACCESSORIES



Art. No. 984.700622 - P. Qty. 1

Welding Helmet Headgear



Art. No. 984.700202 - Inner - P. Qty. 5
Art. No. 984.700201 - Front - P. Qty. 5

Inner Lenses & Front Lenses



Art. No. 984.700621 - P. Qty. 5

Welding Helmet Sweatband

FACE SHIELD DEBRIS MASK



Art. No. 984.700

High Impact Protection against falling or flying objects and airborne debris.

Features:

- Lightweight, modern, contoured design with built-in chin protection
- Adjustable visor and headgear
- 100% Dielectric - No metal parts
- Features the patented P.R.P.L.®™ ratchet sizing adjustment system for secure fit
- Washable micro-fibre headband and comfort cell foam on the back
- Meets ANSI Z87.1-2003 (High Impact) and CSA Z94.3 Specifications

Benefits:

- Provides extreme comfort for extended use and increased wearer acceptance
- Convenient and customizable fit for the wearer
- Wide peripheral field of vision
- Easy to maintain and repair

Additional Tools:			
Item	Description	Art. No.	P. Qty
Replacement Screen	Clear, uncoated, 1.0 mm thick	984.701	1
Replacement Screen	Shade 5.0, 1.5 mm thick	984.705	

LENS CLEANING TOWELETTES



Art. No. 899.102301

Features:

- Safely cleans eye protective gear and safety glasses.
- For glass and polycarbonate lenses.
- Pre-moistened with anti-fog cleansing fluid.
- Individually wrapped in foil sachets and conveniently packaged in a dispensing box.

Box Qty: 100 individually packaged wipes

SAFETY GLASSES "IMPEX"



Features:

- Lightweight and economical, the temples are vented on this frame for added comfort

Standards:

- Exceeds ANSI Z87.1-2003 High Impact Requirements.
- CE EN166 Certified, CAN/CSA Z94.3-07

Lenses:

- General purpose for indoor applications that require impact protection
- Offers protection from excessive glare
- Provides 99.9% protection from harmful UV-A and UV-B rays
- 100% polycarbonate lenses
- Scratch-resistant lenses

Description	Art. No.	P. Qty.
Clear	899.103125	1

ARIES BIFOCAL SAFETY GLASSES



Lightweight and comfortable bifocal safety glasses that is suitable for any environment

Features:

- Scratch-resistant, polycarbonate Lens
- Integrated nose piece
- Soft, non-slip rubber temple
- Economical wrap-around unilens
- **3 different levels of magnifying lenses**

Benefits:

- Lightweight, comfortable and flexible
- Lens insert is out user's direct line of vision
- Unilens provides full panoramic view
- Rubber temples provide non-binding fit
- Scratch resistant polycarbonate lens provides 99% UVA/B/C protection

Lens Technology:

- Clear lens provides impact resistance
- Available diopters: +1.5, +2.0, +2.5

Standards:

- SEI CAN/CSA Z94.3-15 Approved
- Exceeds ANSI Z87.1 High Impact Requirements
- CE EN166 Approved

Applications:

General purpose for indoor applications that require impact protection.



Lens	Art. No.	P. Qty.
Clear, +1.5	899.100001	1
Clear, +2.0	899.100002	
Clear, +2.5	899.100003	

EOS SAFETY GLASSES



Lightweight safety glasses designed to better fit today's prescription eyewear

Features:

- Scratch-resistant, polycarbonate lens
- Lightweight nylon temples adjust for length and pitch
- Fits over most of today's prescription eye wear

Benefits:

- Lightweight, comfortable and flexible
- Unilens encapsulates the eye for superb protection
- Rubber temples provide non-binding fit
- Scratch resistant polycarbonate lens provides 99% UVA/B/C protection

Lens Technology:

- Clear lens provides impact resistance
- Grey lens offers protection from excessive glare

Standards:

- SEI CAN/CSA Z94.3-15 Approved
- Exceeds ANSI Z87.1 High Impact Requirements
- CE EN166 Approved

Applications:

General purpose for indoor and outdoor applications that require impact protection.



Lens Color	Art. No.	P. Qty
Clear	899.100004	1
Grey	899.100005	

RIGEL WELDING SAFETY GLASSES



Stylish safety glasses that are best suited for welding applications

Features:

- Scratch-resistant, polycarbonate lens
- Soft nose piece provides comfort for extended use
- Stylish dual lens
- Available in 3.0 or 5.0 IR Filter

Benefits:

- Lightweight, comfortable and flexible
- Offers a clear panoramic view without obstruction
- Scratch resistant polycarbonate lens provides 99% UVA/B/C protection

Lens Technology:

- 3.0 IR Filter: commonly used around welding sites or for light brazing or cutting

- 5.0 IR Filter: commonly used around welding sites or for medium to heavy cutting and medium to heavy gas welding

Standards:

- SEI CAN/CSA Z94.3-15 Approved
- Exceeds ANSI Z87.1 High Impact Requirements

Applications:

For limited welding applications like gas welding.



Lens Color	Art. No.	P. Qty
Green 3.0 IR Filter	899.100007	1
Dark Green 5.0 IR Filter	899.100008	

TRENDUS SAFETY GLASSES



Description	Art. No.	P. Qty.
Clear	899.103132	1
Grey	899.103133	
Clear, Anti-fog	899.103138	
Amber	899.103139	

Areas of application:

General purpose for indoor and outdoor applications that require impact protection.



Economical lightweight safety glasses that offer superior protection

Features:

- Hard-coated, polycarbonate Lens
- Integrated nose piece
- Economical wrap-around unilens

Benefits:

- Lightweight, comfortable and flexible
- Unilens provides full panoramic view
- Scratch resistant polycarbonate lens provides 99% UVA/B/C protection

Lens Technology

- **Clear lens** provide impact resistance
- **W2X Anti-fog lens** keeps the inside lens from fogging up and obstructing view
- **Grey lens** offers protection from excessive glare
- **Amber lens** increases contrast in low light environments. Reduces haze from blue lighting

Standards:

- SEI CAN/CSA Z94.3-15 approved
- Exceeds ANSI Z87.1 high impact requirements
- CE EN166 approved

FISSION SAFETY GLASSES



Description	Art. No.	P. Qty.
Grey	899.103201	1
Clear	899.103200	
Clear, Anti-fog	899.103202	
Indoor/Outdoor Mirror	899.103203	
Anti-Fatigue Blue	899.103204	

Areas of application:

General purpose for indoor or outdoor applications that require impact, protection.



Lightweight and comfortable safety glasses that is suitable for any environment.

Features:

- Scratch-resistant, polycarbonate Lens
- Integrated nose piece
- Soft, non-slip rubber temple
- Economical wrap-around unilens

Benefits:

- Lightweight, comfortable and flexible
- Unilens provides full panoramic view
- Rubber temples provide non-binding fit
- Scratch resistant polycarbonate lens provides 99% UVA/B/C protection

Lens Technology:

- **Clear lens** provide impact resistance
- **W2X Anti-fog lens** keeps the inside lens from fogging up and obstructing view
- **Grey lens** offers protection from excessive glare
- **Anti-fatigue blue lens** offers protection where there is an excessive amount of yellow light. Reduces eye strain and fatigue
- **Indoor/outdoor mirror lens** provides 100% protection from harmful UV rays. Used between indoor and outdoor applications

Standards:

- SEI CAN/CSA Z94.3-15 Approved
- Exceeds ANSI Z87.1 High impact requirements
- CE EN166 approved

SPARK SAFETY GLASSES



Description	Art. No.	P. Qty.
Anti-Fatigue Blue	899.103207	1
Clear	899.103205	
Grey	899.103206	
Amber *NEW*	899.100006	

Areas of application:

General purpose for indoor and outdoor applications that require impact protection.



Lightweight safety glasses that provides superior comfort and fit!

Features:

- Scratch-resistant, polycarbonate lens
- Soft integrated nose piece
- Soft, non-slip rubber temple
- Economical wrap-around unilens

Benefits:

- Lightweight, comfortable and flexible
- Unilens provides full panoramic view
- Rubber temples provide non-binding fit
- Scratch resistant polycarbonate lens provides 99% UVA/B/C protection

Lens Technology:

- **Clear lens** provide impact resistance
- **Grey lens** offers protection from excessive glare
- **Anti-fatigue blue lens** offers protection where there is an excessive amount of yellow light. Reduces eye strain and fatigue
- **Amber lens** increases contrast in low light environments. Reduces haze from blue lighting

Standards:

- SEI CAN/CSA Z94.3-15 approved
- Exceeds ANSI Z87.1 High impact requirements
- CE EN166 approved

ELEMENT SAFETY GLASSES



Description	Art. No.	P. Qty.
Clear, Anti-Fog	899.103210	1
Ice Blue Mirror	899.103211	
Indoor/Outdoor Mirror	899.103219	

Areas of application:

General purpose for indoor or outdoor applications that require impact, protection.



Premium protection and style on the lightest safety glasses available!

Features:

- Scratch-resistant, polycarbonate lens
- Soft integrated nose piece for snug fit
- Soft, non-slip rubber temple
- Economical wrap-around, half frame lens
- Sporty style—only weighs 22g!

Benefits:

- Lightweight, comfortable and flexible
- Offers a clear panoramic view without obstruction
- Rubber temples provide non-binding fit
- Scratch resistant polycarbonate lens provides 99% UVA/B/C protection

Lens Technology:

- **Clear lens** provide impact resistance
- **W2X Anti-fog lens** keeps the inside lens from fogging up and obstructing view
- **Indoor/outdoor mirror lens** provide 100% protection from harmful UV rays. Used between indoor and outdoor applications
- **Ice Blue mirror lens** provide protection from excessive glare and brightness in outdoor applications

Standards:

- SEI CAN/CSA Z94.3-15 approved
- Exceeds ANSI Z87.1 High impact requirements
- CE EN166 approved

AXIS SAFETY GLASSES



Axis safety glasses demonstrate strength with style and protection.

Features:

- Scratch-resistant, polycarbonate lens
- Soft, non-slip rubber temple
- Sporty dual lens style
- Wide temples

Benefits:

- Comfort-fit, rubber temples prevent eyewear from slipping to provide maximum performance
- Sporty dual lens style with wide temples provides full eye and is suitable for both working environments and sport activities
- Scratch resistant polycarbonate lens provides 99% UVA/B/C protection

Lens Technology:

- **Grey lens** offers protection from excessive glare
- **Ice Blue mirror lens** provides protection from excessive glare and brightness in outdoor applications

Standards:

- SEI CAN/CSA Z94.3-15 Approved
- Exceeds ANSI Z87.1 High impact requirements
- CE EN166 approved

Description	Art. No.	P. Qty.
Ice Blue Mirror	899.103213	1
Grey	899.103212	

Areas of application:

General purpose for outdoor applications that require impact protection.



NOVA FOAM LINED SAFETY GLASSES



Comfortable and lightweight safety glasses with integrated foam padding to limit eye exposure to dust particles.

Features:

- W2MAX anti-fog coated
- Scratch resistant, polycarbonate lens
- Removable flame resistant foam padding
- Soft integrated nose piece
- Soft, non-slip rubber temple

Benefits:

- Wrap-around lens provides excellent side protection
- Slim co-injected temples for snug, secure fit
- Scratch resistant polycarbonate lens provides 99% UVA/B/C protection

Lens Technology:

- W2MAX creates a high performing, superior anti-fog coating that is durable enough to withstand repeated cleaning without losing adhesion
- W2MAX ensures maximum clarity in the most extreme temperatures and humidity conditions
- Flame resistant foam padding helps limit eye exposure to dust and particles while providing additional cushioning
- **Clear lens** provide impact resistance
- **Grey lens** offers protection from excessive glare

Standards:

- SEI CAN/CSA Z94.3-15 approved
- Exceeds ANSI Z87.1 High impact requirements
- CE EN166 approved

Description	Art. No.	P. Qty.
Clear, Anti-fog	899.103218	1
Grey, Anti-fog	899.103220	

Areas of application:

General purpose for indoor and outdoor applications that require impact protection.



AEGIS SAFETY GOGGLES



These safety goggles offer a modern design combined with performance, comfort and flexibility.

Features:

- W2X anti-fog coated, polycarbonate lens
- Fits over prescription glasses
- Fully adjustable elastic band
- Indirect ventilation system prevents fogging

Benefits:

- Goggle provides protection against dust and chemical splash
- Dual pane lens ensures ultimate anti-fog performance
- Scratch resistant polycarbonate lens provides 99% UVA/B/C protection
- Thermoplastic (TPR) body with universal nose bridge is flexible and contours to the user's face

Standards:

- SEI CAN/CSA Z94.3-15 Approved
- Exceeds ANSI Z87.1 High impact requirements
- CE EN166 approved

Description	Art. No.	P. Qty.
Clear, Anti-Fog	899.103221	1
Clear, Replacement Lens* *NEW*	899.100012	
Grey, Replacement Lens* *NEW*	899.100013	

Areas of application:

General purpose for indoor or outdoor applications that require impact, dust and chemical protection.



BARRACUDA SAFETY GOGGLE AND SHIELD



Eye and face protection in one product!

Features:

- W2X anti-fog coated, polycarbonate lens
- Fits over prescription glasses
- Soft vinyl goggle body conforms to facial contours
- Removable vent caps
- 4 ventilation holes provide appropriate airflow
- Removable and adjustable polycarbonate face shield
- Fully adjustable elastic band
- Includes 2 disposable tear-off shield covers

Benefits:

- Goggle provides protection against dust and chemical splash
- Scratch resistant polycarbonate lens provides 99% UVA/B/C protection
- Removable vent caps allow the user to remove when more ventilation is required or leave in place for unsurpassed chemical splash resistance
- Goggle incorporated with removable shield provides full face protection
- Polycarbonate shield conforms to the face offering increased impact and dust protection

Standards:

- SEI CAN/CSA Z94.3-15 Approved
- Exceeds ANSI Z87.1 High impact requirements
- CE EN166 approved

Description	Art. No.	P. Qty.
Clear, Anti-Fog	899.103222	1
Tear-off visors* (6 per/pkg) *NEW*	899.100010	

Areas of application:

General purpose for indoor or outdoor applications that require impact, dust and chemical protection.



N95 DISPOSABLE PARTICULATE RESPIRATORS

Art. No. 899.081730 P. Qty: 20/BX

Disposable N95 particulate respirator designed to provide comfortable and reliable worker respiratory protection against certain non-oil based particles

Features & Benefits:

- NIOSH N95 Approved
- Provides at least 95% filtration efficiency against certain non-oil based particles
- Electrostatically-charged filter media provides low breathing resistance
- Latex-free, staple-free head straps for comfort and safety
- Soft foam nose cushion for more comfort
- Contoured formable aluminum nose-clip
- More durable double-shell construction for long life and better value
- Compatible with a variety of protective eyewear and hearing protection

Applications:

- Grinding, sanding, sweeping, sawing, bagging or other dusty applications

Art. No. 899.081740 P. Qty: 10/BX

Disposable N95 particulate respirator with an exhalation valve, designed to provide comfortable and reliable worker respiratory protection against certain non-oil based particles

Features & Benefits:

- NIOSH N95 Approved
- Provides at least 95% filtration efficiency against certain non-oil based particles
- Premium oversized valve opens more easily to expel hot air for cool comfort
- Electrostatically-charged filter media provides low inhalation breathing resistance
- Latex-free, staple-free head straps for comfort and safety
- Soft foam nose cushion for more comfort
- Contoured formable aluminum nose-clip
- More durable double-shell construction for long life and better value
- Compatible with a variety of protective eyewear and hearing protection

Applications:

- Grinding, sanding, sweeping, sawing, bagging or other dusty applications



WARNING: Not NIOSH approved for ozone protection, organic vapours or acid gases. "Nuisance Level" refers to concentrations not exceeding the OSHA PEL or applicable government standards for exposure limits, whichever is lower. Do not use in or around sandblasting. This product does not supply oxygen.

NUISANCE DISPOSABLE DUST MASK



Dust Mask vs. Respirators, Can you tell the difference?

Dust masks are not NIOSH approved disposable filtering face pieces. They can be worn for comfort against non-toxic nuisance dusts during activities like mowing, gardening, sweeping and dusting. These masks are not respirators and do not offer protection against hazardous dusts, gases or vapours. Dust masks can easily be confused with NIOSH approved N-95 respirators. How can you tell the difference? Look for a NIOSH label printed on the box and/or mask. Also the use of the word "respirator" on the box may indicate it is a NIOSH approved respirator.

Art. No. 899.061501 P. Qty: 50/BX

Economical choice for excellent comfort and disposable breathing protection

Features & Benefits:

- Moderate protection against nuisance dust and non-toxic household dusts and pollen
- Extremely lightweight, only 5 g
- Material friendly to the skin
- Does NOT provide lung protection
- Aluminum adjustable nose clip for contoured seal
- Adjustable straps for a snug fit
- No staples for added comfort
- **NOT NIOSH approved**
- Not recommended for paint booth

Applications: For dusty environments

DISPOSABLE N95 CARBON DUST MASK



NOTE: Not NIOSH approved for ozone protection, organic vapours or acid gases. "Nuisance Level" refers to concentrations not exceeding the OSHA PEL or applicable government standards for exposure limits, whichever is lower. Do not use in or around sandblasting. This product does not supply oxygen.

Art. No. 899.081745 P. Qty: 10/BX

Helps provide comfortable protection against certain oil and non-oil based particles- including those with nuisance levels of organic vapours/acid gases.

Features & Benefits:

- NIOSH N95 Approved
- Provides at least 95% filtration efficiency against certain non-oil based particles
- Layer of activated carbon provides comfort relief against nuisance levels of both organic vapours and acid gas such as solvents, degreasers and resins.
- Premium oversized valve opens more easily to expel hot air for cool comfort
- Smooth latex-free polymer head straps won't catch on hair. No pre-stretching needed.
- Soft foam nose cushion for more comfort
- Adjustable nose clip reduces potential for eyewear fogging and helps ensure a better seal and fit
- Compatible with a variety of protective eyewear and hearing protection
- Time use limitations apply

Applications:

- Grinding, sanding, aluminum smelting, foundry applications, lab settings, agricultural, petrochemical and manufacturing and undercoating where particles and nuisance levels of organic vapours may be present

PROFESSIONAL RESPIRATOR KIT



All-in-one respirator kit that is NIOSH approved for respiratory protection against a wide range of oil and non-oil based particulate contaminants

Features & Benefits:

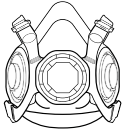
- NIOSH OV-AG/P100 approved
- Provides at least 99.97% filtration efficiency against certain particles such as lead, asbestos, cadmium, arsenic and MDA.
- Layer of activated carbon provides comfort relief against nuisance levels of organic vapour, acid gas
- Silicone half mask provides greater softness, comfort and durability
- Completely assembled and individually packed in resealable foil bags
- Heavy duty adjustable head straps for comfort and safety
- Compatible with a variety of protective eyewear and hearing protection
- Includes Bonus Hygiene Guard & Shape Retainer insert
- Replaceable particulate filters

Applications:

- Use for a variety of applications including welding, brazing, torch cutting, metal pouring, soldering, agriculture, construction, general manufacturing, pharmaceuticals and primary metals

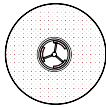
Size	Art. No.	P. Qty.
Medium	899.089290	1
Large	899.089390	

Includes:



1 x Würth Half Mask Respirator

+



4 x OV/AG Particulate Filter (899.08200)

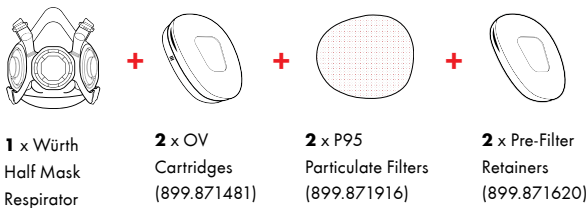
WARNING: "Nuisance Level" refers to concentrations not exceeding OSHA PEL or applicable government standards, whichever is lower. This filter does not provide lung protection against organic vapours or acid gases. Do not use in or around sandblasting. This product does not supply oxygen. Read and understand instructions and warnings before using this product.

PROFESSIONAL SERIES PRO-STEP RESPIRATOR KIT



Size	Art. No.	P. Qty.
Medium	899.089291	1
Large	899.089391	

Includes:



All-in-one respirator kit that is NIOSH approved for protection against certain organic vapours and particles

Features & Benefits:

- NIOSH OV/P95 approved for Organic Vapours plus solid and oil aerosols
- Silicone half mask provides greater softness, comfort and durability
- Completely assembled and individually packed in resealable foil bags
- Heavy duty adjustable head straps for comfort and safety
- Soft foam nose cushion for more comfort
- Compatible with a variety of protective eyewear and hearing protection
- Includes Bonus Hygiene Guard & Shape Retainer insert
- Replaceable cartridges and particulate filter

Applications:

- Use for a variety of applications including assembly and mechanical, batch-charging, change-overs, chemical dispensing, clean-up, cleaning, spray painting, parts cleaning, seal coating, chemicals, construction, oil and gas, and transportation

WARNING: Do not use in or around sandblasting. This product does not supply oxygen. Read and understand instructions and warnings before using this product. This respiratory protection system is not for use in environments that are immediately dangerous to life or health.

SIGNATURE SERIES HALF-MASK RESPIRATOR



Size	Art. No.	P. Qty.
Medium	899.871483	1
Large	899.871484	

Provides respiratory protection against particulates and a wide variety of gases and vapours when used with approved cartridges and filters

Features & Benefits:

- NIOSH Approved
- Soft, lightweight elastomeric (TPE) half face piece
- Cradle suspension
- Exhalation valve helps make breathing easier and offers cooler and drier use
- Easy-to-adjust head straps
- Bonus Hygiene Guard included for clean storage and product protection
- Can be disassembled, cleaned and **reused**
- For use with Würth cartridges and filters (sold separately)
- Comes with sealable storage bag

Applications:

- Sawing, masonry, machining, laboratories, painting, cleaning, grinding, pouring/casting, chemical handling, chemical clean-up, sanding, welding, assembly and mechanical, chipping, furnace operations, chiseling

NOTE: These respirators help reduce exposure to certain airborne contaminants. Misuse may result in sickness or death. Before use, the wearer must read and understand User Instructions provided as a part of product packaging.

SIGNATURE ONE-STEP RESPIRATOR KIT



All-in-one NIOSH approved for respiratory protection against certain organic vapours and particles

Features & Benefits:

- NIOSH OV/P95 approved for Organic Vapours plus solid and oil aerosols
- Half face piece design is ideal for intermittent use
- Completely assembled and individually packed in resealable foil bags
- Disposable model helps reduce maintenance issues for greater convenience
- Heavy duty adjustable head straps for comfort and safety
- Soft foam nose cushion for more comfort
- Compatible with a variety of protective eyewear and hearing protection
- Includes Bonus Hygiene Guard & Shape Retainer insert
- Cartridges and filter NOT replaceable

Applications:

Use for a variety of applications including spray painting, pesticides, spray painting, pesticides, clear coating, staining, cleaning, assembly and mechanical, agriculture, construction and transportation, mining, oil & gas

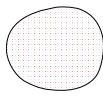
WARNING: Do not use in or around sandblasting. This product does not supply oxygen. Read and understand instructions and warnings before using this product. This respiratory protection system is not for use in environments that are immediately dangerous to life or health.

Size	Art. No.	P. Qty.
Medium	899.871501	1
Large	899.871502	

Includes:



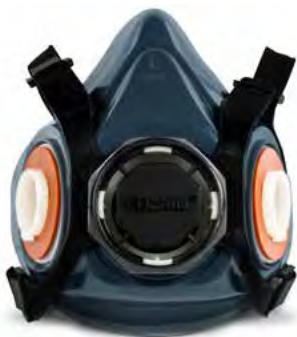
+



2 x OV
Cartridges
(899.871481)

2 x P95
Particulate Filters
(899.871916)

PROFESSIONAL SERIES HALF-MASK RESPIRATOR



Provides respiratory protection against particulates and a wide variety of gases and vapours when used with approved cartridges and filters

Features & Benefits:

- NIOSH Approved
- Soft, silicone rubber for highest level of comfort and durability
- Exhalation valve helps make breathing easier and can offer cooler and drier comfort
- Can be disassembled, cleaned and **reused**
- Easy to clean- dried paint easily removed from flexible silicone material
- Comfortable, easy-to-adjust head straps
- Bonus Hygiene Guard included for clean storage and product protection
- For use with Würth cartridges and filters (sold separately)
- Comes with sealable storage bag

Applications:

- Sawing, masonry, machining, laboratories, painting, cleaning, grinding, pouring/casting, chemical handling, chemical clean-up, sanding, welding, assembly and mechanical, chipping, furnace operations, chiseling

Size	Art. No.	P. Qty.
Medium	899.879250	1
Large	899.879350	

NOTE: These respirators help reduce exposure to certain airborne contaminants. Misuse may result in sickness or death. Before use, the wearer must read and understand User Instructions provided as a part of product packaging.

FULL FACE RESPIRATOR



Size	Art. No.	P. Qty.
O/S	899.899002	1

Art. No. 899.899002

Provides respiratory protection against particulates and a wide variety of gases and vapours when used with approved cartridges and filters

Features & Benefits:

- NIOSH Approved
- One size fits all
- Comfortable elastomeric material
- Wraparound lens for excellent field of vision
- Full size nose cup reduces lens fogging
- Exhalation valve helps make breathing easier and offers cooler and drier use
- Easy-to-adjust head straps
- Can be disassembled, cleaned and **reused**
- For use with Würth cartridges and filters (sold separately)
- Comes with sealable storage bag
- Includes lanyard

Applications:

- Sawing, masonry, machining, laboratories, painting, cleaning, grinding, pouring/casting, chemical handling, chemical clean-up, sanding, welding, assembly and mechanical, chipping, furnace operations, chiseling

PROTECTIVE LENS FILMS

Visor Protectors



Art. No. 899.871122

- For use with Art. No. 899.899002
- Helps full face lens stay clean
- Peel away

ALCOHOL FREE RESPIRATOR WIPES





Art. No. 899.102303 Qty. 100/BX

- For use with Art. No. 899.899002
- Great for hygienic cleansing of respirators and other personal protection equipment shared between workers
- Non-alcohol formula






WÜRTH RESPIRATOR CARTRIDGES

* Fits our full and half mask respirators

Image	Description	Art. No.	P. Qty.
	<p>Wörth Organic Vapour Cartridge</p> <ul style="list-style-type: none"> • NIOSH approved against certain organic vapours • NIOSH Black = Organic Vapour 	899.871481	2/BG
	<p>Wörth Organic Vapour/Acid Gas Cartridge</p> <ul style="list-style-type: none"> • NIOSH approved against organic vapours, sulfur dioxide, hydrogen chloride, chlorine • NIOSH Yellow = Organic Vapour/Acid Gas 	899.871478	2/BG
	<p>Wörth Multi-Gas Cartridge</p> <ul style="list-style-type: none"> • NIOSH approved against ammonia, chlorine dioxide, chlorine, formaldehyde, hydrogen chloride, hydrogen fluoride, hydrogen sulfide, methylamine, organic vapour, sulfur dioxide • NIOSH Olive = Multi-Gas 	899.871289	2/BG
	<p>Wörth Organic Vapour Cartridge with P100 Filter</p> <ul style="list-style-type: none"> • NIOSH approved against certain organic vapours • Attached P100 Particulate Filter • NIOSH Black = Organic Vapour 	899.871571	2/BG
	<p>Wörth Organic Vapour/Acid Gas Cartridge with P100 Filter</p> <ul style="list-style-type: none"> • NIOSH approved against organic vapours, sulfur dioxide, hydrogen chloride, chlorine • Attached P100 Particulate Filter • NIOSH Yellow = Organic Vapour/Acid Gas 	899.871573	2/BG
	<p>Wörth Multi-Gas Cartridge with P100 Filter</p> <ul style="list-style-type: none"> • NIOSH approved against ammonia, chlorine dioxide, chlorine, formaldehyde, hydrogen chloride, hydrogen fluoride, hydrogen sulfide, methylamine, organic vapour, sulfur dioxide • Attached P100 Particulate Filter • NIOSH Olive = Multi-Gas 	899.871578	2/BG

WÜRTH RESPIRATORY FILTERS

*For use with our full and half mask respirators

Image	Description	Art. No.	P. Qty.
 <p>A white, circular, pleated filter pad with the text 'Gerson G95P NIOSH P95 Series cartridge size' printed on it.</p>	<p>Würth P95 Particulate Filter Pad</p> <ul style="list-style-type: none"> • NIOSH 95% filter efficiency • Effective against all solid and oil particulate aerosols • Applications: Grinding, sanding, bagging and other dusty/oil applications 	899.871916	10/BG
 <p>A bright pink, rectangular, pleated filter with a thumb notch on one side.</p>	<p>Würth P100 Particulate Filter</p> <ul style="list-style-type: none"> • NIOSH 99.97% filter efficiency • Effective against all solid and oil particulate aerosols • Applications: Welding, metal pouring, pharmaceuticals • Thumbs up fit testing feature 	899.8770	2/BG
 <p>Two circular, pink, pleated pancake-style filters. One is shown from the front with the text 'GERSON XP100 NIOSH P100' and the other from the back.</p>	<p>Würth P100 Particulate Filter, Pancake Style</p> <ul style="list-style-type: none"> • NIOSH 99.97% filter efficiency • Effective against all solid and oil particulate aerosols • Applications: utilities operations, chemical manufacturing 	899.08100	2/BG
 <p>Two circular, pink, pleated pancake-style filters. One is shown from the front with the text 'GERSON XP100-OV/AG NIOSH P100' and the other from the back.</p>	<p>Würth P100 OV/AG Particulate Filter, Pancake Style</p> <ul style="list-style-type: none"> • NIOSH 99.97% filter efficiency • Effective against all solid and oil particulate aerosols • Applications: Welding, metal pouring, pharmaceuticals, aluminum smelting 	899.08200	2/BG
 <p>A white, U-shaped plastic filter retainer with a central opening.</p>	<p>Würth Filter Retainer</p> <ul style="list-style-type: none"> • For use with 899.871916 • Used to clamp particulate pre-filters on to gas and vapour filters 	899.871620	2/BG

MECHANIC'S WINTER GLOVE



Areas of application:

- Building trade.
- Supply and disposal companies.
- Work in cool and normal warehouses.
- Goods transfer.
- Due to their good resistance to wear, highly suitable for plastering work.
- Scaffolding.
- Above-and below-ground construction.

Features:

- Universal winter glove made of seamlessly knit polyester-cotton loop fabric.
- High-quality natural latex coating.
- Open hand backs for good breathability.
- Excellent dry and wet grip via fine surface texturing.
- Very good mechanical loadability.
- Silicone-free.

EN Standards/performance values

EN 420 + EN 388 + EN 511

CE Cat. II/ performance values EN 388: 2241

Performance values EN 511: X1X

Size	Art. No.	P. Qty.
Large / 9-10	899.400521	1 pair
X Large / 10-11	899.400522	

HEAVILY LINED SNOW STOPPER GLOVE



Areas of application::

- General purpose
- Cold weather construction
- Light to Medium Industrial
- Maintenance

Features:

- Heavy Sherpa lining, keeping hands warm in cold conditions
- Durable split cowhide leather with breathable cotton drill back, keeping hands cool and comfortable
- Full leather index finger, pulse protector and knuckle bar for added protection and reinforcement
- Snug-fitting shirred elastic wrist with slip-on style safety cuff for quick and easy removal

Description	Art. No.	Qty.
Large / 9	899.400500	1
X Large / 10	899.400501	

TIGERFLEX THERMO GLOVES



For jobs that require handling sharp materials in cold and wet conditions, the THERMO gloves keeps hands dry and warm while also delivering Cut Level 2 protection.

Features:

- Dark grey, skin-friendly, seamless round-knit nylon/Lycra base fabric (13 gauge)
- ¾ dipped foam nitrile with additional Nitrile Tiger Grip
- Acrylic-polyester fibre thermal liner
- Elasticated cuffs
- High oil resistance due to special nitrile coating.
- CE Certified; conform to EN420 / EN388
- CATII / EN388 Performance level: 2.2.4.2.

Benefits:

- EN 388 Cut Level 2 protection
- Very comfortable to wear.
- Extremely breathable.
- Darker color hides dirt and grime for extended wear time
- Thermal insulated to keep hands warm in the coldest conditions
- Nylon fabric is soft and form fitting while palm coating adds outstanding grip and dexterity
- Excellent wet/dry grip
- Oil-repellent and water-repellent

Applications:

Can be used indoors and outdoors. Suitable for applications such as assembly, interior construction, workshop, mechanical, car manufacturing, maintenance and bodywork tasks. Freight forwarding, transport and warehouse activities.



Acrylic-polyester fibre thermal liner



EN 388



2.2.4.2

EN 388: Mechanical risks

Test criteria	Assessment gauge
Wear resistance	0-4
Cutting resistance	0-5
Tear resistance	0-4
Penetration resistance	0-4

Size	Art. No.	P. Qty.
Medium / 8	899.404028	6
Large / 9	899.404029	
X Large / 10	899.404030	
XX Large / 11	899.404031	

VINYL DISPOSABLE GLOVES



Features:

- Hypoallergenic Vinyl Glove
- Latex free.
- Lightly powdered (anti-allergic) for comfort.
- Rolled cuff.
- Ambidextrous.
- Practical dispenser box.
- Versatile chemical resistance such as alcohol, oils, alkaline solutions, acids, epoxy resins, polyester resins.

- Not recommended for aromatic substances, chlorinated hydrocarbons, solvents, organic matter, or nitro thinner.
- 5 mil

Size	Art. No.	P. Qty.
Medium / 8	899.46002	100/box
Large / 9	899.46003	
X Large / 10	899.46004	



CLASSIC WEIGHT NITRILE DISPOSABLE GLOVES

CLASSIC WEIGHT



The perfect balance of performance and price. When you need a mid-level nitrile glove with qualities in between lightweight and premium weight, classic weight nitrile is your best bet!

Features:

- 5 mil thickness
- Powder-free
- Latex-free
- Micro-roughened texture
- Polymer-coated
- Industrial grade
- Snug-fitting
- Ambidextrous

Benefits:

- Excellent tensile strength
- Stronger than latex or vinyl
- Residue free
- Excellent non-slip gripping power
- Excellent dexterity

Applications:

- Everyday essentials
- Body shops
- Machine shops
- Industrial applications
- Janitorial work
- Plumbing
- Anywhere a hard working glove is needed

Size	Black	Blue	P. Qty.
Medium / 8	899.470328	899.470308	100/BX
Large / 9	899.470329	899.470309	
X Large / 10	899.470330	899.470310	
XX Large / 11	899.470331	899.470311	

PREMIUM WEIGHT NITRILE DISPOSABLE GLOVES

PREMIUM



Top of the line gloves for all applications. Our premium gloves provide top quality performance for longer duration of use.

Features:

- 6 mil thickness
- Powder-free
- Latex-free
- Micro-roughened texture
- Polymer-coated
- Industrial grade
- Snug-fitting
- Ambidextrous

Benefits:

- Excellent tensile strength
- 50% thicker than standard nitrile gloves
- Stronger than latex or vinyl
- Residue free
- Excellent non-slip gripping power
- Excellent dexterity

Applications:

- Everyday essentials
- Body shops
- Machine shops
- Industrial applications
- Janitorial work
- Plumbing
- Anywhere a hard working glove is needed

Size	Black	Blue	P. Qty.
Small / 7	899.470515	899.470525	10/CS
Medium / 8	899.470516	899.470526	
Large / 9	899.470517	899.470527	
X Large / 10	899.470518	899.470528	

PREMIUM WEIGHT TEXTURED NITRILE DISPOSABLE GLOVES

PREMIUM



Top of the line gloves for all applications. Our diamond textured premium gloves provide top quality performance with enhanced grip!

Features:

- 6 mil thickness
- Powder-free
- Latex-free
- Diamond textured
- Hi-Vis green colour
- Industrial grade
- Snug-fitting
- Ambidextrous

Benefits:

- Hi-Vis colour enhances safety because of better visibility when working in dark/dim areas while also ensuring compliance
- 50% thicker than standard nitrile gloves
- Stronger than latex or vinyl
- Residue free
- Excellent non-slip gripping power
- Excellent dexterity

Applications:

- Everyday essentials
- Body shops
- Machine shops
- Industrial applications
- Janitorial work
- Plumbing
- Anywhere a hard working glove is needed

Size	Black	Green	P. Qty.
Medium / 8	899.470424	899.470434	100/BX
Large / 9	899.470425	899.470435	
X Large / 10	899.470426	899.470436	

HEAVY WEIGHT NITRILE DISPOSABLE GLOVES

HEAVY WEIGHT



Size	Black	Blue	P. Qty.
Medium / 8	899.470501	889.47010	50/BX
Large / 9	899.470502	889.47011	
X Large / 10	899.470503	889.47012	

Note: 889... replaces 899.530... (M-XL)

High performance gloves for the toughest applications. Würth Heavy weight gloves provide heavy duty protection.

Features:

- 8 mil thickness
- Powder-free
- Latex-free
- Micro-roughened texture
- Polymer-coated
- Industrial grade
- Snug-fitting
- Ambidextrous

Benefits:

- Excellent tensile strength
- 50% thicker than standard nitrile gloves
- Stronger than latex or vinyl
- Residue free
- Excellent non-slip gripping power
- Excellent dexterity

Applications:

- Everyday essentials
- Body shops
- Machine shops
- Industrial applications
- Janitorial work
- Plumbing
- Anywhere a hard working glove is needed

HEAVY WEIGHT TEXTURED NITRILE DISPOSABLE GLOVES

HEAVY WEIGHT



NEW

Size	Orange	Black	Green	P. Qty.
Medium / 8	899.470321	899.470454 *NEW*	899.470445 *NEW*	100/BX
Large / 9	899.470322	899.470455 *NEW*	899.470446 *NEW*	
X Large / 10	899.470323	899.470456 *NEW*	899.470447 *NEW*	
XX Large / 11	899.470324			

High performance gloves for the toughest applications. Würth heavy weight gloves provide heavy duty protection and high-quality performance with features like raised textures for enhanced gripping power.

Features:

- 8 mil thickness
- Powder-free
- Latex-free
- Diamond textured
- Hi-Vis orange colour
- Industrial grade
- Snug-fitting
- Ambidextrous

Benefits:

- Hi-Vis colour enhances safety because of better visibility when working in dark/dim areas while also ensuring compliance
- 50% thicker than standard nitrile gloves
- Stronger than latex or vinyl
- Residue free
- Excellent non-slip gripping power
- Excellent dexterity

Applications:

- Everyday essentials
- Body shops
- Machine shops
- Industrial applications
- Janitorial work
- Plumbing
- Anywhere a hard working glove is needed

HEAVY DUTY LATEX GLOVE "FIREMAN"



Areas of application:

- Emergency work.
- Liquid protection.
- Hygiene glove for all cleaning work industry.
- Laboratory.
- Agriculture, etc.

Features:

- High risk 13 mil powder free latex textured gloves.
- Fully textured.
- Powder free.
- Solvent resistant.
- Extra grip and protection, AQL 1.5.

Conform to EN 455 Cat. III

Size	Art. No.	P. Qty.
Medium / 8	899.41502	50/box
Large / 9	899.41503	
X Large / 10	899.41504	

WELDER'S GLOVES



Features:

- Rugged split-grain cowhide for strength and durability
- Cotton fleece lined palm for additional protection in heat applications
- Weltd seams and pulse protector for additional reinforcement and protection
- Gunn cut design has seams set away from the working area of the hand for a comfortable wear and wing thumb for flexibility
- Gauntlet style cuff provides additional wrist and forearm protection
- 12" long from fingertip to end of cuff

Size	Art. No.	P. Qty.
Universal	899.407	3 pairs

WELDER'S GLOVES FLEECE LINING MIG



Features

- Heavyweight split-grain cowhide leather for strength and durability
- Cotton fleece lining protects hands from heat related applications
- Classic gunn cut with wing thumb has seams set away from the working area of the fingers for a more comfortable wear
- Reinforced leather weltd seams for added reinforcement and protection against sparks
- Gauntlet style cuff for additional forearm protection
- Glove Weight: 400 Grams

Areas of application:

- Welding
- Utility Work
- Construction

Size	Art. No.	P. Qty.
Universal	984.310208	1 pair

W-100 FULL GRAIN WELDING GLOVE



Tough, durable welding glove that also provides excellent resistance to oil and water

Features & Benefits:

- Made of premium-quality grain cowhide leather
- Unlined
- Split leather back and cuffs for flexibility
- Superior fit and dexterity without compromising on durability
- Weltd seams and straight thumbs for control
- 4" gauntlet cuff provides full protection

Applications:

- Welding applications, deburring and general purpose work

Sizes	Art. No.	P. Qty.
10	5350.050010	6 pairs

W-120 SPLIT LEATHER WELDING GLOVE



High quality, durable welding glove that provides maximum protection

Features & Benefits:

- Made of high-quality split leather
- Unlined
- Excellent abrasion resistance
- Weltd seams at all critical points
- 4" gauntlet cuff provides full protection

Applications:

- For light welding, cutting, grinding, deburring and other rough tasks.

Sizes	Art. No.	P. Qty.
10	5350.050210	6 pairs

W-20 FULL GRAIN COWHIDE GLOVES



Tough, rugged leather gloves that also provides superior comfort and flexibility

Features & Benefits:

- Made of high-quality full-grain cowhide leather
- Knuckle guard, fingertips and index fingers are full-grain leather
- Cotton lining in the palms
- Rubberized Wrists
- 2-1/2" Safety Cuff

Applications:

- Medium to heavy-duty mechanical activities, metalworking, bodywork, transport industry, woodworking, repair, installation and maintenance work, construction industry.

Sizes	Art. No.	P. Qty.
9	5350.000009	12 pairs
10	5350.000010	

W-10 SPLIT LEATHER GLOVES



Tough, rugged leather gloves that also provides superior comfort and flexibility

Features & Benefits:

- Made of high-quality split cowhide leather
- Knuckle guard, fingertips and index fingers are full split leather providing excellent durability
- Cotton lining in the palms
- Rubberized Wrists
- 2-1/2" Safety Cuff

Applications:

- Medium to heavy-duty mechanical activities, metalworking, bodywork, transport industry, woodworking, repair, installation and maintenance work, construction industry.

Sizes	Art. No.	P. Qty.
9	5350.000109	12 pairs
10	5350.000110	

BLUE NITRILE PROTECTIVE GLOVES



Heavy duty nitrile coated glove that provides superior grip and chemical resistance

Features & Benefits:

- 100% Cotton Jersey Liner
- Heavy nitrile fully coated
- Excellent resistance to abrasion, tear and puncture
- Superior protection against oil and grease
- Knit Wrist

Standards:

- EN388:2016 performance level: 3111X

Applications:

- Rough industrial applications, sheet metal handling, fabrication workshops and automotive

Sizes	Art. No.	P. Qty.
9	899.413109	12 pairs
10	899.413110	
11	899.413111	

HEAVY DUTY BLUE NITRILE PROTECTIVE GLOVES



Heavy duty nitrile coated glove that provides superior grip and chemical resistance

Features & Benefits:

- 100% Cotton Jersey Liner
- Heavy nitrile ¾ palm coating
- Excellent resistance to abrasion, tear and puncture
- Superior protection against oil and grease
- 2-1/2" Safety Cuff

Standards:

- EN388:2016 performance level: 3111X

Applications:

- Rough industrial applications, sheet metal handling, fabrication workshops and automotive

Sizes	Art. No.	P. Qty.
10	899.412410	12 pairs

WELDER'S GLOVES KEVLAR THREAD TIG



Areas of application:

- Welding
- Utility Work

Size	Art. No.	P. Qty.
Small / 7	984.27555	6 pairs
Medium / 8	984.2755M	6 pairs
Large / 9	984.310108	1 pair
X Large / 10	984.310109	1 pair

Features

- Rugged split deerskin leather stitched with Kevlar® thread offers excellent strength and durability
- Clute cut design with straight thumb offers comfort and flexibility
- Leather thumb saddle and pulse protector for added reinforcement and protection
- Gauntlet style cuff with leather gore for additional wrist and forearm protection
- Unlined
- Glove Weight: 210 Grams

GREEN PVC GLOVES



Features:

- Double dipped PVC coating on jersey liner with sanded palm surface.
- Fully coated, including cuff.
- Gauntlet style wrist.
- Superior chemical resistance.
- 100 % fluid-proof.
- Versatile chemical resistance such as:

alcohol, oils, alkaline solutions, acids, epoxy resins, polyester resins.

- Not recommended for: aromatic substances, chlorinated hydrocarbons, solvents, organic matter, or nitro thinner.

Size	Art. No.	P. Qty.
X Large / 10	899.430	2 pairs

TIGERFLEX CUT 5/500 GLOVES



EN 388



4.5.4.3

EN 388: Mechanical risks

Test criteria	Assessment gauge
Wear resistance	0-4
Cutting resistance	0-5
Tear resistance	0-4
Penetration resistance	0-4



These gloves are ultra-lightweight, form fitting and heavy on protection. Micro foam nitrile palm coatings with additional Tiger Grip offers superior grip.

Features

- 13-Gauge blue HPPE/Glass fiber liner
- Micro Foam nitrile palm coating with additional Nitrile Tiger Grip
- Elasticated cuffs
- High oil resistance due to special nitrile coating.
- CE Certified; conform to EN420 / EN388
- CATII / EN388 Performance level: 4.5.4.3.

Benefits

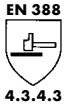
- Lightweight, form fitting 13-Gauge construction delivers superior dexterity and comfort.
- HPPE/Glass fibre blend offers the highest Cut 5 protection
- Excellent grip and protection allowing for maximum flexibility and dexterity
- Oil-repellent and water-repellent

Applications

Glass handling, sheet metal work, cutting applications, bottling and canning, building and construction work.

Size	Art. No.	P. Qty.
Small / 7	899.451357	1
Medium / 8	899.451358	
Large / 9	899.451359	
X Large / 10	899.451360	
XX Large / 11	899.451361	

TIGERFLEX CUT 3/300 GLOVES



EN 388: Mechanical risks

Test criteria	Assessment gauge
Wear resistance	0-4
Cutting resistance	0-5
Tear resistance	0-4
Penetration resistance	0-4



These gloves provide long-lasting hand protection with Tiger Grip palm coating and EN level 3 cut protection.

Features

- 13-Gauge Grey HPPE Liner
- Micro Foam nitrile palm coating with additional Nitrile Tiger Grip
- Elasticated cuffs
- High oil resistance due to special nitrile coating.
- CE Certified; conform to EN420 / EN388
- CATII / EN388 Performance level: 4.3.4.3.

Benefits

- Lightweight, form fitting 13-Gauge construction delivers superior dexterity and comfort.
- HPPE liner offers Cut 3 protection
- Excellent grip and protection allowing for maximum flexibility and dexterity
- Oil-repellent and water-repellent

Applications

Glass handling, sheet metal work, cutting applications, bottling and canning, building and construction work.

Size	Art. No.	P. Qty.
Small / 7	899.451367	1
Medium / 8	899.451368	
Large / 9	899.451369	
X Large / 10	899.451370	
XX Large / 11	899.451371	

SOFTFLEX FOAM NITRILE GLOVE



Water based PU and foam nitrile with a sandy finish for extremely good grip and dexterity.

Features:

- Skin-friendly, seamless round-knit nylon/Spandex base fabric (15 gauge)
- Water-based PU and NBR (nitrile) foam-coated palms
- Elasticated cuffs
- High oil resistance due to special nitrile coating
- CE Certified; conform to EN420 / EN388
- CATII / EN388 Performance level: 4.1.3.1.

Benefits:

- Especially suited for handling wet items
- Very comfortable to wear
- Extremely breathable
- Outstanding grip and dexterity
- Excellent wet/dry grip
- Oil-repellent and water-repellent

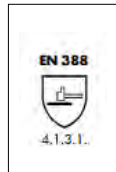
Application:

Assembly, interior construction, workshop, mechanical, car manufacturing, maintenance and bodywork tasks. Freight forwarding, transport and warehouse activities.

EN 388: Mechanical risks

Test criteria	Assessment gauge
Wear resistance	0-4
Cutting resistance	0-5
Tear resistance	0-4
Penetration resistance	0-4

Note: 0 = minimum requirement, 4 - 5 = highest level



Size	Art. No	P. Qty.
Medium / 8	899.401068	12/pk
Large / 9	899.401069	
X Large / 10	899.401070	
XX Large / 11	899.401071	

CUT 4 PU PROTECTIVE GLOVES



PU coated gloves that provide the perfect blend of cut, abrasion resistance and grip

Features & Benefits:

- 13 gauge HDPE (High Density Polyethylene Gloves)
- Durable PU coated palms
- Outstanding grip and protection allowing for maximum flexibility and dexterity
- Superior comfort, breathability and 360° cut resistance
- Knit wrist

Standards:

- **Cut Level 4 resistance**
- EN388:2016 performance level:4443D

Applications:

- Glass handling, construction, wood handling, automotive, masonry, and general maintenance/manufacturing

Sizes	Art. No.	P. Qty.
7	899.407107	12 pairs
8	899.407108	
9	899.407109	
10	899.407110	
11	899.407111	

BLACK PU PROTECTIVE GLOVES



Black polyurethane coated gloves that provide outstanding grip and abrasion resistance

Features & Benefits:

- 13 Gauge Seamless Polyester knit
- Light Polyurethane Coated Palms
- Excellent Abrasion Resistance
- Superior comfort and breathability
- Knit Wrist

Standards:

- EN388:2016 performance level: 2121X

Applications:

- Clean room environments, quality control, electronics assembly and general manufacturing

Sizes	Art. No.	P. Qty.
6	899.402406	12 pairs
7	899.402407	
8	899.402408	
9	899.402409	
10	899.402410	
11	899.402411	

RED NITRILE PROTECTIVE GLOVES



Grey nitrile palm coated glove that provides superior grip, cut and abrasion resistance

Features & Benefits:

- 13 Gauge Seamless Polyester knit shell
- Durable Nitrile Coated Palms
- Excellent Abrasion Resistance
- Superior comfort and breathability
- Knit Wrist

Standards:

- EN388:2016 performance level: 3121X

Applications:

- Fine handling in greasy or dirty environments, automotive and parts assembly, parts handling and automotive repair

Sizes	Art. No.	P. Qty.
7	899.403107	12 pairs
8	899.403108	
9	899.403109	
10	899.403110	
11	899.403111	

RED LATEX PROTECTIVE GLOVES



Black latex palm coated glove that provides superior grip, cut and abrasion resistance

Features & Benefits:

- 13 Gauge Seamless Polyester knit shell
- Tough Latex Crinkle Coated Palms
- Excellent Abrasion Resistance
- Superior comfort and breathability
- Knit Wrist

Standards:

- EN388:2016 performance level: 2121X

Applications:

- Glass handling, construction, wood handling, automotive, masonry and general maintenance/manufacturing.

Sizes	Art. No.	P. Qty.
7	899.408207	12 pairs
8	899.408208	
9	899.408209	
10	899.408210	
11	899.408211	

TIGERFLEX COOL GLOVES



EN 388
4.1.3.2

EN 388: Mechanical risks

Test criteria	Assessment gauge
Wear resistance	0-4
Cutting resistance	0-5
Tear resistance	0-4
Penetration resistance	0-4



Size	Art. No.	P. Qty.
Small / 7	899.401047	12
Medium / 8	899.401048	
Large / 9	899.401049	
X Large / 10	899.401050	
XX Large / 11	899.401051	

Foam nitrile palm coated gloves with additional Tiger Grip for extremely good grip and dexterity.

Features

- Black, skin-friendly, seamless round-knit nylon/Lycra base fabric (13 gauge)
- Foam nitrile palm coating with additional Nitrile Tiger Grip
- Brushed cotton liner
- Elasticated cuffs
- High oil resistance due to special nitrile coating.
- CE Certified; conform to EN420 / EN388
- CATII / EN388 Performance level: 4.1.3.2.

Benefits

- Very comfortable to wear.
- Excellent glove for fall season
- Extremely breathable.
- Darker color hides dirt and grime for extended wear time
- Nylon fabric is soft and form fitting while palm coating adds outstanding grip and dexterity
- Excellent wet/dry grip
- Oil-repellent and water-repellent

Applications

Assembly, interior construction, workshop, mechanical, car manufacturing, maintenance and bodywork tasks. Freight forwarding, transport and warehouse activities.

TIGERFLEX ERGO PLUS GLOVES



EN 388
4.1.2.1

EN 388: Mechanical risks

Test criteria	Assessment gauge
Wear resistance	0-4
Cutting resistance	0-5
Tear resistance	0-4
Penetration resistance	0-4



Size	Art. No.	P. Qty.
Small / 7	899.401057	12
Medium / 8	899.401058	
Large / 9	899.401059	
X Large / 10	899.401060	
XX Large / 11	899.401061	

Foam nitrile palm coated gloves with additional Tiger Grip for extremely good grip and shorter wrist for increased flexibility.

Features

- Dark grey, skin-friendly, seamless round-knit nylon/Lycra base fabric (15 gauge)
- Foam nitrile palm coating with additional Nitrile Tiger Grip
- Shorter cuff to increase flexibility around the wrist
- Elasticated cuffs
- High oil resistance due to special nitrile coating.
- CE Certified; conform to EN420 / EN388
- CATII / EN388 Performance level: 4.1.2.1.

Benefits

- Very comfortable to wear.
- Extremely breathable.
- Darker color hides dirt and grime for extended wear time
- Nylon fabric is soft and form fitting while palm coating adds outstanding grip and dexterity
- Excellent wet/dry grip
- Oil-repellent and water-repellent
- EN388 Cut Level 1

Applications

Assembly, interior construction, workshop, mechanical, car manufacturing, maintenance and bodywork tasks. Freight forwarding, transport and warehouse activities

TIGERFLEX PLUS GLOVES



Foam nitrile palm coated gloves with additional Tiger Grip for extremely good grip and dexterity.

Features

- Dark grey, skin-friendly, seamless round-knit nylon/Lycra base fabric (15 gauge)
- Foam nitrile palm coating with additional Nitrile Tiger Grip
- Elasticated cuffs
- High oil resistance due to special nitrile coating.
- CE Certified; conform to EN420 / EN388
- CATII / EN388 Performance level: 4.1.2.2.

Benefits

- Very comfortable to wear.
- Extremely breathable.
- Nylon fabric is soft and form fitting while palm coating adds outstanding grip and dexterity
- Excellent wet/dry grip
- Darker color hides dirt and grime for extended wear time
- Oil-repellent and water-repellent
- EN388 Cut Level 1

Applications

Assembly, interior construction, workshop, mechanical, car manufacturing, maintenance and bodywork tasks. Freight forwarding, transport and warehouse activities.

EN 388



4.1.2.2

EN 388: Mechanical risks

Test criteria	Assessment gauge
Wear resistance	0-4
Cutting resistance	0-5
Tear resistance	0-4
Penetration resistance	0-4



Size	Art. No.	P. Qty.
Small / 7	899.411017	12
Medium / 8	899.411018	
Large / 9	899.411019	
X Large / 10	899.411020	
XX Large / 11	899.411021	

WÜRTH ASSEMBLY GLOVE "PROTECT"



Areas of application:

- Assembling
- Transport
- Shipping
- Electronics
- Fine mechanics

Premium pig leather with red cotton back

Features:

- The soft, limber pig leather provides protection at general work with low risk
- Perfect fit
- Breathable
- Pleasant wearing comfort
- Elastic cuff with Velcro adjustment

Size	Art. No.
Medium / 8	899.400132
Large / 9	899.400133
X Large / 10	899.400134
XX Large / 11	899.400135

EN Standards/performance

EN 388

CE. Cat II/performance values 1121

DRIVER CLASSIC PROTECTIVE GLOVES



Durable, comfortable driver glove that also provides excellent resistance to oil and water.

Features & Benefits:

- Made of premium-quality grain cowhide leather
- Superior abrasion resistance
- Soft and comfortable but tough enough to withstand different applications
- Outstanding comfort and durability
- Elastic Wrists

Applications:

- Agriculture and forestry, wood, construction and road industries, metal construction work, warehousing and logistics, truck and tow drivers

Size	Art. No.	P. Qty.
9	5350.000409	6 Pairs
10	5350.000410	

RED PVC DOT PROTECTIVE GLOVES



Red PVC dotted palm gloves that provides superior grip performance.

Features & Benefits:

- 10 Gauge Polyester/Cotton knit shell
- Red PVC Dotted Coated Palms
- Excellent grip and Abrasion Resistance
- Superior comfort and breathability
- Knit Wrist

Applications:

- General maintenance, shipping and receiving, assembly and parts handling

Size	Art. No.	P. Qty.
8 (S/M)	899.405008	36 Pairs
10 (L/XL)	899.405010	

MECHANIC'S GLOVE CUT PLUS



Mechanic's style glove that offers protection for impact and cut hazards in the toughest jobs

Features & Benefits:

- Versatile mechanics style glove
- Soft, flexible TPR protects back of hand against impacts
- HDPE fibres around the palm surfaces for added cut protection
- Anti-Slip palms for enhanced grip in oily conditions
- Neoprene cuff with hook and loop closure
- EN388 CUT Level 5
- CATII / EN388 Performance level: 4.5.4.4.

- Reinforced patches on parts subject to wear and tear
- Durable triple seam in the palms
- Extremely breathable thanks to elastic polyester fabric on back

Applications:

For applications that need cut protection and abrasion resistance such as handling of sharp tools and work pieces, construction, warehousing and logistics tasks, mechanic and workshop tasks, working with hand tools and machines



EN 388: Mechanical risks

Test criteria	Assessment gauge
Wear resistance	0-4
Cutting resistance	0-5
Tear resistance	0-4
Penetration resistance	0-4



EN 388

4.5.4.4

Sizes	Art. No.	P. Qty
Medium / 8	899.401248	1
Large / 9	899.401249	
X Large / 10	899.401250	
XX Large / 11	899.401251	

MECHANIC'S GLOVE PRO



Mechanic's style glove with an integrated magnet on the back of the hand to attach small tools and fasteners

Features & Benefits:

- Versatile mechanics style glove
- Soft, flexible TPR protects back of hand against impacts
- Magnetic strip on back of hand
- Synthetic leather palms
- Padded palms to help against vibration and impacts
- Neoprene cuff with hook and loop closure
- CATII / EN388 Performance level: 2.2.3.1.
- Reinforced patches on parts

- subject to wear and tear
- Durable triple seam in the palms
- Extremely breathable thanks to elastic polyester fabric on back

Applications:

For light to medium mechanical work such as construction, warehouse and logistics work, assembly work, mechanic and workshop activities, activities with hand tools and machines



EN 388: Mechanical risks

Test criteria	Assessment gauge
Wear resistance	0-4
Cutting resistance	0-5
Tear resistance	0-4
Penetration resistance	0-4



EN 388

2.2.3.1

Sizes	Art. No.	P. Qty
Medium / 8	899.400748	1
Large / 9	899.400749	
X Large / 10	899.400750	

MULTIFIT DRY PROTECTIVE GLOVE



EN 388: Mechanical risks

Test criteria	Assessment gauge
Wear resistance	0-4
Cutting resistance	0-5
Tear resistance	0-4
Penetration resistance	0-4

EN 388



3.1.4.2



EN 407: Protection against thermal risks

Test criteria	Assessment gauge
Burning behaviour	0-4
Contact heat	0-4
Convective heat	0-3
Radiated heat	0-4
Exposure to small particles of sprayed melted metal	0-4
Exposure to large quantities of liquid metal	0-4

EN 407



X.1.X.X.X.X

Breathable, water repellent, fully coated latex grip glove

Features:

- 15 gauge Nylon/Spandex liner
- Full latex foam coating, with extra grip coating
- Reinforced safety cuff
- Seamless knit
- CATII / EN388 Performance level: 3.1.4.2
- CATII / EN407 Performance level: X.1.X.X.X.X

Benefits:

- Less perspiration in hot environments, yet warm and

dry in wet environments

- Latex coating provides outstanding grip and abrasion resistance
- Liquid-repellent and breathable
- Optimum fit and maximum touch sensitivity

Applications:

Suitable for wet working environments including aerospace, agriculture, automotive, construction, manufacturing, landscaping, logistics, rail, utilities, warehousing

Sizes	Art. No.	P. Qty
Small / 7	899.405507	6
Medium / 8	899.405508	
Large / 9	899.405509	
X Large / 10	899.405510	
XX Large / 11	899.405511	

ORIGINAL MECHANIX GLOVE



Mechanix gloves that provide the perfect blend of flexibility and protection

Features & Benefits:

- Form-fitting TrekDry® material keeps working hands cool and comfortable
- Flexible thermoplastic rubber (TPR) closure provides a secure fit to the wrist
- Industrial grade hook and loop
- Abrasion resistant synthetic leather palm construction
- Double stitched index finger and thumb construction improves durability
- Seamless synthetic leather palm provides optimal dexterity

- Touchscreen capable synthetic leather keeps you connected while you work
- 100% machine washable
- CATII / EN388 Performance level: 3.1.2.1.

Applications:

- Multi-purpose
- Automotive Work
- Maintenance & Repair
- Equipment Operation
- Construction
- Drivers

Sizes	Art. No.	P. Qty
Small / 7	899.406307	1
Medium / 8	899.406308	
Large / 9	899.406309	
X Large / 10	899.406310	
XX Large / 11	899.406311	



FASTFIT MECHANIX GLOVE



Mechanix gloves that have earned the trust of hardworking trade professionals and enthusiasts from the building site to the garage

Features & Benefits:

- Form-fitting TrekDry® material keeps working hands cool and comfortable
- Stretch-elastic cuff provides a secure fit to the wrist
- Reinforced thumb and index finger provide added durability
- Anatomically designed two-piece palm design eliminates material bunching
- Pinched fingertip construction improves fingertip stretch and durability
- High-dexterity synthetic leather provides optimal dexterity
- Touchscreen capable

synthetic leather keeps you connected while you work

- 100% machine washable
- CATII / EN388 Performance level: 2.1.2.1.

Applications:

- Automotive Work
- Maintenance & Repair
- Equipment Operation
- Construction
- Drivers

Sizes	Art. No.	P. Qty
Small / 7	899.406207	1
Medium / 8	899.406208	
Large / 9	899.406209	
X Large / 10	899.406210	
XX Large / 11	899.406211	



IMPACT MECHANIX GLOVE



Mechanix gloves that provide full coverage hand protection

Features & Benefits:

- Impact Guard protects first knuckle with EVA foam padding
- Thermoplastic rubber (TPR) knuckle guard and pinch-point finger protection
- D30® palm padding absorbs and dissipates high-impact energy through the palm
- Form-fitting TrekDry® material helps keep hands cool and comfortable
- Thermoplastic Rubber (TPR) closure with hook and loop provides a secure fit
- Armortex® palm reinforcement panel
- Dual-layer internal fingertip

reinforces the index and thumb for added durability

- Embossed and textured index finger and thumb provides grip
- Touchscreen capable synthetic leather keeps you connected while you work
- 100% machine washable
- CATII / EN388 Performance level: 3.1.2.1

Applications:

- Multi-purpose
- Automotive Work
- Maintenance & Repair
- Equipment Operation
- Construction
- Towing and Transportation

Sizes	Art. No.	P. Qty
Small / 7	899.406707	1
Medium / 8	899.406708	
Large / 9	899.406709	
X Large / 10	899.406710	
XX Large / 11	899.406711	



GENERAL PURPOSE LEATHER GLOVES



Features:

- Cowsplit leather palm
- Knuckle padded
- Stripped cotton back
- Pasted cuff, shirred elastic back

Benefits:

- Durable for daily all-purpose use
- Comfort easy fit gloves
- Better protection and grip

Areas of Application:

- Industry/Manufacturing
- Transportation
- Agriculture
- Garage workshop
- Construction

Size	Art. No.	P. Qty.
Large / 9	899.535060	12 pairs

ELECTRICAL PROTECTOR GLOVES



Class 0 Rubber Insulating Gloves

Features & Benefits:

- 11" natural latex rubber
- Black color
- Unsupported and Unlined
- Smooth finish and beaded cuff
- Meets ASTM D 120 IEC EN60903 Class 0 Low Voltage Rating - 1000V
- Should always be worn with OVER rubber insulating gloves to meet OSHA/ASTM Standards to provide mechanical protection against cuts, abrasions and punctures

Size	Art. No.	P. Qty.
Medium / 8	899.999242	1
Large / 9	899.999243	
X Large / 10	899.999244	
XX Large / 11	899.999245	

LEATHER PROTECTOR GLOVES



Leather gloves designed to protect and maintain Electrical gloves

Features & Benefits:

- 10" Goatskin glove designed for use with low voltage class 0 rubber insulating gloves
- Should always be worn with OVER rubber insulating gloves to meet OSHA/ASTM Standards to provide mechanical protection against cuts, abrasions and punctures

Size	Art. No.	P. Qty.
Medium / 8	899.M60603	1
Large / 9	899.M60604	
X Large / 10	899.M60605	
XX Large / 11	899.M60606	

HI-VIS FREEZER JACKET



Black		
Size	Art. No.	P. Qty.
S	899.0717-S	1
M	899.0717-M	
L	899.0717-L	
XL	899.0717-XL	1
2XL	899.0717-2XL	
3XL	899.0717-3XL	

* Available through On Demand

Features & Benefits:

- Woven diamond quilted polyester with 3.5 oz (120 GSM) insulation
- Double-stitched StarTech™ reflective tape
- CSA Z96-15 Class 1 Level 2
- Rib knit gusseted action back for working comfort
- Rib knit cuffs
- 2 front slash pockets
- 3 inside storage pockets: 2 lower, 1 chest cell phone
- Black micro fleece comfort collar

HI-VIS SAFETY T-SHIRT



Features & Benefits:

- Soft premium moisture-wicking polyester
- CSA Z96-15 Class 2 Level 2
- StarTech™ reflective tape
- 6990R - Reflective patch on each sleeve
- Rib crew neck
- Chest pocket with hook and loop closure
- Radiophone clip strap

ORANGE		
Size	Art. No.	P. Qty.
S	899.0790-S	1
M	899.0790-M	
L	899.0790-L	
XL	899.0790-XL	1
2XL	899.0790-2XL	
3XL	899.0790-3XL	
4XL	899.0790-4XL	
5XL	899.0790-5XL	

* Available through On Demand

YELLOW		
Size	Art. No.	P. Qty.
S	899.0791-S	1
M	899.0791-M	
L	899.0791-L	
XL	899.0791-XL	1
2XL	899.0791-2XL	
3XL	899.0791-3XL	
4XL	899.0791-4XL	
5XL	899.0791-5XL	

HI-VIS SAFETY SASH



Features & Benefits:

- Premium 2" elastic
- Adjustable elastic waist band and chest straps
- Startech™ reflective tape
- 4 point tear-away
- Quick-release waist buckle
- Packed in polybag

Size	Colour	Art. No.	P. Qty.
O/S	Orange	899.075591	1
	Yellow	899.075592	

SURVEYOR'S SAFETY VEST



Features & Benefits:

- 150 denier woven twill polyester
- CSA Z96-15 Class 2 Level 2
- StarTech™ reflective tape
- Brass snap front
- Radiophone pocket on chest
- 2 radiophone clip straps
- Cooling underarm mesh vents
- Back ruler slot
- Large back pack pouch with zipper access
- 4 front pockets with brass surveyor tape dispenser grommets
- 5 pen pockets
- 7 other all-purpose storage pockets
- D ring access slot

ORANGE		
Size	Art. No.	P. Qty.
S	899.0792-S	1
M	899.0792-M	
L	899.0792-L	
XL	899.0792-XL	
2XL	899.0792-2XL	
3XL	899.0792-3XL	1
4XL	899.0792-4XL	
5XL	899.0792-5XL	

YELLOW		
Size	Art. No.	P. Qty.
S	899.0793-S	1
M	899.0793-M	
L	899.0793-L	
XL	899.0793-XL	
2XL	899.0793-2XL	
3XL	899.0793-3XL	1
4XL	899.0793-4XL	
5XL	899.0793-5XL	

* Available through On Demand

TEAR AWAY SAFETY VEST



Features & Benefits:

- Tricot polyester interlock front
- Full mesh back panel
- Zipper front with tear-away on left side
- CSA Z96-15 Class 2 Level 2
- StarTech™ reflective tape
- 5 point tear-away
- 4 sealed pockets
- 2 radiophone clip straps
- D-ring access slot

ORANGE		
Size	Art. No.	P. Qty.
S	899.0735-S	1
M	899.0735-M	
L	899.0735-L	
XL	899.0735-XL	
2XL	899.0735-2XL	
3XL	899.0735-3XL	1
4XL	899.0735-4XL	
5XL	899.0735-5XL	

YELLOW		
Size	Art. No.	P. Qty.
S	899.0736-S	1
M	899.0736-M	
L	899.0736-L	
XL	899.0736-XL	
2XL	899.0736-2XL	
3XL	899.0736-3XL	1
4XL	899.0736-4XL	
5XL	899.0736-5XL	

* Available through On Demand

EARMUFFS



EAR DEFENDERS WITH A UNIVERSAL HEADBAND

Art. No. 899.300.280

Features:

- Headband with ventilation holes
- Wide and comfortable sealing pads
- Suitable for wearing with glasses or safety glasses
- Lightweight- only weighs 210 g!

Benefits:

- Robust design due to wire headband
- Supreme comfort
- Hygienic and easy to clean
- Great insulation, even in the low range
- Allows speech to heard while worn

Standards:

- SNR 24 dB
- H - 28 dB
 - M - 21 dB
 - L - 14 dB

EAR PLUGS X-200



Art. No. 899.300337 Qty: 200 PR/BG

Features:

- Pink Colour for easy visibility
- Imprinted X
- Soft polyurethane foam material
- Tapered fit
- Disposable

Benefits:

- Very comfortable to wear for extended periods of time
- Slow recovery foam provides excellent and reliable noise reduction
- Closed surface prevents the penetration of foreign bodies and dirt particles in the plugs
- Tapered ear plugs are easy to insert and remove

Standards:

- SNR 33 dB
- H - 33 dB
 - M - 30 dB
 - L - 29 dB

CORDED EAR PLUGS



CORDED EAR PLUGS X-100

Art. No. 899.300332 Qty: 100 PR/BX

Features:

- Soft polyurethane foam material
- Tapered fit
- Green Neon Color
- Safety cord connects earplugs
- Poly bag keeps each pair clean

Benefits:

- Very comfortable to wear for extended periods of time
- Slow recovery foam provides excellent and reliable noise reduction
- Soft, optimum adaptation to the ear canal
- Tapered ear plugs are easy to insert and remove

Standards:

- SNR 37 dB
- H - 36 dB
 - M - 34 dB
 - L - 34 dB

CORDED EAR PLUGS

Art. No. 899.300338 Qty: 3 PR/PK



Features:

- Cloth cord connects earplugs
- Pre-molded, Tri-flange design
- Comes with carrying case

Benefits:

- Efficient and easy insertion
- Very comfortable to wear
- Soft, optimum adaptation to the ear canal
- Reusable

Standards:

- SNR 27 dB
- H - 27 dB
 - M - 24 dB
 - L - 22 dB

EAR PLUG DISPENSER



Art. No. 899.300335

Features:

- Easy-to-use and robust ear plug dispenser
- Wall mountable
- Fits 400 Pairs
- Ear plugs sold separately

Benefits:

- Grid rotation system prevents multiple plugs from falling out
- Catch shelf prevents the plugs from falling to the floor

BANDED EAR PLUGS



Art. No. 899.300320

Features:

- Soft polyurethane foam material
- Arrow pod shape
- Orange color pod and band

Benefits:

- Supra-aural pods rest partially in the ear for a balance of comfort and protection
- Patented specially curved band design prevents ear pods from touching dirty or contaminated surfaces when set down
- Soft, optimum adaptation to the ear canal
- Tapered ear plugs are easy to insert and remove

Standards:

- NRR 25 dB

Recommended:

Replacement Pods: 899.300321 / Qty: 5 PR

FOLDING EAR PLUG BAND X-300



Art. No. 899.300341

Features:

- Hinged joints allow band to fold
- Designed to wear under the chin
- Oval pod shape
- Lightweight at only 8 g!

Benefits:

- Hinged joint allows folding so that it can be placed and carried practically and comfortably in any shirt or jacket pocket
- Fixing of the band prevents disturbing noises caused by friction
- Oval plugs perfectly close up the ear canal
- Tapered ear plugs are easy to insert and remove

Standards:

- SNR 23 dB
- H - 26 dB
 - M - 18 dB
 - L - 17 dB

Recommended:

Replacement Pods:
899.300340 / Qty: 5 PR

UNCORDED EAR PLUGS



EAR PLUGS – INDIVIDUALLY WRAPPED PAIRS

Art. No. 899.300900 Qty: 200 PR/BX

Features:

- Soft polyurethane foam material
- Tapered fit
- Würth red color
- Poly bag keeps each pair clean

Benefits:

- Very comfortable to wear for extended periods of time
- Slow recovery foam provides excellent and reliable noise reduction
- Soft, optimum adaptation to the ear canal
- Tapered ear plugs are easy to insert and remove

Standards:

- NRR 32 dB

ANTI-FATIGUE INSOLES



REGULAR FIT		
Size	Art. No.	P. Qty
W - 7/8/9	5362.020010	1
M - 8/9, W - 10/11	5362.020020	
M - 10/11	5362.020030	
M - 12/13	5362.020040	
M - 14/15	5362.020050	

Memory foam insoles that form to your feet to provide supreme comfort

Features:

- Memory foam technology with custom formulated foam provides excellent energy return
- Relieves pain and fatigue
- Anti-microbial
- Extreme comfort

Benefits:

- Cooler than traditional memory foam insoles
- Helps to reduce stress on feet
- Increases productivity
- **SLIM** version is for low profile footwear, such as dress shoes and/or casual footwear



SLIM FIT		
Size	Art. No.	P. Qty
W - 7/8/9	5362.020060	1
M - 8/9, W - 10/11	5362.020070	
M - 10/11	5362.020080	
M - 12/13	5362.020090	

ANTI-FATIGUE KNEELING MAT



Art. No. 899.500250

Memory foam kneeling mat to reduce fatigue in knees and lower back

Features & Benefits:

- Helps to reduce fatigue in knees and lower back
- 1" heavy duty closed-cell foam rubber
- Offers a layer of protection against hard or rough surfaces
- Soft alternative to a plastic sheet
- Non-absorbing material
- Lightweight, with built-in carrying handle
- Measures 14 x 20.5"

Applications:

Ideal for shop mechanics, technicians, flooring, gardening, landscape work, or any job that involves kneeling down frequently.

COMPLIANCE HARNESS



Art. No. 899.03202A

Features:

- Full Body Harness with durability, comfort and high visibility colour
- Certified to **CSA Z259.10**
- 3 points of adjustment ensuring a good fit (2 leg, 1 chest)
- Pass-Thru leg and chest buckles for quick donning
- Sub-pelvic strap for added safety and support
- Fall indicator for easier inspection before use
- Large dorsal D-ring for easy connection
- Meets or exceeds all applicable OSHA standards
- Polyester webbing
- Rated for 400 lb. capacity

CONTRACTOR HARNESS



Art. No. 899.03220A

Features:

- Full Body Harness with durability, comfort and high visibility colour
- Certified to **CSA Z259.10**
- Fully adjustable for a universal fit
- 5 points of adjustment ensure a good fit (2 leg, 2 torso, 1 chest)
- Pass-Thru leg and chest buckles for quick donning
- Grommeted leg straps
- Sub-pelvic strap for added safety and support
- Polyester webbing
- Fall indicator for easier inspection before use
- Large dorsal D-ring for easy connection
- Rated for 400 lb. capacity

PEAKPRO HARNESS



Art. No. 899.03210A

Features:

- Full Body Harness with durability, comfort and high visibility colour
- Certified to **CSA Z259.10**
- Two-tone colour scheme for ease of donning
- Padded shoulder, back and leg straps for all-day comfort
- Fully adjustable for a universal fit
- 5 points of adjustment ensuring a good fit (2 leg, 2 torso, 1 chest)
- Stab Lock leg and chest buckles for quick donning
- Grommeted leg straps
- Sub-pelvic strap for added safety and support
- Fall indicator for easier inspection before use
- Large dorsal D-ring for easy connection
- Polyester webbing
- Rated for 400 lb. capacity

COMPLIANCE E4 SHOCK ABSORBING LANYARD



Art. No. 899.032006

Shock Pack - Single Leg - Snap Hooks - 6' length

Features:

- SP Lanyard with durability, comfort and high visibility colour
- Certified to **CSA Z259.11-05** standards
- Made with a superior grade, heavy-duty polyester webbing for maximum strength
- A tear-away absorber limits the arrest force to a maximum of 900 lbs for the E4 category
- Rated E4 (worker weight of 100 to 254 lbs)

CONTRACTOR E4 SHOCK ABSORBING LANYARD



Art. No. 899.032026

Shock Pack - Single Leg - 1 Snap + Form 6' length

Features:

- SP Lanyard with durability, comfort and high visibility colour
- Certified to **CSA Z259.11-05** standards
- Made with a superior grade, heavy-duty polyester webbing for maximum strength
- A tear-away absorber limits the arrest force to a maximum of 900 lbs for the E4 category
- Rated E4 (worker weight of 100 to 254 lbs)

LEADING EDGE SELF RETRACTING LANYARD



Art. No. 899.032302

with 1" Webbing - Alum. Housing - Type 2 - Snap Hook - 6'

Features:

- Certified to **CSA Z259.2.1**
- Aluminum units are available using heavy-duty polyester webbing
- The anchor point incorporates a heavy-duty, durable and convenient swivel eye
- Sewn-in indicator on the lifeline itself for maximum safety
- Rated for 300 lb capacity
- Leading Edge (LE) self-retracting lifelines are designed to protect the worker when operating near an edge and where a fall hazard exists that could cause the lifeline to come into contact with the edge
- Lightweight units can be mounted on a worker's harness for better mobility and range of motion
- All LE products are clearly marked to ensure the correct SRL is used for Leading Edge applications

FIRST AID KIT – FEDERAL TYPE B



Art. No. 898.110000 Metal Case

Features:

- **For Type B workplaces with 6-19 workers**
- Unit boxes provide quick identification of contents and maintain a neater, more organized kit
- Item required but not included: First Aid Station sign (898.000990)
- Wall Mountable
- With standard bilingual "First Aid Kit" image
- Dimensions: 26 x 18.1 x 7.9 cm (10-1/4" x 7-1/8" x 3-1/8")

Areas of application:

Common federal employers include the following interprovincial and international industries:

- Banks
- Railways, highway and air transport
- Ferries, tunnels, bridges and canals
- Telephone and telegraph systems
- Pipelines
- Radio and television broadcasting
- and cable systems
- Shipping and shipping services
- Employment in the operation of ships, trains and aircraft
- Licensed grain elevators, and certain feed mills and feed warehouses, flour mills and grain seed clearing plants
- Federal public service and persons employed by the public service and Crown corporations and agencies

Description	Art. No.	Safecross P. No.	Kit Qty.	Reorder Qty.
Accident/Illness Record Book	898.000310	14237	1	1
Alcohol Antiseptic Swabs	898.000139	06450	10	1 box (100)
Compress Bandage, 10.2 x 10.2 cm	898.000095	02024	2	1
Conforming Stretch Bandage, 7.6 cm x 3.7 m	898.000540	02240	6	1
CPR Face Shield, w/One-Way Filtered Valve	898.000225	17746	1	1
Gauze Pads, 10.2 x 10.2 cm	898.000027	02221	12	1 box (25)
Gauze Sponges, 10.2 x 10.2 cm, 8-Ply	898.000690	03269	40	1 box (200)
Nitrile Medical Examination Gloves, Large	898.000045	18765	8	2
Plastic Bandages, 1.9 x 7.6 cm	898.000002	03041	48	1 box (100)
Scissors, Blunt Tip Nickel-Plated, 10.5 cm	898.000205	19161	1	1
Splinter Forceps 8.1 cm	898.000370	19159	1	1
Tape, Clear Plastic, 2.5 cm x 4.6 m	898.000030	07616	2	1
Triangular Bandage, 101.6 x 101.6 x 142.2 cm	898.000007	02019	6	1

FIRST AID KIT – FEDERAL TYPE C

Art. No. 898.120000 Metal Case



Features:

- **For Type C workplaces with 20-199 workers**
- Unit boxes provide quick identification of contents and maintain a neater, more organized kit
- Item required but not included: First Aid Station sign (898.000990)
- Wall Mountable
- With standard bilingual "First Aid Kit" image
- Dimensions: 40 x 31.4 x 11 cm (15-3/4" x 12-3/8" x 4-5/16")

Areas of application:

Common federal employers include the following interprovincial and international industries:

- Banks
- Railways, highway and air transport
- Ferries, tunnels, bridges and canals
- Telephone and telegraph systems
- Pipelines
- Radio and television broadcasting
- and cable systems
- Shipping and shipping services
- Employment in the operation of ships, trains and aircraft
- Licensed grain elevators, and certain feed mills and feed warehouses, flour mills and grain seed clearing plants
- Federal public service and persons employed by the public service and Crown corporations and agencies

Description	Art. No.	Safecross P. No.	Kit Qty.	Reorder Qty.
Abdominal/Combine Pad 12.7 x 22.9 cm	898.000330	03505	6	1
Accident/Illness Record Book	898.000310	14237	1	1
Alcohol Antiseptic Swabs	898.000139	06450	40	1 box (100)
Conforming Stretch Bandage, 7.6 cm x 3.7 m	898.000540	02240	24	1
CPR Face Shield, w/One-Way Filtered Valve	898.000225	17746	1	1
Gauze Pads, 10.2 x 10.2 cm	898.000027	02221	24	1 box (25)
Gauze Sponges, 10.2 x 10.2 cm, 8-Ply	898.000690	03269	200	1 box (200)
Infectious Waste Bags, 15.2 x 22.9 cm	898.000920	14363	2	25
Nitrile Medical Examination Gloves, Large	898.000045	18765	40	2
Plastic Bandages, 1.9 x 7.6 cm	898.000002	03041	100	1 box (100)
Scissors, Universal Paramedic, 15.9 cm	N/A	N/A	1	1
Splinter Forceps 8.1 cm	898.000370	19159	1	1
Tape, Clear Plastic, 2.5 cm x 4.6 m	898.000030	07616	4	1
Triangular Bandage, 101.6 x 101.6 x 142.2 cm	898.000007	02019	8	1

FIRST AID KIT – FEDERAL TRUCK



Art. No. 898.120020 Plastic Case

Features:

- General-purpose first aid kits designed for **transport vehicles**.
- Contains supplies to treat small and large injuries.
- Exceeds minimum standards for Occupational Health and Safety Type A Kit
- Dimensions: 26 x 18.1 x 7.9 cm (10-1/4" x 7-1/8" x 3-1/8")

Areas of application:

Common federal employers include the following interprovincial and international industries:

- Banks
- Railways, highway and air transport
- Ferries, tunnels, bridges and canals
- Telephone and telegraph systems
- Pipelines
- Radio and television broadcasting and cable systems
- Shipping and shipping services
- Employment in the operation of ships, trains and aircraft
- Licensed grain elevators, and certain feed mills and feed warehouses, flour mills and grain seed clearing plants
- Federal public service and persons employed by the public service and Crown corporations and agencies

Description	Art. No.	Safecross P. No.	Kit Qty.	Reorder Qty.
Accident/Illness Record Book, Small	898.000310	14237	1	1
Alcohol Antiseptic Swabs	898.000139	06450	10	1 box (100)
Benzalkonium Chloride Antiseptic Towelettes	898.000130	06061	6	1 box (100)
Blanket, Emergency Foil/Mylar, 142.2 x 203.2 cm	898.000380	26297	1	1
Cold Pack Instant, Small, 10.2 x 15.2 cm	898.000040	14189	1	1
Compress Bandage, 10.2 x 10.2 cm	898.000095	02024	1	1
Conforming Stretch Bandage, 7.6 cm x 3.7 m	898.000540	02240	2	1
CPR Face Shield, w/One-Way Filtered Valve	898.000225	17746	1	1
Fabric Bandages, 2.2 x 7.6 cm	898.000001	03026	6	1 box (100)
First Aid & Emergency Care Guide, English/French	898.000997	02054	1	1
First Aid Cream, 0.9 g	N/A	N/A	2	1 box (25)
Gauze Pads, 10.2 x 10.2 cm	898.000027	02221	4	1 box (25)
Gauze Sponges, 10.2 x 10.2 cm, 8-Ply	898.000690	03269	10	1 box (200)
Hand Sanitizer Antiseptic Gel foil packets, 3.7 mL	N/A	N/A	1	1 box (100)
Nitrile Medical Examination Gloves, Large	898.000045	18765	4	2
Plastic Bandages, 1.9 x 7.6 cm	898.000002	03041	12	1 box (100)
Scissors, Blunt Tip Nickel-Plated, 10.5 cm	898.000205	19161	1	1
Splinter Forceps, Blunt End, Nickel-Plated, 8.1 cm	898.000370	19159	1	1
Splinter-Out®	898.000180	19181	2	1 box (10)
Tape, Clear Plastic, 2.5 cm x 4.6 m	898.000030	07616	1	1
Triangular Bandage, 101.6 x 101.6 x 142.2 cm	898.000007	02019	2	1

FIRST AID KIT – FEDERAL WORKPLACE STANDARD



Art. No. 898.120025 Metal Case

Features:

- Comprehensive first aid kits contain supplies for treating common injuries, wounds and burns.
- Ideal for general industry and warehouses.
- Contains a full assortment of practical, single-use disposable products to treat injuries in a sanitary way.
- **Exceeds minimum standards for Occupational Health and Safety Type B Kit.**
- Wall Mountable
- With standard bilingual “First Aid Kit” image
- Dimensions: 40 x 31.4 x 11 cm (15-3/4” x 12-3/8” x 4-5/16”)

Areas of application:

Common federal employers include the following interprovincial and international industries:

- Banks
- Railways, highway and air transport
- Ferries, tunnels, bridges and canals
- Telephone and telegraph systems
- Pipelines
- Radio and television broadcasting and cable systems
- Shipping and shipping services
- Employment in the operation of ships, trains and aircraft
- Licensed grain elevators, and certain feed mills and feed warehouses, flour mills and grain seed clearing plants
- Federal public service and persons employed by the public service and Crown corporations and agencies

Description	Art. No.	Safecross P. No.	Kit Qty.	Reorder Qty.
Abdominal/Combine Pad 12.7 x 22.9 cm	898.000330	03505	1	1
Accident/Illness Record Book, Small	898.000310	14237	1	1
Alcohol Antiseptic Swabs	898.000139	06450	20	1 box (100)
Benzalkonium Chloride Antiseptic Towelettes	898.000130	06061	100	1 box (100)
Blanket, Emergency Foil/Mylar, 142.2 x 203.2 cm	898.000380	26297	1	1
Butterfly Skin Closures, Assorted	898.000016	03674	10	1 box (20)
Coban™ Self-Adherent Wrap, 5.1 cm x 4.6 m	898.000860	08302	1	1
Cold Pack, Instant, Small, 10.2 x 15.2 cm	898.000040	14189	2	1
Compress Bandage, 10.2 x 10.2 cm	898.000095	02024	2	1
Compress Bandage, Large Dressing, 11.4 x 12.7 cm	898.000550	02567	1	1
Conforming Stretch Bandage, 7.6 cm x 3.7 m	898.000540	02240	6	1
Cotton Tipped Applicators, 7.6 cm	898.000050	20145	100	1 box (100)
CPR Face Mask, w/One-Way Valve, in Plastic Case	898.000225	17746	1	1
Elastic Support/Compression Bandage, 5.1 cm x 4.6 m	898.000850	08048	1	1
Elastic Support/Compression Bandage, 7.6 cm x 4.6 m	898.000350	02026	1	1
Eye Dressing Pad	898.000760	04270	2	1 box (12)
Eye Wash, 20 mL	N/A	N/A	6	1 box (60)
Fabric Bandages, 2.2 x 7.6 cm	898.000001	03026	50	1 box (100)
Fabric Bandages, Fingertip Large, 4.4 x 7.6 cm	898.000006	03017	12	1 box (50)
Fabric Bandages, Fingertip Small, 4.4 x 5.1 cm	898.000004	03016	12	1 box (50)
Fabric Bandages, Knuckle, 3.8 x 7.6 cm	898.000005	03025	12	1 box (50)
Fabric Bandages, Large Patch, 5.1 x 7.6 cm	898.000000	03035	12	1 box (50)
First Aid & Emergency Care Guide, English/French	898.000997	0205	1	1
First Aid Cream, 0.9 g	N/A	N/A	1	1 box (25)
First Aid Kit Inspection Report Card	898.000999	14460	1	1
Gauze Pads, 10.2 x 10.2 cm	898.000027	02221	25	1 box (25)
Gauze Sponges, 10.2 x 10.2 cm, 8-Ply	898.000690	03269	40	1 box (200)
Hand Cleansing Towelettes, Antimicrobial	898.000790	06065	6	1 box (100)
Hand Sanitizer, Antiseptic Gel, 118 mL	N/A	N/A	6	1 box (100)
Hydrogen Peroxide, 250 mL	N/A	N/A	1	1
Infectious Waste Bags, 15.2 x 22.9 cm	898.000920	14363	2	25
Nitrile Medical Examination Gloves, Large	898.000045	18765	8	2
Non-Adherent Island Dressings, 5.1 x 9.5 cm	898.000670	03185	2	1 box (50)
Non-Adherent Pads, 5.1 x 7.6 cm	898.000025	03165	6	1 box (25)
Non-Adherent Pads, 7.6 x 10.2 cm	898.000650	03167	4	1 box (25)
Plastic Bandages, Assorted Sizes	898.000003	03526	100	1 box (100)
Safecross® Antiseptic Skin Cleanser, 125 mL, Spray Pump	898.000140	06104	1	1
Scissors, Blunt Tip Nickel-Plated, 10.5 cm	898.000205	19161	1	1
Scissors, Surgical Blunt/Sharp, 14 cm	898.000200	19091	1	1
2nd Skin® Moist Burn Pads, Medium, 5.1 x 7.6 cm	898.000780	05636	4	4
Splinter Forceps 8.1 cm	898.000370	19159	1	1
Splinter Forceps, Fine Point, 11.4 cm	898.000950	19156	1	1
Splinter-Out®	898.000180	19181	10	1 box (10)
Steri-Strip® Closures	898.000017	03486	3	1 box (19)
Tape, Clear Plastic, 2.5 cm x 4.6 m	898.000030	07616	2	1
Tegaderm™, Transparent Film Dressings, 6 x 7 cm	898.000020	07634	2	6
Thermometer, Oral/Axillary, Tempa-Dots®	N/A	N/A	4	1 box (100)
Tongue Depressors Senior 1.9 x 15.2 cm	898.000900	14004	4	1 box (25)
Triangular Bandage, 101.6 x 101.6 x 142.2 cm	898.000007	02019	6	1
Water-Jel® Burn Dressing, 10.2 x 10.2 cm	898.000151	06629	1	1
Water-Jel® Cool Jel, 118 mL	898.000035	06635	1	1
WoundSeal® Topical Powder	898.000060	06025	2	1 pkg (2)

FIRST AID KIT – ONTARIO WORKPLACE

SECTION 8 Art. No. 898.130000 Plastic Case



Features:

- Pursuant to Section 8; **for workplaces with 1-5 workers**
- Unit boxes provide quick identification of first aid kit contents and maintain a neater, more attractive looking kit
- Items required but not included:

- accident record book (898.000310), inspection cards (898.000999)
- With standard bilingual "First Aid Kit" image
- Dimensions: 26 x 18.1 x 7.9 cm (10-1/4" x 7-1/8" x 3-1/8")

Description	Art. No.	Safecross P. No.	Kit Qty.	Reorder Qty.
Compress Bandage, 10.2 x 10.2 cm	898.000095	02024	2	1
First Aid & Emergency Care Guide, English/French	898.000997	02054	1	1
Gauze Bandage Roll, 5.1 cm x 4.6 m	898.000021	02018	2	4
Gauze Pads, 7.6 x 7.6 cm	898.000029	03052	4	1 box (25)
Plastic Bandages, 1.9 x 7.6 cm	898.000002	03041	12	1 box (100)
Safety Pins, Assorted Sizes	898.000320	02026	12	12
Triangular Bandage, 101.6 x 101.6 x 142.2 cm	898.000007	02019	1	1

SECTION 9 Art. No. 898.130005 Plastic Case



Features:

- Pursuant to Section 9; **for workplaces with 6-15 workers**
- Unit boxes provide quick identification of contents and maintain a neater, more organized kit
- Item required but not included: First Aid Station sign (898.000990)
- Wall Mountable
- With standard bilingual "First Aid Kit" image
- Dimensions: 26 x 18.1 x 7.9 cm (10-1/4" x 7-1/8" x 3-1/8")

Description	Art. No.	Safecross P. No.	Kit Qty.	Reorder Qty.
Compress Bandage, 10.2 x 10.2 cm	898.000095	02024	4	1
First Aid & Emergency Care Guide, English/French	898.000997	02054	1	1
Gauze Bandage Roll, 10.2 cm x 4.6 m	898.000610	02520	4	2
Gauze Bandage Roll, 5.1 cm x 4.6 m	898.000021	02018	4	4
Gauze Pads, 7.6 x 7.6 cm	898.000029	03052	12	1 box (25)
Plastic Bandages, 1.9 x 7.6 cm	898.000002	03041	24	1 box (100)
Safety Pins, Assorted Sizes	898.000320	02026	12	12
Splint Padding, 10.2 x 20.3 cm	898.000440	02028	2	1
Triangular Bandage, 101.6 x 101.6 x 142.2 cm	898.000007	02019	6	1
Wire Splint Aluminum Mesh, 9.8 x 30.5 cm	898.000430	02027	1	1

SECTION 10 Art. No. 898.130015 Metal Case



Features:

- Pursuant to Section 10; **for workplaces with 16-199 workers**
- Unit boxes provide quick identification of contents and maintain a neater, more organized kit
- Item required but not included: First Aid Station sign (898.000990)
- Wall Mountable
- With standard bilingual "First Aid Kit" image
- Dimensions: 40 x 31.4 x 11 cm (15-3/4" x 12-3/8" x 4-5/16")

Description	Art. No.	Safecross P. No.	Kit Qty.	Reorder Qty.
Compress Bandage, 10.2 x 10.2 cm	898.000095	02024	6	1
Emesis Basin Plastic, 20.3 cm	898.000880	12129	1	1
First Aid & Emergency Care Guide, English/French	898.000997	02054	1	1
Gauze Bandage Roll, 10.2 cm x 4.6 m	898.000400	02022	8	2
Gauze Bandage Roll, 2.5 cm x 4.6 m	898.000470	02102	12	6
Gauze Bandage Roll, 5.1 cm x 4.6 m	898.000021	02018	8	4
Gauze Pads, 7.6 x 7.6 cm	898.000029	03052	48	1 box (25)
Plastic Bandages, 1.9 x 7.6 cm	898.000002	03041	48	1 box (100)
Safety Pins, Assorted Sizes	898.000320	02026	24	12
Splint Padding, 10.2 x 20.3 cm	898.000440	02028	2	1
Splint Set, Wood Assorted Sizes	898.000480	02103	6	6
Tape, Clear Plastic, 2.5 cm x 1.4 m	898.000030	07616	2	1
Triangular Bandage, 101.6 x 101.6 x 142.2 cm	898.000007	02019	12	1

FIRST AID KIT – ONTARIO TRUCK



Art. No. 898.130020 Plastic Case

Features:

- General-purpose first aid kit designed for **transport vehicles**
- Contains supplies to treat minor injuries
- Exceeds Ontario's Workplace Safety and Insurance Board regulations for workplaces with up to five employees per shift
- Complete with carrying handle
- Wall mountable
- Dimensions: 21.6 x 13.7 x 7.9 cm (8-1/2" x 5-3/8" x 3-1/8")

Description	Art. No.	Safecross P. No.	Kit Qty.	Reorder Qty.
Alcohol Antiseptic Swabs	898.000139	06450	4	1 box (100)
Benzalkonium Chloride Antiseptic Towelettes	898.000130	06061	6	1 box (100)
Cold Pack Instant, Small, 10.2 x 15.2 cm	898.000040	14189	1	1
Compress Bandage, 10.2 x 10.2 cm	898.000095	02024	2	1
Fabric Bandages, 2.2 x 7.6 cm	898.000001	03026	6	1 box (100)
First Aid & Emergency Care Guide, English/French	898.000997	02054	1	1
First Aid Cream, 0.9 g	N/A	N/A	1	1 box (25)
Gauze Bandage Roll, 5.1 cm x 4.6 m	898.000021	02018	2	4
Gauze Pads, 7.6 x 7.6 cm	898.000029	03052	4	1 box (25)
Hand Sanitizer Antiseptic Gel foil packets, 3.7 mL	N/A	N/A	1	1 box (100)
Nitrile Medical Examination Gloves, Large	898.000045	18765	2	2
Plastic Bandages, 1.9 x 7.6 cm	898.000002	03041	12	1 box (100)
Safety Pins, Assorted Sizes	898.000320	02026	12	12
Scissors, Blunt Tip Nickel-Plated, 10.5 cm	898.000200	19091	1	1
Splinter-Out®	898.000180	19181	2	1 box (10)
Tape, Clear Plastic, 1.9 cm x 0.9 m	898.000030	07616	1	1
Triangular Bandage, 101.6 x 101.6 x 142.2 cm	898.000007	02019	1	1

FIRST AID KIT – ONTARIO WORKPLACE STANDARD



Art. No. 898.130025 Metal Case

Features:

- Comprehensive kit contains various first aid supplies for treating common injuries, wounds and burns
- Includes personal protective devices to help reduce the transmission of communicable illnesses and diseases
- Exceeds Ontario's Workplace Safety and Insurance Board regulations for workplaces with up to fifteen employees per shift
- Complete with carrying handle
- Wall mountable
- With standard bilingual "First Aid Kit" image
- Dimensions: 36.8 x 46.5 x 16.2 cm (14-1/2" x 18-5/16" x 6-3/8")

Description	Art. No.	Safecross P. No.	Kit Qty.	Reorder Qty.
Abdominal/Combine Pad 12.7 x 22.9 cm	898.000330	03505	4	1
Accident/Illness Record Book, Small	898.000310	14237	1	1
Alcohol Antiseptic Swabs	898.000139	06450	20	1 box (100)
Benzalkonium Chloride Antiseptic Towelettes	898.000130	06061	100	1 box (100)
Blanket, Emergency Foil/Mylar, 142.2 x 203.2 cm	898.000380	26297	1	1
Butterfly Skin Closures, Assorted	898.000016	03674	10	1 box (20)
Coban™ Self-Adherent Wrap, 5.1 cm x 4.6 m	898.000860	08302	1	1
Cold Pack Instant, Small, 10.2 x 15.2 cm	898.000040	14189	2	1
Compress Bandage, 10.2 x 10.2 cm	898.000095	02024	4	1
Compress Bandage, Large Dressing, 11.4 x 12.7 cm	898.000550	02567	1	1
Conforming Stretch Bandage, 10.2 cm x 3.7 m	898.000600	02339	2	1
Conforming Stretch Bandage, 5.1 cm x 3.7 m	898.000530	02227	2	1
Cotton Tipped Applicators, 7.6 cm	898.000050	20145	100	1 box (100)
CPR Face Mask, w/One-Way Valve, in Plastic Case	898.000225	17746	1	1
Elastic Support/Compression Bandage, 5.1 cm x 4.6 m	898.000850	08048	1	1
Elastic Support/Compression Bandage, 7.6 cm x 4.6 m	898.000350	08049	1	1
Eye Dressing Kit w/1 Eye Pad & 1 Eye Shield	898.000620	02527	2	1
Eye Wash, 20 mL	N/A	N/A	6	1 box (60)
Fabric Bandages, 2.2 x 7.6 cm	898.000001	03026	50	1 box (100)
Fabric Bandages, Fingertip Large, 4.4 x 7.6 cm	898.000006	03017	12	1 box (50)
Fabric Bandages, Fingertip Small, 4.4 x 5.1 cm	898.000004	03016	12	1 box (50)
Fabric Bandages, Knuckle, 3.8 x 7.6 cm	898.000005	03025	12	1 box (50)
Fabric Bandages, Large Patch, 5.1 x 7.6 cm	898.000000	03035	12	1 box (50)
First Aid & Emergency Care Guide, English/French	898.000997	02054	1	1
First Aid Cream, 0.9 g	N/A	N/A	1	1 box (25)
First Aid Kit Inspection Report Card	898.000999	14460	1	1
Gauze Bandage Roll, 10.2 cm x 4.6 m	898.000400	02022	4	2
Gauze Bandage Roll, 5.1 cm x 4.6 m	898.000021	02018	4	4
Gauze Pads, 5.1 x 5.1 cm	898.000680	03186	4	1 box (25)
Gauze Pads, 7.6 x 7.6 cm	898.000029	03052	12	1 box (25)
Hand Cleansing Towelettes, Antimicrobial	898.000790	06065	6	1 box (100)
Hand Sanitizer, Antiseptic Gel, 118 mL	N/A	N/A	1	1
Hand Soap 7 g	N/A	N/A	1	1
Hydrogen Peroxide, 250 mL	N/A	N/A	1	1
Infectious Waste Bags, 15.2 x 22.9 cm	898.000920	14363	2	25
Nitrile Medical Examination Gloves, Large	898.000045	18765	12	2
Non-Adherent Island Dressings, 5.1 x 9.5 cm,	898.000670	03185	2	1 box (50)
Non-Adherent Pads, 5.1 x 7.6 cm	898.000025	03165	6	1 box (25)
Non-Adherent Pads, 7.6 x 10.2 cm	898.000650	03167	4	1 box (25)
Plastic Bandages, Assorted Sizes	898.000003	03526	100	1 box (100)
Safecross® Antiseptic Skin Cleanser, 125 mL, Spray Pump	898.000140	06104	1	1
Safety Pins, Assorted Sizes	898.000320	02026	12	12
Scissors, Bandage, 14 cm	898.000205	19161	1	1
2nd Skin® Moist Burn Pads, Medium, 5.1 x 7.6 cm	898.000780	05636	4	4
Splinter Forcep, Fine Point, 11.4 cm	898.000950	19156	1	1
Splinter-Out®	898.000180	19181	10	1 box (10)
Steri-Strip® Closures	898.000017	03486	3	1 box (19)
Tape, Clear Plastic, 2.5 cm x 4.6 m	898.000030	07616	2	1
Tegaderm™, Transparent Film Dressings, 6 x 7 cm	898.000020	07634	2	6
Thermometer, Oral/Axillary, Tempa-Dots®	N/A	N/A	4	1 box (100)
Tongue Depressors Senior 1.9 x 15.2 cm	898.000900	14004	4	1 box (25)
Triangular Bandage, 101.6 x 101.6 x 142.2 cm	898.000007	02019	4	1
Water-Jel® Burn Dressing, 10.2 x 10.2 cm	898.000151	06629	1	1
Water-Jel® CoolJel, 118 mL	898.000035	06635	1	1
WoundSeal® Topical Powder - Intro Pack	898.000060	06025	2	1 pkg (2)

FIRST AID KIT – QUEBEC SECTION 5

Art. No. 898.140000 Plastic Case



Features:

- Unit boxes provide quick identification of first aid kit contents and maintain a neater, more attractive looking kit
- Pursuant to **Section 5**; for vehicles used by, and for, the transport of workers
- Wall Mountable
- With standard bilingual “First Aid Kit” image;
- Dimensions: 26 x 18.1 x 7.9 cm (10-1/4” x 7-1/8” x 3-1/8”)

Description	Art. No.	Safecross P. No.	Kit Qty.	Reorder Qty.
Alcohol Antiseptic Swabs	898.000139	06450	5	1 box (100)
Compress Bandage, 10.2 x 10.2 cm	898.000095	02024	2	1
First Aid & Emergency Care Guide, English/French	898.000997	02054	1	1
Gauze Bandage Roll, 10.2 cm x 9.1 m	898.000510	02152	1	1
Gauze Bandage Roll, 5.1 cm x 9.1 m	898.000500	02150	1	1
Gauze Pads, 10.2 x 10.2 cm	898.000027	02221	5	1 box (25)
Plastic Bandages, 2.5 x 7.6 cm	898.000008	03040	5	1 box (100)
Safety Pins, Assorted Sizes	898.000320	02026	12	12
Scissors, Blunt Tip Nickel-Plated, 10.5 cm	898.000200	19091	1	1
Tape, Clear Plastic, 2.5 cm x 9.1 m	898.000030	07616	1	1
Triangular Bandage, 101.6 x 101.6 x 142.2 cm	898.000007	02019	2	1

FIRST AID KIT – QUEBEC SECTION 4

Art. No. 898.140005 Plastic Case

Art. No. 898.140010 Metal Case



Features:

- Unit boxes provide quick identification of first aid kit contents and maintain a neater, more attractive looking kit
- Pursuant to **Section 4**; for workplaces, construction sites, vehicles which can carry more than 5 workers and where workers are more than 30 minutes from medical services
- Wall Mountable
- With standard bilingual “First Aid Kit” image
- Dimensions: 36.2 x 24.8 x 7.9 cm (14-1/4” x 9-3/4” x 3-1/8”)

Description	Art. No.	Safecross P. No.	Kit Qty.	Reorder Qty.
Alcohol Antiseptic Swabs	898.000139	06450	25	1 box (100)
Compress Bandage, 10.2 x 10.2 cm	898.000095	02024	4	1
First Aid & Emergency Care Guide, English/French	898.000997	02054	1	1
Gauze Bandage Roll, 10.2 cm x 9.1 m	898.000510	02152	4	1
Gauze Bandage Roll, 5.1 cm x 9.1 m	898.000500	02150	4	1
Gauze Pads, 10.2 x 10.2 cm	898.000027	02221	25	1 box (25)
Plastic Bandages, 2.5 x 7.6 cm	898.000008	03040	25	1 box (100)
Safety Pins, Assorted Sizes	898.000320	02026	12	12
Scissors, Blunt Tip Nickel-Plated, 10.5 cm	898.000200	19091	1	1
Splinter Forceps, Blunt End, Nickel-Plated, 8.1 cm	898.000370	19159	1	1
Tape, Clear Plastic, 2.5 cm x 9.1 m	898.000030	07616	1	1
Triangular Bandage, 101.6 x 101.6 x 142.2 cm	898.000007	02019	6	1

FIRST AID KIT – QUEBEC TRUCK



Art. No. 898.140020 Plastic Case

Features:

- General-purpose first aid kits designed for **transport vehicles**.
- Contains supplies to treat small and large injuries.
- Exceeds minimum standards for Occupational Health and Safety Section 5 Kit.
- Complete with carrying handle
- Dimensions: 21.6 x 13.7 x 7.9 cm (8-1/2" x 5-3/8" x 3-1/8")

Description	Art. No.	Safecross P. No.	Kit Qty.	Reorder Qty.
Alcohol Antiseptic Swabs	898.000139	06450	5	1 box (100)
Benzalkonium Chloride Antiseptic Towelettes	898.000130	06061	6	1 box (100)
Cold Pack Instant, Small, 10.2 x 15.2 cm	898.000040	14189	1	1
Compress Bandage, 10.2 x 10.2 cm	898.000095	02024	2	1
Fabric Bandages, 2.2 x 7.6 cm	898.000001	03026	6	1 box (100)
First Aid & Emergency Care Guide, English/French	898.000997	02054	1	1
First Aid Cream, 0.9 g	N/A	N/A	1	1 box (25)
Gauze Bandage Roll, 10.2 cm x 9.1 m	898.000510	02152	1	1
Gauze Bandage Roll, 5.1 cm x 9.1 m	898.000500	02150	1	1
Gauze Pads, 10.2 x 10.2 cm	898.000027	02221	5	1 box (25)
Hand Sanitizer Antiseptic Gel foil packets, 3.7 mL	N/A	N/A	1	1 box (100)
Nitrile Medical Examination Gloves, Large	898.000045	18765	2	2
Plastic Bandages, 2.5 x 7.6 cm	898.000008	03040	5	1 box (100)
Safety Pins, Assorted Sizes	898.000320	02026	12	12
Scissors, Blunt Tip Nickel-Plated, 10.5 cm	898.000200	19091	1	1
Splinter-Out®	898.000180	19181	2	1 box (10)
Tape, Clear Plastic, 2.5 cm x 9.1 m	898.000030	07616	1	1
Triangular Bandage, 101.6 x 101.6 x 142.2 cm	898.000007	02019	1	1

FIRST AID KIT – QUEBEC WORKPLACE STANDARD



Art. No. 898.140025 Metal Case

Features:

- Comprehensive first aid kits contain supplies for treating common injuries, wounds and burns.
- Ideal for general industry and warehouses.
- Contains a full assortment of practical, single-use disposable products to treat injuries in a sanitary way.
- **Exceeds minimum standards for Occupational Health and Safety Section 4 Kit**
- Wall mountable
- With standard bilingual "First Aid Kit" image
- Dimensions: 36.8 x 46.5 x 16.2 cm (14-1/2" x 18-5/16" x 6-3/8")

Description	Art. No.	Safecross P. No.	Kit Qty.	Reorder Qty.
Abdominal/Combine Pad 12.7 x 22.9 cm	898.000330	03505	1	1
Alcohol Antiseptic Swabs	898.000139	06450	25	1 box (100)
Benzalkonium Chloride Antiseptic Towelettes	898.000130	06061	100	1 box (100)
Blanket, Emergency Foil/Mylar, 142.2 x 203.2 cm	898.000380	26297	1	1
Butterfly Skin Closures, Assorted	898.000016	03674	10	1 box (20)
Coban™ Self-Adherent Wrap, 5.1 cm x 4.6 m	898.000590	02333	1	1
Cold Pack Instant, Small, 10.2 x 15.2 cm	898.000040	14189	2	1
Compress Bandage, 10.2 x 10.2 cm	898.000095	02024	4	1
Compress Bandage, Large Dressing, 11.4 x 12.7 cm	898.000550	02567	1	1
Conforming Stretch Bandage, 10.2 cm x 3.7 m	898.000600	02339	2	1
Conforming Stretch Bandage, 5.1 cm x 3.7 m	898.000530	02227	2	1
Cotton Tipped Applicators, 7.6 cm	898.000050	20145	100	1 box (100)
CPR Face Mask, W/One-Way Valve, in Plastic Case	898.000225	17746	1	1
Elastic Support/Compression Bandage, 5.1 cm x 4.6 m	898.000850	08048	1	1
Elastic Support/Compression Bandage, 7.6 cm x 4.6 m	898.000350	08049	1	1
Eye Dressing Pad	898.000760	04270	2	1 box (12)
Eye Wash, 20 ml	N/A	N/A	6	1 box (60)
Fabric Bandages, 2.2 x 7.6 cm	898.000001	03026	50	1 box (100)
Fabric Bandages, Fingertip Large, 4.4 x 7.6 cm	898.000006	03017	12	1 box (50)
Fabric Bandages, Fingertip Small, 4.4 x 5.1 cm	898.000004	03016	12	1 box (50)
Fabric Bandages, Knuckle, 3.8 x 7.6 cm	898.000005	03025	12	1 box (50)
Fabric Bandages, Large Patch, 5.1 x 7.6 cm	898.000000	03035	12	1 box (50)
First Aid & Emergency Care Guide, English/French	898.000997	02054	1	1
First Aid Cream, 0.9 g	N/A	N/A	1	1 box (25)
First Aid Kit Inspection Report Card	898.000999	14460	1	1
Gauze Bandage Roll, 10.2 cm x 9.1 m	898.000510	02152	4	1
Gauze Bandage Roll, 5.1 cm x 9.1 m	898.000500	02150	4	1
Gauze Pads, 10.2 x 10.2 cm	898.000027	02221	25	1 box (25)
Hand Cleansing Towelettes, Antimicrobial	898.000790	06065	6	1 box (100)
Hand Sanitizer, Antiseptic Gel, 118 ml	N/A	N/A	1	1
Hydrogen Peroxide, 250 ml	N/A	N/A	1	1
Infectious Waste Bags, 15.2 x 22.9 cm	898.000360	14359	2	25
Nitrile Medical Examination Gloves, Large	898.000045	18765	8	2
Non-Adherent Island Dressings, 5.1 x 9.5 cm	898.000670	03185	2	1 box (50)
Non-Adherent Pads, 5.1 x 7.6 cm	898.000025	03165	6	1 box (25)
Non-Adherent Pads, 7.6 x 10.2 cm	898.000650	03167	4	1 box (25)
Plastic Bandages, Assorted Sizes	898.000003	03526	100	1 box (100)
Safecross® Antiseptic Skin Cleanser, 125 ml, Spray Pump	898.000140	06104	1	1
Safety Pins, Assorted Sizes	898.000320	02026	12	12
Scissors, Surgical Blunt/Sharp, 14 cm	898.000200	19091	1	1
2nd Skin® Moist Burn Pads, Medium, 5.1 x 7.6 cm	898.000780	05636	4	4
Splinter Forceps, Fine Point, 11.4 cm	898.000950	19156	1	1
Splinter-Out®	898.000180	19181	10	1 box (10)
Steri-Strip® Closures	898.000017	03486	3	1 box (19)
Tape, Clear Plastic, 2.5 cm x 9.1 m	898.000030	07616	1	1
Tegaderm™, Transparent Film Dressings, 6 x 7 cm	898.000020	07634	2	6
Thermometer, Oral/Axillary, Tempa-Dots®	N/A	N/A	4	1 box (100)
Tongue Depressors Senior 1.9 x 15.2 cm	898.000900	14004	4	1 box (25)
Triangular Bandage, 101.6 x 101.6 x 142.2 cm	898.000007	02019	6	1
Water-Jel® Burn Dressing, 10.2 x 10.2 cm	898.000151	06629	1	1
Water-Jel® Cool Jel, 118 ml	898.000035	06635	1	1
WoundSeal® Topical Powder - Intro Pack	898.000060	06025	2	1 pkg (2)

FIRST AID KIT – MANITOBA WORKPLACE STANDARD



Art. No. 898.180025 Metal Case

Features:

- Comprehensive first aid kits contain supplies for treating common injuries, wounds and burns.
- Ideal for general industry and warehouses.
- Contains a full assortment of practical, single-use disposable products to treat injuries in a sanitary way.
- Wall mountable
- **Exceeds minimum standards for Occupational Health and Safety 25 Workers Kit.**
- Dimensions: 38.7 x 41.9 x 14.3 cm (15-1/4" x 16-1/2" x 5-5/8")

Description	Art. No.	Safecross P. No.	Kit Qty.	Reorder Qty.
Abdominal/Combine Pad, 12.7 x 22.9 cm	898.000330	03505	1	1
Alcohol Antiseptic Swabs	898.000139	06450	1	1 box (100)
Benzalkonium Chloride Antiseptic Towelettes, 100'S	898.000130	06061	6	1 box (100)
Blanket, Emergency, Foil/Mylar, 142.2 x 203.2 cm	898.000380	26297	1	1
Butterfly Skin Closures, Large, 1.3 x 7 cm	898.000016	03674	5	1
Butterfly Skin Closures, Medium, 1 x 4.6 cm	898.000016	03674	5	1
Coban, Self-Adherent Wrap, 5.1 cm x 4.6 m	898.000860	08302	4	1
Cold Pack, Instant, Small, 10.2 x 15.2 cm	898.000040	14189	2	1
Compress Bandage, 10.2 x 10.2 cm	898.000095	02024	2	1
Compress Bandage, Large, 11.4 x 12.7 cm	898.000550	02567	1	1
Conforming Stretch Bandage, 10.2 cm x 3.7 m	898.000590	02333	2	1
Conforming Stretch Bandage, 5.1 cm x 3.7 m	898.000560	02331	2	1
Cotton Tipped Applicators, 7.6 cm, Single-End, 100'S	898.000050	20145	1	1 box (100)
CPR Face Mask, W/One-Way Valve, In Case	898.000225	17746	1	1
Elastic Support/Compression Bandage, 7.6 cm x 4.6 m	898.000350	08049	1	1
Eye Dressing Pads	898.000770	04273	2	1
Eye Wash, 20 mL	N/A	N/A	6	1
Fabric Bandages, 2.2 x 7.6 cm, 50's	898.000001	03026	1	1 box (100)
Fabric Bandages, Fingertip Large, 4.4 x 7.6 cm	898.000006	03017	12	1
Fabric Bandages, Fingertip Small, 4.4 x 5.1 cm	898.000004	03016	12	1
Fabric Bandages, Knuckle, 3.8 x 7.6 cm	898.000005	03025	12	1
Fabric Bandages, Large Patch, 5.1 x 7.6 cm	898.000000	03035	12	1
Fabric Dressing Strip, 7.6 cm x 0.9 m	N/A	N/A	1	1
First Aid & Emergency Care Guide	898.000997	02054	1	1
First Aid Cream, 0.9 g, 25's	N/A	N/A	1	1 box (25)
First Aid Kit Inspection Report Card	898.000999	14460	1	1
Gauze Pads, 7.6 x 7.6 cm	898.000029	03052	25	1 box (25)
Hand Cleansing Towelettes, Antimicrobial	898.000790	06065	25	1 box (100)
Hand Sanitizer, Antiseptic Gel, 118 mL	N/A	N/A	1	1
Hydrogen Peroxide, 250 mL	N/A	N/A	1	1
Infectious Waste Bags, 15.2 x 22.9 cm	898.000920	14363	1	25
Nitrile, Medical Examination Gloves, 2'S	898.000045	18765	1	2
Plastic Bandages, 1 x 3.8 cm, Junior	898.000002	03041	20	1 box
Plastic Bandages, 1.9 x 7.6 cm	898.000002	03041	40	1
Plastic Bandages, 2.2 cm Circles	898.000710	03278	10	1
Plastic Bandages, 2.5 x 7.6 cm	898.000008	03040	30	1 box (100)
Safecross, Antiseptic Skin Cleanser, 125 mL	898.000140	06104	1	1
Safety Pins, Assorted Sizes, 12's	898.000320	02026	1	1 bag (12)
Scissors, Bandage, 14 cm	898.000205	19161	1	1
Second Skin, Moist Burn Pads, Medium, 5.1 x 7.6 cm, 4's	898.000780	05636	1	1
Splinter Forceps, Fine Point, 11.4 cm	898.000950	19156	1	1
Splinter-Out	898.000180	19181	1	1
Steri-Strip, Skin Closures, 6 mm x 7.6 cm, 3's	898.000017	03486	1	1
Tape, Clear Plastic, 2.5 cm x 4.6 m	898.000030	07616	2	1
Tegaderm, Transparent Film Dressings, 6 x 7 cm	898.000020	07634	2	1
Telfa, Non-Adherent Island Dressings, 5.1 x 9.5 cm	898.000670	03185	2	1
Telfa, Non-Adherent Pads, 7.6 x 10.2 cm	898.000025	03165	6	1
Thermometer, Oral/Axillary	898.000660	03184	4	1 box (25)
Tongue Depressors, Senior, 1.9 x 15.2 cm	N/A	N/A	1	1
Triangular Bandage, 101.6 x 101.6 x 142.2 cm	898.000890	14003	2	1
Water-Jel, Burn Dressing, 10.2 X 10.2 cm	898.000007	02019	3	1
Water-Jel, Cool Jel, 118 mL	898.000150	06630	1	1
Woundseal Topical Powder	898.000170	06643	2	1
Woundseal Topical Powder with 2 Applicators	898.000060	06025	1	1

FIRST AID KIT – MANITOBA TRUCK

Art. No. 898.180020 Plastic Case



Features:

- General-purpose first aid kits designed for **transport vehicles**
- Contains supplies to treat small and large injuries
- Exceeds minimum standards for Occupational Health and Safety Personal Kit
- Dimensions: 21.6 x 13.7 x 7.9 cm (8-1/2" x 5-3/8" x 3-1/8")

Description	Art. No.	Safecross P. No.	Kit Qty.	Reorder Qty.
Alcohol Antiseptic Swabs	898.000139	06450	4	1 box (100)
Benzalkonium Chloride Antiseptic Towelettes	898.000130	06061	6	1 box (100)
Cold Pack, Instant, Small, 10.2 x 15.2 cm	898.000040	14189	1	1
Compress Bandage, 10.2 x 10.2 cm	898.000095	02024	1	1
Fabric Bandages, 2.2 x 7.6 cm	898.000001	03026	6	1 box (100)
First Aid & Emergency Care Guide	898.000997	02054	1	1
First Aid Cream, 0.9 g	N/A	N/A	2	1 box (25)
Gauze Bandage Roll, 5.1 cm x 4.6 m	898.000021	02018	2	1
Gauze Pads, 10.2 x 10.2 cm	898.000027	02221	5	1
Hand Sanitizer, Antiseptic Gel foil packets, 3.7 ml	N/A	N/A	1	1 box (100)
Infectious Waste Bags, 15.2 x 22.9 cm	898.000920	14363	1	25
Nitrile, Medical Examination Gloves, 2's	898.000045	18765	1	2
Plastic Bandages, 2.5 x 7.6 cm	898.000008	03040	12	1 box (100)
Scissors, Blunt Tip, Nickel-Plated, 10.5 cm	898.000200	19091	1	1
Splinter-Out, 2's	898.000180	19181	1	1
Tape, Clear Plastic, 2.5 cm x 1.4 m	898.000030	07616	1	1 box (100)
Triangular Bandage, 101.6 x 101.6 x 142.2 cm	898.000007	02019	1	1
Woundseal Topical Powder with 2 Applicators	898.000060	06025	1	1

FIRST AID KIT – SASKATCHEWAN WORKPLACE



Art. No. 898.150000 Plastic Case

Features:

- For workplaces with 1-9 workers
- With standard bilingual "First Aid Kit" image
- Wall-mountable
- Dimensions: 25.1 x 25.1 x 7.9 cm (9-7/8" x 9-7/8" x 3-1/8")

Description	Art. No.	Safecross P. No.	Kit Qty.	Reorder Qty.
Abdominal/Combine Pad 12.7 x 22.9 cm	898.000330	03505	2	1
Accident/Illness Record Book, Small	898.000310	14237	1	1
Alcohol Antiseptic Swabs	898.000139	06575	10	1 box (100)
Compress Bandage, 10.2 x 10.2 cm	898.000095	02024	2	1
Conforming Stretch Bandage, 10.2 cm x 3.7 m	898.000600	02339	1	1
Conforming Stretch Bandage, 5.1 cm x 3.7 m	898.000530	02227	1	1
CPR Face Mask, W/One-Way Valve, in Plastic Case	898.000225	11746	1	1
Eye Dressing Kit W/1 Eye Pad & 1 Eye Shield	898.000620	02527	1	1
First Aid & Emergency Care Guide, English/French	898.000997	02054	1	1
Gauze Bandage Roll, 10.2 cm x 4.6 m	898.000400	02022	2	2
Gauze Bandage Roll, 5.1 cm x 4.6 m	898.000021	02047	2	4
Gauze Pads, 5.1 x 5.1 cm	898.000680	03763	2	1 box (25)
Gauze Pads, 7.6 x 7.6 cm	898.000029	03761	2	1 box (25)
Hand Soap 7 g	N/A	N/A	1	1
Nitrile Medical Examination Gloves, Large	898.000045	18765	12	2
Plastic Bandages, 1.9 x 7.6 cm	898.000002	02101	12	1 box (100)
Safety Pins, Assorted Sizes	898.000320	02025	4	12
Scissors, Bandage, 14 cm	898.000205	19161	1	1
Splinter Forceps, Blunt End, Nickel-Plated, 8.1 cm	898.000370	19159	1	1
Tape, Clear Plastic, 1.9 cm x 0.9 m	898.000030	07625	1	1
Triangular Bandage, 101.6 x 101.6 x 142.2 cm	898.000007	02030	2	1

FIRST AID KIT – SASKATCHEWAN WORKPLACE STANDARD



Art. No. 898.150015 Metal Case

Features:

- For workplaces with 40+ workers
- Unit boxes provide quick identification of first aid kit contents and maintain a neater, more attractive looking kit
- Wall mountable
- With standard bilingual "First Aid Kit" image;
- Dimensions: 40 x 31.4 x 11 cm (15-3/4" x 12-3/8" x 4-5/16")

Description	Art. No.	Safecross P. No.	Kit Qty.	Reorder Qty.
Abdominal/Combine Pad 12.7 x 22.9 cm	898.000330	03505	6	1
Accident/Illness Record Book, Small	898.000310	14237	1	1
Alcohol Antiseptic Swabs	898.000139	06575	30	1 box (100)
Compress Bandage, 10.2 x 10.2 cm	898.000095	02024	6	1
Conforming Stretch Bandage, 10.2 cm x 3.7 m	898.000600	02339	3	1
Conforming Stretch Bandage, 5.1 cm x 3.7 m	898.000530	02227	3	1
CPR Face Mask, W/One-Way Valve, in Plastic Case	898.000225	11746	1	1
Eye Dressing Kit W/1 Eye Pad & 1 Eye Shield	898.000620	02527	3	1
First Aid & Emergency Care Guide, English/French	898.000997	02054	1	1
Gauze Bandage Roll, 10.2 cm x 4.6 m	898.000400	02022	6	2
Gauze Bandage Roll, 5.1 cm x 4.6 m	898.000021	02047	6	4
Gauze Pads, 5.1 x 5.1 cm	898.000680	03763	6	1 box (25)
Gauze Pads, 7.6 x 7.6 cm	898.000029	03761	6	1 box (25)
Hand Soap 7 g	N/A	N/A	1	1
Nitrile Medical Examination Gloves, Large	898.000045	18765	12	2
Plastic Bandages, 1.9 x 7.6 cm	898.000002	02101	36	1 box (100)
Safety Pins, Assorted Sizes	898.000320	02025	12	12
Scissors, Bandage, 14 cm	898.000205	19161	1	1
Splinter Forceps, Blunt End, Nickel-Plated, 8.1 cm	898.000370	19159	1	1
Tape, Clear Plastic, 1.9 cm x 0.9 m	898.000030	07625	3	1
Triangular Bandage, 101.6 x 101.6 x 142.2 cm	898.000007	02030	6	1

FIRST AID KIT – SASKATCHEWAN TRUCK



Art. No. 898.150020 Plastic Case

Features:

- General-purpose first aid kits designed for **transport vehicles**.
- Contains supplies to treat small and large injuries.
- Exceeds minimum standards for Occupational Health and Safety Type P Kit.
- Dimensions: 21.6 x 13.7 x 7.9 cm (8-1/2" x 5-3/8" x 3-1/8")

Description	Art. No.	Safecross P. No.	Kit Qty.	Reorder Qty.
Alcohol Antiseptic Swabs	898.000139	06575	4	1 box (100)
Benzalkonium Chloride Antiseptic Towelettes	898.000130	02619	6	1 box (100)
Cold Pack Instant, Small, 10.2 x 15.2 cm	898.000040	14189	1	1
Compress Bandage, 10.2 x 10.2 cm	898.000095	02024	2	1
Conforming Stretch Bandage, 5.1 cm x 1.8 m	898.000560	02331	1	1
Fabric Bandages, 2.2 x 7.6 cm	898.000001	02331	6	1 box (100)
First Aid & Emergency Care Guide, English/French	898.000997	02054	1	1
First Aid Cream, 0.9 g	N/A	N/A	2	1 box (25)
Gauze Bandage Roll, 5.1 cm x 4.6 m	898.000021	02047	2	4
Gauze Pads, 7.6 x 7.6 cm	898.000029	03761	4	1 box (25)
Hand Sanitizer Antiseptic Gel foil packets, 3.7 mL	N/A	N/A	1	1 box (100)
Nitrile Medical Examination Gloves, Large	898.000045	18765	2	2
Plastic Bandages, 1.9 x 7.6 cm	898.000002	02101	12	1 box (100)
Safety Pins, Assorted Sizes	898.000320	02026	12	12
Scissors, Blunt Tip Nickel-Plated, 10.5 cm	898.000200	19118	1	1
Splinter-Out®	898.000180	19180	2	1 box (10)
Tape, Clear Plastic, 1.9 cm x 0.9 m	898.000030	07625	1	1
Triangular Bandage, 101.6 x 101.6 x 142.2 cm	898.000007	02019	1	1

FIRST AID KIT – PEI NO. 2



Art. No. 898.160005 Plastic Case

Features:

- **No. 2 kit for workplaces with 2-19 workers**
- Unit boxes provide quick identification of first aid kit contents and maintain a neater, more attractive looking kit
- Items required but not included: First Aid Station sign (898.000990)
- With standard bilingual "First Aid Kit" image;
- Dimensions: 26 x 18.1 x 7.9 cm (10-1/4" x 7-1/8" x 3-1/8")

Description	Art. No.	Safecross P. No.	Kit Qty.	Reorder Qty.
Benzalkonium Chloride Antiseptic Towelettes	898.000130	06061	12	1 box (100)
Compress Bandage, 10.2 x 10.2 cm	898.000095	02024	2	1
CPR Face Shield, W/One-Way Filtered Valve	898.000225	17746	1	1
First Aid & Emergency Care Guide	898.000997	02054	1	1
Gauze Bandage Roll, 5.1 Cm x 4.6 m	898.000021	02018	2	4
Gauze Pads, 7.6 x 7.6 cm	898.000029	03052	16	1 box (25)
Hand Cleansing Moist Towelettes	898.000340	06062	24	1 box (100)
Nitrile, Medical Examination Gloves, 2's	898.000045	18765	2	2
Plastic Bandages, 2.5 x 7.6 cm	898.000008	03040	24	1 box (100)
Safety Pins, Assorted Sizes, 12's	898.000320	02026	1	1 bag (12)
Scissors, Blunt Tip, Nickel-Plated, 10.5 cm	898.000200	19091	1	1
Splinter Forceps, Blunt End, Nickel-Plated, 8.1 cm	898.000370	19159	1	1
Tape, 2.5 cm x 2.3 m	898.000030	07616	1	1
Triangular Bandage, 101.6 x 101.6 x 142.2 cm	898.000007	02019	6	1

FIRST AID KIT – PEI TRUCK



Art. No. **898.160020** Plastic Case

Features:

- General-purpose first aid kit designed for **transport vehicles**
- Contains supplies to treat minor injuries
- Exceeds minimum standards for Occupational Health and Safety No. 1 Kit
- Complete with carrying handle
- Dimensions: 21.6 x 13.7 x 7.9 cm (8-1/2" x 5-3/8" x 3-1/8")

Description	Art. No.	Safecross P. No.	Kit Qty.	Reorder Qty.
Alcohol Antiseptic Swabs	898.000139	06450	4	1 box (100)
Benzalkonium Chloride Antiseptic Towelettes	898.000130	06061	12	1 box (100)
Cold Pack, Instant, Small, 10.2 x 15.2 cm	898.000040	14189	1	1
Compress Bandage, 10.2 x 10.2 cm	898.000095	02024	2	1
CPR Face Shield, W/One-Way Filtered Valve	898.000225	17746	1	1
Fabric Bandages, 2.2 x 7.6 cm	898.000001	03026	6	1 box (100)
First Aid & Emergency Care Guide	898.000997	02054	1	1
First Aid Cream, 0.9 g	N/A	N/A	2	1 box (25)
Gauze Bandage Roll, 5.1 cm x 4.6 m	898.000500	02150	1	1
Gauze Pads, 7.6 x 7.6 cm	898.000029	03052	12	4
Hand Cleansing Moist Towelettes	898.000340	06062	6	1 box (100)
Hand Sanitizer, Antiseptic Gel foil pockets, 3.7 mL	N/A	N/A	1	1 box (100)
Nitrile, Medical Examination Gloves, 2's	898.000045	18765	2	2
Plastic Bandages, 2.5 x 7.6 cm	898.000008	03040	12	1 box (100)
Safety Pins, Assorted Sizes, 6'Ss	898.000420	02025	1	1
Scissors, Blunt Tip, Nickel-Plated, 10.5 cm	898.000940	19118	1	1
Splinter Forceps, Blunt End, Nickel-Plated, 8.1 cm	898.000370	19159	1	1
Splinter-Out, 2's	898.000180	19181	1	1
Tape, 2.5 cm x 2.3 m	898.000030	07616	1	1
Triangular Bandage, 101.6 x 101.6 x 142.2 cm	898.000007	02019	3	1

FIRST AID KIT – NFLD & LABRADOR #2



Art. No. **898.210005** Plastic Case

Features:

- **No. 2 kit for workplaces with 2-14 workers**
- Unit boxes provide quick identification of first aid kit contents and maintain a neater, more attractive looking kit
- Items required but not included: First Aid Station sign (898.000990)
- Wall Mountable
- With standard bilingual "First Aid Kit" image;
- Dimensions: 26 x 18.1 x 7.9 cm (10-1/4" x 7-1/8" x 3-1/8")

Description	Art. No.	Safecross P. No.	Kit Qty.	Reorder Qty.
Accident/Illness Record Book	898.000310	14237	1	1
Compress Bandage, 10.2 x 10.2 cm	898.000095	02024	2	1
First Aid & Emergency Care Guide	898.000997	02054	1	1
Gauze Pads, 7.6 x 7.6 cm	898.000029	03052	16	1 box (25)
Hydrogen Peroxide, 100 mL	N/A	N/A	1	1
Plastic Bandages, 2.5 x 7.6 cm	898.000008	03040	16	1 box (100)
Safety Pins, Assorted Sizes, 12's	898.000320	02026	1	1 bag (12)
Scissors, Blunt Tip, Nickel-Plated, 10.5 cm	898.000200	19091	1	1
Splinter Forceps, Blunt End, Nickel-Plated, 8.1 cm	898.000370	19159	1	1
Tape, Clear Plastic, 2.5 cm x 4.6 m	898.000030	07616	1	1
Triangular Bandage, 101.6 x 101.6 x 142.2 cm	898.000007	02019	6	1

FIRST AID KIT – NFLD & LABRADOR #3



Art. No. 898.210015 Metal Case

Features:

- **No. 3 kit for workplaces with 15-199 workers**
- Unit boxes provide quick identification of first aid kit contents and maintain a neater, more attractive looking kit
- Items required but not included: First Aid Station sign (898.000990)
- Wall mountable
- With standard bilingual "First Aid Kit" image
- Dimensions: 24.4 x 25.1 x 6.4 cm (9-5/8" x 9-7/8" x 2-1/2")

Description	Art. No.	Safecross P. No.	Kit Qty.	Reorder Qty.
Accident/Illness Record Book	898.000310	14237	1	1
Compress Bandage, 10.2 x 10.2 cm	898.000095	02024	6	1
Fabric Bandages, Fingertip Small, 4.4 x 5.1 cm	898.000004	03016	10	1 box (50)
Fabric Bandages, Knuckle, 3.8 x 7.6 cm	898.000005	03025	10	1 box (50)
First Aid & Emergency Care Guide	898.000997	02054	1	1
Gauze Pads, 7.6 x 7.6 cm	898.000029	03052	32	1 box (25)
Hydrogen Peroxide, 100 ml	N/A	N/A	1	1
Plastic Bandages, 2.5 x 7.6 cm	898.000008	03040	32	1 box (100)
Safety Pins, Assorted Sizes, 12's	898.000320	02026	1	1 bag(12)
Scissors, Blunt Tip, Nickel-Plated, 10.5 cm	898.000200	19091	1	1
Splinter Forceps, Blunt End, Nickel-Plated, 8.1 cm	898.000370	19159	1	1
Surgitube, Tubular Gauze w/Applicator, 1.6 cm x 4.6 m	N/A	N/A	1	1
Tape, Clear Plastic, 2.5 cm x 4.6 m	898.000030	07616	2	1
Triangular Bandage, 101.6 x 101.6 x 142.2 cm	898.000007	02019	6	1

FIRST AID KIT – NFLD & LABRADOR TRUCK



Art. No. 898.210020 Metal Case

Features:

- General-purpose first aid kits designed for **transport vehicles**
- Contains supplies to treat small and large injuries.
- Exceeds minimum standards for Occupational Health and Safety #1 Kit.
- Dimensions: 26 x 18.1 x 7.9 cm (10-1/4" x 7-1/8" x 3-1/8")

Description	Art. No.	Safecross P. No.	Kit Qty.	Reorder Qty.
Accident/Illness Record Book	898.000310	14237	1	1
Alcohol Antiseptic Swabs	898.000139	06450	4	1 box (100)
Benzalkonium Chloride Antiseptic Towelettes	898.000130	06061	6	1 box (100)
Cold Pack, Instant, Small, 10.2 x 15.2 cm	898.000040	14189	1	1
Compress Bandage, 10.2 x 10.2 cm	898.000095	02024	2	1
Fabric Bandages, 2.2 x 7.6 cm	898.000001	03026	6	1 box (100)
First Aid & Emergency Care Guide	898.000997	02054	1	1
First Aid Cream, 0.9 g	N/A	N/A	2	1 box (25)
Gauze Pads, 7.6 x 7.6 cm	898.000029	03052	12	1 box (25)
Hand Sanitizer, Antiseptic Gel, 3.7 ml	N/A	N/A	1	1 box (100)
Hydrogen Peroxide, 100 ml	N/A	N/A	1	1
Nitrile, Medical Examination Gloves, 2's	898.000045	18765	1	2
Plastic Bandages, 2.5 x 7.6 cm	898.000008	03040	12	1 box (100)
Safety Pins, Assorted Sizes, 12's	898.000320	02026	1	1 bag (12)
Scissors, Blunt Tip, Nickel-Plated, 10.5 cm	898.000200	19091	1	1
Splinter Forceps, Blunt End, Nickel-Plated, 8.1 cm	898.000370	19159	1	1
Splinter-Out, 2's	898.000180	19181	1	1
Tape, Clear Plastic, 1.9 cm x 0.9 m	898.000030	07616	1	1
Triangular Bandage, 101.6 x 101.6 x 142.2 cm	898.000007	02019	1	1

FIRST AID KIT – NEW BRUNSWICK BASIC



Art. No. 898.190015 Metal Case

Features:

- Unit boxes provide quick identification of first aid kit contents and maintain a neater, more attractive looking kit
- Wall mountable
- With standard bilingual "First Aid Kit" image;
- Dimensions: 36 x 24.8 x 6.2 cm (14-3/16" x 9-3/4" x 2-7/16")

Description	Art. No.	Safecross P. No.	Kit Qty.	Reorder Qty.
Abdominal/Combine Pad, 20.3 x 25.4 cm	898.000720	03504	6	1
Accident/Illness Record Book	898.000310	14237	1	1
Benzalkonium Chloride Antiseptic Towelettes	898.000130	06061	12	1
Blanket, Emergency, Foil/Mylar, 142.2 x 203.2 cm	898.000380	26297	1	1
Compress Bandage, 10.2 x 10.2 cm	898.000095	02024	4	1
Cotton Tipped Applicators, 2/pk, 7.6 cm, Single-End, Str.	898.000050	20145	6	1
CPR Face Shield, w/One-Way Filtered Valve	898.000225	17746	1	1
Elastic Support/Compression Bandage, 7.6 cm x 4.6 m	898.000350	08049	2	1
First Aid & Emergency Care Guide	898.000997	02054	1	1
Gauze Bandage Roll, 7.6 cm x 9.1 m	898.000610	02520	2	1
Gauze Pads, 10.2 x 10.2 cm	898.000750	03947	4	1 box (25)
Gauze Pads, 5.1 x 5.1 cm	898.000740	03946	4	1
Gauze Pads, 7.6 x 7.6 cm	898.000029	03052	4	1 box (25)
Hand Cleansing Moist Towelettes	898.000340	06062	12	1
Infectious Waste Bags, 15.2 x 22.9 cm	898.000920	14363	4	25
Nitrile, Medical Examination Gloves	898.000045	18765	6	2
Pencil 8.9 cm	N/A	N/A	1	1
Plastic Bandages, 1 x 3.8 cm, Junior	898.000640	03120	10	1 box
Plastic Bandages, 2.5 x 7.6 cm	898.000008	03040	14	1 box
Safecross, Antiseptic Skin Cleanser, 60 mL	898.000140	06104	1	1
Safety Pins, Assorted Sizes	898.000320	02026	1	1
Scissors, Surgical, Blunt/Sharp, 14 cm	898.000200	19091	1	1
Splinter Forceps, Blunt End, Nickel-Plated, 8.1 cm	898.000370	19159	1	1
Sugar Packets	N/A	N/A	6	1
Tape, Clear Plastic, 2.5 cm x 9.1 m	898.000820	07275	2	1
Triangular Bandage, 101.6 x 101.6 x 142.2 cm (40" x 40" x 56")	898.000007	02019	6	1
Water-Jel® Burn Dressing, 10.2 x 10.2 cm	898.000151	06629	1	1
Water-Jel® Burn Dressing, 5.1 x 15.2 cm	898.000150	06630	3	1

FIRST AID KIT – NOVA SCOTIA NO. 2



Art. No. 898.200000 Plastic Case

Features:

- **No. 2 kit for workplaces with 2-9 workers**
- Unit boxes provide quick identification of first aid kit contents and maintain a neater, more attractive looking kit
- Wall Mountable
- With standard bilingual "First Aid Kit" image
- Dimensions: 26 x 18.1 x 7.9 cm (10-1/4" x 7-1/8" x 3-1/8")

Description	Art. No.	Safecross P. No.	Kit Qty.	Reorder Qty.
Accident/Illness Record Book, Small	898.000310	14237	1	1
Benzalkonium Chloride (Bzk), Antiseptic Towelettes	898.000130	06061	12	1 box
Compress Bandage, 10.2 x 10.2 cm (4" x 4")	898.000095	02024	2	1
CPR Face Shield, w/One-Way Filtered Valve	898.000225	17746	1	1
Gauze Pads, 7.6 x 7.6 cm, Sterile	898.000029	03052	16	1 box (25)
Gauze Bandage Roll, 5.1 cm x 4.6 m	898.000021	02018	1	4
Hand Cleansing Moist Towelettes,	898.000340	06062	24	1 box
Infectious Waste Bags, 15.2 x 22.9 cm	898.000360	14359	1	25
Nitrile, Medical Examination Gloves, Powder-Free, Large, 2/Package	898.000045	18765	2	2
Pencil, 8.9 cm	N/A	N/A	1	1
Plastic Bandages, 2.5 x 7.6 cm,	898.000008	03040	24	1 box (100)
Safety Pins, Assorted Sizes, 12/Package	898.000320	02026	1pkg	1
Scissors, Blunt Tip, Nickel-Plated, 10.5 cm	898.000200	19091	1	1
Splinter Forceps, Blunt End, Nickel-Plated, 8.1 cm	898.000370	19159	1	1
St. John Ambulance, Pocket Guide (English/French)	898.000997	02054	1	1
Tape, Cotton Cloth, 2.5 cm x 2.3 m	898.000840	07966	1	1
Triangular Bandage, 101.6 x 101.6 x 142.2 cm (40" x 40" x 56"),	898.000007	02019	6	1

FIRST AID KIT – NOVA SCOTIA NO. 3 & NO. 3 PLUS



No. 3 Art. No. 898.200010 Metal Case

Features:

- **No. 3 kit for workplaces with 20-49 workers**
- Unit boxes provide quick identification of first aid kit contents and maintain a neater, more attractive looking kit
- Wall Mountable
- With standard bilingual "First Aid Kit" image
- Dimensions: 24.4 x 25.1 x 6.4 cm (9-5/8" x 9-7/8" x 2-1/2")

Description	Art. No.	Safecross P. No.	Kit Qty.	Reorder Qty.
Accident/Illness Record Book, Small	898.000310	14237	1	1
Benzalkonium Chloride (Bzk), Antiseptic Towelettes	898.000130	06061	12	1 box
Compress Bandage, 10.2 x 10.2 cm (4" x 4")	898.000095	02024	6	1
CPR Face Shield, w/One-Way Filtered Valve	898.000225	17746	1	1
Gauze Pads, 7.6 x 7.6 cm, Sterile	898.000029	03052	32	1 box (25)
Gauze Bandage Roll, 5.1 cm x 4.6 m	898.000021	02018	1	4
Hand Cleansing Moist Towelettes,	898.000340	06062	24	1 box
Infectious Waste Bags, 15.2 x 22.9 cm	898.000360	14359	1	25
Nitrile, Medical Examination Gloves, Powder-Free, Large, 2/Package	898.000045	18765	4	2
Pencil, 8.9 cm	N/A	N/A	1	1
Plastic Bandages, 2.5 x 7.6 cm,	898.000008	03040	32	1 box (100)
Safety Pins, Assorted Sizes, 12/Package	898.000320	02026	1pkg	1
Scissors, Blunt Tip, Nickel-Plated, 10.5 cm	898.000200	19091	1	1
Splinter Forceps, Blunt End, Nickel-Plated, 8.1 cm	898.000370	19159	1	1
St. John Ambulance, Pocket Guide (English/French)	898.000997	02054	1	1
Tape, Cotton Cloth, 2.5 cm x 2.3 m	898.000840	07966	2	1
Triangular Bandage, 101.6 x 101.6 x 142.2 cm (40" x 40" x 56"),	898.000007	02019	6	1



No. 3 Plus Art. No. 898.200015 Metal Case

Features:

- **No. 3 kit for workplaces with 50-49 workers**
- Unit boxes provide quick identification of first aid kit contents and maintain a neater, more attractive looking kit
- Wall Mountable
- With standard bilingual "First Aid Kit" image
- Dimensions: 40 x 31.4 x 11 cm (15-3/4" x 12-3/8" x 4-5/16")

Description	Art. No.	Safecross P. No.	Kit Qty.	Reorder Qty.
Accident/Illness Record Book, Small	898.000310	14237	1	1
Benzalkonium Chloride (Bzk), Antiseptic Towelettes	898.000130	06061	24	1 box
Compress Bandage, 10.2 x 10.2 cm (4" x 4")	898.000095	02024	12	1
CPR Face Shield, w/One-Way Filtered Valve	898.000225	17746	1	1
Gauze Pads, 7.6 x 7.6 cm, Sterile	898.000029	03052	64	1 box (25)
Gauze Bandage Roll, 5.1 cm x 4.6 m	898.000021	02018	1	4
Hand Cleansing Moist Towelettes,	898.000340	06062	48	1 box
Infectious Waste Bags, 15.2 x 22.9 cm	898.000360	14359	1	25
Nitrile, Medical Examination Gloves, Powder-Free, Large, 2/Package	898.000045	18765	4	2
Pencil, 8.9 cm	N/A	N/A	1	1
Plastic Bandages, 2.5 x 7.6 cm,	898.000008	03040	64	1 box (100)
Safety Pins, Assorted Sizes, 12/Package	898.000320	02026	1pkg	1
Scissors, Blunt Tip, Nickel-Plated, 10.5 cm	898.000200	19091	1	1
Splinter Forceps, Blunt End, Nickel-Plated, 8.1 cm	898.000370	19159	1	1
St. John Ambulance, Pocket Guide (English/French)	898.000997	02054	1	1
Tape, Cotton Cloth, 2.5 cm x 2.3 m	898.000840	07966	2	1
Triangular Bandage, 101.6 x 101.6 x 142.2 cm (40" x 40" x 56"),	898.000007	02019	12	1

FIRST AID KIT – NOVA SCOTIA TRUCK



Art. No. 898.200020 Plastic Case

Features:

- General-purpose first aid kits designed for **transport vehicles**.
- Contains supplies to treat small and large injuries.
- Exceeds minimum standards for Occupational Health and Safety No. 1 Kit.

Description	Art. No.	Safecross P. No.	Kit Qty.	Reorder Qty.
Accident/Illness Record Book, Small	898.000310	14237	1	1
Alcohol Antiseptic Swabs	898.000139	06450	4	1 box (100)
Benzalkonium Chloride (Bzk), Antiseptic Towelettes	898.000130	06061	12	1 box
Cold Pack, Instant, Small, 10.2 x 15.2 cm	898.000040	14189	1	1
Compress Bandage, 10.2 x 10.2 cm (4" x 4")	898.000095	02024	6	1
CPR Face Shield, w/One-Way Filtered Valve	898.000225	17746	1	1
Fabric Bandages, 2.2 x 7.6 cm, Heavyweight	898.000001	03026	6	1 box (100)
First Aid Cream, 0.9 g,	N/A	N/A	2	1 box (25)
Gauze Bandage Roll, 5.1 cm x 4.6 m	898.000021	02018	1	4
Gauze Pads, 7.6 x 7.6 cm, Sterile	898.000029	03052	32	1 box (25)
Hand Cleansing Moist Towelettes,	898.000340	06062	24	1 box
Hand Sanitizer, Antiseptic Gel, 3.7 ml	N/A	N/A	1	1
Infectious Waste Bags, 15.2 x 22.9 cm	898.000360	14359	1	25
Nitrile, Medical Examination Gloves, Powder-Free, Large, 2/Package	898.000045	18765	4	2
Pencil, 8.9 cm	N/A	N/A	1	1
Plastic Bandages, 2.5 x 7.6 cm,	898.000008	03040	32	1 box (100)
Safety Pins, Assorted Sizes, 12/Package	898.000320	02026	1pkg	1
Scissors, Blunt Tip, Nickel-Plated, 10.5 cm	898.000200	19091	1	1
Splinter Forceps, Blunt End, Nickel-Plated, 8.1 cm	898.000370	19159	1	1
Splinter-Out®	898.000180	19181	1	1 box (10)
St. John Ambulance, Pocket Guide (English/French)	898.000997	02054	1	1
Tape, Cotton Cloth, 2.5 cm x 2.3 m	898.000840	07966	2	1
Triangular Bandage, 101.6 x 101.6 x 142.2 cm (40" x 40" x 56"),	898.000007	02019	6	1

FIRST AID KIT – BRITISH COLUMBIA LEVEL #1



Art. No. 898.220005 Plastic Case

Features:

- For **Level 1** workplaces
- Unit boxes provide quick identification of first aid kit contents and maintain a neater, more attractive looking kit
- Item required but not included: 3 blankets
- Wall mountable
- With standard bilingual "First Aid Kit" image
- Dimensions: 41.9 x 32.7 x 14.9 cm (16-1/2" x 12-7/8" x 5-7/8")

Description	Art. No.	Safecross P. No.	Kit Qty.	Reorder Qty.
Abdominal/Combine Pad, 20.3 x 25.4 cm	898.000720	03504	4	1
Accident/Illness Record Book	898.000310	14237	1	1
Benzalkonium Chloride Antiseptic Towelettes	898.000130	06059	24	1 box (100)
Compress Bandage with Elastic Tail, 11.4 x 15.2 cm	898.000630	02727	4	1
Cotton Tipped Applicators, 2/pk, 7.6 cm, Single-End, Str.	898.000050	20145	6	1
CPR Face Mask, with One-Way Valve, In Case	898.000225	17746	1	1
Elastic Support/Compression Bandage, 7.6 cm x 4.6 m	898.000350	08049	2	1
Gauze Pads, 10.2 x 10.2 cm	898.000027	02221	12	1 box (25)
Hand Cleansing Moist Towelettes	898.000340	06062	60	1 box (100)
Nitrile, Medical Examination Gloves, 2's	898.000045	18765	6	2
Pencil 8.9 cm	N/A	N/A	1	1
Plastic Bandages, 1 x 3.8 cm, Junior	898.000640	03270	20	1 box
Plastic Bandages, 1.9 x 7.6 cm	898.000002	03041	40	1 box (100)
Plastic Bandages, 2.2 cm Circles	898.000710	03275	10	1 box
Plastic Bandages, 2.5 x 7.6 cm	898.000001	03026	30	1 box (100)
Safety Pins, #2, (3.8 cm)	898.000870	10023	4	1
Scissors, Bandage, 14 cm	898.000205	19161	1	1
Splinter Forceps, Fine Point, 11.4 cm	898.000950	19156	1	1
Tape, Clear Plastic, 2.5 cm x 4.6 m	898.000030	07616	1	1
Triangular Bandage, 101.6 x 101.6 x 142.2 cm	898.000007	02019	6	1

FIRST AID KIT – BRITISH COLUMBIA LEVEL #2 AND #3



Art. No. 898.220015 Metal Case

Features:

- For **Level 2** workplaces
- Unit boxes provide quick identification of first aid kit contents and maintain a neater, more attractive looking kit
- Items required but not included: CPR pocket mask (item 898.000930) 3 blankets, portable oxygen therapy unit, manually operated self-inflating bag-valve-mask, oropharyngeal (oral) airway kit
- Wall mountable
- With standard bilingual "First Aid Kit" image;
- Dimensions: 40 x 31.4 x 11 cm (15-3/4" x 12-3/8" x 4-5/16")

Description	Art. No.	Safecross P. No.	Kit Qty.	Reorder Qty.
Abdominal/Combine Pad, 20.3 x 25.4 cm	898.000720	03504	10	1
Accident/Illness Record Book	898.000310	14237	1	1
Batteries, Alkaline, "AAA"	827.01	N/A	2	4
Benzalkonium Chloride Antiseptic Towelettes	898.000130	06059	24	1
Compress Bandage w/ Elastic Tail, 11.4 x 15.2 cm	898.000630	02727	4	1
Elastic Support/Compression Bandage, 7.6 cm x 4.6 m	898.000350	08049	6	1
Esmarch Bandage, 7.6 cm x 4.6 m	898.000520	02226	1	1 pkg
Gauze Pads, 10.2 x 10.2 cm	898.000027	02221	12	1 box (25)
Green Soap, Antiseptic Cleanser, 50 mL	N/A	N/A	1	1
Irrigation Solution, Sodium Chloride, 0.9%, 500 mL, Sterile	N/A	N/A	1	1
Nitrile, Medical Examination Gloves, 2's	898.000045	18765	6	2
Patient Assessment Chart	N/A	N/A	6	1

Description	Art. No.	Safecross P. No.	Kit Qty.	Reorder Qty.
Pencil 8.9 cm	N/A	N/A	1	1
Penlight, Reusable, No Batteries	N/A	N/A	1	1
Plastic Bandages, 1 x 3.8 cm, Junior	898.000640	03270	30	1 box
Plastic Bandages, 1.9 x 7.6 cm	898.000002	03041	60	1 box (100)
Plastic Bandages, 2.2 cm Circles	898.000710	03275	15	1 box
Plastic Bandages, 2.5 x 7.6 cm	898.000001	03026	45	1 box (100)
Scissors, Universal Paramedic, 15.9 cm	N/A	N/A	1	1
Splinter Forceps, Fine Point, 11.4 cm	898.000950	19156	1	1
Tape, Clear Plastic, 2.5 cm x 4.6 m	898.000030	07616	2	1
Tape, Cotton Cloth, 5.1 cm x 4.6 m	898.000830	07794	2	1
Triangular Bandage, 101.6 x 101.6 x 142.2 cm	898.000007	02019	12	1

FIRST AID KIT – BRITISH COLUMBIA TRUCK



Art. No. 898.220020 Plastic Case

Features:

- General-purpose first aid kits designed for **transport vehicles**
- Contains supplies to treat small and large injuries.
- Exceeds minimum standards for Occupational Health and Safety Type P Kit.
- Dimensions: 21.6 x 13.7 x 7.9 cm (8-1/2" x 5-3/8" x 3-1/8")

Description	Art. No.	Safecross P. No.	Kit Qty.	Reorder Qty.
Alcohol Antiseptic Swabs	898.000139	06450	4	1
Benzalkonium Chloride Antiseptic Towelettes	898.000130	06059	6	1 Box
Cold Pack, Instant, Small, 10.2 x 15.2 cm	898.000040	14189	1	1
Compress Bandage, 5.1 x 5.1 cm	898.000390	02010	1	1
Conforming Stretch Bandage, 5.1 cm x 3.7 m	898.000560	02331	1	1
Fabric Bandages, 2.2 x 7.6 cm	898.000001	03026	6	1 box (100)
First Aid & Emergency Care Guide	898.000997	02054	1	1
First Aid Cream, 0.9 g	N/A	N/A	2	1 box (25)
Gauze Pads, 7.6 x 7.6 cm	898.000029	03052	4	1 box (25)

Description	Art. No.	Safecross P. No.	Kit Qty.	Reorder Qty.
Hand Sanitizer, Antiseptic Gel, 3.7 mL	N/A	N/A	1	1
Instruction Card For Accident Reporting	N/A	N/A	1	1
Nitrile, Medical Examination Gloves, 2's	898.000045	18765	1	2
Plastic Bandages, 1.9 x 7.6 cm	898.000002	03041	12	1 box (100)
Scissors, Blunt Tip, Nickel-Plated, 10.5 cm	898.000200	19091	1	1
Splinter-Out®, 2's	898.000180	19181	1	1
Tape, Clear Plastic, 1.9 cm x 0.9 m	898.000030	07616	1	1
Triangular Bandage, 101.6 x 101.6 x 142.2 cm	898.000007	02019	1	1

FIRST AID KIT – BRITISH COLUMBIA WORKPLACE STANDARD



Art. No. 898.220025 Metal Case

Features:

- Comprehensive first aid kits contain supplies for treating common injuries, wounds and burns.
- Ideal for general industry and warehouses.
- Contains a full assortment of practical, single-use disposable products to treat injuries in a sanitary way.
- Wall mountable
- **Exceeds minimum standards for Occupational Health and Safety Level 1 Kit**
- Dimensions: 36.8 x 46.5 x 16.2 cm (14-1/2" x 18-5/16" x 6-3/8")

Description	Art. No.	Safecross P. No.	Kit Qty.	Reorder Qty.
Abdominal/Combine Pad, 20.3 x 25.4 cm	898.000720	03504	1	1
Accident/Illness Record Book	898.000999	14460	1	1
Alcohol Antiseptic Swabs	898.000139	06450	200	1 box (100)
Benzalkonium Chloride Antiseptic Towelettes, 100's	898.000130	06061	1	1
Blanket, Emergency, Foil/Mylar, 142.2 x 203.2 cm	898.000380	26297	1	1
Butterfly Skin Closures, Large, 1.3 x 7 cm	898.000016	03674	5	1 box asst.
Butterfly Skin Closures, Medium, 1 x 4.6 cm	898.000016	03674	5	1 box asst.
Coban, Self-Adherent Wrap, 5.1 cm x 4.6 m	898.000860	08302	1	1
Cold Pack, Instant, Small, 10.2 x 15.2 cm	898.000040	14189	2	1
Compress Bandage w/Elastic Tail, 11.4 x 15.2 cm	898.000630	02727	4	1
Conforming Stretch Bandage, 10.2 cm x 3.7 m	898.000590	02333	2	1
Conforming Stretch Bandage, 7.6 cm x 3.7 m	898.000580	02332	2	1
Cotton Tipped Applicators, 7.6 cm, Single-End, 100's	898.000050	20145	1	1
CPR Face Mask, w/One-Way Valve, In Case	898.000225	17746	1	1
Elastic Support/Compression Bandage, 5.1 cm x 4.6 m	898.000850	08048	1	1
Elastic Support/Compression Bandage, 7.6 cm x 4.6 m	898.000350	08049	1	1
Eye Dressing Pads	898.000770	04273	2	1 box (50)
Eye Wash, 20 mL	N/A	N/A	6	1 box (60)
Fabric Bandages, 2.2 x 7.6 cm, 50's	898.000001	03026	1	1 box (100)
Fabric Bandages, Fingertip Large, 4.4 x 7.6 cm	898.000006	03017	12	1 box (50)
Fabric Bandages, Fingertip Small, 4.4 x 5.1 cm	898.000004	03016	12	1 box (50)
Fabric Bandages, Knuckle, 3.8 x 7.6 cm	898.000005	03025	12	1 box (50)
Fabric Bandages, Large Patch, 5.1 x 7.6 cm	898.000000	03035	12	1 box (50)
First Aid & Emergency Care Guide	898.000997	02054	1	1
First Aid Cream, 0.9 g, 25's	N/A	N/A	1	1 box (25)
First Aid Kit Inspection Report Card	898.000999	14460	1	1
Gauze Pads, 10.2 x 10.2 cm	898.000027	02221	25	1 box (25)
Hand Cleansing Moist Towelettes	898.000340	06062	60	1 box (100)
Hand Cleansing Towelettes, Antimicrobial	898.000790	06065	6	1 box (100)
Hand Sanitizer, Antiseptic Gel, 118 mL	N/A	N/A	1	1
Hydrogen Peroxide, 250 mL	N/A	N/A	1	1
Infectious Waste Bags, 15.2 x 22.9 cm	898.000920	14363	2	1
Nitrile, Medical Examination Gloves, 2's	898.000045	18765	6	2
Pencil 8.9 cm	N/A	N/A	1	1
Plastic Bandages, 1 x 3.8 cm, Junior	898.000640	03270	20	1 box
Plastic Bandages, 1.9 x 7.6 cm	898.000002	03041	40	1 box (100)
Plastic Bandages, 2.2 cm Circles	898.000710	03275	10	1 box
Plastic Bandages, 2.5 x 7.6 cm	898.000008	03040	30	1 box (100)
Safecross, Antiseptic Skin Cleanser, 125 mL	898.000140	06104	1	1
Safety Pins, Assorted Sizes, 12's	898.000320	02026	1	1
Scissors, Bandage, 14 cm	898.000205	19161	1	1
Second Skin®, Moist Burn Pads, Medium, 5.1 x 7.6 cm, 4's	898.000780	05636	1	4
Splinter Forceps, Fine Point, 11.4 cm	898.000950	19156	1	1
Splinter-Out®, 10's	898.000180	19181	1	1
Steri-Strip®, Skin Closures, 6 mm x 7.6 cm, 3's	898.000017	03486	1	1 box (19)
Tape, Clear Plastic, 2.5 cm x 4.6 m	898.000030	07616	1	1
Tegaderm®, Transparent Film Dressings, 6 x 7 cm	898.000020	07634	2	1
Telfa®, Non-Adherent Island Dressings, 5.1 x 9.5 cm	898.000670	03185	2	1 box (50)
Telfa®, Non-Adherent Pads, 5.1 x 7.6 cm	898.000025	03165	6	1 box (25)
Telfa, Non-Adherent Pads, 7.6 x 10.2 cm	898.000660	03184	4	1 box (25)
Thermometer, Oral/Axillary	N/A	N/A	4	1
Tongue Depressors, Senior, 1.9 x 15.2 cm	898.000890	14003	4	1 box (25)
Triangular Bandage, 101.6 x 101.6 x 142.2 cm	898.000007	02019	6	1
Water-Jel®, Burn Dressing, 10.2 x 10.2 cm	898.000150	06630	1	1
Water-Jel®, Cool Jel, 118 mL	898.000035	06635	1	1
Woundseal® Topical Powder	898.000060	06025	1	1

FIRST AID KIT – ALBERTA NO.1



Art. No. 898.170000 Plastic Case

Features:

- **No. 1 Workplaces**
- Unit boxes provide quick identification of first aid kit contents and maintain a neater, more attractive looking kit
- Items required but not included: Accident Record Book (898.000310), First Aid Station sign (898.000990)
- With standard bilingual "First Aid Kit" image
- Wall mountable
- Dimensions: 26 x 18.1 x 7.9 cm (10-1/4" x 7-1/8" x 3-1/8")

Description	Art. No.	Safecross P. No.	Kit Qty.	Reorder Qty.
Benzalkonium Chloride Antiseptic Towelettes	898.000130	06061	10	1
Compress Bandage, 10.2 x 10.2 cm	898.000095	02024	2	1
Compress Bandage, 15.2 x 15.2 cm	898.000490	02126	2	1
Conforming Stretch Bandage, 7.6 cm x 3.7 m	898.000580	02332	2	1
CPR Face Shield, with One-Way Filtered Valve	898.000225	17746	1	1
Elastic Support/Compression Bandage, 7.6 cm x 4.6 m	898.000350	08049	1	1
First Aid & Emergency Care Guide	898.000997	02054	1	1
Gauze Pads, 10.2 x 10.2 cm	898.000027	02221	10	1 box (25)
Infectious Waste Bags, 15.2 X 22.9 cm	898.000920	14363	1	1
Nitrile, Medical Examination Gloves, 2's	898.000045	18765	4	2
Plastic Bandages, 1.9 x 7.6 cm	898.000002	03041	25	1 box (100)
Safety Pins, Assorted Sizes, 6's	898.000420	02025	1	1
Scissors, Blunt Tip, Nickel-Plated, 10.5 cm	898.000200	19091	1	1
Splinter Forceps, Blunt End, Nickel-Plated, 8.1 cm	898.000370	19159	1	1
Tape, Clear Plastic, 2.5 cm x 4.6 m	898.000030	07616	1	1
Triangular Bandage, 101.6 x 101.6 x 142.2 cm	898.000007	02019	3	1

FIRST AID KIT – ALBERTA NO.3



Art. No. 898.170015 Metal Case

Features:

- **No. 3 Workplaces**
- Unit boxes provide quick identification of first aid kit contents and maintain a neater, more attractive looking kit
- Items required but not included: Accident Record Book (898.000310), First Aid Station sign (898.000990)
- With standard bilingual "First Aid Kit" image
- Wall mountable
- Dimensions: 40 x 31.4 x 11 cm (15-3/4" x 12-3/8" x 4-5/16")

Description	Art. No.	Safecross P. No.	Kit Qty.	Reorder Qty.
Abdominal/Combine Pad, 20.3 x 25.4 cm	898.000720	03504	4	1
Benzalkonium Chloride Antiseptic Towelettes	898.000130	06061	24	1
Compress Bandage, 10.2 x 10.2 cm	898.000095	02024	6	1
Compress Bandage, 15.2 x 15.2 cm	898.000490	02126	6	1
Conforming Stretch Bandage, 7.6 cm x 3.7 m	898.000580	02332	6	1
CPR Face Shield, with One-Way Filtered Valve	898.000225	17746	1	1
Elastic Support/Compression Bandage, 7.6 cm x 4.6 m	898.000350	19159	4	1
Eye Dressing Pads	898.000770	04273	2	1 box (50)
First Aid & Emergency Care Guide	898.000997	02054	1	1
Gauze Pads, 10.2 x 10.2 cm	898.000027	02221	50	1 box (25)
Infectious Waste Bags, 15.2 x 22.9 cm	898.000920	14363	2	1
Nitrile, Medical Examination Gloves, 2's	898.000045	18765	12	2
Plastic Bandages, 1.9 x 7.6 cm, 100's	898.000002	03041	1	1 box (100)
Safety Pins, Assorted Sizes, 12's	898.000320	02026	1	1
Scissors, Blunt Tip, Nickel-Plated, 10.5 cm	898.000200	19091	1	1
Splinter Forceps, Blunt End, Nickel-Plated, 8.1 cm	898.000370	19159	1	1
Surgitube, Tubular Gauze with Applicator, 1.6 cm x 4.6 m	N/A	N/A	1	1 box
Tape, Clear Plastic, 2.5 cm x 4.6 m	898.000030	07616	2	1
Triangular Bandage, 101.6 x 101.6 x 142.2 cm	898.000007	02019	12	1

FIRST AID – ALBERTA TRUCK



Art. No. 898.170020 Plastic Case

Features:

- General-purpose first aid kits designed for **transport vehicles**.
- Contains supplies to treat small and large injuries
- Exceeds minimum standards for Occupational Health and Safety Type P Kit
- Dimensions: 21.6 x 13.7 x 7.9 cm (8-1/2" x 5-3/8" x 3-1/8")

Description	Art. No.	Safecross P. No.	Kit Qty.	Reorder Qty.
Alcohol Antiseptic Swabs	898.000139	06450	4	1
Benzalkonium Chloride Antiseptic Towelettes	898.000130	06061	6	1
Cold Pack, Instant, Small, 10.2 x 15.2 cm	898.000040	14189	1	1
Compress Bandage, 10.2 x 10.2 cm	898.000095	02024	1	1
Conforming Stretch Bandage, 5.1 cm x 3.7 m	898.000560	02331	1	1
Fabric Bandages, 2.2 x 7.6 cm	898.000001	03026	6	1 box (100)
First Aid & Emergency Care Guide	898.000997	02054	1	1
First Aid Cream, 0.9 g	N/A	N/A	2	1 box (25)
Gauze Pads, 10.2 x 10.2 cm	898.000027	02221	5	1 box (25)
Hand Sanitizer, Antiseptic Gel, 3.7 ml	N/A	N/A	1	1
Infectious Waste Bags, 15.2 X 22.9 cm	898.000920	14363	1	1
Nitrile, Medical Examination Gloves, 2's	898.000045	18765	1	2
Plastic Bandages, 1.9 x 7.6 cm	898.000002	03041	12	1 box (100)
Scissors, Blunt Tip, Nickel-Plated, 10.5 cm	898.000200	19091	1	1
Splinter-Out®, 2's	898.000180	19181	1	1
Tape, Clear Plastic, 1.9 cm x 0.9 m	898.000030	07616	1	1
Triangular Bandage, 101.6 x 101.6 x 142.2 cm	898.000007	02019	1	1

EMPTY FIRST AID CABINET



Art. No. 955.44518

Features:

- Metal cabinet, #6, w/imprint, 36.8x46.5x16.2cm (14-1/2"x18-5/16"x6-3/8")
- Manufactured from high-quality steel with a baked-on white enamel finish.
- Fixed shelves provide ample space to store a complete line of first aid products.
- Wall-mountable. (does not come with mounting hardware)

GAUZE PAD



Art. No. 898.000029 7.6 cm x 7.6 cm

Art. No. 898.000027 10.2 cm x 10.2 cm

Features:

- High-quality, absorbent 12-ply gauze pads
- For wound dressing and general cleaning
- Individually wrapped in water-resistant, tamper-proof packaging
- Made of 100% bleached cotton with a 24 x 28 mesh count

COTTON TIPPED APPLICATORS



Art. No. 898.000050 Qty: 100 applicators

Single end - clear plastic vial

Size: 7.6 cm

Features:

- High-quality cotton swabs for general medical applications

Dimension: 2" x 2" x 3-1/2"

FABRIC BANDAGES



Art. No. 898.000001 Qty: 100/Box

Fabric Bandages

Size: 2.2 x 7.6 cm / 7/8 x 3"

Features:

- High Quality fabric
- Open weave construction for skin to breathe and heal faster
- Strong adhesive for dressing to stay in place
- Highly absorbent



Art. No. 898.000000 Qty: 50/Box

Designed to provide protection and comfort for large wounds on various body areas

Fabric Bandages

Size: 5.1 x 7.6 cm / 2" x 3"

Features:

- High Quality fabric
- Open weave construction for skin to breathe and heal faster
- Strong adhesive for dressing to stay in place
- Highly absorbent
- Island pad construction which seals out dirt and contaminants



Art. No. 898.000006 Box Qty: 50

Designed to provide coverage, protection and comfort for hard to bandage elbow, fingertip and toe area

Fabric Bandages, Fingertip Large

Size: 4.4 x 7.6 cm / 1 3/4" x 3"

Features:

- High Quality fabric
- Open weave construction for skin to breathe and heal faster
- Strong adhesive for dressing to stay in place
- Highly absorbent
- Provides coverage and protection for elbow
- Island pad which seals out dirt and contaminants



Art. No. 898.000005 Qty: 50/Box

Designed to provide coverage, protection and comfort for hard to bandage knuckle and elbow areas

Fabric Bandages, Knuckle

Size: 3.8 x 7.6 cm / 1 1/2" x 3"

Features:

- High Quality fabric
- Open weave construction for skin to breathe and heal faster
- Strong adhesive for dressing to stay in place
- Highly absorbent
- Island pad construction which seals out dirt and contaminants

TRIANGLE BANDAGES



Art. No. 898.000007

Features:

- Made of 100% Cotton
- Dimensions (width x length x height) 101.6 x 142.2 cm (40" x 40" x 56")
- Vacuum-packed for maximum use of space in first aid kits
- Contains two safety pins

Areas of application:

- Supporting arms and shoulders (sling)
- Securing splints and dressings
- Applying pressure over a large area
- Stabilizing ankles and feet
- Controlling bleeding (tourniquet)
- Controlling bleeding when direct pressure is unsuitable (protruding objects)

SALVEQUICK® PLASTIC BANDAGE REFILLS



Art. No. 898.000012 Box Qty: 6 packs of 45 bandages

Sizes: 27 - 1.9 x 7.2 cm (3/4" x 2-27/32")
18 - 2.5 x 7.2 cm (1" x 2-27/32")

Features:

- Reduces consumption and theft of bandages
- Adhesive is exposed when bandage is removed from dispenser for immediate application
- Refill only. Dispenser sold separately

SALVEQUICK® FABRIC BANDAGE REFILLS



Art. No. 898.000014 Box Qty: 6 packs of 40 bandages

Sizes: 24 - 1.9 x 7.2 cm (3/4" x 2-27/32")
16 - 2.5 x 7.2 cm (1" x 2-27/32")

Features:

- Reduces consumption and theft of bandages
- Adhesive is exposed when bandage is removed from dispenser for immediate application
- Refill only. Dispenser sold separately

SALVEQUICK® BANDAGE DISPENSING SYSTEM



Art. No. 898.000010

Dispenser Includes:

45 assorted plastic, 40 assorted fabric

Features:

- Clear cover allows the user to view contents.
- Automatic locking system to ensure bandages are dispensed individually.
- Reduces consumption and theft of bandages.
- Adhesive is exposed when bandage is removed from dispenser for immediate application
- Sturdy plastic panel easily mounts to wall

WOUNDSEAL® TOPICAL POWDER & APPLICATORS



Art. No. 898.000060 with Applicator

Provides 2 applications

Features:

- WoundSeal® forms a protective, flexible scab that stops bleeding instantly.
- Employees can return back to work quickly, saving time and unnecessary medical expenses.
- Available in 2 convenient application methods for all areas of the body including nose bleeds.

Dimension: 7.6 x 11.4 cm (3" x 4-1/2")

BANTEX® COHESIVE GAUZE TAPE GREEN



Art. No. 898.000120 Box Qty: 1

Size: 2.5 cm x 27.4 m / 1" x 30 Yards

Features:

- Self-bonding gauze protective tape for medical and industrial use
- Resists perspiration, washing, soaking, bathing and immersion in soapy or detergent solutions; will not loosen, slip or distort when wet.
- Safe for sensitive skin; will not adhere to skin, hair or clothing.
- Easy and painless to remove.

Medical uses:

Protects cuts, burns, sprains and other injuries, retains dressings and provides support for sprains, weak arch, ankles and wrists.

Industrial uses:

Protects fingers and hands from industrial hazards; improves the user's grip; protects delicate products from finger and hand contamination.

CPR MASK WITH HARD PLASTIC CASE



Art. No. 898.000225

Features:

- Reusable physical protection barrier to prevent the victim's breath and body fluids from reaching the rescuer
- Helps reduce the risk of cross contamination and transference of viruses & bacteria between the victim and rescuer when mouth-to-mouth assistance is required
- One-way valve & directional diaphragm prevents back-flow of air & contaminants
- Constructed with a specially designed viral & bacterial filter for extra protection
- Medical grade thermoplastic mask for effective ventilation through both the nose and mouth
- Clear mask permits patient monitoring
- Features a soft inflated cuff for a leak-proof seal & added patient comfort
- 15/22 mm inputs connect to standard manual or mechanical resuscitators or bag-valve-masks
- Includes an oxygen inlet for optional supplemental oxygen
- Suitable for adults and children
- Can be used under extreme environmental temperatures
- Packaged in a compact, hard shell carrying case
- Latex-free

COLD PACK INSTANT, SMALL



Art. No. 898.000040

Size:

10.2 x 15.2 cm

Features:

- Ready to use and easy to activate for emergency use whenever cold therapy is required.
- Reaches 0°C (32°F) within seconds and remains below 5°C (41°F) for up to 10 minutes.
- A double bag construction for added quality and longer shelf life.

Areas of application:

- For Sprains, strains, dislocations, swelling, bumps and bruising, minor burns, headaches, migraines and tension relief, muscle aches and spasms, cramps, toothaches, insect bites, stings and sinus congestion.

BENZALKONIUM CHLORIDE ANTISEPTIC TOWELETTES



Art. No. 898.000130

Features:

- Cleans skin and minor wounds
- Sting-free for sensitive skin areas
- Individually packaged in compact, single-use foil sachets
- Active ingredient: benzalkonium chloride 0.40%

100 per box

Dimensions: 12.7 x 20.3 cm (5" x 8")

SAFECROSS® ANTISEPTIC SKIN CLEANSER



Art. No. 898.000140 125 mL

Spray Pump

Features:

- Medicated antiseptic, antibacterial and antimicrobial cleanser
- Used on cuts, scratches, minor burns and insect bites
- Cleans, disinfects and prevents infection
- Active ingredient: chlohexidine gluconate 2% (weight by volume)

ALCOHOL ANTISEPTIC SWABS/PADS



Art. No. 898.000139 Qty: 100/box

Art. No. 898.000800 Qty: 10/box

Features:

- Non-woven pads saturated with isopropyl alcohol 70%
- Antiseptic and antimicrobial for minor wound care, injection and IV site preparation
- Individually packaged in compact, single-use foil sachets

Dimensions:

4.6 x 6.7 cm (1-13/16" x 2-5/8")

SPLINTER-OUT®



Art. No. 898.000180 Qty: 10/box

Features:

- Enables the removal of splinters with minimal discomfort and complete sterility
- Tri-bevel design for loosening and pulling out splinters
- Compact, easy to store in any first aid kit
- Individually wrapped

CEDERROTH® EYE WASH STERILE



Art. No. 898.000700

Amount: 500 mL

Features:

- Buffered isotonic sodium chloride solution for eye irrigation
- Single use bottle will remain sealed until cap is twisted off
- Includes built-in ergonomic eye cup with drain holes
- Maximum Shelf life: 4 years

EYE WASH WALL BRACKET



Art. No. 898.000701

**For use with Cederroth Eye Wash
Art. No. 898.000700**

* Solution not included

WATER-JEL® BURN DRESSINGS

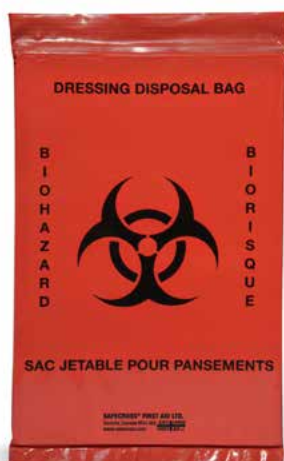


Features:

- Medical grade non-woven dressing infused with Water Jel®.
- Bacteriostatic gel formulation works quickly in emergency burn situations.
- Provides cool and soothing temporary relief of pain.
- Protects against contamination and stops burn progression.
- Water based, water soluble gel is easy to remove, can be applied directly over clothing and assists in the removal of burnt clothing.
- Non-toxic and non-irritating; will not harm the skin or eyes.
- Unaffected by prior freezing, air travel and hot temperature.
- Packaged in individual easy-to-open foil packages

Description	Art. No	P. Qty.
10.2 x 10.2 cm	898.000151	1
5.1 x 15.2 cm	898.000150	

INFECTIOUS WASTE BAGS



Features & Benefits:

- Safe and convenient bags for biohazardous waste.
- Two-part packaging consists of a re-sealable portion for specimen storage and a rear pouch for documentation
- Manufactured from clear plastic with red biohazard labelling
- Bilingual instructions are printed on each bag (English/French)
- Each bag measures: 15.2 x 22.9 cm (6" x 9")

Art. No.	PC/Unit	P. Qty.
898.000360	25/pk	1
898.000920	100/pk	

WATER-JEL® COOL JEL



Features & Benefits:

- Provides cool and soothing temporary relief of pain from minor burns, cuts and scrapes, protects against contamination, stops burn progression and lessens the chance of body fluid evaporation.
- Moisturizes and provides a protective barrier to protect against contaminants and irritants
- Lowers and stabilizes skin temperature; cools through transference, not evaporation, to reduce the risk of hypothermia
- Water-based, water-soluble gel is easy to remove, and assists in the removal of burnt clothing
- Non-toxic and non-irritating; will not harm the skin or eyes
- Unaffected by prior freezing, air travel, and hot temperatures

Description	Size	Qty.	Art. No.
Cool Jel - Pouches	3.5 g	25 pouches per box	898.000170
Cool Jel - Bottle	118 mL	1 Bottle	898.000035

FIRST AID STATION SIGN



Art. No. 898.000990 English

Features:

- Made of white, high impact styrene
- Wall mountable
- For use in first aid rooms and industrial sites
- Dimensions (height x width): 25.4 x 35.6 cm (10" x 14")

WÜRTH FIRST AID INSPECTION REPORT STICKER

FIRST AID KIT INSPECTION REPORT			
RAPPORT DE VÉRIFICATION DE TROUSSE DE PREMIERS SOINS			
Date of Inspection	Complete (yes or no)	Checked by (name)	Date kit updated
Date de vérification	Complète (oui ou non)	Vérifiée par (nom)	Date de mise à jour de la trousse

To replenish your first aid kit or supplies, please call WÜRTH: 1-800-263-5002 or your sales representative.
 Pour réapprovisionner vos fournitures ou vos ensembles de premiers soins, veuillez appeler WÜRTH au 1-800-263-5002 ou votre représentant des ventes local.

Art. No. 898.000999

Handy sticker to be applied to the kit or wall.

ACCIDENT/ILLNESS RECORD BOOK



Art. No. 898.000310 - P. Qty. 1

Features & Benefits:

- For proper safety maintenance and regulatory compliance
- Records full details pertaining to accidents and workplace injuries
- Bilingual (English/French)
- Dimensions (width x length): 22.2 x 10.8 cm (8-3/4" x 4-1/4")

SAFETY PINS ASSORTED SIZES



Nickel Plated Safety Pins

Sizes	Art. No.	PC/Unit	P. Qty.
1, 2 & 3 (4 each)	898.000320	12/pk	1
1, 2 & 3 (2 each)	898.000420*	6/pk	
#2	898.000870*	1440/bx	

OnDemand*

ABDOMINAL/COMBINE PAD



Features & Benefits:

- Thick, super-absorbent pad consisting of three layers: soft outer non-woven layer, fluff filler to absorb and disperse fluid and wet-proof moisture barrier to prevent fluid strike-through
- Cushions draining wounds, burns and prevents skin maceration (breakdown)
- Unique wet-proof moisture barrier helps minimize exposure to blood-borne pathogens
- Absorbs more fluid than ordinary abdominal pads for fewer dressing changes
- Edges are sealed to prevent lint residue and leaking
- Outer layer facing has a topside indicator stripe to ensure proper application

Dimensions	Art. No.	P. Qty.
12.7 x 22.9 cm	898.000330	1
20.3 x 25.4 cm	899.000720	

HAND TOWELETTES



Art. No. 898.000340 - 100 pcs

Features & Benefits:

- Towlettes moistened with cleansing lotion
- Convenient when soap and water are unavailable
- Individually packaged in compact, single-use foil sachets
- Dimensions of each Towlettes: 13.2 x 15.6 cm (5-3/16" x 6-1/8")

HAND CLEANSING TOWELETTES - ANTIMICROBIAL



Art. No. 898.000790 - 100 pcs

Features & Benefits:

- Pre-saturated with surgical scrub and alcohol
- Reduces the chance of cross contamination
- Effective against gram-positive and gram-negative bacteria, viruses, fungi and yeasts
- Ideal for cleansing caregiver's hands prior to patient care
- Contains aloe vera to soften skin
- Active ingredients: parachlorometaxylenol (PCMX) 0.5% and SD alcohol 40%
- Packaged in compact single-use foil sachets

NITRILE MEDICAL EXAMINATION GLOVE



Art. No. 898.000045 - 1 Pair

Features & Benefits:

- Ambidextrous, disposable nitrile medical examination gloves minimizes contact between the caregiver and patient
- Prevents direct contact with blood and other bodily fluids
- Offers high puncture resistance and increased tactile strength
- Essential for all first aid and emergency needs
- Ideal for health care professionals and latex sensitive users and patients; contains no natural rubber latex or latex proteins
- Meets or exceeds all Canadian and American regulations and standards
- Beaded cuff

EMERGENCY BLANKET FOIL



Art. No. 898.000380 - P. Qty. 1

Features & Benefits:

- Multipurpose, emergency first aid blanket made of aluminized non-stretch polyester
- Applications include: body warmth maintenance; use as an emergency shelter; protection from the weather and elements; reflective distress signal; protective wrap for victims of fire, accidents, exposure and shock
- Reflects body heat back to the user
- Stays flexible in freezing temperatures
- Lightweight and compact - fits easily into first aid kits, pockets, bags and glove compartments
- Windproof and waterproof
- Will not rot or mildew
- Dimensions: 142 x 203 cm (56" x 80"); weight: 42.5 g (1.5 oz)

COMPRESS BANDAGES



Features & Benefits:

- Used to stop bleeding without the need for separate gauze pads and gauze bandage rolls
- Provides superior absorbency
- Non-adherent pad will not disturb or stick to the wound
- Easy to apply without contaminating the pad
- Fast and easy to apply in emergency situations

Dimensions	Art. No.	P. Qty.
10.2 x 10.2 cm	898.000095	1
5.1 x 5.1 cm	898.000390	
15.2 x 15.2 cm	898.000490	
11.4 x 12.7 cm - Large with Elastic Tail	898.000550	
11.4 x 15.2 cm - Large with Elastic Tail	898.000630	

CPR FACE SHIELD, W/ONE-WAY FILTERED VALVE



Art. No. 898.000930 - P. Qty. 1

Features & Benefits:

- Single-use physical protection barrier
- Used as a physical barrier to prevent the victim's breath and body fluids from reaching the rescuer
- Helps reduce the risk of cross contamination and transference of viruses and bacteria between the victim and rescuer in situations where mouth-to-mouth assistance is required
- Semi-transparent face shield features a silicone diaphragm, one-way isolation valve with a built-in patient expiratory port
- Innovative construction includes a specially designed viral and bacterial filter for extra protection
- Can be used under extreme environmental temperatures
- Packaged in a compact, easy-to-open format
- Fits easily into a first aid kit, pocket, purse, knapsack or glove compartment
- Suitable for adults and children
- Latex-free
- 5.1 cm x 4.6 cm

ELASTIC SUPPORT/COMPRESSION BANDAGE



Features & Benefits:

- For use on elbows, knees, ankles or lower legs
- Reusable, lightweight, non-fraying bandage provides tension, firm support and compression to encourage proper healing of sprains and strains
- Constructed of 50% polyester, 30% acrylic, 20% rubber
- Complete with metal affixing clips
- Individually wrapped
- Roll is 4.5 m (5 yds) in length when stretched

Dimensions	Art. No.	P. Qty.
7.6 cm x 1.7 m	898.000350	1
5.1 cm x 1.7 m	898.000850	

SPLINTER FORCEPS



Features & Benefits:

- General purpose, economy forceps for the removal of splinters
- Ideal for portable first aid kits

Description	Art. No.	P. Qty.
Blunt End, 8.1 cm	898.000370	1
Fine Point 11.4 cm	898.000950	

NON-ADHERENT PADS



Features & Benefits:

- Non-adherent dressings consist of an absorbent cotton core pad bonded on the top and bottom with a soft, non-adherent perforated mylar film
- Used as a primary dressing over surgical incisions, lacerations, abrasions, non-draining and lightly draining wounds
- Will not disturb or stick to the wound
- Encourages air circulation and light fluid collection

Dimensions	Art. No.	PC/Unit	P. Qty.
5.1 x 7.6 cm	898.000025	25/bx	1
7.6 x 10.2 cm	898.000650	25/bx	
7.6 x 10.2cm - Telfa	898.000660	100/bx	
5.1 x 9.5 cm - Non-Adherent Island Dressings	898.000670	50/bx	

WIRE SPLINT ALUMINUM MESH



Art. No. 898.000430 - P. Qty. 1

Features & Benefits:

- Easily shaped to fit the required body contour
- Can be cut with scissors
- Can be worn during x-ray procedures

SPLINT PADDING



Art. No. 898.000440 - P. Qty. 1

Features & Benefits:

- Soft padding used in conjunction with a splint to provide comfort for the injured body part
- 10.2 x 20.3 cm

SPLINT SET - WOOD ASSORTED SIZES



Art. No. 898.000480 - 6 pcs

Features & Benefits:

- Lightweight, durable, smooth wooden splints for immobilization of arms, ankles, feet and legs; can also provide firm support for IV procedures
- Can be used with splint padding or abdominal pads for comfort
- Contains: 2 - 5.1 x 24.1 cm, 2 - 5.1 x 27.9 cm and 2 - 5.1 x 31.8 cm

ESMARCH BANDAGE



Art. No. 898.000520 - P. Qty. 1

Features & Benefits:

- Latex rubber bandage acts as a tourniquet to constrict blood flow
- 7.6 x 4.6 m

CONFORMING STRETCH BANDAGES



Features & Benefits:

- Soft, lightweight conforming bandages provide non-slip support and compression.
- Ideal for securing and retaining general dressings.
- Bandages conform and hold securely to body contours while allowing patient movement and soft tissue swelling
- 1-ply stretch rayon/nylon blend bandage.
- Provides low compression and support.

Dimensions	Art. No	P. Qty.
5.1 cm x 1.8 m - BOX	898.000530	1
7.6 cm x 1.8 m - BOX	898.000540	
10.2 cm x 1.8 m - BOX	898.000600	
5.1 cm x 1.8 m - PLASTIC	898.000560	
7.6 cm x 1.8 m - PLASTIC	898.000580	
10.2 cm x 1.8 m - PLASTIC	898.000590	

TEGADERM TRANSPARENT DRESSING



Art. No. 898.000020 - 6 pcs

Features & Benefits:

- Semi-permeable transparent surgical dressings used to protect abrasions, closed surgical wounds and pressure ulcers
- Barrier protects against outside contamination from liquids and bacteria
- Permits oxygen and moisture vapour transmission to encourage healing
- Allows for easy visibility of the skin, wound or site
- Frame style - features a breathable ID label for documenting dressing changes
- Easy to apply; comfortable and conformable
- Waterproof
- Latex-free
- Dimensions: 6 x 7 cm (2-3/8" x 2-3/4")

EYE DRESSING PADS



Features & Benefits:

- Oval-shaped eye pads made of absorbent cotton filler and enclosed in a non-woven fine mesh gauze.
- Suitable for eye injury care and medication application.
- Individually wrapped

Brand	Art. No	PC/Unit	P. Qty.
Safecross	898.000760	12/bx	1
Corident Curity	898.000770	50/bx	

EYE DRESSING KIT



Art. No. 898.000620 - P. Qty. 1

Features & Benefits:

- Contains 1 sterile eye pad and 1 eye shield

CEDERROTH SOFT FOAM BANDAGES



Cederroth Soft Foam Bandage is perfect for when you need to take care of a wound quickly and simply

Features & Benefits:

- The foam bandage is suitable for any kind of small wound in all hot, cold, wet and dry condition
- Glue-free plaster
- Can be used as both a plaster and a bandage
- Self-adhesive
- Can be used in water
- Elastic
- Does not stick to the wound or skin
- Fits in First Aid Station/Kit

Technical Info:

- Shelf life 5 years
- Contains latex

How To Use:

- Tear off a strip large enough to wind around the injured area once or twice
- In the event of heavy bleeding, the Soft Foam Bandage works as a 'cushion' to create a tourniquet



Package	Dimensions	Art. No.	P. Qty.
Pocket Size	6 cm x 40 cm	898.007813	1
Roll	6 cm x 2 m	898.007815	

PLASTIC BANDAGES - SPECIALITY



Features & Benefits:

- High-quality plastic bandages promote healing and offer protection against infection for minor cuts, scrapes, abrasions and burns
- Strong adhesive allows the dressing to stick and stay in place
- Highly absorbent, non-adherent pad keeps the wound clean and dry for faster healing
- Water-resistant
- Latex-free

Dimensions	Art. No	PC/Unit	P. Qty.
1 x 3.8 cm - Junior Size	898.000640	50/bx	1
2.2 cm Circles	898.000710		

PLASTIC BANDAGES



Features & Benefits:

- High-quality plastic bandages promote healing and offer protection against infection for minor cuts, scrapes, abrasions and burns
- Strong adhesive allows the dressing to stick and stay in place
- Highly absorbent, non-adherent pad keeps the wound clean and dry for faster healing
- Water-resistant
- Latex-free

Dimensions	Art. No	PC/Unit	P. Qty.
1.9 x 7.6 cm	898.000002	100/bx	1
Assorted Sizes	898.000003		
2.5 x 7.6 cm	898.000008		

FABRIC BANDAGES – SPECIALTY



Art. No. 898.000004 - 50 pcs

Features & Benefits:

- High-quality cotton/rayon woven fabric bandages cushion wounds and offer protection against infection for minor cuts, scrapes, abrasions and burns
- Open-weave construction permits the skin to breathe for faster healing
- Strong adhesive allows the dressing to stick and stay in place
- Highly absorbent, non-adherent pad keeps the wound clean and dry for faster healing
- Designed to provide coverage, protection and comfort for hard-to-bandage elbow, fingertip and toe areas
- Special construction permits maximum protection and flexibility
- Island pad construction seals out dirt and contaminants
- Fingertip Small - 4.4 x 5.1 cm

BUTTERFLY SKIN CLOSURES



Art. No. 898.000016 - 20 pcs

Features & Benefits:

- Waterproof plastic adhesive dressings designed to hold wounds together; support sutures (stitches) and provide post-surgical support after the removal of sutures
- Non-adherent to the wound
- Latex-free
- Assorted Sizes

STERI-STRIP CLOSURES

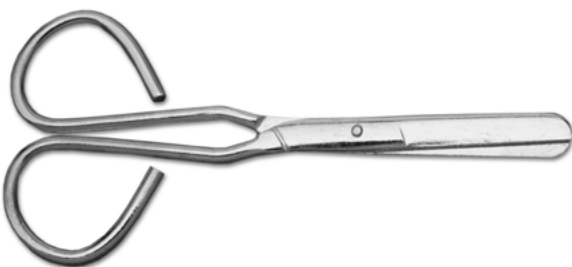


Art. No. 898.000017 - 19 pcs

Features & Benefits:

- Advanced skin closures, made of porous, non-woven rayon material, allow skin to breathe; reinforced with filaments to provide extra strength
- For use as a skin closure device for lacerations and surgical incisions
- For use with or without skin sutures (stitches) or staples
- Provides additional support after the removal of sutures or staples
- Latex-free
- Each box contains the following: 3 - 6 mm x 7.6 cm (1/4" x 3"); 10 - 6 mm x 10.2 cm (1/4" x 4"); 6 - 12 mm x 10.2 cm (1/2" x 4")

FIRST AID SCISSORS



Features & Benefits:

- General purpose bandage scissors for cutting dressings, gauzes, tapes, bandages, dressing strips, metal and metal/foam splints

Description	Art. No	P. Qty.
Surgical Blunt/Sharp 14 cm	898.000200	1
Bandage 14 cm	898.000205	
Blunt Tip Nickel Plated 10 cm	898.000940	

GAUZE SPONGES



Art. No. 898.000690 - 200 pcs

Features & Benefits:

- Low-linting gauze sponges made of 100% cotton
- Ideal for wound dressing and general cleaning
- 10.2 x 10.2 cm

GAUZE PADS



Features & Benefits:

- High-quality, absorbent 12-ply gauze pads
- For wound dressing and general cleaning
- Individually wrapped in water-resistant, tamper-proof packaging

Dimensions	Art. No	PC/Unit	P. Qty.
5.1 x 5.1 cm	898.000680	25/bx	1
5.1 x 5.1 cm	898.000750*	1200/cs	
10.2 x 10.2 cm	898.000730	4/bx	
10.2 x 10.2 cm	898.000740*	1200/cs	

OnDemand*

GAUZE BANDAGE ROLLS



Features & Benefits:

- Used to stop bleeding without the need for separate gauze pads and gauze bandage rolls
- Provides superior absorbency
- Non-adherent pad will not disturb or stick to the wound
- Easy to apply without contaminating the pad
- Moisture-proof packaging resists water and ensures sterility
- Fast and easy to apply in emergency situations
- Compressed and vacuum-packed for maximum use of space in first aid kits

Dimensions	Art. No	PC/Unit	P. Qty.
5.1 cm x 4.6 m	898.000021	4/bx	1
10.2 cm x 4.6 m	898.000400	2/bx	
2.5 cm x 4.6 m	898.000470	6/bx	
5.1 cm x 9.1 m	898.000500	1	
10.2 cm x 9.1 m	898.000510		
7.6 cm x 9.1 m	898.000610		

SURGICAL PLASTIC TAPE



Features & Benefits:

- Clear, easy-to-tear, perforated plastic tape
- Ideal for securing bulky dressings
- Stretches and conforms to body contours for greater holding power; suitable for active, hard-to-bandage areas such as knees, elbows or fingers
- Transparent for visualization of the skin and wound monitoring
- Perforated for easier, bi-directional tearing
- Easy to manage - even with gloves
- Leaves little or no residue
- Latex-free

Dimensions	Art. No	P. Qty.
Safecross - 2.5 cm x 4.6 m	898.000030	12/bx
3M Transpore - 2.5 cm x 9.1 m	898.000820	

FIRST AID POCKET GUIDE (ENGLISH/FRENCH)



Art. No. 898.000997 - 2/pk

Features & Benefits:

- Topics include: rescue hazards, breathing emergencies, unconsciousness, wounds and bleeding, fractures, eye injuries, poisoning, burns, heat/cold exposure, heart attack, diabetes, epilepsy and rescue/transportation
- Bilingual (English/French)
- 68 pages
- 8.3 x 10.2 cm

SECOND SKIN BURN PADS



Art. No. 898.000760 - 4 pcs

Features & Benefits:

- Moist transparent pads saturated with sterile water provide a comfortable protective barrier to encourage healing of minor burns and blisters
- Cools and soothes for temporary relief of pain
- Non-adherent dressing will not stick to the wound
- Each pad measures (width x length): 5.1 x 7.6 cm (2" x 3")

COBAN SELF-ADHERENT WRAP



Art. No. 898.000860 - 10 pcs

Features & Benefits:

- Rubber-based, porous self-adhering wrap designed for compression, tension and support without clips, pins or tape
- Uses include: supporting strains and sprains; wrapping splints and arm boards; holding and protecting primary and compression dressings
- Will not stick to skin or dressings
- Lightweight and comfortable
- 5.1 cm x 4.6 m
- Can be cut to size

EMESIS BASIN PLASTIC



Art. No. 898.000880* - P. Qty. 1

Features & Benefits:

- Multipurpose basin for soaking, oral hygiene and patient sickness needs
- Graduated with pressed lines and figures (by 100 mL and by 1 oz)
- Dimensions: length: 21.6 cm (8-1/2"), capacity: 500 mL (16.9 oz)

OnDemand*

TONGUE DEPRESSORS



Features & Benefits:

- High-quality, smooth wood sticks made of white birch
- Uses include: assisting choking victims, splinting and throat examinations

Dimensions	Art. No	PC/Unit	P. Qty.
1.9 x 15.2 cm	898.000890*	250/bx	1
1.9 x 15.2 cm	898.000900	25/bx	

OnDemand*

CLOTH TAPE



Features & Benefits:

- High-quality, bleached cotton tape with a zinc oxide adhesive backing
- Suitable for use under a wide range of temperatures and extreme humidity conditions

Dimensions	Art. No	P. Qty.
5.1 cm x 4.6 m	898.000830	1
2.5 cm x 2.3 m	898.000840	



SHOP ONLINE NOW!

SHOP.WURTH.CA

07 GENERAL TOOLS

2 Hand Tools

- 2 Application Guns
- 4 Files & Deburring
- 6 Cable/Bolt Cutters & Shears
- 7 Angled Gear & Accessories
- 8 Screwdrivers & Screwdriver Sets
- 39 Drive Bits, Allen Keys & Sets
- 59 Pliers & Vice Grips
- 79 Metal Cutters & Shears
- 83 Wrenches & Ratchets
- 103 Sockets & Extensions
- 122 Assortments
- 135 Chisels, Punches & Measuring
- 145 Staples, Hammer & Clamp Tools
- 153 Body Work & Rivet Tools

158 Pneumatic Tools

- 158 Pneumatic Grinders & Sanders
- 163 Air & Impact Tools
- 166 Wheel Nut Looseners
- 167 Grease Guns & Joint Cleaning
- 168 Air Regulator with Gauge
- 169 Pistol Vac
- 169 Blow Guns
- 171 Speedpress 8T Pushpull Riveter & Accessories
- 177 Pneumatic Rivet Gun
- 177 Pneumatic Tool Oil

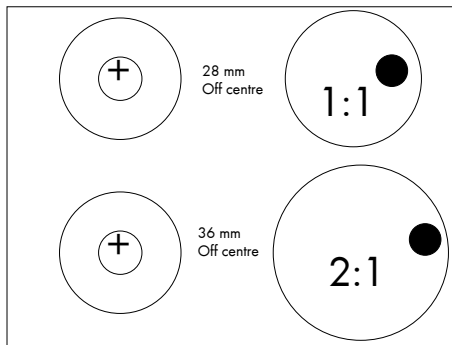
166 Electric Tools

167 Spray Bottles, Taps & Measuring Cups



*Images shown may vary from actual product

MULTI-PURPOSE DUAL CARTRIDGE CAULKING GUN



Mixing Ratio Cartridges:

Art. No. 891.0092

Pre-assembled gun, ready for 1:1 ratio use with 220 mL cartridges. Gun can also be changed-over for use on 2:1 applications.

Application:

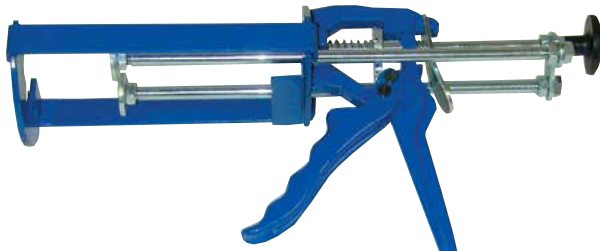
1. Place applicator with knob on the floor.
2. Put both thumbs on front plate and fingers behind the disk you desire to remove.
3. Move fingers forward toward thumbs until disk snaps off rod. If the disk is hard to remove, use a rubber mallet and gently tap until disk becomes loose.

Attaching push disk(s):

1. Put socket of push disk over rod shaft.
2. Push firmly onto the rod shaft until disk snaps in place. There should be two snapping sounds which will ensure the disks are firmly attached. Some twisting of the push disk may be required to achieve the second snap.
3. Both disks should be parallel with each other. This will ensure proper mixing of materials.

Note: To be used with Power Bond (Art. No. 893.450100 - replacement nozzles Art. No. 891.609) as a 2:1 ratio, and with Replast Easy (Art. No. 893.50002 to 893.50009 - replacement nozzles Art. No. 891.604) as a 1:1 ratio.

DUAL CARTRIDGE CAULKING GUN



Art. No. 891.0091

For application of Replast Easy cartridges with 220 mL contents

- Durable high-strength steel construction
- Ergonomic center balanced design
- Adjustable plungers to dispense 2:1 ratio cartridges
- Smooth, easy dispensing action
- Cartridge holder removable for easy cleaning
- Will not dispense product when not being squeezed

HEAVY DUTY CAULKING GUN



Art. No. 891.0095

- 26:1 thrust ratio.
- Extra durable heat-treated piston rod.
- Hammer finished zinc alloy handle with comfort grip.
- Precision sintered friction plate.
- Easy release star-burst reverse punched gripping plate.
- Ladder hook.
- Weight: 1.14 kg (2.5 lbs)

HEAVY DUTY CAULKING GUN



Art. No. 891.00

- For application of 310 mL cartridges.
- Will not dispense product when not being squeezed.

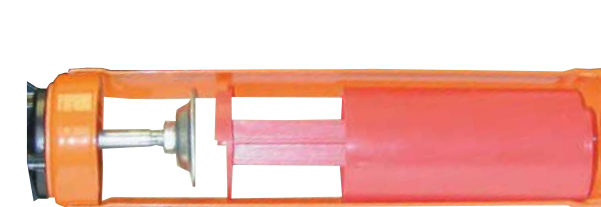
HEAVY DUTY DOUBLE CARTRIDGE CAULKING GUN



Art. No. 891.0096

- For use with 400 mL Replast Easy cartridges
- Heavy duty double cartridge gun for professional use
- converts easily for mixing ratio's of 1:1, 2:1, 4:1 and 10:1 using snap-in, snap-out push disks
- Extra durable, heat treated piston rod.
- Precision centered friction plate.
- Hammered finish alloy handle with comfort grip.
- 26:1 Thrust ratio

CARTRIDGE ADAPTER



Art. No. 891.9001

Adapts ordinary caulking gun for use with 50 mL Würth Fix cartridge (**Art. No. 890.480132, 891.480104**)

GUN FOR 50 ML WÜRTH FIX RIGID AND FLEXIBLE



Art. No. 891.0093

Special gun to be used with Würth Fix Rigid (**Art. No. 890.480132**) or Würth Fix Flexible (**Art. No. 891.480104**)

AUTOMOTIVE FILES, 6 PIECES



Art. No. 714.6174

- "Warding" files.
- Includes flat, flat pointed, round, triangular, square and half-round file.
- DIN 7283.
- 100 mm/ 3-15/16" long.
- Double cut.
- With wooden handle.
- In a plastic case.

AUTOMOTIVE FILES, 5 PIECES



Art. No. 714.6190

- Workshop files.
- Includes round, square, flat-hand, half-round, and triangular file.
- 200 mm/ 7-7/8" long.
- Double cut.

8" DIAMOND NEEDLE FILE SET 4 PC.



Art. No. 714.61962 • 4 pcs.

Premium Files for a faster, smoother and cleaner finish.

Features:

- 12" overall length with 8" blade
- Electroplated diamond coating onto steel
- Harder than conventional files
- Cuts 10X faster in ALL directions

- Smooth action filing
- Cuts into welds and hardened surfaces
- Convenient folding pouch

Advantages:

- Works in any direction
- Save time while working with hard or soft materials



Works in **any direction!**

QUICK DEBURRING TOOL



Art. No. 714.4207 - Qty. 1

Pivot mounted blade that adapts to contours of the workplace.

- Metal blade mount
- Sturdy design
- 150 mm Length

Application:

- Deburring of edges, pipes and metal sheets



Art. No. 714.42024 - P. Qty. 5

Spare Blades for Art. No. 714.4207

Application:

- Steel
- Aluminum



Art. No. 714.42025 - P. Qty. 5

Spare Blades for Art. No. 714.4207

Application:

- Brass
- Cast Iron
- Plastic

DEBURRING TOOL ASSORTMENT



Art. No. 965.42100

The efficient deburring system for steel, aluminum, brass, cast iron and plastics.

Contents: 32 pieces

- For universal use due to interchangeable blades.
- Thanks to turnable blades, holes and edges can be deburred from inside, outside or on both sides.



No.	Item	Content in Assortment	Art. No. *	Individual P. Qty.
1	Universal plastic handle	1	714.4201	1
2	Plastic handle with HSS cutting disc		714.4206	
3	Plastic handle with two HSS cutting discs		714.4205	
4	Holder for 12 mm, 20 mm and 30 mm countersinker	2	714.4203	1
5	Holder for 2.6 mm ø and 3.2 mm ø blades		714.4202	
6	Triangular blade	2	714.4204	5
7	Round blade with 90° angle		714.42061	
8	Round blade		714.42051	
9	HSS blade, removes outside and inside burrs simultaneously, 3.2mm ø		714.42026	
10	HSS blade for brass and cast iron, 3.2 mm ø		714.42025	
11	HSS blade for steel and aluminum 3.2 mm ø		714.42024	
12	HSS blade especially for straight edges, 3.2 mm ø		714.42027	
13	HSS blade with extra-fine tip for steel and aluminum, 3.2 mm ø		714.42028	
14	HSS blade with extra-fine tip for brass and cast parts, 3.2 mm ø		714.42029	
15	HSS blade, removes outside and inside burrs simultaneously, 2.6 mm ø		714.42023	
16	HSS blade for brass and cast iron 2.6 mm ø	714.42022		
17	HSS blade for steel and aluminum 2.6 mm ø	714.42021		
18	12 mm HSS countersinker, M7 female thread	1	714.42031	1
19	20 mm HSS countersinker, M7 female thread		714.42032	
20	30 mm HSS countersinker, M7 female thread		714.42033	
21	Allen key, 3 mm x 66 mm x 23 mm		715.3138	

* Individual replacement items are available through Special Orders.
Please anticipate 2-3 weeks for delivery.

TIGHT ACCESS TWEEZERS 14"



Art. No. 714.600

Go where no tool has gone before with the Tight Access Tweezers.

Surpassing the reach of the industry's longest available needle nose pliers, these tweezers have a slim, low-profile design that allows it to fit into tight areas that other pliers cannot. Unlike traditional pliers it provides a secure grip due to its ability to flex as pressure is applied, ensuring a strong grasp on the object being retrieved. Featuring interlocking teeth with a stainless steel body, this tool is ideal for grabbing a variety of objects including wires, hoses, gaskets, o-rings, fuses, hardware, and more.

Features:

- Precise interlocking jaws for a strong grip
- Slim profile design for tight access areas
- Extended length for greater versatility
- Surgical-grade stainless steel construction

30" BOLT CUTTER

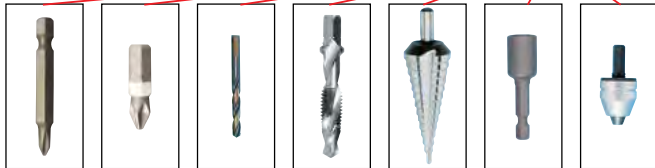


Art. No. 714.0682

Industrial bolt cutter

- Ideal for cutting rod, bolts, concrete form ties and fencing wire.
- Hardened alloy steel jaws.
- Length: 30"

ANGLED GEAR



Fast, simple 360° adjustment of handle for high flexibility.

Art. No. 614.9000

Powerful angled screwing gear for screwing and drilling work. Suitable for use with electric drills and battery-operated driver drills.

- High quality angled gear. Specially hardened steel enables maximum torque of up to 57 Nm (42 ft-lb) or maximum speed of 2000 rpm.
- Handle with soft grip. Secure hold and 360° adjustable handle. Optimum adjustment to respective work application.
- Compact design. Excellent for screwing in cramped and hard-to-reach places.
- Magnetic 1/4" bit mount with quick-change chuck. Secure holding of screws with magnetic effect. Suitable for all standard bits and bit drills with C6.3 and E6.3 mount.
- Mount: 1/4" hexagon (E6.3).
- Dimensions: 165 x 32 x 50 mm (L x W x H)(6.5" x 1.25" x 2")



MINI CHUCK



Art. No. 713.9204 - P. Qty. 1

- 1/4" hex shaft for use with Angled Gear, Art. No. 614.9000
- Drill size range: 0.4 mm - 6 mm (1/64" - 5/64")
- Suitable for both left and right-hand rotation

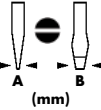
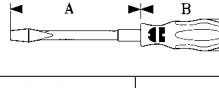

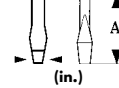
3K HEX BLADE SLOTTED SCREWDRIVER



Flexible 3K handle ensures perfect ergonomics, power transmission and working comfort.

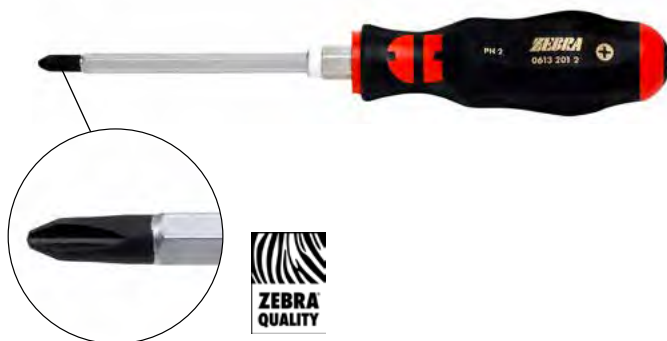
Screwdriver, flat slotted

- Blade: One-piece hexagon blade, brushed chromium-plated; torque adjustment matt nickel-plated, tempered, impact-resistant
- Large impact cap
- Output: DIN 5264-A, ISO 2380 with Black Point tip

 (mm)			 (mm)	 (in.)	Art. No.	P. Qty.
	A (mm)	B/C (mm)				
0.6 x 3.5	80	83/27	4/-	1/8 x 3 1/16"	613.200035*	1
0.8 x 4.5	90	96/31	5/8	3/16 x 3 3/5"	613.200045	
1.0 x 5.5	100	96/31	6/10	7/32 x 4"	613.200055	
1.2 x 7.0	125	106/35	6/10	9/32 x 5"	613.20007	
1.6 x 9.0	150	114/38	8/13	11/32 x 6"	613.20009	
1.6 x 10.0	175	114/38	8/13	3/8 x 7"	613.20010	
2.0 x 12.0	200	114/38	10/16	1/2 x 8"	613.20012	

* without impact cap and wrench aid


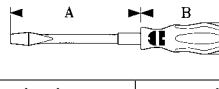


3K HEX BLADE PH SCREWDRIVER



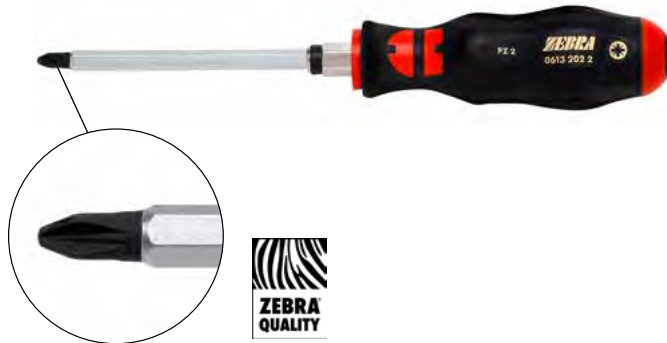
Flexible 3K handle ensures perfect ergonomics, force transmission and working comfort.

Phillips screwdriver

- Blade: One-piece hexagon blade, brushed chromium-plated; wrench adapter matt nickel-plated, tempered, impact-resistant
- Würth colour coding system
- Large impact cap
- Tip: DIN 5260-PH, ISO 8764-PH with Black Point tip

			 (mm)	 (in.)	Art. No.	P. Qty.
	A (mm)	B/C (mm)				
PH 1	80	96/31	5/8	3 1/8"	613.2011	1
PH 2	100	106/35	6/10	4"	613.2012	
PH 3	150	114/38	8/13	6"	613.2013	

3K HEX BLADE PZ SCREWDRIVER



Flexible 3K handle for perfect ergonomics, power transmission and working comfort

- Blade: One-piece hexagon blade, brushed chromium-plated; wrench adapter matt nickel-plated, tempered, impact-resistant
- Würth colour coding system
- Large impact cap
- Tip: ISO 8764-PZ with Black Point tip

			 (mm)	 (in.)	Art. No.	P. Qty.
	A (mm)	B/C (mm)				
PZ 1	80	96/31	5/8	3 1/8"	613.2021	1
PZ 2	100	106/35	6/10	4"	613.2022	
PZ 3	150	114/38	8/13	6"	613.2023	

3K ROUND BLADE TX SCREWDRIVER



Flexible 3K handle for perfect ergonomics, power transmission and operating comfort

- Blade: Round blade, brushed chromium-plated
- Tip: TX socket, with Black Point tip
- Würth colour coding system
- Screw symbol printed on handle end for quick identification

			 (in.)	Art. No.	P. Qty.
	A (mm)	B/C (mm)			
TX 8	60	83/27	2 3/8"	613.20308	1
TX 10			3 1/8"	613.20310	
TX 15	80	96/31	4"	613.20315	
TX 20			613.20320		
TX 25			613.20325		
TX 27	115	106/35	4 9/16"	613.20327	
TX 30			613.20330		
TX 40	130	114/38	5 3/16"	613.20340	

3K SLOTTED AND PH SCREWDRIVER SET



Art. No. 613.9015 5 pcs.

5 pieces, with three slotted and two Phillips screwdrivers for the automotive and metalwork trades

- Flexible 3K handle ensures perfect ergonomics, power transmission and working comfort
- Impact caps

Contents			Art. No.	P. Qty.
5-pc. set	1.0x5.5 / 1.2x7.0 / 1.6x9.0 mm	PH 1	PH 2 613.9015	1

3K SCREWDRIVER SET (TX)



Art. No. 613.9036 6 pcs.

6 pieces, with flexible 3K handle for perfect ergonomics, power transmission and operating comfort

- Blade: Round blade, brushed chromium-plated
- Tip: TX socket, with Black Point tip
- Würth colour coding system
- Screw symbol printed on handle end for quick identification

			 (in.)	Art. No.	P. Qty.
	A (mm)	B/C (mm)			
TX 8	60	83/27	2 3/8"	613.20308	1
TX 10	80	96/31	3 1/8"	613.20310	
TX 15				613.20315	
TX 20	100	106/35	4"	613.20320	
TX 25				613.20325	
TX 30				613.20330	



ZEBRA® 3K HANDLE

The flexible 3-component handle ensures an optimal, sensitive seat in the hand and allows connection with the robust design also the highest power transmission.

SLOTTED SCREWDRIVERS



Round blade

- Blade: Matt chrome-plated
- Tip: DIN 5264-A, ISO 2380, Black Point
- Standard: DIN 5265

			 (in.)	Art. No.	P. Qty.
	A (mm)	B/C (mm)			
0.5 x 3.0	80	73/20	1/8" x 3 1/8"	613.23103	1
1.2 x 6.5	150	106/35	1/4" x 6"	613.231065	
1.6 x 10.0	200	114/38	3/8" x 8"	613.23110	



Round blade, narrow

- Blade: Matt chrome-plated
- Tip: DIN 5264-A, ISO 2380, Black Point
- Standard: SMS SS 2830, DIN 5265

			 (in.)	Art. No.	P. Qty.
	A (mm)	B/C (mm)			
0.6 x 3.5	100	83/27	1/8" x 4"	613.231735	1
1.0 x 5.5	150	96/31	7/32" x 6"	613.231755	



Round blade, short

- Blade: Matt chrome-plated
- Tip: DIN 5264-A, ISO 2380, Black Point
- Standard: DIN 5265

			 (in.)	Art. No.	P. Qty.
	A (mm)	B/C (mm)			
1.2 x 8.0	25	62/31	5/16 x 1"	613.25108	1



Round blade, long

- Blade: Matt chrome-plated, long model
- Tip: DIN 5264-A, ISO 2380, Black Point
- Standard: DIN 5265

			 (in.)	Art. No.	P. Qty.
	A (mm)	B/C (mm)			
1.0 x 5.5	200	96/31	7/32 x 8"	613.261055	1
1.2 x 8.0	300	114/38	5/16 x 12"	613.26108	

SLOTTED SCREWDRIVERS



Hexagon blade, impact cap

- Large impact cap
- Tip: DIN 5264-A, ISO 2380, Black Point
- Wrench adapter

 A (mm) B (mm)	 A (mm) B/C (mm)		 (mm)	 (in.)	Art. No.	P. Qty
	A (mm)	B/C (mm)				
0.8 x 4.5	90	96/31	5/8	3/16 x 3 3/5"	613.321045	1
1.0 x 5.5	100	96/31	6/10	7/32 x 4"	613.321055	
1.2 x 7.0	125	106/35		9/32 x 5"	613.32107	
1.6 x 9.0	150	114/38	8/13	11/32 x 6"	613.32109	
1.6 x 10.0	175			3/8 x 7"	613.32110	
2.0 x 12.0	200	120/40.5	10/16	1/2 x 8"	613.32112	
2.5 x 14.0	250			9/16 x 10"	613.32114	



Hexagon blade and wrench adapter

- Blade: Matt chrome-plated
- Tip: DIN 5264-A, ISO 2380, Black Point

 A (mm) B (mm)	 A (mm) B/C (mm)		 (mm)	 (in.)	Art. No.	P. Qty
	A (mm)	B/C (mm)				
0.6 x 3.5	80	83/27	4/-	1/8 x 3 1/16"	613.421035*	1
0.8 x 4.0	90	96/31	5/8	5/32 x 3 5/8"	613.421004*	
1.0 x 5.5	100	96/31		7/32 x 4"	613.421055	
1.2 x 6.5	125	106/35	6/10	1/4 x 5"	613.421065	
1.6 x 8.0	150	114/38	8/13	5/16 x 6"	613.42108	
1.6 x 10.0	175			3/8 x 7"	613.42110	
2.0 x 12.0	200	120/40.5	10/16	1/2 x 8"	613.42112	

* without wrench adapter



Laser tip, hexagon blade

- Ultra-secure seating of screwdriver in screw head
- Better screw grip for improved torque transfer
- Less slippage means improved

- safety as well as less damage to screws and sensitive surfaces
- No repeated placement when screwing
- Blade: Brushed chromium-plated
- Tip: DIN 5264-A, ISO 2380, laser tip, Black Point



Laser-tip profile
Laser-cut blade tip for a sharp-edged surface structure

 (mm) A (mm) B (mm)	 A (mm) B/C (mm)		 (mm)	 (in.)	Art. No.	P. Qty
	A (mm)	B/C (mm)				
0.6 x 3.5	75	83/27	4/-	1/8 x 3 1/16"	613.424035	1
0.8 x 4.0	90	96/31		5/32 x 3 5/8"	613.42404	
1.0 x 5.5	100	96/31	5/8	7/32 x 4"	613.424055	
1.2 x 6.5	125	106/35	6/10	1/4 x 5"	613.424065	
1.6 x 8.0	150	114/38	8/13	5/16 x 6"	613.42408	
1.6 x 10.0	175			3/8 x 7"	613.42410	

PH SCREWDRIVER



Round blade

- Blade: Matt chrome-plated
- Tip: DIN 5260-PH, ISO 8764-PH, Black Point
- Standard: DIN 5262, SMS SS 2831

+			 (in.)	Art. No.	P. Qty
	A (mm)	B/C (mm)			
PH 1	80	96/31	3 1/8"	613.23201	1
PH 2	100	106/35	4"	613.23202	
PH 3	150	114/38	6"	613.23203	
PH 4	200	120/41	8"	613.23204	



Round blade, short

- Blade: Matt chrome-plated
- Tip: DIN 5260-PH, ISO 8764-PH, Black Point
- Standard: DIN 5262, SMS SS 2831

+			 (in.)	Art. No.	P. Qty
	A (mm)	B/C (mm)			
PH 1	25	62/31	1 3/4"	613.2521	1
PH 2				613.2522	



Round blade, long

- Blade: Matt chrome-plated, long model
- Tip: DIN 5260-PH, ISO 8764-PH, Black Point
- Standard: DIN 5262, SMS SS 2831

+			 (in.)	Art. No.	P. Qty
	A (mm)	B/C (mm)			
PH 1	300	96/31	12"	613.2621	1
PH 2		106/35		613.2622	

SCREWDRIVER WITH FLEXIBLE SHAFT



For hexagon head screws

- Blade: round, flexible
- Blade length: 150 mm
- Tip: Hex head
- Head: bright nickel-plated, inner bore for projecting threaded shafts
- Standard: Tip DIN 3125
- Application: hard-to-reach places, hose clamps

Wrench Size	Handle Length / Handle Width	Art. No.	P. Qty.
6 mm	96 / 31 mm	613.28606	1
7 mm	106 / 35 mm	613.28607	

PH SCREWDRIVERS



Hexagon blade, wrench adapter

- Blade: Matt chrome-plated
- Tip: DIN 5260-PH, ISO 8764-PH, Black Point

+			 (mm)	 (in.)	Art. No.	P. Qty
	A (mm)	B/C (mm)				
PH 1	80	96/31	5/8	3 1/8"	613.4221	1
PH 2	100	106/35	6/10	4"	613.4222	
PH 3	150	114/38	8/13	6"	613.4223	
PH 4	200	120/40.5	10/16	8"	613.4224	



Hexagon blade, impact cap, wrench adapter

- Large impact cap
- Tip: DIN 5260-PH, ISO 8764-PH, Black Point

+			 (mm)	 (in.)	Art. No.	P. Qty
	A (mm)	B/C (mm)				
PH 1	80	96/31	5/8	3 1/8"	613.3221	1
PH 2	100	106/35	6/10	4"	613.3222	
PH 3	150	114/38	8/13	6"	613.3223	
PH 4	200	120/40.5	10/16	8"	613.3224	



Laser tip, hexagon blade, wrench adapter

- Ultra-secure seating of screwdriver in screw head
- Better screw grip for improved torque transfer
- Less slippage means improved safety as well as less damage to screws and sensitive surfaces
- No repeated placement when screwing
- Blade: Brushed chromium-plated
- Tip: DIN 5260-PH, ISO 8764-PH, laser tip, Black Point



Laser-tip profile
Laser-cut blade tip for a sharp-edged surface structure

+			 (mm)	 (in.)	Art. No.	P. Qty
	A (mm)	B/C (mm)				
PH 1	80	96/31	5/8	3 1/8"	613.4251	1
PH 2	100	106/35	6/10	4"	613.4252	
PH 3	150	114/38	8/13	6"	613.4253	

PZ SCREWDRIVERS



Hexagon blade, wrench adapter

- Blade: Matt chrome-plated
- Tip: ISO 8764-PZ, Black Point

+			 (mm)	 (in.)	Art. No.	P. Qty
	A (mm)	B/C (mm)				
PZ 1	80	96/31	5/8	3 1/8"	613.4231	1
PZ 2	100	106/35	6/10	4"	613.4232	
PZ 3	150	114/38	8/13	6"	613.4233	
PZ 4	200	120/40.5	10/16	8"	613.4234	



Round blade, short

- Blade: Round blade, brushed chromium-plated
- Tip: ISO 8764-PZ, Black Point
- Standard: DIN 5262

⊕			 (in.)	Art. No.	P. Qty
	A (mm)	B/C (mm)			
PZ 1	25	62/31	1 3/4"	613.2531	1
PZ 2				613.2532	



Round blade, cross recess head

- Blade: Round blade, brushed chromium-plated
- Tip: ISO 8764-PZ, Black Point
- Standard: DIN 5262

⊕			 (in.)	Art. No.	P. Qty
	A (mm)	B/C (mm)			
PZ 1	80	96/31	3 1/8"	613.2331	1
PZ 2	100	106/35	4"	613.2332	
PZ 3	150	114/38	6"	613.2333	
PZ 4	200	120/41	8"	613.2334	

TX SCREWDRIVER, ROUND BLADE



- Blade: Round blade, matt chrome-plated
- Tip: TX socket, Black Point

			 (in.)	Art. No.	P. Qty.
	A (mm)	B/C (mm)			
TX 10	80	83/27	3 1/8"	613.43410	1
TX 15		96/31		613.43415	
TX 20	100		106/35	4"	
TX 25		613.43425			
TX 27	115	106/35	4 9/16"	613.43427	
TX 30				613.43430	
TX 40	130	114/38	5 3/16"	613.43440	
TX 45				613.43445	
TX 10	250	83/27	10"	613.46410	
TX 20		96/31		613.46420	
TX 25		106/35		613.46425 *NEW*	
TX 30				613.46430	

SQUARE SCREWDRIVER SET



Art. No. 613.43910 4 pcs.

Features:

- 2K Handle for comfort
- Colour coded tips

	Size	Blade length (mm)	Blade width (mm)	Art. No.	P. Qty.
SQ#0	100	100	6	613.4390	1
SQ#1				613.4391	
SQ#2				613.4392	
SQ#3				613.4393	

SCREWDRIVER ASSORTMENT WOODEN HANDLE



Art. No. 613.9405 5 pcs.

One-piece round blade with wrench adapter

- Blade: Bright chrome-plated, tempered, impact-resistant
- Tip: Black Point
- Handle: Screwdriver handle, beech wood, with double leather cap

Contents: 5 pieces

- 2 screwdrivers, wooden handle, slotted (1.0 x 5.5 mm; 1.2 x 7.0 mm)
- 3 screwdrivers, wooden handle, Philips (PH) PH 1, 2, 3



 (mm)	Art. No.		Art. No.	P. Qty.
1.0 x 5.5 x 100	613.041055	PH 1	613.0421	1
1.2 x 7.0 x 125	613.04107	PH 2	613.0422	
1.6 x 9.0 x 150	613.04109		613.0422	

SCREWDRIVER SET, ROUND BLADE PH/SLOTTED



Art. No. 613.92326 6 pcs.

Contents: 6 pieces

- 0.6 x 3.5 x 100 mm, 1.0 x 5.5 x 125 mm, 1.2 x 6.5 x 150 mm, 1.2 x 8.0 x 175, PH1, PH2

(mm)	Art. No.		Art. No.	P. Qty.
0.6 x 3.5 x 100	613.231735	PH 1	613.23201	1
1.0 x 5.5 x 125	613.231055	PH 2	613.23202	
1.2 x 6.5 x 150	613.231065			
1.2 x 8.0 x 175	613.23108			

SCREWDRIVER SET, HEXAGON BLADE PH/SLOTTED



Art. No. 613.94226 6 pcs.

Hexagon blade and wrench adapter for automotive and metalwork trades.

- Blade: Brushed chromium-plated
- 1 each of slotted screwdriver with hexagon blade and torque adjustment 0.6 x 3.5 x 75; 1.0 x 5.5 x 100; 1.2 x 6.5 x 125; 1.6 x 8.0 x 150
- 1 each of PH screwdriver with hexagon blade and torque adjustment PH 1; PH 2

(mm)	Art. No.		Art. No.	P. Qty.
0.6 x 3.5 x 75	613.421035	PH 1	613.4221	1
1.0 x 5.5 x 100	613.421055	PH 2	613.4222	
1.2 x 6.5 x 125	613.421065			
1.6 x 8.0 x 150	613.42108			

SLOTTED, PH SCREWDRIVER ASSORTMENT



Art. No. 965.905501

Screwdriver, 8pc System Assortment 4.4.1

- Number of pieces in assortment/set - 8pc
- Size foam section - 4.4.1
- Width x height x depth - 231 x 38 x 335 mm
- Décor - Carbon appearance



Description	Art. No.	P. Qty.
System insert 4.4.1, screwdriver empty	0955905501	1
PH round blade screwdriver short PH1X25	613.2521	
PH round blade screwdriver short PH2X25	613.2522	
Slotted screwdriver hex blade impact cap 0.8X4.5X90	613.321045	
Slotted screwdriver hex blade impact cap 1.2X7X125	613.32107	
Slotted screwdriver hex blade impact cap 1.6X9X150	613.32109	
PH screwdriver hex blade impact cap PH1X80	613.3221	
PH screwdriver hex blade impact cap PH2X100	613.3222	
Screwdriver slotted hexagon blade 0.6X3.5X80	613.421035	

Item Only Available by Special Order

TX SCREWDRIVER ASSORTMENT



Art. No. 965.905502

Screwdriver, 7pc System Assortment 4.4.1

- Number of pieces in assortment/set - 7pc
- Size foam section - 4.4.1
- Width x height x depth - 231 x 38 x 335 mm
- Décor - Carbon appearance
- Torx with hole screwdriver



Description	Art. No.	P. Qty.
System insert 4.4.1, combination wrench empty	0955905502	1
Screwdriver TX with hole - TX-HO-TX10xL80mm	0613434810	
Screwdriver TX with hole - TX-HO-TX15xL80mm	0613434815	
Screwdriver TX with hole - TX-HO-TX20xL100mm	0613434820	
Screwdriver TX with hole - TX-HO-TX25xL100mm	0613434825	
Screwdriver TX with hole - TX-HO-TX27xL115mm	0613434827	
Screwdriver TX with hole - TX-HO-TX30xL115mm	0613434830	
Screwdriver TX with hole - TX-HO-TX40xL130mm	0613434840	

Currently only available as a set. Individual items are special order.

TX SCREWDRIVER SET



Art. No. 613.9348 8 pcs.

- 1 x screwdriver set TX 8 pcs.
- Blade: Round blade, brushed chromium-plated, tip: TX socket, Black Point

	A (mm)	Art. No.	P. Qty.
TX 10	80	613.43410	1
TX 15		613.43415	
TX 20	100	613.43420	
TX 25		613.43425	
TX 27		613.43427	
TX 30	115	613.43430	
TX 40	130	613.43440	
TX 45		613.43445	

AW® SCREWDRIVER SET



Art. No. 613.9375 5 pcs.

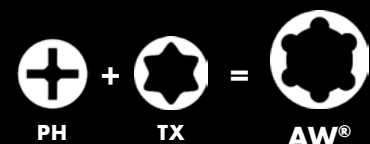
Benefits of AW drive system over previous drive systems:

- Improved power transmission
- Longer service life
- Optimal centring
- Largest possible contact surface of the bit in the screw drive – ejection forces
- Ejection forces (come-out) virtually zero. Even force distribution prevents damage to the surface-protection coating and therefore ensures better resistance to corrosion
- 1 each of screwdriver AW® drive with circular blade
AW® 10; AW® 20; AW® 25; AW® 30
- 1 screwdriver AW® drive with hexagon blade, short AW® 20

	A (mm)	Art. No.		A (mm)	Art. No.	P. Qty.
AW® 10	80	613.43710	AW® 30	100	613.43730	1
AW® 20	100	613.43720	Short AW® 20	25	613.21720	
AW® 25		613.43725				

THE AW® DRIVE


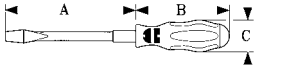


With its patented shape, the AW® drive combines the advantages of TX and PH / PZ drives. More power and optimum power transmission by a very good fit in the screw. The screw does not stagger, the tip of the screwdriver does not tend to slip during rotation.



SCREWDRIVER WITH 1/4" QUICK-CHANGE CHUCK




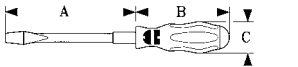


- Blade: Hexagon blade with wrench adapter, matt chrome-plated
- Head: Bright nickel-plated
- Tip: DIN 3126-D 6.3

 (in.)			 (mm)	 (in.)	Art. No.	P. Qty
	A (mm)	B/C (mm)				
1/4"	110	106/35	6/10	4 3/8"	613.21021	1



Flexible shaft


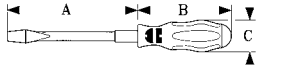

- Blade: Hexagon blade with wrench adapter, matt chrome-plated
- Head: Bright nickel-plated
- Tip: DIN 3126-D 6.3

 (in.)			 (mm)	 (in.)	Art. No.	P. Qty
	A (mm)	B/C (mm)				
1/4"	177	106/35	-	6"	613.28021	1



Flexible shaft


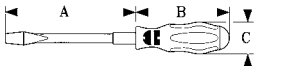

- Blade: Round, bright chromium-plated
- Tip: DIN 3120-A 6.3

 (in.)			 (in.)	Art. No.	P. Qty
	A (mm)	B/C (mm)			
1/4"	150	106/35	6"	613.4733	1

SCREWDRIVER WITH 1/4" BIT CHUCK



- Blade: Round blade with magnet
- Head: Bright nickel-plated
- Tip: DIN 3126-D 6.3

 (in.)			 (in.)	Art. No.	P. Qty
	A (mm)	B/C (mm)			
1/4"	100	106/35	4"	613.43031	1

SCREWDRIVER WITH 1/4" TIP



One-piece blade

- Blade: Round, bright chromium-plated
- Tip: DIN 3120-A 6.3
- With ratchet adapter



 (in.)			 (in.)	Art. No.	P. Qty
	A (mm)	B/C (mm)			
1/4"	110	106/35	4 3/8"	613.430310	1



- Blade: Round, bright chrome-plated
- Tip: DIN 3126-D 6.3
- Application: Mounting socket wrench inserts, square.

 (in.)			 (in.)	Art. No.	P. Qty
	A (mm)	B/C (mm)			
1/4"	110	106/35	4 3/8"	613.430311	1

MINI RATCHET SCREWDRIVER



10-piece bit strip + PH2 bit

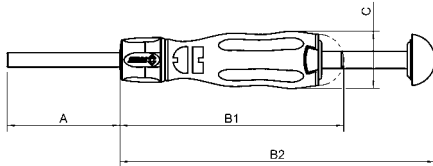
- Handle: 2K handle
- Blade: Short bit holder blade with magnet, bright chrome-plated
- Tip: DIN 3126-D 6.3
- For high torque applications in tight spaces

Bits included (1 each):	
	1/4"
	5.5
	4 mm, 5 mm
	PH 1, PH 2
	TX 10, TX 15, TX 20, TX 25, TX 30



 (in.)					Art. No.	P. Qty
	A (mm)	B (mm)	C (mm)	A2 (mm)		
1/4"	26	70	38	20	613.63050	1

RATCHET MAGAZINE SCREWDRIVER



(in.)	A (mm)	B1/B2 (mm)	C (mm)
1/4"	80	147/207	37.5

*Without bits

FOR AUTOMOTIVE / METALWORK			
Art. No. 613.6103 13 pcs.			
Designation	Tip	Art. No.	P. Qty
Ratchet Screwdriver, without bits		613.6100	1
PH 1		614.176274	
PH 2		614.176461	
TX 10		614.3110	
TX 15		614.3115	
TX 20		614.3120	
TX 25		614.3125	
TX 30		614.3130	
Allen 4 mm		614.17694	
Allen 5 mm		614.17695	
Allen 6 mm		614.17696	
Slotted, 0.6 x 4.5 mm		614.175652	
1/4"		614.176700	

Equipped with 12 bits

- Blade: Circular blade with magnet, bright chrome-plated
- Tip: DIN 3126-D 6.3
- Powerful ratchet screwdriver
- 28 teeth, max. torque over 20 Nm.
- Advantage of the ratchet function
- No need to reposition hand. This enables fast, efficient operation in any assembly situation.
- Bit magazine for max. 12 bits
- Extendible, rotating magazine lets you find the bit you need quickly.
- 1/4"-bit with colour coding system
- Fast location of bits using Würth colour coding system - the right bit for every screw.

FOR WOOD / CONSTRUCTION			
Art. No. 613.6104 13 pcs.			
Designation	Tip	Art. No.	P. Qty
Ratchet Screwdriver, without bits		613.6100	1
AW [®] 10		614.5110	
AW [®] 20		614.5120	
AW [®] 30		614.5130	
PZ 1		614.176651	
PZ 2		614.176652	
TX 10		614.3110	
TX 15		614.3115	
TX 20		614.3120	
TX 25		614.3125	
TX 30		614.3130	
Slotted, 0.6 x 4.5 mm		614.175652	
1/4"		614.176700	



Magnetic blade mount for 1/4" bits



Easy removal of the desired bit



Secure closing thanks to "snap lock"

MAGAZINE SCREWDRIVER



**7 BITS
ONE TOOL**

Art. No. 613.6111

Features:

- Unique bit magazine design
- Rotating 7 Bit holder design
- Secure bit locking
- Handle: 1-component handle
- Blade: Steel blade with black surface
- Perfect for mobile applications
- Gift box design

Bits	Qty.
Slotted 0.8 x 5.5	1
PH1	
PH2	
TX15	
TX20	
Hexagon 4.0 mm	
Hexagon 5.0 mm	

*Bits are not available individually.

PISTOL GRIP RATCHET MAGAZINE SCREWDRIVER



**With
LED
light!**

High-performance ratchet screwdriver

- 3-position adjustment wheel, adjustable with one hand, easy to change direction whilst working without using the other hand
- Magnet ensures a secure grip on bits and screws
- 45 teeth, max. torque of up to 40 Nm

2K grip for optimum ergonomic work

- Can be used as a standard screwdriver in the straight position or as a pistol grip in the 60° position thanks to the adjustable handle

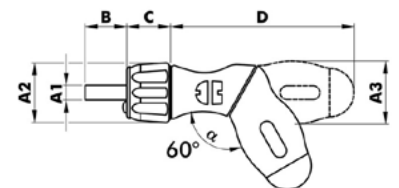
LED technology

- Working area is always well lit, lights the screw directly
- Especially suitable for dark corners

Blade: Short bit holder blade with magnet, brushed chromium-plated

Output: DIN 3126-D 6.3

Sealing cap with bit magazine for a total of 6 bits



(in.)	A1 (mm)	A2 (mm)	A3 (mm)	B (mm)	C (mm)	D (mm)	Art. No.	P. Qty.
1/4"	10	37	40	25	26	113	613.6400	1

REVOLVER LED SCREWDRIVER SET

Art. No. 613.64037 37 pcs.

Complete screwdriver assortment with the most common bits, a broad range of adapters and socket wrench inserts

ZEBRA® 2K gun grip for ergonomically-optimized working conditions

- Can be used as a "standard screwdriver" in the straight position or in the 60° gun position thanks to the adjustable grip
- The grip is secure and comfortable to hold in the gun position and is optimally positioned to the screw

LED technology

- The working area is always well lit. The light falls directly onto screw connection
- Especially suitable for dark areas

High-performance ratchet screwdriver

- No more regripping required. And that enables fast, efficient operation in any assembly situation
- 45 teeth, max. torque of 40 Nm

Sealing cap with bit magazine for a total of six bits

- Storage space in handle, 1/4" bits with Würth color coding system for fast location of bits

Large number of different adapters, bit holders and socket wrench inserts

- Contains the right short or long version for any application, also with telescopic magnet



Designation	Tip	Length (mm)	Art. No.	P. Qty		
Gun Screwdriver, LED light with short, magnetic bit holder, 70 mm		164	613.6400	1		
1/4" socket wrench inserts, hexagon						
Size 4 mm		22	713.111104			
Size 5 mm			713.111105			
Size 5.5 mm			713.111155			
Size 6 mm			713.111106			
Size 7 mm			713.111107			
Size 8 mm			713.111108			
Size 9 mm			713.111109			
Size 10 mm			713.111110			
Size 11 mm			713.111111			
Size 12 mm			713.111112			
Size 13 mm			713.111113			
Size 14 mm			713.111114			
1/4" bits						
PH 1					25	614.176274
PH 2	614.176461					
PH 3	614.176648					

Designation	Tip	Length (mm)	Art. No.	P. Qty
1/4" Bits				
PZ 1		25	614.176651	1
PZ 2			614.176652	
Slotted 0.8x5.5mm		25	614.175653	
Slotted 1.2x8.0mm			614.175656	
TX 10		25	614.3110	
TX 15			614.3115	
TX 20			614.3120	
TX 25			614.3125	
TX 27			614.3127	
TX 30			614.3130	
TX 40			614.3140	
Allen Head, 3 mm				
Allen Head, 4 mm	614.17694			
Allen Head, 5 mm	614.17695			
Allen Head, 6 mm	614.17696			
1/4" - adapter parts				
Extension		70 mm	613.710	1
Extension		150 mm	613.711	
Magnetic bit holder		150 mm	613.712	
Flexible bit holder		175 mm	613.713	
Telesc. magn. holding force 600 g		105 - 485 mm	613.714	

SCREWDRIVER ASSORTMENT



Art. No. 965.905916

Screwdriver Set, 21pc System Assortment 8.4.1

- Number of pieces in assortment/set - 21pc
- Size foam section - 8.4.1
- Width x height x depth - 462 x 38 x 335 mm
- Décor - Carbon appearance



Description	Art. No.	P. Qty.
System insert 4.4.1, combination wrench empty	0955905916	
Slotted screwdriver round blade short 1x5 5x25	061325105	
PH round blade screwdriver short PH2X25	613.2522	
ZEBRA HOSE CLAMP DRIVER SW6	613.28606	
ZEBRA HOSE CLAMP DRIVER SW7	613.28607	
Slotted screwdriver hex blade impact cap 2X12X200	613.32112	
Slotted screwdriver hex blade laser tip 0.6X3.5X75	613.424035	
Slotted screwdriver hex blade laser tip 0.8X4.0X90	613.42404	
Slotted screwdriver hex blade laser tip 1.2X6.5X125	613.424065	
PH screwdriver hexagon blade laser tip PH1X80	613.4251	
PH screwdriver hexagon blade laser tip PH2X100	613.4252	
PH screwdriver hexagon blade laser tip PH3X150	613.4253	1
TX screwdriver TX6X60	061343406	
TX screwdriver TX7X60	061343407	
TX screwdriver TX9X60	061343409	
TX screwdriver TX10X80	613.43410	
TX screwdriver TX15X80	613.43415	
TX screwdriver TX20X100	613.43420	
TX screwdriver TX25X100	613.43425	
TX screwdriver TX27X115	613.43427	
TX screwdriver TX30X115	613.43430	
TX screwdriver TX40X130	613.43440	

Item Only Available by Special Order

PRECISION SCREWDRIVERS

Ideal for all fine and delicate screw work in electrical and precision engineering

Rotatable centring head with large finger recess

- For optimised work in the watchmaker position

Centring cap marked with screw symbol and size

- Easy and rapid identification

Multi-component handle with large, soft-grip components

- Comfortable and easy to use

Quick-action rotating zone

- For fast rotation in the full hand position

Chrome-plated blades made from highly tempered special steel

- Optimum corrosion protection

Black Point tip

- Precision fitting

Blade: Circular blade, brushed chromium-plated

Output: DIN 5264-A, ISO 2380, Black Point

Slotted Precision Screwdriver



 A B (mm)	 A (mm) B/C (mm)		 (in.)	Art. No.	P. Qty
	A (mm)	B/C (mm)			
0.16 x 0.8	40	100/20	1 9/16"	613.480008	1
0.18 x 1.0				613.480010	
0.25 x 1.2				613.480012	
0.30 x 1.5				613.480015	
0.30 x 1.8	60		2 3/8"	613.480018	
0.40 x 2.0				613.480020	
0.40 x 2.5	75		3"	613.480025	
0.50 x 3.0				613.480030	
0.60 x 3.5	100	4"	613.480035		

PH Precision Screwdriver



	 A (mm) B/C (mm)		 (in.)	Art. No.	P. Qty	
	A (mm)	B/C (mm)				
PH 000	40	100/20	1 9/16"	613.481000	1	
PH 00				613.48100		
PH 0			60	2 3/8"		613.4810
PH 1						80

SLOTTED & PH, PRECISION SCREWDRIVER SET



Art. No. 613.4892 7 pcs.

Blade: Round blade, matte chrome-plated.

Tip: Internal TX, Black Point

mm	Art. No.	+	Art. No.	P. Qty.
0.30 x 1.5 x 40	613.480015	PH 00	613.48100	1
0.4 x 2.0 x 60	613.480020	PH 0	613.48110	
0.4 x 2.5 x 75	613.480025	PH 1	613.48111	
0.5 x 3.0 x 75	613.480030			

TX PRECISION SCREWDRIVER SET



Art. No. 613.4891 7 pcs.

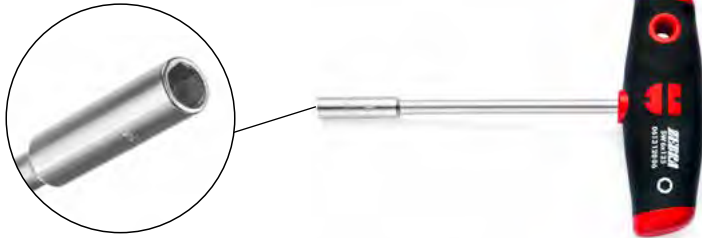
Blade: Round blade, matte chrome-plated.

Tip: Internal TX, Black Point

Designation	Art. No.	P. Qty.
TX 5	613.48205	1
TX 6	613.48206	
TX 7	613.48207	
TX 8	613.48208	
TX 9	613.48209	
TX 10	613.48210	
TX 15	613.48215	


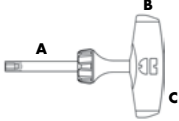
Note: Articles in red are special orders only

T-HANDLE SOCKET WRENCH

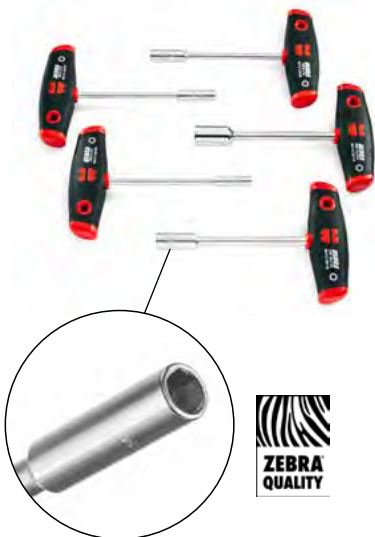


For hexagon head screws

- Blade: Round blade, chrome-plated
- Tip: DIN 475/2
- Inner bore for protruding threaded shafts
- Standard: DIN 3125


 (mm)				Art. No.	P. Qty.
	A (mm)	B/C (mm)	A (in.)		
7	125	35/104	5"	613.12007	1
8				613.12008	
10				613.12010	
13				613.12013	
16				613.12016	
17	39/117	613.12017			
8	200	35/104	8"	613.12108	
10	230		9 3/16"	613.12110	
13			613.12113		
8	300		12"	613.12208	
10				613.12210	
13		613.12213			

T-HANDLE, SOCKET WRENCH SET



Art. No. 613.91205 5 pcs.

- Blade: Circular blade, nickel-plated
- Output: DIN 475/2
- Inner bore for protruding threaded shafts
- Standard: DIN 3125

 (mm)	Blade Length (mm)	Art. No.	P. Qty.
6	125	613.12006	1
7		613.12007	
8		613.12008	
10		613.12010	
13		613.12013	

T-HANDLE HEXAGON BLADE WITH SIDE TIP



Features:

- Integrated side tip
- High-quality blade
- One-piece blade
- Multi-component handle comprising solid core and soft casing
- Black Point tip

 (mm)				Art. No.	Tip	P. Qty.	
	A (mm/in.)	B/C (mm)	D (mm)				
5	150/6"	35/105	17	613.13005	Ball Head Tip	1	
6				613.13006			
8				613.13008			
5	200/8"	39/117	22	613.13105			
6				613.13106			
8				613.13108			
10	150/6"	27/82	13	613.13205			Hex Head Tip
2.5				613.13203			
3				613.13204			
4	35/105	17	17	613.13205			
5				613.13206			
6				613.13208			
8	200/8"	27/82	13	613.13303			
3				613.13304			
4				35/105	17	17	
5	613.13306						
6	613.13308						
8	39/117	22	22	613.13310			
10				613.13310			

T-HANDLE HEXAGON BLADE ASSORTMENT



Art. No. 613.91306 6 pcs.

- 1 each of T-handle wrench with ball head hexagon socket, size 5 mm, 6 mm, 8 mm
- 1 each of T-handle wrench with hexagon socket, size 2.5 mm, 3 mm, 4 mm

 Contents (mm)	Blade Length (mm)	Art. No.	Tip	P. Qty.
2.5	150	613.13205	Hex Head Tip	1
3		613.13203		
4		613.13204		
5		613.13005	Ball Head Tip	
6		613.13006		
8		613.13008		

T-HANDLE, TX WITH SIDE TIP



Integrated side tip

- Effortless tightening and loosening of screw connections.
- Particularly suitable for rusted and seized screw connections.

High-quality blade

- Matte chrome-plated hexagon blade for optimal corrosion protection and long service life.
- High-quality special steel ensures optimal balance of ductility and wear resistance.

One-piece blade

- Resistant even to extremely high stresses


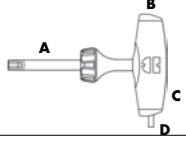
Multi-component handle comprising solid core and soft casing

- Highly slip-proof special black plastic ensures maximum torque transfer.
- Solid core and soft casing ensure rigidity and a secure grip.
- Ergonomically adapted handle for a comfortable grip and fatigue-free operation.
- Integrated drilled hole for storage on tool rack.

Black Point tip

- Higher torque and a precise fit

Output: For TX socket

 (mm)				Art. No.	P. Qty
	A (mm/in.)	B/C (mm)	D (mm)		
TX 9	100/4"	27/82	13"	613.14009	1
TX 10				613.14010	
TX 15				613.14015	
TX 20	200/8"	35/105	17"	613.14020	
TX 25				613.14025	
TX 27				613.14027	
TX 30				613.14030	
TX 40				613.14040	
TX 45	39/117	22"	613.14045		

T-HANDLE SCREWDRIVER SET TX, SIDE TIP



Art. No. 613.91406 6 pcs.

For TX socket, with side output

Integrated side tip

- Effortless tightening and loosening of screw connections.

High-quality blade


- Matt chrome-plated hexagon blade for optimal corrosion protection and long service life.

Multi-component handle comprising solid core and soft casing

- Highly slip-proof special black plastic ensures maximum torque transfer.
- Integrated drilled hole for storage on tool rack.

Contents: 6 pcs.

- 6 T-handle screwdrivers for TX socket (TX 10, 15, 20, 25, 30, 40)

	Blade Length (mm)	Art. No.	P. Qty.
TX 10	100	613.14010	1
TX 15		613.14015	
TX 20	200	613.14020	
TX 25		613.14025	
TX 30		613.14030	
TX 40		613.14040	

T-HANDLE, TX SOCKET SET



Art. No. 613.9147 7 pcs.

In sheet steel rack

Integrated side output

- Effortless tightening and loosening of screw connections
- Particularly suitable for rusted and seized screw connections

Multi-component handle comprising solid core and soft casing

- Ergonomically adapted handle for a

comfortable grip and effortless work

- Integrated drilled hole for storage on tool rack

Black Point tip

- Higher torque and a precise fit.

One-piece blade

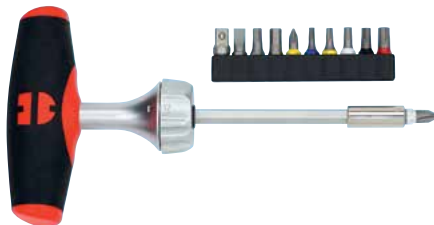
- Resistant even to extremely high stresses.

Contents: 7 pieces

- 1 each of T-handle screwdriver TX 10; TX 15; TX 20; TX 25; TX 30; TX 40; TX 45

	Blade Length (mm)	Art. No.	P. Qty.
TX 10	100	613.14010	1
TX 15		613.14015	
TX 20		613.14020	
TX 25	200	613.14025	
TX 30		613.14030	
TX 40		613.14040	
TX 45		613.14045	

T-HANDLE RATCHET SCREWDRIVER



With 10-piece bit strip

Robust ratchet function with 45 teeth

- Max. torque of up to 40 Nm

3-position adjustment wheel.

Adjustable with one hand

- Easy, one-handed change of direction while working

Bits included (1 each):	
	1/4"
	5.5
	4 mm, 5 mm
	PH 1, PH 2
	TX 10, TX 15, TX 20, TX 25, TX 30



Ratchet function

Very rugged design, max. torque up to 40 Nm (29.5 lb-ft).

					Art. No.	P. Qty.
	A (mm)	B (mm)	C (mm)	A2 (mm)		
1/4" (in.)	95	85	100	10	613.63040	1

CLIP REMOVER



To release clamps and clips

Features:

- For easy removal of clips.
- Special blade opening of 7 mm protects the clips while removing them
- Nickel-plated chrome vanadium steel blade.
- Comfortable 2K handle

Blade length	Blade opening	Art. No.	Qty
12 cm	7 mm	714.3453	1

HOOK T-HANDLE TOOL



For removal and assembly of rubber rings

Features:

- For removal and assembly of rubber rings on the exhaust silencer suspension system
- Chromium plated
- Solid, plastic coated cross handle.
- 105° offset, long hook, suitable for different rubbers designs

Type	Length	Weight	Hook length	Art. No.	Qty
Short	200 mm	90 g	25 mm	715.5531	1
Long	200 mm	95 g	45 mm	715.5532	

T-HANDLE ASSORTMENT



Art. No. 613.630400 21 pcs.

- 2K T-handle
- Ergonomically adapted handle. It lies comfortable in the hand and ensures fatigue-free working.
- High-performance ratchet screwdriver.
- No more regripping required. And that enables fast, efficient operation in any assembly situation.
- Large numbers of different reversible blades, adapter, bit-holders and socket-wrench inserts.
- Contains the right tool for any application, and also includes a flexible bit holder.
- High-quality reversible blades.
- High top strength thanks to special treatment.
- With Würth colour coding systems for fast locating.
- Black-point tip for highly precise fit.
- All reversible, adapter and bit-holder blades have a 1/4" / 6.3 mm hex mount.



Ratchet function

Very rugged design, max. torque up to 40 Nm (29.5 lb-ft).



Flexible bit-holder blade

Especially suitable for working in inaccessible areas.



4 in 1!

- + T-Handle screwdriver
- + High performance ratchet screwdriver
- + Reversible or adapter bits
- + Socket-wrench inserts

Contents: 21 pieces									
Length Designation	Tip	Size	Art. No.	P. Qty.	Designation	Tip	Length Size	Art. No.	P. Qty.
T-Handle Ratchet screwdriver		85 mm	613.63040	1	Flexible bit holder		175 mm	613.713	1
11 socket-wrench inserts, hexagon 1 each 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13; 14 mm		22 mm	713.111105 to 713.111114		Blade PH 1 -PH 2			613.8091	
					Blade TX10 -TX15			613.8092	
					Blade TX20 -TX 25			613.8093	
					Blade TX30 -TX 40			613.8094	
Adapter blade		150 mm	613.711		Blade Allen head 4 - 5			613.8095	
Magnetic bit holder		150 mm	613.712	Blade PZ2 - Slot 6 mm		613.8096			

1/4" TORQUE SCREWDRIVER



Torque screwdriver for controlled clockwise tightening

Triggering accuracy: $\pm 6\%$ to the set value

In accordance with
DIN EN ISO 6789:2003,
Type II, Class D

Quick and simple adjustment of the torque scale without auxiliary tool

Push the sleeve back - rotate the handle - and that's it!

Soft-component handle with 1/4" square mount at the end of the handle

e.g. T-handle extension for increased force transmission

Instruction

After use, relax the spring and set to lowest value.

Field of applications

Automotive Tire pressure monitoring system (TPMS) - for correctly installing tpms sensors;
Electronic devices such as computers, phones;
Screw attachments on motor vehicles, bicycles, motorcycles;
Electrical Applications in construction;
Model & Toy applications;
Industrial installation
And other applications requiring controlled tightening.

Drive	Measuring range in Nm	Scale graduation in Nm	Suitable for counterclockwise tightening	Suitable for clockwise tightening	Length in mm	Art. No.	Qty.
1/4"	1.0 - 3.5 Nm	0.05	No	Yes	912	714.7191	1
	4.0 - 9.0 Nm	0.1				714.7192	

With calibration certificate and operating instructions, supplied in a plastic box

INSULATED PRECISION SCREWDRIVERS



For working with voltage up to 1,000 volts (AC) and up to 1,500 volts (DC)

- Quality resistant test in a water bath with test voltage of 10 kVLoad per tray: 20 kg
- Identification marking with the year of manufacture
- Cold impact test at -40°C (Identification marking C)

EN 60900, IEC 60900



- Blade: Circular blade, insulated, bronzed
- Output: DIN 5264-A, ISO 2380
- Standard: EN 60900, IEC 60900



Slotted

mm	A mm	A inch	B/C mm	B/C inch	Art. No.	P. Qty.
0.30 x 1.5	40	1 9/16"	100/20	3 15/16" / 13/16"	613.486015	1
0.30 x 1.8	60	2 3/8"			613.486018	
0.40 x 2.0	75	3"			613.486020	
0.40 x 2.5					613.486025	
0.50 x 3.0					613.486030	



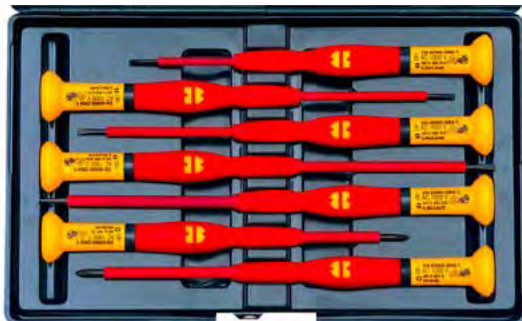
- Blade: Circular blade, insulated, bronzed
- Output: ISO 8764-PH
- Standard: EN 60900, IEC 60900



PH

	A mm	A inch	B/C mm	B/C inch	Art. No.	P. Qty.
PH 00	40	1 9/16"	100/20	3 15/16" / 13/16"	613.48700	1
PH 0	60	2 3/8"			613.4870	

INSULATED PRECISION SCREWDRIVER SET



Art. No. 613.4894 7 pcs.

In Plastic Casing

mm	Art. No.		Art. No.	P. Qty.
0.30 x 1.5	613.486015	PH 00	613.48700	1
0.30 x 1.8	613.486018	PH 0	613.4870	
0.40 x 2.0	613.486020			
0.40 x 2.5	613.486025			
0.50 x 3.0	613.486030			

INSULATED SCREWDRIVERS



For working with voltages up to 1,000 volts (AC), or up to 1,500 volts (DC).

- Quality resistant test in a water bath with test voltage of 10 kV
- Identification marking with year of manufacture.
- Temperature & impact tested

EN 60900, IEC 900



- Blade: gunmetal finish, insulated.
- Tip: DIN 5264-A, ISO 2380,
- Conical/tapered blade
- Standard: DIN 7437, IEC 900, EN 60900



Slotted

mm					D/A mm		Art. No.	P. Qty.
	A mm	A inch	B/C mm	B/C inch				
2.5	80	3 1/8"	83/27	3 17/64" / 1 1/16"	2.4 x 80	3/32" x 3 1/8"	613.631025	1
0.8 x 4.0	100	4"			4.0 x 100	5/32" x 4"	613.63104	
1.2 x 6.5	150	6"	106/35	4 11/64" / 1 3/8"	6.4 x 150	1/4" x 6"	613.631065	



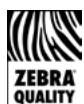
- Blade: gunmetal finish, insulated.
- Tip: DIN 5260-PH, ISO 8764-PH
- Standard DIN 7438, IEC 900, EN 60900



PH

					Art. No.	P. Qty.
	A mm	A inch	B/C mm	B/C inch		
PH 0	80	3 1/8"	83/27	3 17/64" / 1 1/16"	613.6320	1
PH 1			96/31	3 25/32" / 1 7/32"	613.6321	
PH 2			106/35	4 11/64" / 1 3/8"	613.6322	

INSULATED SCREWDRIVER SET



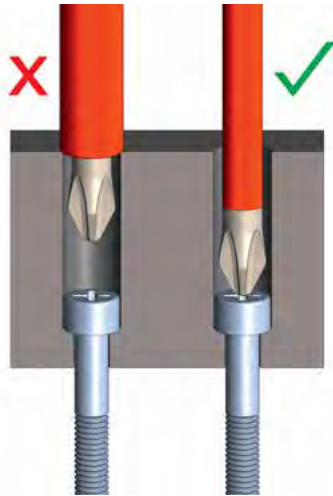
Art. No. 613.96325 5 pcs.

- Blade: gunmetal finish, insulated
- Tip: DIN 911
- Standard: DIN 7439, IEC 900, EN 60900



mm	Art. No.		Art. No.	P. Qty.
0.4 x 2.5 x 80	613.631025	PH 1	613.6321	1
0.8 x 4.0 x 100	613.63104	PH 2	613.6322	
1.2 x 6.5 x 150	613.631065			

INSULATED SCREWDRIVER, SLIM



Allows for effortless access to deep-seated screws

- Extra slim area of blade for working in narrow diameter areas
- Prevents fraying of insulation
- Screw symbol on end of handle
- Tip: DIN ISO 2380-I-A
- Blade: Burnished
- Application area; Switch cabinets and distributor boxes, circuit breakers, terminal blocks and relays.

Individually tested in accordance with IEC 60900:2004



Slotted, Slim

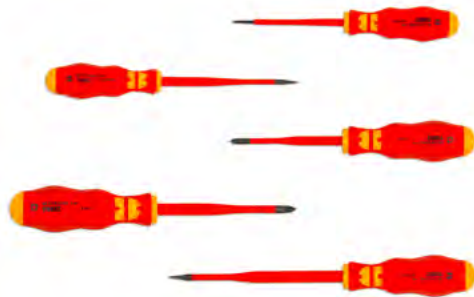
mm					Art. No.	P. Qty.
	A mm	A inch	B/C mm	B/C inch		
0.4 x 2.5	80	3 1/8"	83/27	3 17/64" / 1 1/16"	613.63125	1
0.8 x 4.0	100	4"			613.63140	
1 x 5.5	125	5"	96/31	3 25/32" / 1 7/32"	613.63155	



PH, Slim

					Art. No.	P. Qty.
	A mm	A inch	B/C mm	B/C inch		
PH 1	80	3 1/8"	96/31	3 25/32" / 1 7/32"	613.63210	1
PH 2	100	4"	106/35	4 11/64" / 1 3/8"	613.63220	

INSULATED SCREWDRIVER SET, SLIM



Art. No. 613.963250 5 pcs.



mm	Art. No.	+	Art. No.	P. Qty.
0.4 x 2.5	613.63125	PH 1	613.63210	1
0.8 x 4.0	613.63140	PH 2	613.63220	
1.0 x 5.5	613.63155			

INSULATED INTERCHANGEABLE SCREWDRIVER SET



Art. No. 613.90014 14 pcs.

Item tested in accordance with IEC 60900:2004

12 Interchangeable blades

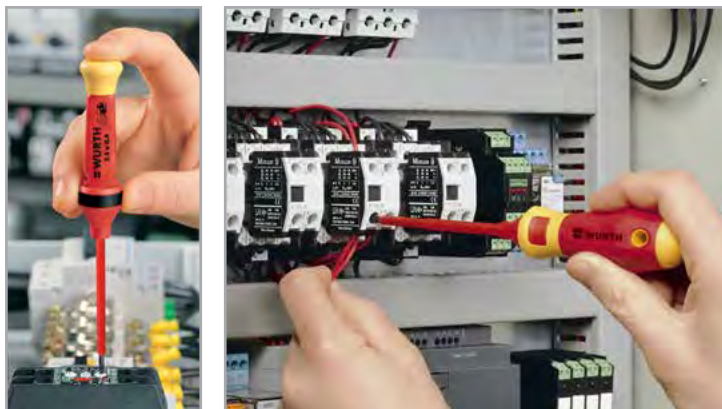
Simply choose the right blade and insert it into the handle

Can also be used as an electronic and precision mechanic's screwdriver with the plug-on screw cap

Contents:

- 1 screwdriver handle
- 1 precision mechanic's screw cap
- 12 blades

Note: The total length of the screwdriver does not correspond to the blade length plus the handle length, since the blade engages in the handle



*Only available as a set

Contents:		
Designation	Length (mm)	Length (in.)
Slot 0.4 x 2.5	150	5 29/32"
Slot 0.5 x 3.0	175	6 57/64"
Slot 0.6 x 3.5		
Slot 0.8 x 4.0		
Slot 1.0 x 5.5		
Slot 1.2 x 6.5		
PH 1	155	6 7/64"
PH 2	175	6 57/64"
PZ 2		
TX 10		
TX 15		
TX 20		
Handle	93	3 21/32"

INSULATED SOCKET WRENCH SCREWDRIVERS FOR EXTERNAL HEXAGON SCREWS



- Blade: gunmetal finish, insulated. Tip: DIN 475/2.
- Standard: DIN 7445, IEC 900, EN 60900



mm	A		B/C		Art. No.	P. Qty.
	mm	inch	mm	inch		
5.5	125	5"	96/31	3 25/32" / 1 7/32"	613.636055	1
6.0					613.63606	
7.0			106/35	4 11/64" / 1 3/8"	613.63607	
8.0					613.63608	
10.0					613.63610	
13.0	114/38	4 31/64" / 1 1/2"	613.63613			

INSULATED SCREWDRIVER HEX SET

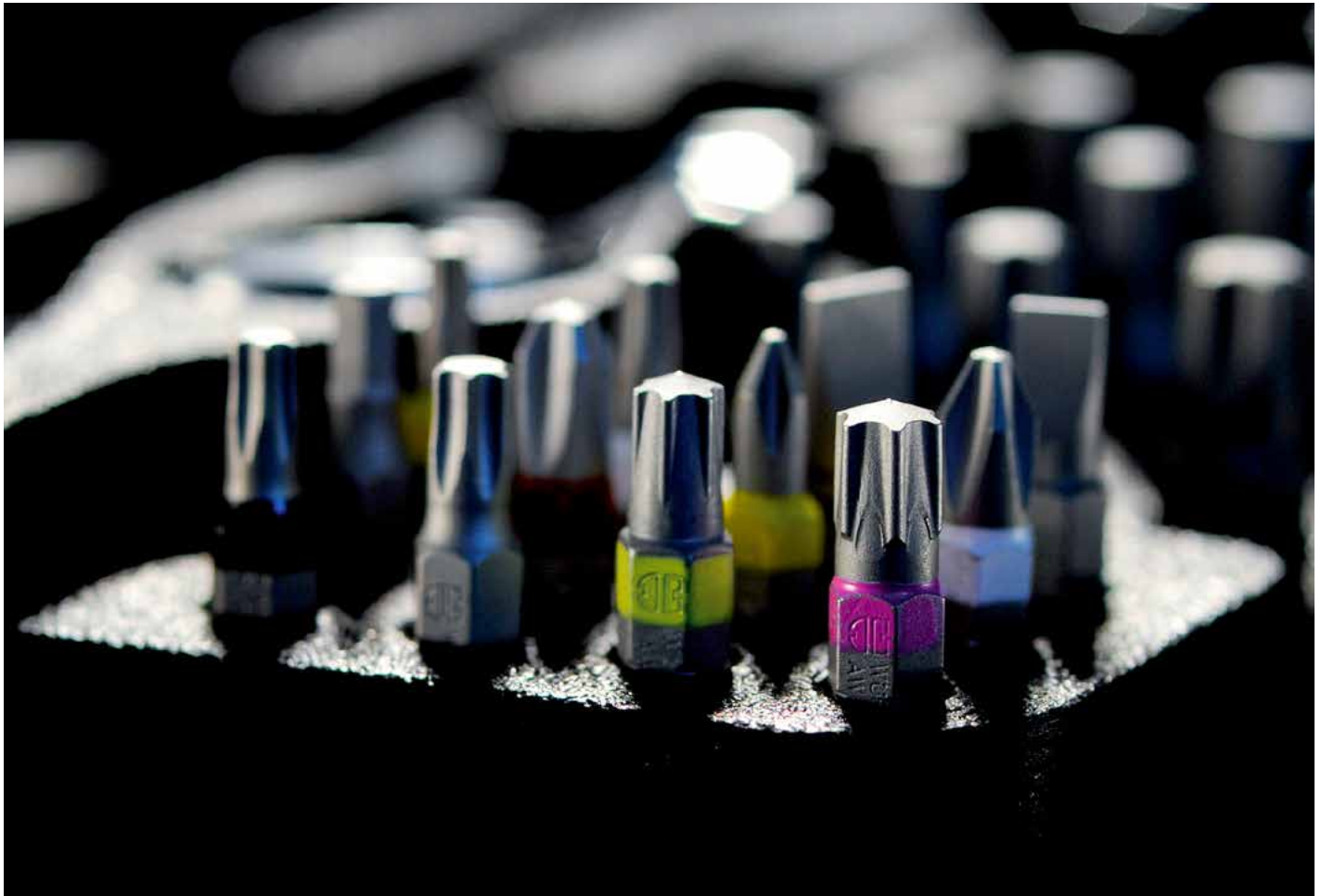


Art. No. 613.93666 6 pcs.

For External Hexagon Screws



mm	Art. No.	P. Qty.
5.5	613.636055	1
6.0	613.63606	
7.0	613.63607	
8.0	613.63608	
10.0	613.63610	
13.0	613.63613	



WÜRTH COLOUR CODING SYSTEM

How often do you have a PH- instead of a PZ-bit? Quite simply the wrong bit size in your cordless screwdriver? How often did you walk to the workbench to get the right bit? Those who work with bits know this only too well. The Würth, already registered as a utility model in 1982, Farble system allows you to quickly and easily assign the appropriate bit to the screw. The label of the screw box and colour codes on each bit easily shows at a glance which bit is needed.

FIND THE COLOUR, FIND THE BIT!

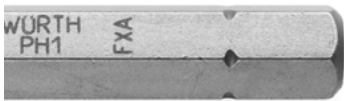

PH 0
PH 1
PH 2
PH 3
PH 4

PZ 0
PZ 1
PZ 2
PZ 3
PZ 4

AW® 10
AW® 20
AW® 25
AW® 30
AW® 40
AW® 50

TX 10
TX 15
TX 20
TX 25
TX 27
TX 30
TX 40

Shank Styles



Hex



Hex Quick Change



Drive Styles



Slotted

A slot in the head



Phillips and Frearson

An X-shaped drive



Pozidriv

Ribs between each of the four arms of the X-shaped drive



Clutch G

For tamper-resistant screw heads



Torx

Specifically designed to prevent cam-out and stripped heads



Socket, Hex or Allen

A hexagonal hole for use with an Allen key



AW®

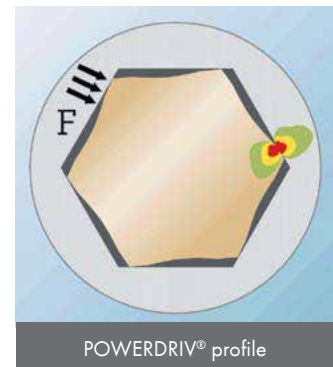
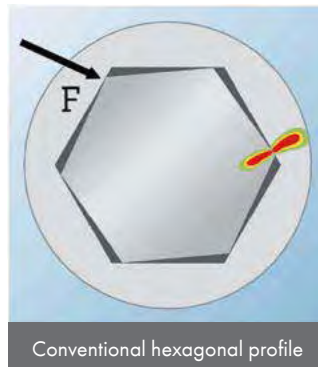
Würth Exclusive!

More Power—Combination of Phillips and Torx

POWERDRIV®

We have optimized the connection between bit holder and bit insert. The proven POWERDRIV® system increases the contact surface of the bit in the holder. The lifetime of the entire system is further increased. Here you see the comparison between the surface contact of the POWERDRIV® profile (right) compared to the line contact a conventional hexagonal profile (left).

Less stress, less breakage.



1/4" PH BIT – HEX



Designation	Tip	Drive	Length (mm)	Art. No.	P. Qty.
PH 1	+	1/4" ○	25	614.12251	10
PH 2				614.12252	
PH 3				614.12253	



Designation	Tip	Drive	Length (mm)	Art. No.	P. Qty.
PH 0	+	1/4" ○	25	614.176270	5
PH 1				614.176274	10
PH 2				614.176461	
PH 3				614.176648	
PH 4			32	614.176750	5



Designation	Tip	Drive	Length (mm)	Art. No.	P. Qty.
PH 1	+	1/4" ○	50	614.176691	5
PH 2				614.176692	
PH 3				614.176693	

1/4" PH BIT – HEX QUICK CHANGE



Designation	Tip	Drive	Length (mm)	Art. No.	P. Qty.
PH 1	+	1/4" ○	50	614.176735	5
PH 2				614.176736	
PH 3				614.176737	



Designation	Tip	Drive	Length (mm)	Art. No.	P. Qty.
PH 1	+	1/4" ○	73	614.176774	5
PH 2				614.176775	



Designation	Tip	Drive	Length (mm)	Art. No.	P. Qty.
PH 1	+	1/4" ○	89	614.176850	5
PH 2			110	614.176739	3
PH 3			110	614.176851	5

1/4" PH BIT – HEX QUICK CHANGE



Tip size	Tip	Drive	Length (mm)	Art. No.	P. Qty.
PH 1			50	614.6421	10
PH 2			100	614.6424	2
			155	614.6425	1
PH 3			50	614.6426	2



Designation	Phillips-Head System	Tip	Drive	Length (mm)	Art. No.	P. Qty.
PH 2	MSVM 2 - Magazine attachment - Makita			152	614.100201	3
	MSVW 1 - Magazine attachment - Wurth / Bosch			155	614.100111	
	MSVW 2 - Magazine attachment - Wurth / Bosch			168	614.100211	
	S50-TB - Magazine screw attachment - Wurth/Kress/Eibenstock			176.5	614.100212	

1/4" PZ BIT – HEX



Designation	Tip	Drive	Length (mm)	Art. No.	P. Qty.
PZ 1			25	614.11251	10
PZ 2				614.11252	
PZ 3				614.11253	



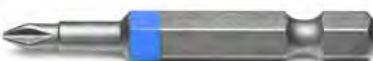
Designation	Tip	Drive	Length (mm)	Art. No.	P. Qty.
PZ 0			25	614.176640	1
PZ 1				614.176651	
PZ 2				614.176652	
PZ 3				614.176653	
PZ 4			32	614.176751	

1/4" PZ BIT – HEX



Designation	Tip	Drive	Length (mm)	Art. No.	P. Qty.
PZ 1			50	614.176694	5
PZ 2				614.176695	
PZ 3				614.176696	

1/4" PZ BIT – HEX QUICK CHANGE



Designation	Tip	Drive	Length (mm)	Art. No.	P. Qty.
PZ 1			73	614.176776	5
PZ 2				614.176777	

1/4" AW® BIT – HEX



Benefits of AW drive:

- Improved force transfer
- Longer service life
- Optimum centring
- Bits have largest possible contact surface in the screw drive
- Even force distribution prevents damage to the surface-protection coating and therefore ensures better resistance to corrosion.

Designation	Tip	Drive	Length (mm)	Art. No.	P. Qty.
AW® 10			25	614.5110	10
AW® 20				614.5120	
AW® 25				614.5125	
AW® 30				614.5130	2
AW® 40				614.5140	10

1/4" AW® BIT – HEX QUICK CHANGE



Benefits of AW drive:

- Improved force transfer
- Longer service life
- Optimum centring
- Bits have largest possible contact surface in the screw drive

Ejection forces:

Ejection forces virtually zero. Even force distribution prevents damage to the surface-protection coating and therefore ensures better resistance to corrosion.

Designation	Tip	Drive	Length (mm)	Art. No.	P. Qty.
AW® 10			50	614.5210	5
AW® 20				614.5220	
AW® 25				614.5225	2
AW® 30				614.5230	
AW® 40				614.5240	

1/4" AW® BIT – HEX QUICK CHANGE



Benefits of AW® drive:

- Improved force transfer
- Longer service life
- Optimum centring
- Bits have largest possible contact surface in the screw drive

Ejection forces:

- Ejection forces virtually zero. Even force distribution prevents damage to the surface-protection coating and therefore ensures better resistance to corrosion.

Designation	Tip	Drive	Length (mm)	Art. No.	P. Qty.
AW® 10			70	614.5710	5
AW® 20				614.5720	1
AW® 30				614.5730	

1/4" TX BIT – HEX



Designation	Tip	Drive	Length (mm)	Art. No.	P. Qty.
TX 10			25	614.3110	1
TX 15				614.3115	
TX 20				614.3120	
TX 25				614.3125	
TX 27				614.3127	
TX 30				614.3130	
TX 40				614.3140	

1/4" TX BIT – HEX QUICK CHANGE



Designation	Tip	Drive	Length (mm)	Art. No.	P. Qty.
TX 10			70	614.3310	5
TX 15				614.3315	
TX 20				614.3320	
TX 25				614.3325	
TX 27				614.3327	
TX 30				614.3330	

10 MM TX BIT – HEX



With 10mm hexagon

Designation	Tip	Drive (mm)	Length (mm)	Art. No.	P. Qty.
TX 30			30	614.78830	1
TX 40				614.78840	
TX 45				614.78845	

1/4" TX BIT – HEX



Designation	Tip	Drive	Length (mm)	Art. No.	P. Qty.
TX 25			25	614.4000	3
TX 27				614.4050	
TX 30				614.4100	
TX 40				614.4200	
TX 45				614.4250	

ROBERTSON SQUARE RECESS DRIVE BITS



- Hex shank 1/4".
- Manufactured from impact-resistant hardened steel for maximum durability.

Drive Size	L=1"	L=2"	L=3"	L=4"	L=6"	P. Qty.
	Art. No.	Art. No.	Art. No.	Art. No.	Art. No.	
#0	-	-	-	-	-	5
#1	-	614.99912	614.99913	614.99914	614.99916	
#2	614.99921	614.99922	614.99923	614.99924	614.99926	
#3	614.99931	614.99932	614.99933	614.99934	614.99936	



BIT IMPACT FLEX – HEX



PZ



TX

High-performance bit for difficult screwing tasks, in particular for use with tangential impact screwdrivers

Long service life

- Enlarged torsion zone for twist angle above 40° absorbs load peaks (of impact energy during difficult screwing tasks)

Saves huge amounts of money and time

- Up to twice the service life of other high-performance impact bits on the market
- Up to 3 times the service life of regular standard bits

For a wide range of applications

- Fits into all standard bit holders and into direct adapters of impact screwdrivers

Safety

- Moulded casing prevents flying chips if the torsion zone breaks



Designation	Tip	Drive	Length (mm)	Art. No.	P. Qty.
PZ 1	✦	1/4"	29	614.176641	5
PZ 2				614.176642	
PZ 3				614.176643	
TX 10	✦			614.31103	
TX 15				614.31153	
TX 25				614.31251	
TX 30		614.31303			
TX 40		614.31403			

1/4" HEXAGON POWERDRIV®



With POWERDRIV®:

- Force is distributed across the curved surfaces on each side of the hexagon. This reduces the load on the screw and bit

Without POWERDRIV®:

- Force is exerted only at individual points. The result: high point load on screw and bit

Tip size (mm)	Tip type	Drive	Length (mm)	Art. No.	P. Qty.
2		1/4"	25	614.17692	5
2.5				614.176925	
3				614.17693	
4				614.17694	
5				614.17695	
6				614.17696	

HEXAGON SOCKET BIT



10 mm hex socket

Tip size (mm)	Tip	Drive (mm)	Length (mm)	Art. No.	P. Qty.
7		10	30	614.788307	1
8				614.788308	

TRIPLE SQUARE BIT



Triple square 10 mm

Tip size	Tip	Drive (mm)	Length (mm)	Art. No.	P. Qty.
XZN M5		10	30	614.788405	1
XZN M6				614.788406	
XZN M8				614.788408	

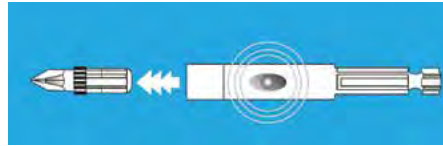
REVERSIBLE BLADE



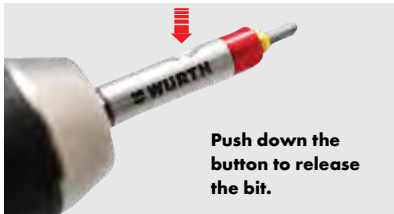
- Special treatment for high tip strength
- Würth colour coding system for fast identification
- Black-point tip for highly precise fit
- 6.35 mm = 1/4" hexagon mount

Designation	Tip Type	Length (mm)	Art. No.	P. Qty.
Blade PH1 - PH2		175 mm	613.8091	1
Blade TX10 - TX15			613.8092	
Blade TX20 - TX25			613.8093	
Blade TX30 - TX45			613.8094	
Blade Allen head 4 - 5			613.8095	
Blade PZ2 - Slot 6 mm				

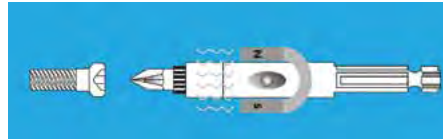
1/4" ONE TOUCH BIT HOLDER



Easy release and change of bit.



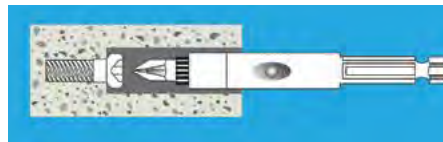
Push down the button to release the bit.



The strong magnet will magnetize the bit, securing a firm hold of the screw.



The bit will shoot forward, allowing easy removal.



Diameter of only 10mm.

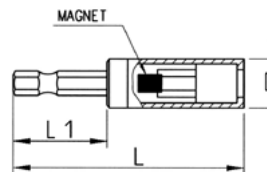
Art No. 614.176638 P. Qty. 1

With a soft push on the button, the bit will shoot forward due to the internal spring and position itself for easy removal. A new bit can then quickly be inserted. Especially for jobs that require different bits the new One Touch Bit Holder is a simple but unique product that makes changing bits very fast and easy.

- Extra strong magnet holds the screw in place.
- The One Touch Bit Holder can be operated with gloves.
- Packed in clear PVC box for safe storage.
- Stainless steel housing.



MAGNETIC BIT HOLDER



Self-adjusting, 1/4" automatic holder for safe and efficient working

The high-quality ring magnet automatically adjusts to the depth of the screw head.

- This guarantees reliable bit mounting and optimum screw grip (e.g. machine bolts).

Simple and rapid replacement of 1/4" standard bits

**No abrasive ring when installing screws flush
Countersink screws by sliding back the sleeve.**

Tip size	D (mm)	L (mm)	L1 (mm)	Art. No.	P. Qty.
1/4"	14	67	27	614.811320	1

BIT HOLDER, INTERCHANGEABLE BLADE WITH QUICK-CHANGE CHUCK



Drive (mm)	Drive Type	Tip Size (in.)	Tip Type	Length (mm)	Art. No.	P. Qty.
6	Outer Hexagon	1/4"	Internal Hexagon Socket	165	613.704	1

MAGNETIC BIT HOLDER



Drive (in.)	Drive Type	Tip Size (in.)	Tip Type	Length (mm)	Art. No.	P. Qty.
1/4"	Outer Hexagon	1/4"	Internal Hexagon Socket	150	613.712	1

FLEXIBLE BIT HOLDER





Drive (in.)	Drive Type	Tip Size (in.)	Tip Type	Length (mm)	Art. No.	P. Qty.
1/4"	Outer Hexagon	1/4"	Internal Hexagon Socket	175	613.713	1

1/4" UNIVERSAL HOLDER – HEX QUICK CHANGE



Stainless steel sleeve, snap ring and permanent magnet



Designation	Tip	Drive	Length (mm)	Art. No.	P. Qty.
Universal holder	1/4" 	1/4" 	74	614.176702	1
			58	614.176683	
			175	614.176758	



Quick-change chuck and permanent magnet

Super-fast tool change

- Pushing the clamping bush forward slightly releases the latch mechanism.

Designation	Tip	Drive	Length (mm)	Art. No.	P. Qty.
Multi-purpose holder	1/4" 	1/4" 	75	614.176708	1





Quick-change chuck

For screwing in metallic environments

- Magnet not included. The magnetic force would attract chips.

Super-fast tool change

- Pushing the clamping bush forward slightly releases the latch mechanism.

Designation	Tip	Drive	Length (mm)	Art. No.	P. Qty.
Multi-purpose holder	1/4" 	1/4" 	51	614.176711	1

1/4" 2 IN 1 ADAPTER



Socket wrench and bit adapter in one tool

- By simply sliding, the sleeve can be used as a socket wrench adapter and a bit holder
- Blade holder 1/4" Hex quick change for 1/4" square socket wrench inserts or 1/4" hexagon



Length (mm)	Drive (in.)	Tip size (in.)	Blade length (mm)	Sleeve diameter (mm)	Art. No.	P. Qty.
60	1/4"	1/4"	26	13	614.176636	1

1/4" ADAPTER – HEX QUICK CHANGE



- DIN 7428

Designation	Tip	Drive	Length (mm)	Art. No.	P. Qty.
Adapter	1/4"	1/4"	50	614.176726	1
		3/8"		614.176727	
		1/2"	74	614.176780	

ADAPTERS

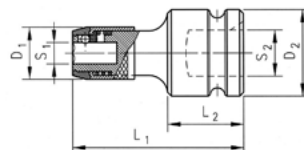


Non-magnetic holder for screwing in metallic environments

- Magnets would attract chips
- DIN 7427

Designation	Tip	Drive	Length (mm)	Art. No.	P. Qty.
Adapter	1/4"	1/4"	25	614.176680	1
	5/16"	3/8"	30	614.176682	

1/4" BIT ADAPTER



Quick-change chuck

Drive: 1/4" square drive, DIN 3121

- For use with ratchet or square drive

Output: 1/4" hexagon socket, DIN 3126

S1 (in.)	S2 (in.)	L1 (mm)	L2 (mm)	D1 (mm)	D2 (mm)	Art. No.	P. Qty.
1/4"	1/4"	30	11	13	14	715.1101	1

ADAPTERS



10 mm x 1/4"

Tip Type	Length (mm)	Art. No.	P. Qty.
	22	715.1102	1

BIT ADAPTER



10 mm x 1/4"

- Bit not included

Designation	Length (mm)	Art. No.	P. Qty.
Bit Adapter, 10 mm x 1/4"	20	715.1103	1

BIT SET WITH HOLDER

Art. No. 614.203 17 pcs.

Practical bit set with all common bits and practical metal belt clip

- Fast access to bits
- **16 bits:** Length 25 mm, 1/4" holder
- **1** universal bit holder



Drive style	Drive size	Qty.
	PH 1	1
	PH 2	
	PZ 1	
	PZ 2	
	PZ 3	
	0.8 x 5.5 mm	
	4 mm Allen Head	
	5 mm Allen Head	
	TX 15	
	TX 20	
	TX 25	
	TX 30	
	TX 35	
	AW® 10	
	AW® 20	
	AW® 25	
	AW® 30	
Universal Holder		



Provides fast access to all of your bits!

SECURITY TX BIT ASSORTMENT



Art. No. 614.250352 6 pcs.

Security Torx Screws are used in applications to prevent unauthorized tampering

Applications:

- Air bags, ABS brakes, ignition systems, etc., protective barriers, guide rails, Plexiglass panes, bus stops, park benches, school furniture, school bus repair and manufacturers, etc., distributor boxes, switch boards, charging units, air conditioning units, domestic appliances, telephones, etc.

Designation	Tip	Drive	Art. No.	P. Qty.
TX 10 with inside hole			614.352610	1
TX 15 with inside hole			614.352615 *NEW*	
TX 20 with inside hole			614.352620	
TX 25 with inside hole			614.352625	
TX 30 with inside hole			614.352630	
TX 40 with inside hole			614.352640	

BIT BOX



7-piece set with 6 bits and one bit holder

- Impact-resistant plastic box
- Box precisely tailored to bits prevents them from falling out
- Clearly laid-out storage and easy removal
- Compact bit box design fits in almost any pocket

Length (mm)	Width (mm)	Height (mm)	Contents	Art. No.	P. Qty.
80	50	20	PH 1, 2, 3 PZ 1, 2, 3	614.004	1

IMPACT FLEX BIT BOX



Art. No. 614.250115 8 pcs.

Practical bit box with swivelling mechanism for simple and user-friendly removal of bits

Simple and rapid removal and replacement of bits

- 180° swivelling mechanism for one-hand removal of bits
- Removable using machine mount

Robust

- Bit box made from impact-resistant, fibre-reinforced plastic

Space-saving and handy with integrated belt clip

Integrated universal bit holder with magnet



Designation	Tip	Drive	Length (mm)	Art. No.	P. Qty.
PH 2			29	614.176462	1
PZ 2				614.176642	
TX 20				614.31203	2
TX 25				614.31251	1
TX 30				614.31303	
TX 40				614.31403	
Universal Holder		1/4" Hex Quick Change	50	614.176754	1

BIT BOX



Can also be used as a hand-held screwdriver!

Art. No. 614.25040 11 pcs.

Assortment with all conventional bits in practical and robust plastic box

- **10 bits:** Length 25 mm, 1/4" mount
- **1** self-adjusting magnetic bit holder for rapid and secure working
- Secure retention of bits in bit box
- Simple removal and replacement of bits
- Bit box dimensions (L x W x H): 132 x 69 x 18 mm
- Bit box with magnetic holder usable as handheld screwdriver

Drive style	Drive size	Qty.
+	PH 2	1
	PH 3	
+	PZ 2	2
	PZ 3	1
⊖	0.8 x 5.5 mm	1
☆	TX 20	1
	TX 25	
	TX 30	
	TX 40	
1/4" Magnetic Holder		1

BIT BOX



Art. No. 614.2506 36 pcs.

36 bits: 1/4", Length = 25 mm

Specific composition for trade professionals

Sturdy metal box

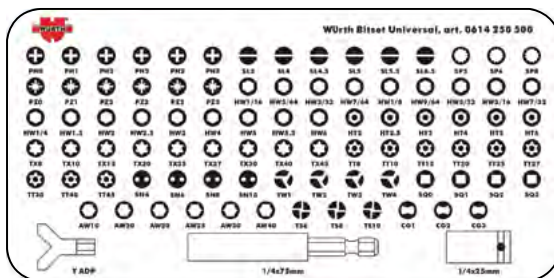
Colour-coding system

- Easy to see which bit belongs to which screw. If the colour matches, the bit fits.

Clearly laid-out storage and easy removal

Drive style	Drive size	Qty.
+	PH 1	6
	PH 2	12
	PH 3	6
⊖	0.5 x 3.0 mm	2
	0.6 x 4.5 mm	
	0.8 x 5.5 mm	
	1.0 x 6.0 mm	
	1.2 x 6.5 mm	
	1.2 x 8.0 mm	

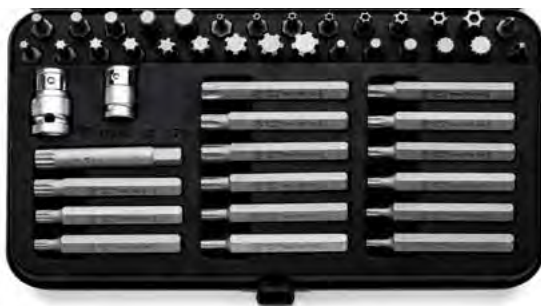
UNIVERSAL BIT SET



Art. No. 614.250500 90 pcs.

- 1/4" drive
- Magnetic
- Includes all standard drive styles and safety screws
- Includes 1/4" drive magnetic ratchet adapter
- In sturdy metal box
- Comes in foam insert to keep the bits nicely organized
- Connector
- Universal bit holders
- Special bit for eyelet screw
- Slotted bits, 6 pcs
- PR bits, 6 pcs
- PZD bits, 6 pcs
- AW bits, 6 pcs
- Bits for hexagon sockets, measurements in inches, 10 pcs
- Bits for hexagon sockets 8 pcs
- Bits for hexagon sockets with hole, 6 pcs
- TX bits, 9 pcs
- TX bits with hole, 9 pcs
- XZN bits, 3 pcs
- Spanner bits, 4 pcs
- Tri Wing bits, 4 pcs
- Bits for recessed cabinets, 4 pcs
- Torque bits, 3 pcs
- "Double wedge" bits, 3 pcs

BIT ASSORTMENT



Art. No. 965.12470 47 pcs.

47-piece set with the most common 10 mm bits for the automotive and cargo sectors. Includes 2 adapters in metal case with foam insert with clamping effect.

- 8 TX bits with hole, 10 mm, length 30 mm: TX 20, 25, 27, 30, 35, 40, 45, 50
- 8 TX bits, 10 mm, length 75 mm: TX 20, 25, 27, 30, 35, 40, 45, 50
- 5 hex socket Bits, 10 mm, length 30 mm: Sizes 5, 6, 7, 8 and 10 mm
- 5 triple square bits, 10 mm, length 30 mm: XZN M 5, 6, 8, 10, 12
- 4 triple square bits, 10 mm, length 75 mm: XZN M 6, 8, 10, 12
- 9 Torx insert bits, 10 mm, length 30 mm: RI 5, 6, 7, 8, 9, 10, 12, 13, 14
- 4 Torx insert bits, 10 mm, length 75 mm: RI 5, 6, 8, 10
- 2 PH bits, 10 mm, length 30 mm: PH 2, 3
- 1 adapter for 1/2" ratchet tool
- 1 adapter for 3/8" ratchet tool

UNIVERSAL BIT SET WITH EXTENSIONS



Art. No. 614.250300 105 pcs.

Extensive 1/4" bit assortment with most common standard and safety bits in short and long versions.

- A majority of the bits are for safety screws. Used wherever unauthorized loosening is to be prevented.
- Includes two bit adapters and one screw hook.
- The solution for virtually all screw types.
- In practical metal box with foam insert for all hand-guided or machine bits.

Areas of Application:

Public facilities, motor vehicle and motorcycle sector, plumbing applications, construction industry, electrical, electronics and machine sector.

Designation	Tip	Length	Art. No.	Qty.
AW*	10	25 mm	614.5110	1
AW*	20		614.5120	2
AW*	25		614.5125	
AW*	30		614.5130	
AW*	40		614.5140	
Slotted	0.6 x 4.5 mm		614.175652	1
Slotted	0.8 x 5.5 mm		614.175653	
Slotted	1.2 x 6.5 mm		614.175655	
Slotted	1.2 x 8 mm		614.175656	
PH	0		614.176270	
PH	1	614.176274	2	
PH	2	614.176461	3	
PH	3	614.176648	1	
PZ	0	614.176640		
PZ	1	614.176651	2	
PZ	2	614.176652	3	
PZ	3	614.176653	1	
TX	8	614.3108**		
TX	10	614.3110		
TX	15	614.3115		
TX	20	614.3120		
TX	25	614.3125		
TX	27	614.3127		
TX	30	614.3130		
TX	40	614.3140		
TX	45	614.3145**		
Allen Head	2 mm	614.17692	1	
Allen Head	2.5 mm	614.176925		
Allen Head	3 mm	614.17693		
Allen Head	4 mm	614.17694		
Allen Head	5 mm	614.17695		
Allen Head	6 mm	614.17696		
Allen Head	1/4"	614.176963**		
Allen Head	7 mm	614.17697**		
TX with hole	8	614.352608		

Designation	Tip	Length	Art. No.	Qty.	
TX with hole	10	25 mm	614.352610	1	
TX with hole	20		614.352620		
TX with hole	25		614.352625		
TX with hole	27		614.352627		
TX with hole	30		614.352630		
TX with hole	40		614.352640		
TX with hole	45		614.352645		
Claw Wrench	4/6/8/10		614.250302		4
Three-wing	1/2/3/4		614.250303		
	6/8/10		614.250304		3
XZN	M4/5/6/8	614.250305	4		
Allen head in inches	1/8", 9/64" 5/32", 3/16"	614.250306			
	M5/6/7/8	614.250307	3		
Allen head w hole	2/2.5/3/4 mm	614.250308**			
Allen head w hole	5/6/7 mm	614.250309**	3		
Square	1/2/3/4	614.250310	4		
Clutch	3/32", 1/8", 5/32"	614.250311	3		
Slotted	0.8 x 5 mm	70 mm	614.175662	1	
PH	1		614.176774		
PH	2		614.176775		
Three-wing	1		614.176301		
Three-wing	2		614.176302		
Claw wrench	6		614.176406		
Claw wrench	8		614.176408		
TX with hole	10		614.3610**		
TX with hole	15		614.3615**		
TX with hole	20		614.3620**		
TX with hole	25	614.3625**			
TX with hole	30	614.3630**			
Five-star with Hole	20	614.176420			
Five-star with Hole	25	614.176425			
Five-star with Hole	30	614.176430			
Screw Hooks	1/4"	26 mm	614.176400		
Bit Adaptor	1/4"	30 mm	614.176680		
Magnetic Bit Holder	1/4"	70 mm	614.176702		

** Available only in set 614.250301 - Special order only

*** Available in prefix 614.37XX - Special order only

91 PIECES 1/4" UNIVERSAL BIT ASSORTMENT



Art. No. 614.250091 91 pcs

Extensive bit assortment with short and long versions of the most common standard bits and bit ratchet.

Contains all bits for the most popular standard screws

70 mm long bits for hard-to-reach places

EASY REMOVAL AND CLEARLY ARRANGED BIT STORAGE

- Foam inserts with stamped profile designation
- Colour-coding system for bits - see at a glance which bit fits which screw

BIT RATCHET

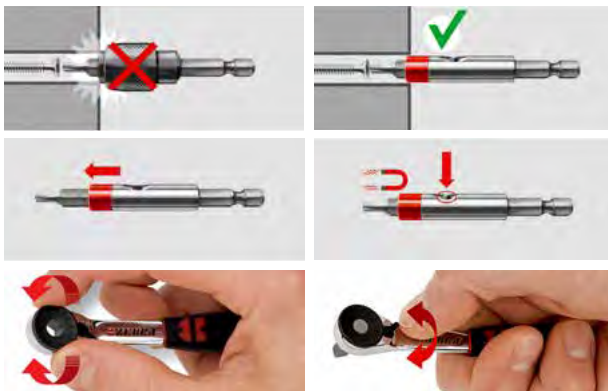
- Very compact ratchet head, very slim design, 10° angled
- Finely toothed, 64 teeth
- With 2-component comfortable handle

BIT HOLDER

- Very rapid, easy and safe bit replacement
- One-hand quick-change function: Pressing lightly on the knob shoots the bit forwards.
- Access to low-lying and hard-to-reach screw heads is possible thanks to the very slim design (max. \varnothing 10.5 mm)

SCOPE OF DELIVERY

- 25 mm bits
- 3x PH 1, 9x PH2, 3x PH3
- 3x PZ1, 9x PZ2, 3x PZ3
- 1x TX8, 1x TX10, 1x TX15, 2x TX20, 2x TX25, 1x TX27, 1x TX30, 1x TX40
- 1x slot 3.0; 4.5; 5.5; 6.5; 8.0 mm
- 1x AW10, 5x AW20, 2x AW25, 1x AW30, 1x AW40
- 1x square drive 1, 2, 3, 4 mm
- Hexagon socket 1x 1.5; 1x 2; 1x 2.5; 1x 3; 2x 4; 2x 5; 2x 6; 1x 1/4 inch; 1x 7; 1x 8 mm
- 70 mm bits
- 1x PH1, 2x PH2, 1x PH3
- 1x PZ1, 2x PZ2, 1x PZ3
- 1x TX20, TX25, TX30
- 1x AW10, AW20, AW30
- 1x slot 5.0 mm
- 1x bit ratchet, art. no. 07120145
- 1x magnetic bit holder, art. no 0614176638
- 1x square to hex adapter, art. no 0614176700
- 1x hex to square adapter, art. no. 0614176680
- **Drive:** 1/4 inch
- **Length:** 220 mm
- **Width:** 110 mm
- **Height:** 35 mm



REVERSIBLE BLADES ASSORTMENT



Art. No. 613.760 13 pcs.

13-piece assortment with variable handle

Features:

- Can be used as a standard screwdriver in the straight position or as a T-handle in the 90° position thanks to the adjustable handle
- 2K handle
- Würth colour coding system for fast identification
- Also suitable as longer bit for cordless drill
- Screwdriver with T-handle function
- 1 blade each of PH 1 - 4 mm slotted; PH 2 - PH 3; PZ 1 - 5 mm slotted; PZ 2 blade - 6 mm slotted; PZ 3 - 7 mm slotted

- 1 hex socket blade 3 mm - hex socket 3 mm ball; hex socket 4 mm - hex socket 4 mm ball; hex socket 5 mm - hex socket 5 mm ball; hex socket 6 mm - hex socket 6 mm ball
- 1 blade each of TX 10-TX 15; TX 20-TX 25; TX 30-TX 40
- Metal box (220 x 110 x 35 mm)

ALLEN KEYS



Short version

- Bright nickel-plated
- Chamfered front edges



Ø (mm)	L1 (mm)		L2 (mm)		Art. No.	P. Qty.
1.0	45		14		715.3159	1
1.5	47		16		715.3135	
2.0	52		18		715.3136	
2.5	59		21		715.3137	
3.0	66		23		715.3138	
3.5	70		26		715.3157	
4.0	74		29		715.3139	
4.5	80		31		715.31391	
5.0	85		33		715.3140	
5.5	90		35		715.31401	
6.0	96		38		715.3141	
7.0	102		41		715.3142	
8.0	108		44		715.3143	
9.0	114		47		715.3144	
10.0	122		50		715.3145	
11.0	129		53		715.3146	
12.0	137		57		715.3147	
14.0	154		70		715.3148	
16.0	168		73		715.31481	
17.0	177		80		715.3149	
19.0	199		89		715.3150	
22.0	222		102		715.3151	



Long version

- Bright nickel-plated
- Chamfered front edges



Ø (mm)	L1 (mm)		L2 (mm)		Art. No.	P. Qty.
2.5	115		21		715.3118	1
3.0	129		23		715.3119	
4.0	144		29		715.3120	
5.0	165		33		715.3121	
6.0	186		38		715.3122	
7.0	197		41		715.3123	
8.0	208		44		715.3124	
9.0	219		47		715.3125	
10.0	234		50		715.3126	
11.0	238		53		715.3127	
12.0	262		57		715.3128	
14.0	294		70		715.3129	
17.0	337		80		715.3130	



Extra-long version – Ball Head

- Brushed chromium-plated
- Allen key with a max. angle of 25°

Ø (mm)	L1 (mm)		L2 (mm)		Art. No.	P. Qty.
1.3	73		12		715.40013	1
1.5	89		15		715.40015	
2.0	99		18		715.4002	
2.5	111		20		715.40025	
3.0	125		22		715.4003	
4.0	138		29		715.4004	
5.0	158		32		715.4005	
6.0	178		36		715.4006	
8.0	198		43		715.4008	
10.0	221		50		715.4010	
12.0	247		57		715.4012	

ALLEN KEYS ON RING



8 pcs, on ring, short version

- Bright nickel-plated
- Chamfered front edges

Set	Contents (mm)	Art. No.	P. Qty.
8-pc.	2, 2.5, 3, 4, 5, 6, 8, 10	715.3155	1

ALLEN KEY SET, SHORT



14 pcs, in plastic holder, short version

- Bright nickel-plated
- Chamfered front edges
- Delivered in plastic bag

Set	Contents (mm)	Art. No.	P. Qty.
14-pc.	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 14, 17, 19	715.3154	1

ALLEN KEY SETS



Short version

9 pcs, in plastic holder, short version

- Bright nickel-plated
- Chamfered front edges

Set	Contents (mm)	Art. No.	P. Qty.
9-pc.	1.5, 2, 2.5, 3, 4, 5, 6, 8, 10	715.31100	1

10 pcs, in plastic holder, short version

- Bright nickel-plated
- Chamfered front edges

Set	Contents (mm)	Art. No.	P. Qty.
10-pc.	1.5, 2, 2.5, 3, 4, 5, 6, 8, 10, 12	715.31110	1

7 pcs, in plastic holder, short version

- Bright nickel-plated
- Chamfered front edges

Set	Contents (in.)	Art. No.	P. Qty.
7-pc.	1/16, 5/64, 3/32, 1/8, 5/32, 3/16, 1/4	715.311100	1



Long version

9 pcs, in plastic holder, long version

- Bright nickel-plated
- Chamfered front edges


Set	Contents (mm)	Art. No.	P. Qty.
9-pc.	1.5, 2, 2.5, 3, 4, 5, 6, 8, 10	715.31120	1

TX ALLEN KEY SET



8 pcs, in plastic holder

- TX socket
- Round blade
- Bright nickel-plated


Set	 Contents	Art. No.	P. Qty.
8-pc.	TX 9, 10, 15, 20, 25, 27, 30, 40	715.36100	1

ALLEN KEY WITH BALL HEAD SET



9 pcs, ball head, extra-long version, in plastic holder with sliding function

- Plastic holder with sliding function for one-handed opening
- Allen key with an angle of max. 25°

Set	 Contents (mm)	Art. No.	P. Qty.
9-pc.	1.5, 2, 2.5, 3, 4, 5, 6, 8, 10	715.40100	1

LONGWING BUTTERFLY ALLEN SET HEX WITH BALL HEAD



Art. No. 715.4050 - P. Qty. 1

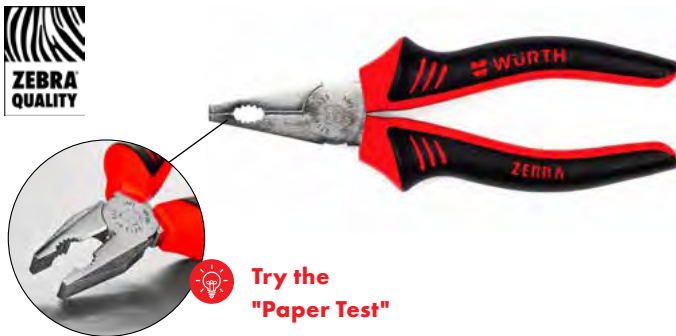
9 pcs, ball head, extra-long version, in plastic holder

Features:

- Easy removal of Allen keys – the rotation of one key, turns all other keys in the same direction.
- Allen key with an angle of max. of 25°

Set (hex symbol)	Contents (mm)	Art. No.	P. Qty.
9 Pcs	1.5; 2; 2.5; 3; 4; 5; 6; 8; 10	715.4050	1

COMBINATION PLIERS



Try the
"Paper Test"

2K grip for gripping, holding and cutting hard and soft wires and cables

- DIN ISO 5746
- High-quality tool steel ensures long tool life and precision of gripping and cutting surfaces
- Extra-long blade also suitable for thicker cables
- Ergonomic and slip-free 2K comfort handle with narrow collar profile for comfortable working and optimum force transfer
- Inductively hardened precision blades
- Burner port for gripping round materials
- Surface: Entirely ground and chrome-plated
- Joint: Lap joint

Length (in.)	Length (mm)	Medium-hard wire	Hard wire	Copper and aluminum cable	Art. No.	P. Qty.
6 1/2"	170	3.1 mm diameter	2.0 mm diameter	10.0 mm diameter	714.01554	1
7"	180	3.4 mm diameter	2.2 mm diameter	12.0 mm diameter	714.01555	
8"	200	3.8 mm diameter	2.5 mm diameter	13.0 mm diameter	714.01556	

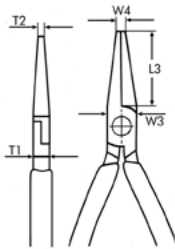
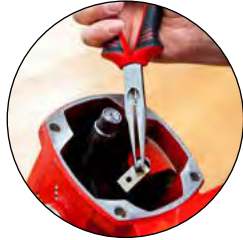


PVC double dipped

- DIN ISO 5746
- High-quality tool steel for long service life and precise gripping and cutting surfaces
- Extra-long blade also suitable for thicker cables
- Blades: Additional inductive hardening
- Surface: Entirely polished and sealed with clear lacquer
- Handle shells: PVC, double-dipped
- Joint: Lap joint

Length (in.)	Length (mm)	Medium-hard wire	Hard wire	Art. No.	P. Qty.
7"	180	2.8 mm diameter	2.5 mm diameter	715.01575	1

NEEDLE NOSE PLIERS



2K grip for gripping, holding and cutting soft and hard wires and cables

- DIN ISO 5745
- High-quality tool steel for long service life and precise gripping and cutting surfaces
- Elastic tips for high stresses, especially under bending forces
- Ergonomic and slip-free 2K comfort handle with narrow collar profile for comfortable working and optimum force transfer
- Blades: Additional inductive hardening
- Surface: Entirely ground and chrome-plated
- Gripping surfaces: Toothed
- Joint: Lap joint

Length (mm)	Tip geometry	Jaw shape	L3 (mm)	W3 (mm)	T1 (mm)	W4 (mm)	T2 (mm)	Art. No.	P. Qty.
210			76	17.5	9.5	4	3	714.01557	1
			72					714.01558	
160			50	16.5	9	3	2.5	714.01559	
			46					714.01562	



PVC double dipped

- DIN ISO 5745
- High-quality tool steel for long service life and precise gripping and cutting surfaces
- Extra-long blade also suitable for thicker cables
- Blades: Additional inductive hardening
- Surface: Entirely polished and sealed with clear lacquer
- Handle shells: PVC, double-dipped
- Joint: Lap joint

Length (mm)	Jaws length (mm)	Jaws width (mm)	Jaws thickness (mm)	Art. No.	P. Qty.
200	77	20	11	715.01568	1

SIDE CUTTERS



2K grip for cutting hard and soft wires and cables, including in hard-to-reach places

- DIN ISO 5749
- Strength-saving, clean cutting thanks to milled precision cutting edge
- High-quality tool steel ensures long service life and precision of blades
- Slim head shape for optimum accessibility
- Ergonomic and slip-free 2K comfort handle with narrow collar profile for comfortable working and optimum force transfer
- Inductively hardened precision blades
- Surface entirely ground and chrome-plated
- Lap joint

Length (in.)	Length (mm)	Soft wire	Medium-hard wire	Hard wire	Art. No.	P. Qty.
5 1/2"	140	4.0 mm diameter	2.5 mm diameter	1.8 mm diameter	714.01566	1
6 1/4"	160		2.8 mm diameter	2.0 mm diameter	714.01567	
7"	180		3.0 mm diameter	2.5 mm diameter	714.01568	



PVC double dipped

- DIN ISO 5749
- Strength-saving, clean cutting due to specially-milled precision cutting edge
- High-quality tool steel ensures long service life and precision of blades
- Inductively hardened
- Surface entirely polished and sealed with clear lacquer
- Handle shells: PVC, double-dipped

Length (in.)	Length (mm)	Medium-hard wire	Hard wire	Piano wire	Art. No.	P. Qty.
7"	180	3.8 mm diameter	2.7 mm diameter	2.2 mm diameter	715.01572	1

POWER SIDE CUTTERS



2K grip for cutting piano wire, hard and soft wire

- DIN ISO 5749
- Strength-saving, clean cutting thanks to milled precision cutting edge
- High-quality tool steel ensures long service life and precision of blades, even under maximum loads
- Ergonomic and slip-free 2K comfort handle with narrow collar profile for comfortable working and optimum force transfer
- Inductively hardened precision blades
- Surface: Entirely ground and chrome-plated
- Joint: Lap joint, forged on rivets

Length (in.)	Length (mm)	Soft wire	Medium-hard wire	Hard wire	Piano wire	Art. No.	P. Qty.
5 1/2"	140	4.0 mm diameter	3.1 mm diameter	2.0 mm diameter	1.5 mm diameter	714.01551	1
6 1/4"	160		3.4 mm diameter	2.5 mm diameter	2.0 mm diameter	714.01552	
7"	180		3.8 mm diameter	2.7 mm diameter	2.2 mm diameter	714.01553	
8"	200	4.5 mm diameter	4.2 mm diameter	3.0 mm diameter	2.5 mm diameter	714.01598	

HEAVY-DUTY SIDE CUTTERS, REVERSIBLE



By pressing the power button, you get twice the cutting power!

2 tools in one: Side cutters with connectible lever transmission

- High cutting power also allows you to cut thick cables
- Avoids hard cutting impact like with experienced with conventional side cutters
- Precision cutting has a long service life
- High-grade steel
- Safe handling
- Ergonomic 2K plastic handle with non-slip surface
- Material: Steel
- Surface: Chrome-plated
- Joint: launched



2 in 1!

Side cutters with connectible lever transmission

Length (in.)	Length (mm)	Soft wire	Medium-hard wire	Hard wire	Piano wire	Art. No.	P. Qty.
8"	200	5 mm diameter	4.5 mm diameter	3.5 mm diameter	3 mm diameter	714.01599	1

- Soft wire
- Medium-hard wire
- Hard wire
- Piano wire

WIRE STRIPPING PLIERS



2K grip, precise, effortless stripping of cables and wires with plastic or rubber insulation

- High-quality tool steel
- Long service life and precision of cutting surfaces.
- For single, multi and fine-wire conductors
- Opening spring opens pliers automatically
- Ergonomic and non-slip 2K comfort handle with narrow collar profile
- Comfortable working and optimum power transmission.
- Adjustment screw can be fixed in place with knurled nut
- Surface: entirely ground and chrome-plated
- Joint: Lap joint

Length (mm)	Diameter (mm)	(mm) ²	Art. No.	P. Qty.
160	5	10	714.01550	1



PVC double dipped

- DIN ISO 5743
- Integrated opening spring opens pliers automatically
- High-quality tool steel
- Long service life and precision cutting surfaces.
- Adjustment screw: Knurled locking nut
- Surface: Completely polished and sealed with clear lacquer
- Handle shells: PVC, double-dipped
- Joint: Lap joint

Length (mm)	Dia. (mm)	mm ²	Art. No.	P. Qty.
160	5.0	<10	715.01577	1

END CUTTING PLIER NIPPERS



- DIN ISO 5748
- Strength-saving, clean cuts with specially-milled precision cutting edge
- High-quality tool steel ensures long tool life and precision of cutting surfaces
- Blades: Additional inductive hardening
- Surface: Entirely polished and sealed with clear lacquer
- Handle shells: PVC, double-dipped
- Joint: lap joint

Length (mm)	Jaws width (closed) (mm)	Jaws length (mm)	Cutting edge length (mm)	Dia. (mm)	Dia. (mm)	Dia. (mm)	Art. No.	P. Qty.
160	30	9	25	3.5	2.5	2.2	715.01578	1

MINI SNIPPERS



714.07543

2k Mini Fine-cutters for precision work

Features:

- 2-component handle for easy comfortable grip
- Joint made with quality stainless steel riveting
- Opening spring design for ease of use
- Non-chamfered cutting and sharp flush cutting
- Standard: DIN ISO 9654

Art. No.	714.07542	714.07543	714.07544
Length	125 mm	125 mm	125 mm
Jaws width	12.5 mm	12.5 mm	13.5 mm
Cutting edge length	9 mm	9 mm	9 mm
Jaws thickness	7.5 mm	7.5 mm	7.5 mm
Min./max. soft wire diameter cutting capacity	0.2 - 1.0 mm	0.2 - 1.0 mm	0.2 - 1.6 mm
Max. medium wire diameter cutting capacity	Recommended for soft wire	Recommended for soft wire	1.2 mm
Material	Steel	Steel	Steel
Version	Narrow head	Narrow head with eccentric clamp	Narrow head
Surface	Polished	Polished	Polished

DOUBLE-JOINTED NEEDLE NOSE PLIERS SET



Art. No. 715.02600 - P. Qty. 1

For working on especially hard-to-reach places, 3-piece.

Passage in very narrow areas
Extremely slim design

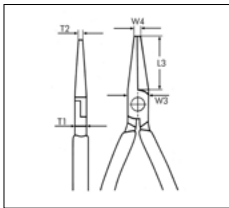
Wide opening of pliers with minimal handle movement
Special double joint

Optimum corrosion protection
Matt chrome-plated design

Anti-slip PVC handle sleeves

Area of application:

- Gripping and removing objects in narrow machinery areas
- Service, repair and maintenance on engines and machinery
- Installation and removal of cables, pipe and plug connections



L (mm)	L (in)		Design	L3 (mm)	T1 (mm)	T2 (mm)	W3 (mm)	W4 (mm)	Art. No.	P. Qty
340	13 1/2		straight	70	10	3	17	4.5	715.0261	1
330	13		angled 40°	65		3		4.5	715.0262	
300	12		straight	32		10		6	715.0263	

Currently only available as a set. Individual items are special order.

HOSE PINCHING PLIERS



For flexible hoses and Lines

Area of application:

- For quick pinching off of water hoses, oil and gasoline lines
- The locking mechanism holds the pliers in the desired clamping position
- Rounded pinching jaws prevent unwanted damage to lines.
- Made from glass fiber reinforced plastic in bright red colour.
- Heat resistant reinforced nylon construction

Application	Pinching range (mm)	Length of pinching jaws (mm)	Overall length (mm)	Art. No.	P. Qty
Gasoline and oil lines	Ø 5-14	20	155	714.601912	1
Water hoses	Ø 13-19	38	185	714.601919	
Water hoses	Ø 19-57	78	250	714.601956	
Complete set, consisting of all three pinching pliers				714.601931	

Currently only available as a set. Individual items are special order.

CONCRETE PLIERS

- DIN 5242



Length (in.)	Length (mm)	Type	Surface	Art. No.	P. Qty.
5"	200	Polished head	Phosphated	715.0204	1
8 1/2"	220			715.0205	
10"	250			715.0206	
11"	280			715.0207	

COMPACT BOLT CUTTERS



- For cutting hardened steel wires
- Comfortable grip
- Inductively hardened precision cutting edges
- Lever transfer for high performance cutting with less effort
- Chrome vanadium electric steel is oil-hardened and tempered for heavy-duty use
- Forged steel construction offers lasting durability

Length (mm)	Length (in)	Weight (g)	Soft wire	Medium wire	Hard wire	Piano wire	Art. No.	P. Qty.
200	8"	350	6.0 mm diameter	5.2 mm diameter	4.0 mm diameter	3.6 mm diameter	715.0601	1

COMPACT BOLT TRIMMER



- For cutting off and removing bolts pins, nails and wires
- Comfortable grip
- Inductively hardened precision cutting edges
- Lever transfer for high performance cutting with less effort
- Chrome vanadium electric steel is oil-hardened and tempered for heavy-duty use
- Forged steel construction offers lasting durability

Length (mm)	Length (in)	Weight (g)	Soft wire	Medium wire	Hard wire	Piano wire	Art. No.	P. Qty.
200	8"	440	6.0 mm diameter	4.0 mm diameter	3.5 mm diameter	3.0 mm diameter	715.06021	1

WATER PUMP PLIERS



2K grip, self-clamping water pump pliers with push button adjustment

- DIN ISO 8976
- Rapid and convenient fine adjustment at the push of a button, directly on the workpiece
- Hardened precision teeth
- High wear resistance and secure grip
- Ergonomic and non-slip 2K comfort handle with narrow collar profile
- Comfortable working and optimum power transmission
- Huge gripping capacity yet slim design

Length (mm)	Min./Max. Grip Range	Art. No.	P. Qty.
250	16 - 46 mm	714.01563	1

ANGLED COMBI PLIERS



Art. No. 714.01591 P. Qty: 1

A multi-functional plier that allows many applications in countless fields!

Features:

- Ergonomic and relaxed position of the hand.
- 2K handle for a better comfort.
- Convenient use when pulling objects.
- Grooves to get a grip of objects, e.g. nails
- Securing workpieces
- Gripping pipes
- Form-fit clamping of screw-driving parts
- Cutting cables and wires
- Length: 200 mm

Soft Wire: 5.9 mm
Hard Wire: 2.5 mm
Aluminum and Copper cables: 13 mm

ANGLED FLAT ROUND PLIERS



Art. No. 714.01592 P. Qty: 1

A nose tip plier for those hard to reach areas!

Features:

- Ergonomic and relaxed position of the hand.
- 2K handle for a better comfort.
- Convenient use when pulling objects.
- Cutting cables and wires
- Insulating conductors
- Gripping, securing and bending
- Crimping wire-end sleeves (low voltage)
- Length: 210 mm

Soft Wire: 5.9 mm
Hard Wire: 2.5 mm
Aluminum and Copper cables: 13 mm



PLIERS ASSORTMENT



Art. No. 965.905600

Pliers Set, 4pc System Assortment 4.4.1

- Number of pieces in assortment/set - 4pc
- Size foam section - 4.4.1
- Width x height x depth - 231 x 38 x 335 mm
- Décor - Carbon appearance

Description	Art. No.	P. Qty.
System insert 4.4.1, combination wrench empty	0955905600	
Power side cutters DIN ISO 5749 160mm	714.01552	
ZEBRA combination pliers DIN ISO 5746 L180MM	714.01555	1
ZEBRA needle nose pliers Straight-L210MM	714.01557	
Water pump pliers push button adj 2C handle 250MM	714.01563	

Item Only Available by Special Order



Side cutters:
160 mm



Combination pliers:
180 mm



Needle nose pliers:
210 mm



Water pump pliers:
250 mm

PLIER SETS



Art. No. 714.01565 4 pcs.

2K grip, set of combination pliers, water pump pliers, needle nose pliers and heavy-duty side cutters

- High-quality tool steel ensures long tool life and precision of gripping and cutting surfaces
- Combination pliers with extra-long blade also suitable for thicker cables
- Water pump pliers with convenient

quick-adjustment

- Needle nose pliers with tips for high bending stresses
- Power side cutters for piano wire, hard and soft wire
- Ergonomic and slip-free 2K comfort handle with narrow collar profile for comfortable working and optimum force transfer

Contents	Length (mm)	Art. No.	P. Qty.
Combination Pliers	180	714.01555	1
Water Pump Pliers	250	714.01563	
Needle Nose Pliers	210	714.01557	
Power Side Cutters	160	714.01552	



Art. No. 714.01560 4 pcs.

2K grip, set of combination pliers, stripping pliers, needle nose pliers and power side cutters

- High-quality tool steel ensures long service life and precision of gripping and cutting surfaces
- Combination pliers with extra-long blade also suitable for thicker cables
- Wire stripping pliers with opening

spring for automatic opening

- Needle nose pliers with tips for high bending stresses
- Heavy-duty side cutters for piano wire, hard and soft wire
- Ergonomic and slip-free 2K comfort handle with narrow collar profile for comfortable working and optimum force transfer

Contents	Length (mm)	Art. No.	P. Qty.
Combination Pliers	180	714.01555	1
Wire Stripping Pliers	160	714.01550	
Needle Nose Pliers	210	714.01557	
Power Side Cutters	160	714.01552	



Art. No. 715.01560 5 pcs.

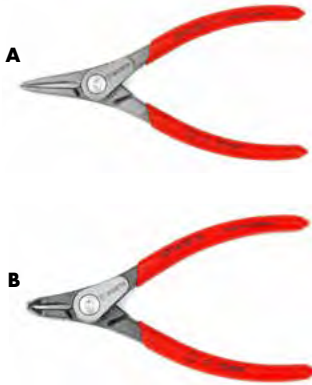
PVC double dipped, set of needle nose pliers, side cutter pliers, combination pliers, insulation stripping pliers, cutting pliers

Description:

- All the pliers you need in your daily work in one set. Perfect for all applications and industries.
- Handles with textured surface for comfort and an anti-slip grip.

Description	Length (mm)	Art. No.	P. Qty.
Needle Nose Pliers	200	715.01568	1
Side Cutter Pliers	180	715.01572	
Combination Pliers	180	715.01575	
Insulation Stripping Pliers	160	715.01577	
Cutting Pliers	160	715.01578	

CIRCLIP PLIERS TYPE A/B



For shaft locking rings

Standard: DIN 5254

Handle: Plastic-coated

- Guarantees a secure grip, prevents slippage

Tip from compressed spring steel

- Optimised stability, even with seized rings.

Inserted tips

- Offers maximum strength when loosening seized rings and allows rings to be installed with minimal distortion.

Screwed and mounted joint

- High precision and optimised movement.

Large locating faces

- Rings mounted without torsion.

Pliers head

- Narrow design for optimum access to workpiece, including in hard-to-reach spots.

Internal spring

- Inside screwed joint for protection
- Does not obstruct work
- Cannot be soiled or lost

Length (mm)	DIN 5254 Form	Min./Max. grip range	Tenon diameter (mm)	Jaws length (mm)	Hook length (mm)	Art. No.	P. Qty.
140		3 - 10	0.9	39	-	714.0211	1
180		10 - 25	1.25	38		714.0212	
225		19 - 60	1.8	56		714.0213	
320		40 - 100	2.25	70		714.0214	
		85 - 140	3.2	92		714.0215	
130		3 - 10	0.9	27	12	714.0216	
165		10 - 25	1.25	40	15	714.0217	
210		19 - 60	1.8	55	16	714.0218	
305		40 - 100	2.25	73	20	714.0219	
		85 - 140	3.2			714.0220	

CIRCLIP PLIERS SHAPE C/D



For bore circlips

Standard: DIN 5256

Handle: Plastic-coated

- Guarantees a secure grip, prevents slippage

Tip from compressed spring steel

- Optimised stability, even with seized rings

Inserted tips

- Offers maximum strength when loosening seized rings and allows rings to be installed with minimal distortion.

Screwed and mounted joint

- High precision and optimised movement.

Large locating faces

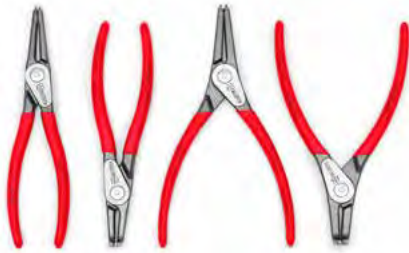
- Rings mounted without torsion.

Pliers head

- Narrow design for optimum access to workpiece, including in hard-to-reach spots.

Length (mm)	DIN 5256 Form	Min./Max. grip range	Tenon diameter (mm)	Jaws length (mm)	Hook length (mm)	Art. No.	P. Qty.
140		8 - 13	0.9	39	-	714.0201	1
180		12 - 25	1.25	38		714.0202	
225		19 - 60	1.8	54		714.0203	
320		40 - 100	2.25	65		714.0204	
		85 - 140	3.2	91		714.0205	
130		8 - 13	0.9	26	12	714.0206	
165		12 - 25	1.25	40	14	714.0207	
210		19 - 60	1.8	49	16	714.0208	
305		40 - 100	2.25	73	20	714.0209	
		85 - 140	3.2			714.0210	

CIRCLIP PLIERS SET



Art. No. 714.0230 4 pcs.

4-piece set

Handle: Plastic-coated

- Guarantees a secure grip, prevents slippage

Tip from compressed spring steel

- Optimised stability, even with seized rings.

Inserted tips

- Offers maximum strength when loosening seized rings and allows rings to be installed with minimal distortion.

Screwed and mounted joint

- High precision and optimised movement.

Large locating faces

- Rings mounted without torsion.

Pliers head

- Narrow design for optimum access to workpiece, including in hard-to-reach spots.

Contents:

- 1 circlip pliers, Form A, 19 - 60 mm
- 1 circlip pliers, Form B, 19 - 60 mm
- 1 circlip pliers, Form C, 19 - 60 mm
- 1 circlip pliers, Form D, 19 - 60 mm

Designation	Art. No.	Designation	Art. No.	P. Qty.
Form C, 19 - 60 mm	714.0203	Form A, 19 - 60 mm	714.0213	1
Form D, 19 - 60 mm	714.0208	Form B, 19 - 60 mm	714.0218	

CIRCLIP PLIERS ASSORTMENT



Art. No. 965.905602

Circlip Pliers Set, 4pc System Assortment 4.4.1

- Number of pieces in assortment/set - 4pc
- Size foam section - 4.4.1
- Width x height x depth - 231 x 38 x 335 mm
- Décor - Carbon appearance

Description	Art. No.	P. Qty.
System insert 4.4.1, combination wrench empty	0955905602	1
DIN 5256 shape C bore circlips (19-60MM)	714.0203	
DIN 5256 shape D bore circlips (19-60MM)	714.0208	
DIN 5254 shape A shaft locking rings (19-60MM)	714.0213	
DIN 5254 shape B shaft locking rings (19-60MM)	714.0218	

Item Only Available by Special Order



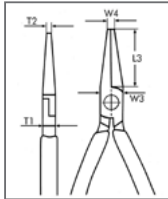
Form A

Form B

Form C

Form D

INSULATED NEEDLE NOSE PLIERS



For gripping, holding, and cutting soft and hard wires and cables

- In compliance with the prescribed safety measures, for work under voltages up to 1,000 V (AC) or up to 1,500 V (DC)
- High-quality tool steel ensures long tool life on tips and cutting surfaces
- Tips design for use on heavy high loads
- Ergonomic, non-slip, two-component comfort handle with wide insulated collar for secure working

IEC 60900 Compliant

Cutting edges: With additional inductive hardening

Surface: Ground and chrome-plated all around

Grip surfaces: Toothed

Joint: Designed for accurate guide and leverage



Length (mm)	Length (in)	Tip geometry	Jaw shape	L3 (mm)	W3 (mm)	T1 (mm)	W4 (mm)	T2 (mm)	Art. No.	P. Qty.
210	8 1/4"			74	17.5	9.5	3	2.5	714.01577	1

INSULATED WIRE STRIPPING PLIERS



Precise and effortless stripping of cables and wires with plastic or rubber insulation

- In compliance with the prescribed safety measures, for work under voltages up to 1,000 V (AC) or up to 1,500 V (DC)
- High-quality tool steel ensures long tool life and precision
- Automatic opening of the pliers by use of an opening spring
- Ergonomic, non-slip, two-component comfort handle with wide insulated collar for secure working

IEC 60900 Compliant

Adjustment screw: With knurled locking nut

Surface: Ground and chrome-plated all around

Joint: Designed for accurate guide and leverage



Length (mm)	Length (in)	Diameter (mm)	Max. wire cross section (mm) ²	Art. No.	P. Qty.
160	6 1/4"	5.0	10	714.01570	1

INSULATED COMBINATION PLIERS



For gripping, holding, and cutting hard and soft wire and cable

- In compliance with the prescribed safety measures, for work under voltages up to 1,000 V (AC) or up to 1,500 V (DC)
- High-quality tool steel ensures long tool life and precision of gripping and cutting surfaces
- Extra-long cutting edge allows for thicker cables
- Ergonomic, non-slip, two-component comfort handle with wide insulated collar for secure working

IEC 60900 Compliant

Cutting edges: Inductively-hardened precision cutting edges

Torch hole: For gripping of round materials

Surface: Ground and chrome-plated all around

Joint: Designed for accurate guide and leverage



Length (mm)	Length (in)	Medium-hard wire	Hard wire	Copper and aluminum cable	Art. No.	P. Qty.
180	7"	3.4 mm diameter	2.2 mm diameter	12.0 mm diameter	714.01575	1

INSULATED SIDE CUTTERS



For cutting hard and soft wires and cables even in hard-to-reach areas

- In compliance with the prescribed safety measures, for work under voltages up to 1,000 V (AC) or up to 1,500 V (DC).
- Effort-saving, clean cutting with milled precision cutting edge
- High-quality tool steel ensures long tool life and precision cutting surfaces
- Optimal accessibility thanks to slim head shape
- Ergonomic, non-slip, two-component comfort handle with wide Insulated collar for secure working

IEC 60900 Compliant

Cutting edges: Inductively-hardened precision cutting edges

Surface: Ground and chrome-plated all around

Joint: Designed for accurate guide and leverage



Length (mm)	Length (in)	Soft wire	Medium-hard wire	Hard wire	Art. No.	P. Qty.
160	6 1/4"	4.0 mm diameter	2.8 mm diameter	2.0 mm diameter	714.01572	1

INSULATED PLIERS SET

Art. No. 714.01580 4 pcs.

Combination Pliers, Wire Stripping Pliers, Needle Nose Pliers, Side Cutters

- In compliance with the prescribed safety measures, for work under voltages up to 1,000 V (AC) or up to 1,500 V (DC).
- High-quality tool steel ensures long tool life and precision of gripping and cutting surfaces
- Ergonomic, non-slip two-component comfort handle with wide Insulated collar for secure working
- Combination pliers with extra-long cutting edge for thicker cables
- Wire stripping pliers open automatically via opening spring
- Needle nose pliers with tips for high bending loads
- Side cutters with slim head shape for optimum accessibility

IEC 60900 Compliant



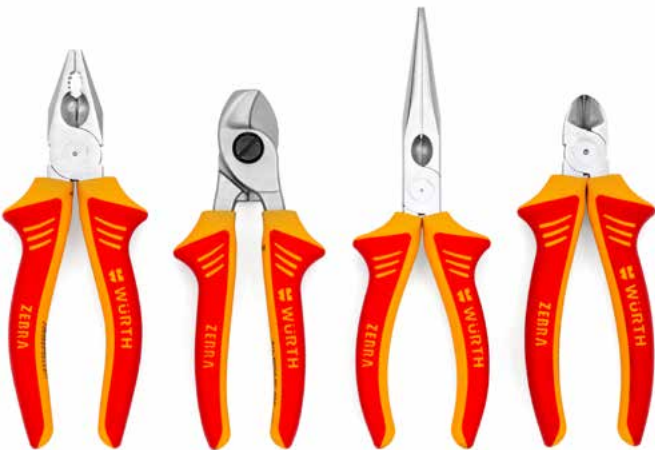
Contents	Total Length (mm)	Total Length (in.)	Art. No.	P. Qty.
Combination Pliers	180	7"	714.01575	1
Wire Stripping Pliers	160	6 1/4"	714.01570	
Needle nose Pliers	210	8 1/4"	714.01577	
Side Cutters	160	6 1/4"	714.01572	

Art. No. 714.01581 4 pcs.

Combination Pliers, Cable Shears, Needle Nose Pliers, Side Cutters

- In compliance with the prescribed safety measures, for work under voltages up to 1,000 V (AC) or up to 1,500 V (DC).
- High-quality tool steel ensures long tool life and precision of gripping and cutting surfaces
- Ergonomic, non-slip two-component comfort handle with wide VDE collar for secure working
- Combination pliers with extra-long cutting edge for thicker cables
- Cable cutters for easy cutting of single- and multi-wire cables
- Needle nose pliers with tips for high bending loads
- Side cutters with slim head shape for optimum accessibility

IEC 60900 Compliant



Contents	Total Length (mm)	Total Length (in.)	Art. No.	P. Qty.
Combination Pliers	180	7"	714.01575	1
Cable Shears	160	6 1/4"	714.01585	
Needle nose Pliers	210	8 1/4"	714.01577	
Side Cutters	160	6 1/4"	714.01572	

INSULATED CABLE CUTTERS

A) Single cutting edge



B) Double cutting edge, for pre- and post-cutting



For cutting copper and aluminum cable

- In compliance with the prescribed safety measures, for work under voltages up to 1,000 V (AC) or up to 1,500 V (DC).
- High-quality tool steel ensures long tool life and precision cutting surfaces
- Special shear geometry enables easy and deformation-free cutting through single and multi-wire cable
- Double cutting edge for optimum transmission of force
- Ergonomic, non-slip, two-component comfort handle with wide Insulated collar for secure working

IEC 60900 Compliant

Cutting edges: Hardened precision cutting edges

Surface: Ground and chrome-plated

Joint: Adjustable screw connection



Image	Length (mm)	Length (in)	Diameter	⊕	Max. wire cross section (mm ²)	⊕	Art. No.	P. Qty.
A	160	6 1/4"	15.0 mm diameter	⊕	50	⊕	714.01585	1
B	200	8"	20.0 mm diameter	⊕	70	⊕	714.01586	

VDE POWER SIDE CUTTERS



For cutting piano wire, hard, and soft wire

- For working on live parts up to 1,000 volts (AC) and up to 1,500 volts (DC), observing all prescribed safety precautions
- Strength-saving, clean cutting thanks to milled precision cutting edge
- High-quality tool steel ensures long tool life and precision of blades under maximum stresses
- Ergonomic and slip-free 2-component comfort handle with wide Insulated collar for secure working
- Blades: inductively hardened precision blades
- Surface: entirely ground and chrome-plated
- Joint: Lay-on, axis forged on
- Material of the grip handle: Polyvinyl chloride

IEC 60900 Compliant



Length (mm)	Length (in)	Soft wire	Medium wire	Hard wire	Piano wire	Art. No.	P. Qty.
200	8"	4.5 mm diameter	4.0 mm diameter	3.0 mm diameter	2.5 mm diameter	714.01597	1

INSULATED 3-IN-1 ELECTRICAL INSTALLATION PLIERS



3 in 1 Pliers: For cutting, sheathing, and stripping insulation from electrical cables

According to safety measures for working on live parts
Up to 1,000 Volt (AC), to 1,500 Volt (DC)

3 tools in 1

- Comfortable handling eliminates the need to change tools
- Side cutter function
- Stripping insulation in an ergonomic pulling motion

Ergonomic handle for safe working

Non-slip 2-component comfort handle with wide insulated collar

Inductively-hardened precision cutting edges

Surface ground and chrome-plated

Lap joint

IEC 60900 Compliant

Application: For round cables measuring \varnothing 8-12 mm
For cables sticking out from distribution boxes, wall boxes, junction boxes, switch boxes, switch cabinets or simply for loose cables. Can be used for electrical installation, heating and ventilation systems, systems engineering, trade fair construction, kitchen construction or other trades.



Length (mm)	Length (in.)	Min./Max. wire cross section mm ²	Max. cable diameter for ALU/CU	Art. No.	P. Qty.
180	7"	1.5 - 2.5 mm ²	\varnothing 8 - 12 mm	714.01588	1



Cut cable with the side cutter



Carefully cut into the sheath with the blades until the stop rests against the sheath. Then rotate the pliers part way around the cable



Bend the cable end slightly until the separation point breaks, and pull off the piece of sheath



Remove the insulation of the individual conductors with the stripping holes

INSULATED PLIERS AND SCREWDRIVER SET



Art. No. 714.01582 8 pcs.

- In compliance with the prescribed safety measures, for work under voltages up to 1,000 V (AC) or up to 1,500 V (DC).
- High-quality tool steel ensures long tool life and precision of gripping and cutting surfaces
- Wire stripping pliers open automatically via opening spring
- Side cutters with slim head shape for optimum accessibility
- Snipe nose pliers with tips for high bending loads
- Ergonomic, non-slip two-component comfort handle for secure working

IEC 60900 Compliant



Contents	Total Length (mm)	Total Length (in.)	Art. No.	P. Qty.
Wire Stripping Pliers	160	6 1/4"	714.01570	1
Side Cutters			714.01572	
Needle nose Pliers	210	8 1/4"	714.01577	
Slotted Screwdriver, 0.4 x 55 x 2.5 mm	160	6 1/4"	613.631025	
Slotted Screwdriver, 0.8 x 55 x 4.0 mm	180	7"	613.63104	
Slotted Screwdriver, 1.2 x 55 x 6.5 mm	260	10 1/4"	613.631065	
PH 1 Screwdriver	180	7"	613.6321	
PH 2 Screwdriver	210	8 1/4"	613.6322	

VICE-GRIP PLIERS



With Semi-Circular Jaws

- Smooth-running release lever with spring mechanism
- One-handed operation, pulling instead of pressing
- Lock nut for locking clamping width
- Tough nickel coating

Length (mm)	Min./Max. clamping width (mm)	Material	Surface	Product weight (per piece)	Art. No.	P. Qty.
190	0 - 42	Steel	Nickel-plated	332 g	714.0907	1
235	0 - 48			512 g	714.0908	



With Straight Jaws

- Smooth-running release lever with spring mechanism
- One-handed operation, pulling instead of pressing
- Lock nut for locking clamping width
- Tough nickel coating

Length (mm)	Min./Max. clamping width (mm)	Material	Surface	Product weight (per piece)	Art. No.	P. Qty.
235	0 - 46	Steel	Nickel-plated	560 g	714.0910	1

VICE-GRIP PLIERS SET



Art. No. 714.09103 3 pcs.

3-piece, including high-quality tool roll.

Smooth-running release lever with spring mechanism

- One-handed operation, pulling instead of pressing.

Lock nut for locking clamping width

Tough nickel coating

Contents	Art. No.	P. Qty.
Vice-grip pliers with semi-circular jaws	714.0907	1
Vice-grip pliers with semi-circular jaws	714.0908	
Vice-grip pliers with straight jaws	714.0910	

HOG RING PLIER



Art. No. 502.7657

Offset angle nose for close to floor non-removable cushions.

PLIER WRENCH



Pliers and wrench in one tool

Plastic-covered handle

Jaws: parallel guidance, smooth, nickel-plated

- No damage to workpiece thanks to zero-backlash surface pressure

Adjustment with push button

- Adjustable directly on the workpiece

Joint: box joint

Force transmission: 10x

- High clamping force

The action of the gripping surfaces allows rapid tightening and loosening of bolted connections using the ratchet principle

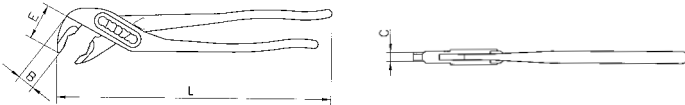
Max. grip range (mm)	Length (mm)	Width of clamping jaw (mm)	Jaws thickness (mm)	Art. No.	P. Qty.
27	150	12.0	5	715.02515	1
35	180	14.0	6	715.0251	
46	270	18.5	8	715.0250	
85	400	30.0	13	715.02514	

WATER PUMP PLIERS



Self-clamping water pump pliers with push button adjustment

- DIN ISO 8976
- Slip-resistant, plastic-coated handle
- Tempered chrome-vanadium steel
- Inductively hardened, polished teeth
- Pinch guard prevents crushing injuries
- Box joint
- Rapid and precise, one-hand fine adjustment directly on the workpiece
- No unintentional adjustment
- Self-clamping on pipes and nuts
- No slippage on workpiece
- Head: black



Length (mm)	Min./Max. Grip Range (mm)	E (mm)	B (mm)	C (mm)	Art. No.	P. Qty.
180	10 - 36	31	12	11.0	715.0233	1
250	10 - 46	35	17	12.0	715.0223	
300	10 - 60	40	18	14.0	715.02331	
400	10 - 95	56	25	18.0	715.0234	



Box joint, 7x adjustable

DIN ISO 8976

Handle: Plastic-coated

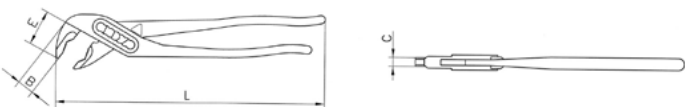
- Prevents slippage

Teeth: Inductively hardened

- Self-locking on pipes and nuts
- Does not slip off the workpiece

Head: Painted black, ground

Material: Chrome-vanadium steel, hardened



L (mm)	⌀ _A (in.)	⌀ _A (mm)	E (mm)	B (mm)	C (mm)	Art. No.	P. Qty.
175	1"	28	27	12	6	714.0275	1
250	1"	30	32	16	7	714.0276	
300	1 1/2"	40	40	19	10	714.0277	

90° CORNER PIPE WRENCH



Swedish type, angled 90°

Continuously adjustable

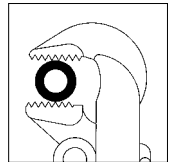
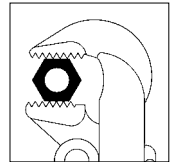
- Fixed with captive adjusting nuts

Optimal hold with high strength properties

- Tothing on head set against the direction of rotation

Durable and wear resistant

- Inductively hardened teeth



Max. pipe diameter (in.)	Grip range (mm)	Length (mm)	Clamping jaw width (mm)	Jaws thickness (mm)	Art. No.	P. Qty.
1"	35	310	18	15.5	714.0650	1
2"	65	560	25	22.5	714.0652	

45° CORNER PIPE WRENCH



Swedish type, angled 45°

Continuously adjustable

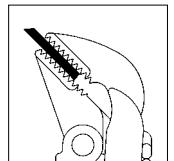
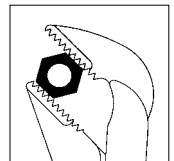
- Fixed with captive adjusting nuts

Optimal hold with high strength properties

- Tothing on head set against the direction of rotation

Durable and wear resistant

- Inductively hardened teeth



Max. pipe diameter (in.)	Grip range (mm)	Length (mm)	Clamping jaw width (mm)	Jaws thickness (mm)	Art. No.	P. Qty.
1"	35	314	22	13.0	714.0655	1
2"	65	570	31	19.5	714.0657	

S-JAW CORNER PIPE WRENCH



Swedish form, S-jaw, with three-point support and self-adhesive fixing.

Continuously adjustable

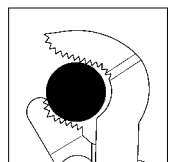
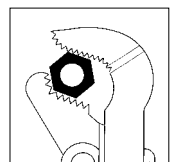
- Fixed with captive adjusting nuts

Optimal hold with high strength properties

- Tothing on head set against the direction of rotation

Durable and wear resistant

- Inductively hardened teeth



Max. pipe diameter (in.)	Grip range (mm)	Length (mm)	Clamping jaw width (mm)	Jaws thickness (mm)	Art. No.	P. Qty.
1"	35	320	18	10.5	714.0660	1
2"	65	535	28	12.5	714.0662	
3"	80	640	30	15.5	714.0663	

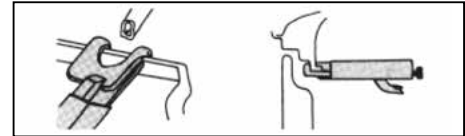
BODY VICE-GRIP PLIERS



Clamping width	Clamping depth	Jaw width	Length	Art. No.	Qty.
0 mm to 15 mm	9 mm	40 mm	210 mm	713.09300	1

"LL" Model

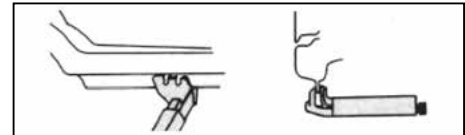
- For plug welding between the jaws.
- For use on door sills, wheel arches, roof skin, side panels and problem areas.
- Suitable for U-profiles.



Clamping width	Clamping depth	Jaw width	Length	Art. No.	Qty.
0 mm to 15 mm	36 mm	57 mm	195 mm	713.09301	1

"W" Model

- For spot welding between openings.
- For use on door openings, side panels and folded metal sheets.



Clamping width	Jaw width	Length	Art. No.	Qty.
0 mm to 18 mm	18 mm	195 mm	713.09302	1

"L" Model

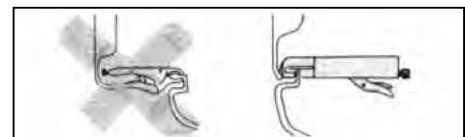
- Especially suitable for work on curves thanks to the slim shape.
- For use on door openings, lower center rear-end parts, wheel arches and problem areas.



Clamping width	Clamping depth	Jaw width	Length	Art. No.	Qty.
0mm to 15 mm	7 mm	18 mm	205 mm	713.09303	1

"J" Model

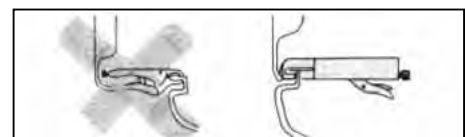
- For working on U-profiles and welds infolds.
- For use on center rear-end parts, rear side panels and U-shaped body profiles.



Clamping width	Clamping depth	Jaw width	Length	Art. No.	Qty.
0mm to 15 mm	27 mm	40 mm	230 mm	713.09304	1

"JJ" Model

- With wide opening.
- For use on center rear-end parts and side panels, for clamping "z-shaped" profiles, e.g. tail light mounts.



SHEET METAL SHEARS



Levered sheet metal shears with two-part plastic handle. Ideal shears for continuous and figure cutting.

- Handle sections made of two-part plastic (Item 1). Prevents slipping of hand.
- Bottom handle section made of one-part plastic (Item 2). The sliding of fingers over the bottom handle is made possible when opening and closing the handle.
- Ridges on the handles prevent the shears slipping out of one's hand (Item 3). Secure guidance of the sheet metal shears.
- Cutting head made of special stainless steel, drop-forged. Cutting edges inductively hardened (Item 4). Long service life.
- Non-toothed cutting shape (Item 5). Minimal force required, no slipping of the sheet.
- With leverage transfer. High cutting force with low force application.



Model	L in mm	Cutting capacity up to (mm)		Art. No.	P. Qty.
		Sheet steel	Stainless steel		
Right-hand cutting	260	1.8	1.2	713.03100	1

SHEET METAL SNIPS



Extremely manoeuvrable, powerful and compact

Double leverage

- Lower application of force with simultaneously increased cutting performance

Perfect design

- Small and light, therefore enormously manoeuvrable and versatile
- Easily stored in any jacket pocket or carpenter's pocket

Extremely compact shearing head

- Ideal for cutting extremely tight radii and for hard-to-reach places

Combined lock and stop

- Combined lock and stop for improved safety
- Shears can be quickly and easily closed and kept closed

Ergonomically shaped handle

- Handle sits extremely well in the hand and is especially easy to grip thanks to the soft insert in the upper handle shell. This also guarantees low-fatigue working

Optimised cutting geometry

- No slipping and no serration



Version	Length (mm)	Cutting capacity (mm)		Art. No.	P. Qty.
		Steel sheet	Stainless Steel		
Right-hand cutting	180	1.2	0.8	713.03200	1

METAL SNIPS



Leverage sheet metal snips for continuous and shaped cuts

Rounded grip made from 2-component plastic

- Prevents your hand from slipping

Lower handle made from 1-component plastic

- You can slide your finger over the lower handle when opening and closing the handle

Handle heights prevent the shears from slipping out of your hand

- Safe execution of the sheet-metal shears

Long service life

- Cutting head made from special stainless steel, die-forged
- Induction hardened cutting edges

Unserrated cutting geometry

- Effortless, without the sheet metal slipping

Lever transmission

- High cutting power with little effort



Ideal Shears for continuous and figure cutting

Version	Length (mm)	Cutting capacity (mm)		Art. No.	P. Qty.
		Steel sheet	V2A		
Right-hand cutting	260	1.8	1.2	713.03100	1
Left-hand cutting				713.03110	



Ideal Shears with carbide cutting edges for continuous and figure cutting

- Greater cutting capacity and longer service life
- Especially suitable for cutting stainless steel

Version	Length (mm)	Cutting capacity (mm)		Art. No.	P. Qty.
		Steel sheet	V2A		
Right-hand cutting	260	1.8	1.2	713.03130	1
Left-hand cutting				713.03135	



Figure Shears for continuous and tight figure cutting

Version	Length (mm)	Cutting capacity (mm)		Art. No.	P. Qty.
		Steel sheet	V2A		
Right-hand cutting	260	1.8	1.2	713.03115	1
Left-hand cutting				713.03120	



Spare Part Assortment

Art. No. 713.0350

- 1x spring, 2x disk spring, 2x screw, 1x pin

SHAPE-CUTTING SNIPS



Art. No. 714.0308 P. Qty. 1

Inductively hardened cutting edges guarantee a long service life and optimum cutting results

- Fully die-forged sheet metal shears (head and handle)
- For sheet thickness up to 1 mm
- Length: 250 mm

SHEET METAL SHEARS



Inductively hardened cutting edges guarantee a long service life and optimum cutting results

- Fully forged sheet metal shears (head and handle)
- For sheet thickness up to 1 mm
- Cutting length 34 mm

Version	Length (mm)	Art. No.	P. Qty.
Right-hand cutting	280 mm	714.0309	1
Left-hand cutting		714.0310	

PELICAN SNIPS



Art. No. 714.0313 P. Qty. 1

Induction hardened cutting edges guarantee a long service life and optimum cutting results

- Fully forged sheet metal shears (head and handle)
- For sheet thickness up to 1 mm
- Cutting length: 62 mm

PIPE CUTTER



Easy cutting of aluminium, copper and thin-walled metal pipes

Very light weight

- Body, slide and turning knob made from high-pressure die-cast zinc

Easy to use

- Steel spindle bearings for smoother slider movement
- Four guide rollers for optimum pipe grip during cutting
- Longer turning knob sits deep in the hand for effective power transmission

Saves time

- Tool-free cutting wheel change

Min./Max. Cutting Capacity	Art. No.	P. Qty.
3-35 mm	714.551236	1



PIPE CUTTERS COMPACT



Easy cutting of aluminum, copper and thin-walled metal pipes

Features:

- Low weight
- Tool-free cutting wheel change
- Steel spindle bearings
- Very small working radius

Min./Max. Cutting Capacity	Art. No.	P. Qty.
3-16 mm	714.551117	1
3-30 mm	714.551127	

PLASTIC PIPE CUTTERS



For cutting plastic piping and plastic composite piping

With ratchet function

Minimal force required

- Magnesium die cast shears
Extremely robust yet light
- Blade retraction at the push of a button
Huge time savings
- Shear blade in coated
Stainless steel
Extremely clean cutting action and long service life
- No tools required to change blades

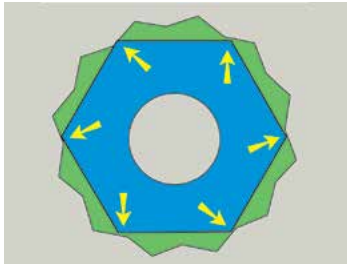
Diameter range (in.)	Diameter range (mm)	Total length (mm)	Art. No.	P. Qty.
0 - 1"	0 - 26 mm	205 mm	715.55150	1
0 - 1 5/8"	0 - 42 mm	240 mm	715.55160	
0 - 2 1/2"	0 - 63 mm	280 mm	715.55170	

POWERDRIV®

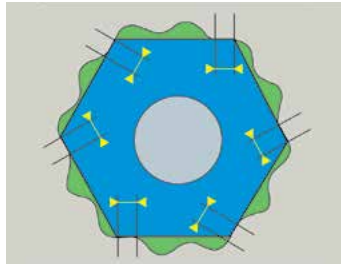
For secure gripping and high transmission of force.

The POWERDRIV® system was developed to meet the particularly high demands of the aviation industry in order to provide the highest level of fit tolerances.

The POWERDRIV® system enables a high transmission of forces at the ring and reduces wear on the bolt heads.



Without POWERDRIV®
= linear pressure



With POWERDRIV®
= Surface pressure

Overturning values above DIN:

Highest overturning values for the most extreme conditions.

The principle

The POWERDRIV® does not grip bolt heads at the corner as is usually the case, rather it grips the sides. This enlarges the driving flat and permits a higher transmission of force. After overturning, widths across flats remain within DIN specifications.

- The service life of the screws is increased, as stripping of heads is prevented.
- Even old and rusty screws can be loosened virtually trouble-free with the POWERDRIV® without rounding off.

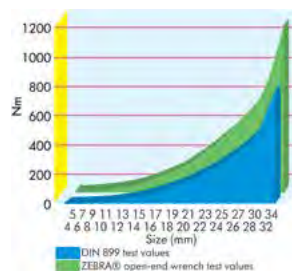


Precision

- The tight tolerances of the widths across flats guarantees greater reliability and safety when used intensively.



For above DIN

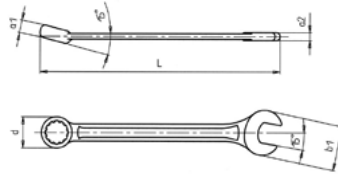


High-quality material




- Extremely resilient high-quality chrome-vanadium steel.
- Nickel pretreatment achieves optimum chrome adhesion, even under the heaviest mechanical stresses.
- Rounded finish prevents sharp corners and edges.
- Matte chrome plating ensures a good grip even in oily hands.

COMBINATION WRENCH, SHORT TYPE



Metric DIN 3113A/ISO 3318/7738

- Ring side drive: **POWERDRIV®** bi-hex
- Material: Chrome-vanadium steel
- Surface: Chrome-plated, polished heads and ring
- Geometry: Ring side angled 15°, head offset 15°

 (mm)	L (mm)	b1 (mm)	Dia. d (mm)	a1 (mm)	a2 (mm)	Art. No.	P. Qty.
5.5	100	14.0	10.5	5.5	3.7	713.301055	1
6			713.30106				
7	110	16.0	11.8	6.0	4.0	713.30107	
8	120	18.0	13.2			713.30108	
9	130	20.0	14.6	7.0	713.30109		
10	140	22.5	16.1	7.5	4.5	713.30110	
11	150	25.0	17.4	8.0	5.0	713.30111	
12	160	27.0	18.9	8.5	5.5	713.30112	
13	170	29.0	20.4	9.0		713.30113	
14	180	31.0	21.6	9.5	6.0	713.30114	
15	190	33.5	22.9	10.0		713.30115	
16	200	36.0	24.6		713.30116		
17	205	38.0	26.1	10.5	6.5	713.30117	
18	215	40.0	27.7	11.0	7.0	713.30118	
19	230	42.0	29.9	11.5	7.5	713.30119	
20	240	45.0	30.7	12.0	8.0	713.30120	
21	250	47.0	32.2	12.5		713.30121	
22	260	49.0	33.7	13.5	9.0	713.30122	
23	270	51.0	35.2	14.0		713.30123	
24	280	53.0	36.9	14.5	10.0	713.30124	
25	290	55.0	38.5	15.0		713.30125	
26	300	57.0	39.8	15.5	9.0	713.30126	
27	310	59.0	40.8			713.30127	
28	320	62.0	42.8	16.0	10.0	713.30128	
29	330	63.5	43.8	16.5		713.30129	
30	340	65.0	44.8	17.0	10.0	713.30130	
32	350	69.0	47.8	17.5	11.0	713.30132	
34	360	73.0	50.8	18.0	12.0	713.30134	

COMBINATION WRENCH SET, SHORT TYPE, 11 PCS.

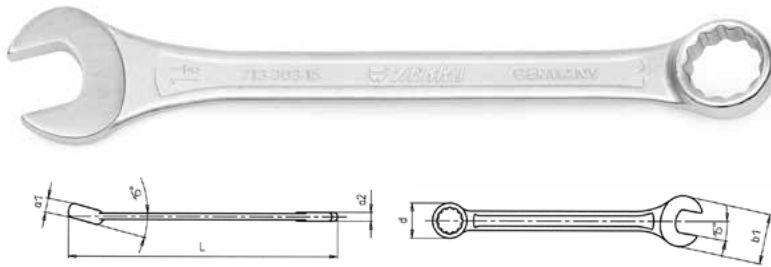


Metric DIN 3113A/ISO 3318/7738

- Drive: Ring side **POWERDRIV®** bi-hexagon
- Material: Chromium-vanadium steel
- Surface: Chrome-plated, polished heads and ring
- Geometry: Ring side angled 15°, head angle 15°

Set	 (mm)	Art. No.	P. Qty.
11 pcs.	8, 9, 10, 11, 12, 13, 14, 15, 17, 19, 22	713.30140	1

COMBINATION WRENCH, SHORT TYPE, IMPERIAL



Imperial

- Drive: Ring side **POWERDRIV**[®], bi-hex
- Standard: DIN 3113A/ISO 3318/773
- Material: Chrome-vanadium steel
- Surface: chrome-plated, heads and ring polished
- Geometry: Ring side angled 15°, jaw offset 15°

Hex (in.)	L (mm)	b1 (mm)	Ød (mm)	a1 (mm)	a2 (mm)	Art. No.	P. Qty.
1/4"	100	14	10.5	5.5	3.7	713.30301	1
5/16"	120	18	13.2	6	4	713.30302	
3/8"	140	22.5	16.1	7.5	4.5	713.30303	
7/16"	150	25	17.4	8	5	713.30304	
1/2"	170	29	20.4	9	5.5	713.30305	
9/16"	180	31	21.6	9.5	6	713.30306	
5/8"	200	36	24.6	10		713.30307	
11/16"	205	38	26.1	10.5	6.5	713.30308	
3/4"	230	42	29.9	11.5	7.5	713.30309	

Hex (in.)	L (mm)	b1 (mm)	Ød (mm)	a1 (mm)	a2 (mm)	Art. No.	P. Qty.
13/16"	250	47	32.2	12.5	8	713.30310	1
7/8"	260	49	33.7	13.5		713.30311	
15/16"	280	53	36.9	14.5		713.30312	
1"	290	55	38.5	15	9	713.30313	
1-1/16"	310	59	40.8	15.5		713.30314	
1-1/8"	330	63.5	43.8	16.5	10	713.30315	
1-1/4"	350	69	47.8	17.5	11	713.30316	
1-5/16"	360	73	50.8	18	12	713.30317	

COMBINATION WRENCH SET, SHORT TYPE, IMPERIAL

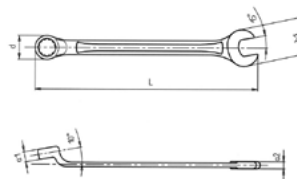


Short design, 8 pieces

- Drive: Ring side **POWERDRIV**[®], bi-hex
- Standard: DIN 3113A/ISO 3318/773
- Geometry: Ring side angled 15°, jaw offset 15°
- Material: Chromium-vanadium steel
- Surface: Chrome-plated, polished heads and ring

Hex (in.)	Art. No.	P. Qty.
3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 7/8	713.30340	1

COMBINATION WRENCH, OFFSET



Design: metric

- Drive: Ring side **POWERDRIV**[®], bi-hex
- Standard: DIN 3113B/ISO 3318
- Material: Chrome-vanadium steel
- Surface: chrome-plated, heads and ring polished
- Geometry: Ring side offset 10°, head offset 15°

Hex (mm)	L (mm)	a1 (mm)	a2 (mm)	Ød (mm)	b1 (mm)	Art. No.	P. Qty.
10	148	7.2	5.0	15.6	22.0	713.30210	1
13	184	8.6	6.0	19.4	28.3	713.30213	
16	220	10.0	6.8	23.2	34.6	713.30216	
17	232	10.5	7.2	24.4	36.6	713.30217	
18	244	11.0	7.4	25.7	38.7	713.30218	

Hex (mm)	L (mm)	a1 (mm)	a2 (mm)	Ød (mm)	b1 (mm)	Art. No.	P. Qty.
19	256	11.5	7.7	27.0	40.7	713.30219	1
21	280	12.4	8.3	29.7	45.0	713.30221	
22	292	12.9	8.6	31.0	47.0	713.30222	
24	315	13.9	9.2	33.8	51.0	713.30224	

COMBINATION WRENCH SET, OFFSET, 9 PCS.



- Drive: Ring side **POWERDRIV®**, bi-hex
- Standard: DIN 3113B/ISO 3318
- Geometry: Ring side offset 10°, jaw offset 15
- The narrow design has minimised outer dimensions, pronounced rounded contours and de-burred edges
- Material: Chromium-vanadium steel
- Surface: chrome-plated, polished heads and ring

Set	(mm)	Art. No.	P. Qty.
9 pcs.	10, 13, 16, 17, 18, 19, 21, 22, 24	713.30250	1

COMBINATION WRENCH ASSORTMENT



Item Only Available by Special Order



Art. No. 965.905401

Combination Wrench, 17pc System Assortment 4.4.1

- Metric, ring angled 15°.
- Number of pieces in assortment/set - 17pc
- Size foam section - 4.4.1
- Width x height x depth - 231 x 38 x 335 mm
- Décor - Carbon appearance

Description	Art. No.	P. Qty.
System insert 4.4.1, combination wrench empty	0955905401	
Combination wrench short ANGL-SHORT-6mm	713.30106	1
Combination wrench short ANGL-SHORT-7mm	713.30107	
Combination wrench short ANGL-SHORT-8mm	713.30108	
Combination wrench short ANGL-SHORT-9mm	713.30109	
Combination wrench short ANGL-SHORT-10mm	713.30110	
Combination wrench short ANGL-SHORT-11mm	713.30111	
Combination wrench short ANGL-SHORT-12mm	713.30112	
Combination wrench short ANGL-SHORT-13mm	713.30113	
Combination wrench short ANGL-SHORT-14mm	713.30114	
Combination wrench short ANGL-SHORT-15mm	713.30115	
Combination wrench short ANGL-SHORT-16mm	713.30116	
Combination wrench short ANGL-SHORT-17mm	713.30117	
Combination wrench short ANGL-SHORT-18mm	713.30118	
Combination wrench short ANGL-SHORT-19mm	713.30119	
Combination wrench short ANGL-SHORT-20mm	713.30120	
Combination wrench short ANGL-SHORT-21mm	713.30121	
Combination wrench short ANGL-SHORT-22mm	713.30122	

MULTI RATCHET COMBINATION WRENCH ASSORTMENT



Art. No. 965.905406

Multi Ratchet Combi Wrench Set, 8 pcs System Assortment 4.4.1

- Number of pieces in assortment/set - 8pc
- Size foam section - 4.4.1
- Width x height x depth - 231 x 38 x 335 mm
- Décor - Carbon appearance

Description	Art. No.	P. Qty.
System insert 4.4.1, combination wrench empty	0955905406	1
Multi-ratchet combination wrench - 8mm	071425608	
Multi-ratchet combination wrench - 10mm	071425610	
Multi-ratchet combination wrench - 12mm	071425612	
Multi-ratchet combination wrench - 13mm	071425613	
Multi-ratchet combination wrench - 16mm	071425616	
Multi-ratchet combination wrench - 17mm	071425617	
Multi-ratchet combination wrench - 18mm	071425618	
Multi-ratchet combination wrench - 19mm	071425619	

Currently only available as a set. Individual items are special order.

FLEXIBLE RATCHET COMBINATION WRENCH ASSORTMENT



Art. No. 965.905407

Flexible Ratchet Combination Wrench, 8 pc System Assortment 4.4.1

- Number of pieces in assortment/set - 8pc
- Size foam section - 4.4.1
- Width x height x depth - 231 x 38 x 335 mm
- Décor - Carbon appearance

Description	Art. No.	P. Qty.
System insert 4.4.1, combination wrench empty	0955905407	1
Flexible ratchet combination wrench matt WS8	714.26308	
Flexible ratchet combination wrench matt WS10	714.26310	
Flexible ratchet combination wrench matt WS12	714.26312	
Flexible ratchet combination wrench matt WS13	714.26313	
Flexible ratchet combination wrench matt WS16	714.26316	
Flexible ratchet combination wrench matt WS17	714.26317	
Flexible ratchet combination wrench matt WS18	714.26318	
Flexible ratchet combination wrench matt WS19	714.26319	

Item Only Available by Special Order

DUAL RATCHET COMBINATION WRENCH



Innovative wrench with ratchet function on the ring and open sides


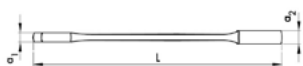

- Drive: Ring-side **POWERDRIV®** modified 12-point, open side with open ratchet segment.
- Standard: max. torque as per DIN 899.
- Material: Chrome-vanadium-steel.
- Surface: polished, chrome-plated.
- Geometry: straight on ring side, 15° angle on open side. To change the turning direction, simply turn the wrench around.

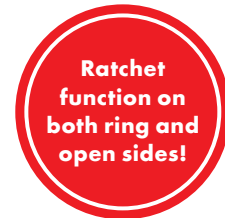
Areas of use:

Designed for union screw joints, e.g. brake lines, injection lines, air conditioning, hydraulics etc.



POWERDRIV®

 (mm)						Art. No.	P. Qty.
	L (mm)	a1 (mm)	a2 (mm)	Dia. d (mm)	b1 (mm)		
8	140	4.1	6.5	16.8	16.7	714.25908	1
9	149	4.3	6.9	18.8	18.7	714.25909	
10	158	4.8	7.3	20.8	20.8	714.25910	
11	165	5.1	7.7	21.8	23.5	714.25911	
12	171	5.3	8.2	22.8	24.6	714.25912	
13	178	5.9	8.6	24.8	26.8	714.25913	
14	190	6.3	9.0	27.8	29.0	714.25914	
15	199	6.6	9.4	28.8	31.0	714.25915	
16	208	6.9	9.9	30.8	33.0	714.25916	
17	225	7.3	10.3	31.8	35.5	714.25917	
18	236	7.8	10.7	32.8	37.5	714.25918	
19	247	8.3	11.2	33.8	39.4	714.25919	
21	289	8.8	13.0	40.0	45.8	714.25921	
22						714.25922	
24	322	9.8	14.5	46.0	51.8	714.25924	



- Open side features moving ratchet segment
- Enables working without stopping, as the wrench no longer needs to be taken off the nut. Ideal for all line screw joints

- Fine-toothed on ring side, 72 teeth, 5° rotating angle
- Very rugged and strong ratchet for high tightening torques

DUAL RATCHET COMBINATION WRENCH SET



Innovative wrenches with ratchet function both on ring and open sides

Contents: 6 pieces

- 1 ratchet combination wrench with double-ended ratchet function in each of the following sizes: 8; 10; 12; 13; 17; 19



Set	 (mm)	Art. No.	P. Qty.
6-pcs.	8, 10, 12, 13, 17, 19 mm including plastic holder	714.25950	1

RATCHET COMBINATION WRENCH – FLEXIBLE



POWERDRIV®





The 180° articulated joint of the ring wrench allows easy and flexible access to work, even in tight areas.



Flexible ratchet head provides greater freedom for fingers and overcomes obstacles

- Very rugged, strong ratchets for high tightening torques
- Design: Metric
- Drive: Ring side **POWERDRIV®** bi-hexagon, fine-tooth 72 teeth
- Standard: Max. torque in line with DIN 899
- Material: Chromium-vanadium steel
- Surface: Chrome-plated, matt satin finish
- Geometry: Head offset 15°, ring side 180° joint, strong heads for heavy-duty applications

Attention: This is a special tool that may not be subjected to loads in excess of maximum torque values. For that reason, the tool is of limited suitability for loosening of tight screws.

 (mm)							Art. No.	P. Qty.
	L (mm)	a1 (mm)	a2 (mm)	d (mm)	b1 (mm)	F max. Nm		
8	140	4.3	6.5	16.1	16.7	35	714.26308	1
9	150	4.6	6.9	17.9	18.8	46	714.26309	
10	159	5.0	7.3	19.6	20.9	59	714.26310	
11	165	5.4	7.7	21.4	23.0	74	714.26311	
12	172	5.8	8.2	22.7	25.1	91	714.26312	
13	178	6.1	8.6	24.7	27.2	109	714.26313	
14	191	6.4	9.0	26.4	29.3	131	714.26314	
15	200	6.9	9.4	27.7	31.3	153	714.26315	
16	208	7.2	9.9	29.4	33.4	179	714.26316	
17	226	7.6	10.3	31.2	35.5	205	714.26317	
18	237	8.0	10.7	32.4	37.6	235	714.26318	
19	248	8.6	11.2	33.4	39.7	266	714.26319	
21	274	9.0	13.0	39.7	46.0	330	714.26321	
22						368	714.26322	
24	296	10.0	14.5	45.9	52.3	451	714.26324	

RATCHET COMBINATION WRENCH SET – FLEXIBLE




Flexible ratchet head provides greater freedom for fingers and overcomes obstacles

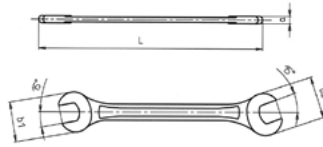
- **POWERDRIV®**

Contents: 6 pieces

- 1 ratchet combination wrench in each of the following sizes: 8; 10; 12; 13; 17; 19

Set	 (mm)	Art. No.	P. Qty.
6-pcs.	8, 10, 12, 13, 17, 19 mm including plastic holder	714.26350	1

DOUBLE OPEN-END WRENCH



Design: Metric

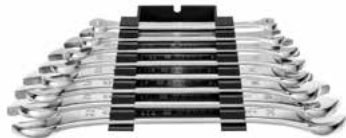
- Standard: DIN 3110 / ISO 1085
- Material: Chrome-vanadium steel
- Surface: Chrome-plated, polished heads
- Geometry: 15° head offset, strong heavy-duty heads

⊘ (mm)	L (mm)	b1 (mm)	b2 (mm)	a (mm)	Art. No.	P. Qty
4x5	100	12	13	3.3	713.304045	1
5x5.5	112	13	14	3.5	713.304055	
6x7	125	14	16	3.7	713.304067	
8x9	138	18	20	3.9	713.304080	
8x10	146	18	22.5	4.5	713.304089	
10x11	158	22.5	25	5.0	713.304101	
10x13	168		29		713.304103	
12x13	175	27	29	5.5	713.304123	
13x17	200	29	38	6.5	713.304137	
14x15	185	31	33.5	6.0	713.304145	
16x17	205	36	38	6.5	713.304167	
16x18	212	36	40	7.0	713.304168	
17x19	220	38	42		713.304179	
18x19	225	40	42	7.5	713.304189	
20x22	238	45	49	8.0	713.304202	
21x23	246	47	51		713.304213	
22x24	256	49	53	9.0	713.304224	
24x26	268	53	57		713.304246	
24x27	275	53	59		713.304247	
25x28	285	55	62	713.304258		
27x29	295	59	63.5	10.0	713.304279	
30x32	310	65	69		713.304302	
30x34	325		73		713.304304	

DOUBLE OPEN-END WRENCH SETS

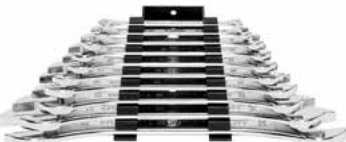


- Standard: DIN 3110/ISO 1085
- Material: Chromium-vanadium steel
- Surface: Chrome-plated, polished heads
- Geometry: 15° head offset, strong heavy-duty heads



Metric, 8 pieces

Set	⊘ (mm)	Art. No.	P. Qty
8 pcs.	6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22	713.30440	1



Metric, 10 pieces

Set	⊘ (mm)	Art. No.	P. Qty
10 pcs.	6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x27	713.30442	1



Metric, 12 pieces

Set	⊘ (mm)	Art. No.	P. Qty
12 pcs.	6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x27, 25x28, 30x32	713.30443	1

DOUBLE OPEN END RING WRENCH, HEXAGON



Metric, open, union nut wrench

- Drive: Hex **POWERDRIV**[®]
- Standard: DIN 3118
- Geometry, ring sides angled 15°, rings angled 5°
- Material: Chrome-vanadium steel
- Surface: Chrome-plated, polished heads

(mm)								Art. No.	P. Qty.
	L (mm)	a1 (mm)	a2 (mm)	Dia. d1 (mm)	Dia. d2 (mm)	B1 min. (mm)	B2 min. (mm)		
7 x 9	140	6.5	7.5	17.8	19.3	5	7	714.240079	1
8 x 10						6		714.240080	
11 x 13	174	8.5	10.5	22.8	25.3	9	11	714.240113	
12 x 14								714.240124	
17 x 19	212	12	13	31.2	33.3	14	15	714.240179	

DOUBLE OPEN END RING WRENCH SET, HEXAGON, 5 PCS.



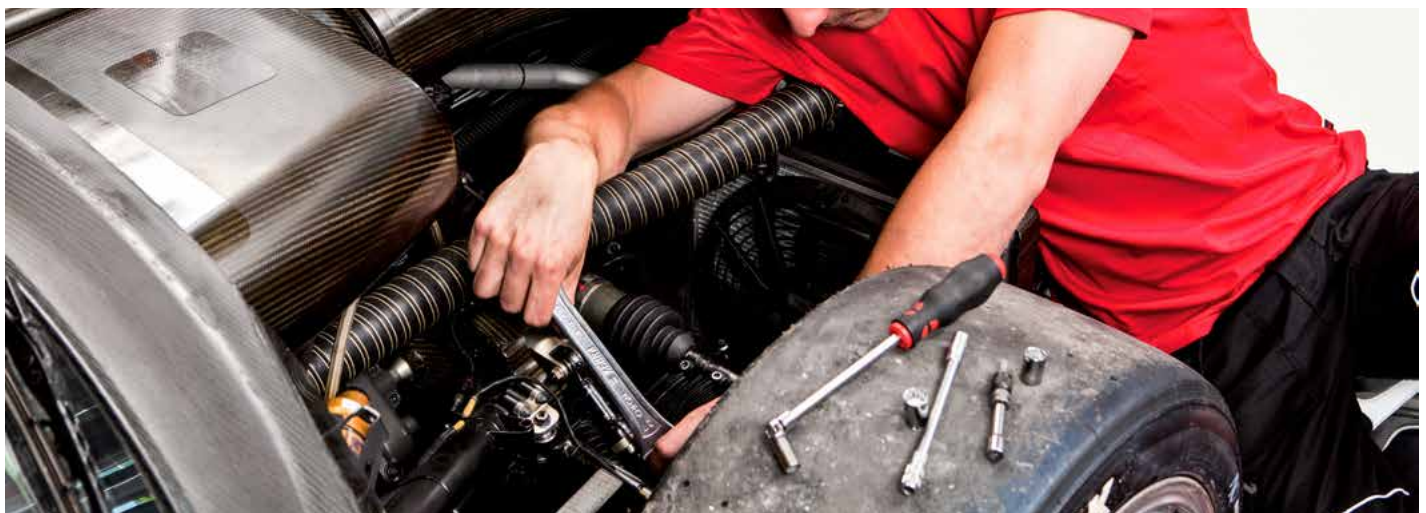
Metric

- Drive: **POWERDRIV**[®]
- Standard: DIN 3118
- Geometry: Ring sides angled 15°, rings angled 5°
- 7 x 9 to size 12 x 14 mm in hexagon
- 14 x 17 to size 30 x 32 mm in bi-hex
- Material: Chrome-vanadium steel
- Surface: Chrome-plated, polished heads

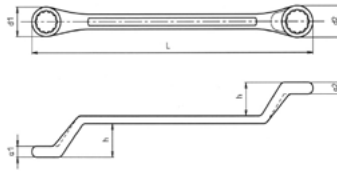
Contents:

- 1 each of double open end ring wrench size 7 x 9, 8 x 10, 11 x 13, 12 x 14, 17 x 19

Set	(mm)	Art. No.	P. Qty.
5 pcs.	7x9, 8x10, 11x13, 12x14, 17x19	714.24050	1



DOUBLE RING WRENCH, DEEP OFFSET



Metric, DIN 838/ISO 3318

- Drive: **POWERDRIV®**, bi-hex
- Material: Chrome-vanadium steel
- Surface: Chrome-plated, polished rings
- Geometry: Ring sides offset 18°

⬡ (mm)	L (mm)	a1 (mm)	a2 (mm)	dia. d1 (mm)	dia. d2 (mm)	h (mm)	Art. No.	P. Qty
6x7	174	5.4	5.9	10.8	12.2	21	713.305067	1
8x9	187	6.4	6.9	13.2	14.7	23	713.305089	
8x10	188	6.9	7.9		16.3		713.305080	
10x11	194	7.4	7.9	16.3	17.4	23.5	713.305101	
10x13	215	7.9	9.9	16.3	20.7	24.5	713.305103	
12x13	217	8.4	9.5	19.0	20.7	25	713.305123	
13x17	243	9.9	11.8	20.7	26.2	27.5	713.305137	
14x15	227		10.3	22.1	23.4		713.305145	
16x17	247	10.8	11.3	25.4	26.2	28	713.305167	
16x18	250	11.3	11.8	25.6	28.2		713.305168	
17x19	284			28.0	29.4	29.5	713.305179	
18x19		30	713.305189					
20x22	296	11.8	12.8	31.2	33.1	31	713.305202	
21x23	312	12.3		32.1	35.5		713.305213	
22x24	313	12.8	14.3	33.0	37.0	34	713.305224	
24x26	328		13.8	37.0	39.0		713.305246	
24x27	329	14.3	41.0	42.0	37	713.305258		
25x28	339	13.8	14.8	37.8	42.0	37	713.305258	
37x29	342	14.8	15.8	41.0	44.3	36.3	713.305279	
30x32	359			45.0	48.2	39	713.305302	
30x34	397	15.8	16.7	45.3	51.2	39	713.305304	

DOUBLE RING WRENCH, DEEP OFFSET SETS

- Drive: **POWERDRIV®**, bi-hex
- Material: Chromium-vanadium steel
- Surface: Chromium-plated, polished rings
- Geometry: Ring end offset 18°



Metric, DIN 838/ISO 3318, 8 pcs

Set	⬡ (mm)	Art. No.	P. Qty
8 pcs.	6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22	713.30540	1

Metric, DIN 838/ISO 3318, 10 pcs

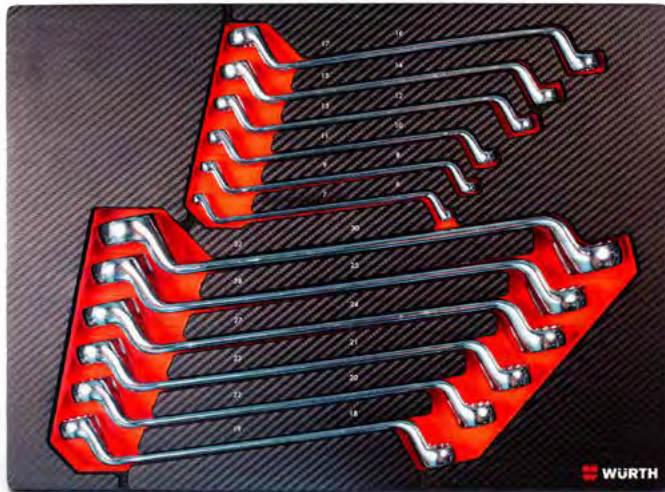
Set	⬡ (mm)	Art. No.	P. Qty
10 pcs.	8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x27, 30x32	713.30541	1



Metric, DIN 838/ISO 3318, 12 pcs

Set	⬡ (mm)	Art. No.	P. Qty
12 pcs.	6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x27, 25x28, 30x32	713.30542	1

DOUBLE-END BOX WRENCH ASSORTMENT



Art. No. 965.905405

Double-End Box Wrench, 12pc Metric System Assortment 8.4.1

- Number of pieces in assortment/set - 12pc
- Size foam section - 8.4.1
- Width x height x depth - 462 x 38 x 335 mm
- Décor - Carbon appearance

Description	Art. No.	P. Qty.
System insert 4.4.1, combination wrench empty	0955905405	1
Double ring wrench deep offset 6X7	713.305067	
Double ring wrench deep offset 8X9	713.305089	
Double ring wrench deep offset 10X11	713.305101	
Double ring wrench deep offset 12X13	713.305123	
Double ring wrench deep offset 14X15	713.305145	
Double ring wrench deep offset 16X17	713.305167	
Double ring wrench deep offset 18X19	713.305189	
Double ring wrench deep offset 20X22	713.305202	
Double ring wrench deep offset 21X23	713.305213	
Double ring wrench deep offset 24X27	713.305247	
Double ring wrench deep offset 25X28	713.305258	
Double ring wrench deep offset 30X32	713.305302	

Item Only Available by Special Order

DOUBLE RING RATCHET WRENCH 4-IN-1



Metric, straight

- Output: Double ring end **POWERDRIV®** bi-hexagon
- Finely toothed, 72 teeth
- Single-handed operation via reversing lever for clockwise and anti-clockwise rotation
- Material: Chromium-vanadium steel
- Basic body surface: chromium-plated, high-gloss polished

- Geometry: Straight ring end
- 4 sizes in one ratchet spanner**
- Most common wrench sizes are covered by only 2 ratchet spanners.
- 1/4" bit adapter available**
- Simply insert into size 10 mm ratchet spanner to use as a bit ratchet.
- For hard-to-access areas**
- Narrow ratchet head

(mm)								Art. No.	P. Qty.
	L (mm)	a1 (mm)	a2 (mm)	b1 (mm)	b2 (mm)	d1 (mm)	d2 (mm)		
8x10 + 12x13	150	7.3	8.6	13.8	16.8	20.2	24.8	714.257013	1
10x19 + 13x17	200	9.0	11.2	17.1	21.9	27.2	33.6	714.257017	
16x17 + 18x19	230	10.3		20.2		31.5	33.5	714.257019	

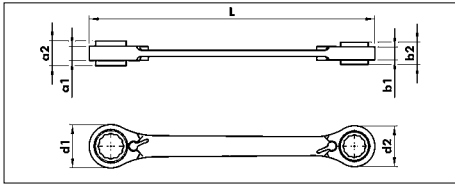
DOUBLE-RING RATCHET WRENCH



Special ratchet for use in confined spaces

Designation	Tip Type	Length (mm)	Art. No.	P. Qty.
Double-ring ratchet spanner 1/4" - 10 mm		200	714.23101	1
Double-ring ratchet spanner 1/4" - 10 mm		110	714.23102	

METRIC DOUBLE RING RATCHET WRENCH 4-IN-1 SET




Innovative double-sided, double-ended ratcheting wrench.

- Drive: double-ring side **POWERDRIV®** bi-hex, fine-toothed, 72 teeth, one-hand operation via reversing lever for clockwise and counterclockwise use
- Material: chrome-vanadium steel
- Surface: chrome-plated, high gloss polished

- Geometry: ring side straight
- Four sizes per ratchet wrench
The most common sizes are covered by only two ratchet wrenches
- 1/4" bit adapter available.
Simply insert in size 10 mm ratchet wrench; can then be used as a bit ratchet.
- Narrow ratchet head for hard-to-reach areas

5° angle of rotation for working in the tightest of spaces. Precision-machined ring core for smooth and secure use.

Set (comes in a clear plastic blister pack)								Art. No.	P. Qty.
3 pcs.	8x10+12x13, 16x17+18x19 Bit adapter: 10 mm x 1/4", 20 mm long							714.25730	1
Set Contents:									
	L in mm	a1 in mm	a2 in mm	b1 in mm	b2 in mm	d1 in mm	d2 in mm	Art. No.	P. Qty.
in mm									
8x10 +12x13	160	8	12	9	15	21	26	714.257013	1
16x17+18x19	230	11	18	11	20	33	35	714.257019	
Bit adapter: 10 mm x 1/4", 20mm long								715.1103	

PASS-THROUGH REVERSIBLE RATCHET



Art. No. 713.13001 P. Qty 1

- Round, compact head: 72 teeth, 5° angle of rotation
- One-hand operation with reverse lever for clockwise and anti-clockwise rotation
- Surface: chrome-plated, polished
- Plastic handle
- Extremely slim design
- Length: 205 mm

PASS-THROUGH RATCHET EXTENSION



Art. No. 713.13002 P. Qty 1

- Surface: Chrome-plated
- Length: 76 mm

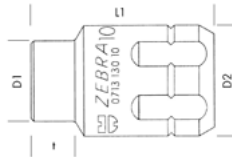
1/4" PASS-THROUGH RATCHET ADAPTER



For using standard universal sockets with 1/4" drive with through-hole ratchets.

Designation	Length (mm)	Surface	Art. No.	P. Qty.
Adapter 1/4"	26	Chrome-plated	713.13003	1
Adapter 3/8"	30		713.13004	

PASS-THROUGH RATCHET SOCKET

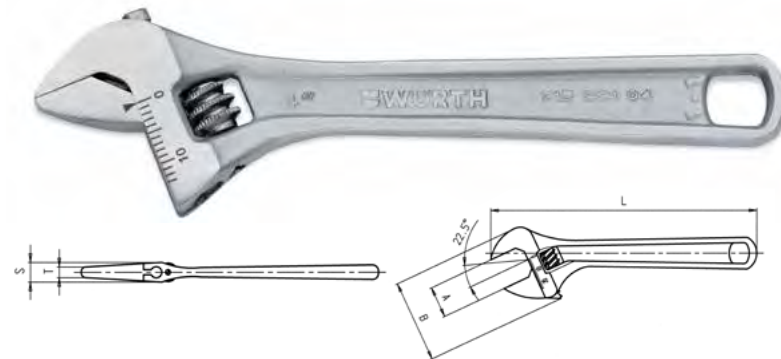


POWERDRIV[®], metric, hexagon

- Surface: Chrome-plated, polished.

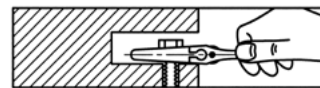
	L1 (mm)	D1 (mm)	D2 (mm)	t (mm)	Art. No.	P. Qty.
10	32	14.7	19.5	7.0	713.13010	1
11		15.4			713.13011	
12		16.6			713.13012	
13		17.7		8.5	713.13013	
14		18.9			713.13014	
15		20.1			713.13015	
16		21.2			12.0	
17		22.4		713.13017		
18		23.6		713.13018		
19		24.8		713.13019		

ADJUSTABLE WRENCH



Design: Adjustable

- Standard: DIN 3117/ ISO 6787
- Material: chrome vanadium, forged.
- Surface finish: chrome-plated, heads polished.
- Geometry: jaw position 22.5°, right-handed model with metric measuring scale for quick and accurate recognition of jaw opening.
- Head shape: narrow heads for use in confined spaces.
Long jaw design for sure grip of deep-set bolts and nuts



(mm)	L (mm)	L (inch)	B (max. mm)	S (mm)	T (mm)	Art. No.	P. Qty.
19.2	159	6	48	10.8	5.8	715.22106	1
24	206	8	60	13.5	7	715.22108	
29	257	10	71	16	8	715.22110	
34	310	12	83	19	10	715.22112	

RATCHET WITH ROTARY DISC REVERSE



Rotary disc reverse

Fine tooth rotary disc with 72 teeth; 5° angle of rotation

- Compact, narrow head
- Simple changeover from clockwise to anti-clockwise rotation
- Chamfered square – easier removal of socket wrench inserts
- Offset ratchet body for more hand freedom

Description	Tip Size	Length (mm)	Art. No.	P. Qty.
Ratchet with rotary disc reverse	1/4"	138	712.0140	1
	3/8"	175	712.0380	
	1/2"	250	712.0120	

DOUBLE-RING RATCHET SPANNER SET



Designation	Bit	Length (mm)	Art. No.	P. Qty.
Double-ring ratchet 1/4" and 10 mm drives		200	714.23101	1
Double-ring ratchet, 1/4" and 10 mm drives		110	714.23102	
Adapter 10 mm x 1/4"		22	715.1102	
1/4" Drive bits:				
TX 15		25	614.3115	
TX 20			614.3120	
TX 25			614.3125	
TX 27			614.3127	
Slot 5.5 mm			614.175653	
Slot 8.0 mm			617.175656	
Allen head, size 4 mm			614.17694	
Allen head, size 5 mm		614.17695		
Allen head, size 6 mm		614.17696		
PH 1		614.176274		
PH 2			614.176461	
PH 3		614.17648		

Art. No. 714.23100 32 pcs.

Special tool assortment for use in tight spaces.



Designation	Bit	Length (mm)	Art. No.	P. Qty.		
10 mm Drive bits:						
TX 30		30	614.788830	1		
TX 40			614.788840			
TX 45			614.788845			
XZN M 5			614.788405			
XZN M 6			614.788406			
XNZ M 8			614.788408			
Allen head, size 7 mm			614.788307			
Allen head, size 8 mm			614.788308			
1/4" sockets, hexagon:						
Size 6 mm			22		713.111106	
Size 7 mm		713.111107				
Size 8 mm		713.111108				
Size 9 mm		713.111109				
Size 10 mm		713.111110				
Size 11 mm		713.111111				
Size 12 mm		713.111112				
Size 13 mm		713.111113				
Size 14 mm		713.111114				



Can be used with bits and sockets

- Double-function special ratchet with 1/4" and 10 mm mount.



Special offset ratchet spanner with optimum working length of 110 mm or 200 mm.

- Especially suitable for tight working areas, e.g. door hinges, engine compartments and toothed belt covers.



Special low ratchet height

- In comparison to conventional 1/4" ratchets.



Fine-toothed ratchet enables screwing in and out in the smallest of spaces.

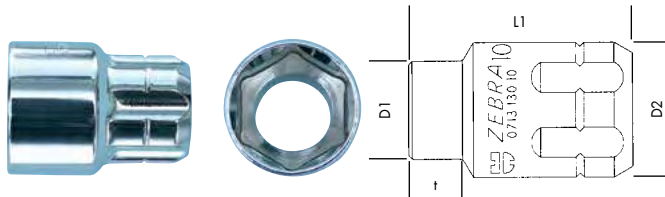
- Clockwise and counter-clockwise rotation can be switched with one hand.

GO-THROUGH METRIC SOCKET SET



Sockets

Bit: Hexagon, metric, powerdriv.
Model: chrome-plated, polished.



	L1 mm	t mm	D1 mm	D2 mm	Art. No.	P. Qty.	
in mm							
10	32	7	14.7	19.5	713.13010	1	
11			15.4		713.13011		
12			16.6		713.13012		
13		8.5	17.7		713.13013		
14		9.5	18.9		713.13014		
15		11.5	20.1		713.13015		
16		12			21.2		713.13016
17					22.4		713.13017
18					23.6		713.13018
19					24.8		713.13019

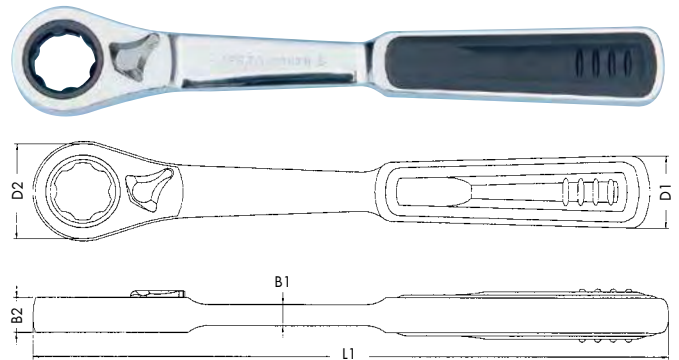
Art. No. 713.1300 14 pcs.

- Problem solver for narrow spaces, because of very low height
- With through-hole, ideal for long bolts and threaded rods
- With 2 adaptors (1/4" and 3/8") standard sockets can also be used
- Supplied in a metal box and a high-quality foam insert with clamping effect

Designation	Length in mm	Art. No.	P. Qty.
Ratchet	205	713.13001	1
Extension	76	713.13002	
Adapter 1/4"	26	713.13003	
Adapter 3/8"	30	713.13004	
10 sockets, 10-19 mm	32	713.13010 - 713.13019	

Ratchet

Head: 72 teeth, 5° rotating angle, round, compact head, one-hand operation with reversing lever for clockwise and counter-clockwise operation.
Model: chrome-plated, polished, very slim design.



L1 mm	B1 mm	B2 mm	D1 mm	D2 mm	Art. No.	P. Qty.
205	7	11.5	24.7	32.5	713.13001	1



Low height of the through-ratchet as compared to the standard ratchet.



Thanks to the through-hole, long bolts and threaded rods can be processed.



Through-ratchet with adapter ejector enables an easy removal of the socket spanner.

RATCHET WITH SWITCH LEVER



1 Easy direction change for right and left direction.



2 Secure locking with quick release to lock.



3 Secure locking with quick release to unlock.



4 Low lying and protected reversing lever.

Rugged design with convenient quick release function

Coarse toothing with 48 teeth – 7.5° rotating angle!

Features:

- Fast, simple reversing of clockwise and counterclockwise rotation with lever.
- Low-lying, protected reversing lever for fast left/right switching with one hand.
- Offset ratchet body allows more clearance for gripping.
- Ergonomic design of the handle.
- Quick release for fast socket change and ball locking device.

Description	Size	Art. No.	P. Qty.
Ratchet with switch lever	1/4"	712.01401	1
	3/8"	712.03801	
	1/2"	712.01201	

MAINTENANCE SETS



Art. No. 712.001 9 pcs.

For 1/4" ratchet with rotary disc

Art. No. 712.002 7 pcs.

For 1/2" ratchet with rotary disc

Art. No. 712.00014 12 pcs.

For 1/4" ratchet with lever

Art. No. 712.00012 12 pcs.

For 1/2" ratchet with lever

1/4" BALL-HEAD RATCHET WITH T-HANDLE



Multi-functional spherical ratchet with adjustable handle

Features:

- Drive: 6.3 – 1/4"
- Standard: DIN 3122, ISO 3315
- Head: 72 teeth, angle of rotation: 5°, joint can be rotated 270°
- Handle: Two-component handle, straight or adjustable 90° as T-handle

Length (mm)	Ratchet head height (mm)	Ratchet diameter (mm)	Art. No.	P. Qty.
145	26.5	20	712.01405	1

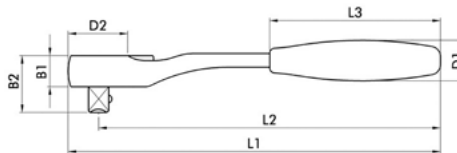


3 in 1!

Can be used like a conventional ratchet, as a screwdriver or a T-handle!



DUST-PROTECTED LEVER REVERSIBLE RATCHET



Dust-protected ratchet for a long service life even in the toughest working conditions

Features:

- Drive: 1/2, 3/8 & 1/4 inch drives
- Standard: DIN 3122, ISO 3315
- Reversing lever for clockwise and anti-clockwise rotation
- Geometry: Ratchet body with offset center for easy access in hard to reach areas



Dust-protected ratchet head

- Double sealing for better protection against dirt
- Square drive: rugged and durable
- Maintenance-free - permanent lubrication of the mechanism is guaranteed.



Optimized reversing mechanism

Quick and simple lever switch



Dust-protected ratchet head

When tightening bolts, pressure can be applied to the ratchet head without accidentally reversing the ratchet.

Art. No.	712.01203	712.03803	712.01403
P. Qty.	1	1	1
Drive	1/2 inch	3/8 inch	1/4 inch
Length (L1)	253 mm	177 mm	136 mm
Length 2 (L2)	240 mm	160 mm	125 mm
Length 3 (L3)	115 mm	79 mm	61 mm
Width (B1)	19 mm	16 mm	13 mm
Width 2 (B2)	36 mm	29 mm	22 mm
Diameter (D1)	26 mm	21 mm	16 mm
Diameter 2 (D2)	38 mm	29 mm	21 mm
Material	Chrome-vanadium steel	Chrome-vanadium steel	Chrome-vanadium steel
Material of the grip handle	2-component plastic	2-component plastic	2-component plastic
Version	With 72 teeth - 5 degree angle of rotation	With 72 teeth - 5 degree angle of rotation	With 72 teeth - 5 degree angle of rotation
Surface	Chromed high-gloss satin finish	Chromed high-gloss satin finish	Chromed high-gloss satin finish
IP protection class	IP 5X	IP 5X	IP 5X

RATCHET FOR 10MM BITS



Features:

- Head: 72 teeth
- 5° angle of rotation
- Round, compact head
- Body: chrome-plated
- Non Slip 2-component handle

Ratchet Diameter	Length	Ratchet Head Height	Handle Diameter	Art. No.	P. Qty
20 mm	175 mm	19 mm	26 mm	714.12100	1

STUBBY ROTARY BIT RATCHET



Art. No. 712.0145 - P. Qty. 1

Compact mini ratchet for use in hard to reach areas

Features:

- Extremely compact for use in tight applications
- Mount: For 1/4" hexagon drive in accordance with DIN 3126-C 6.3 and E 6.3.
- Head: Extremely compact ratchet head, fine-toothed, 72 teeth, 5° reversing angle
- Chrome-plated with 2-component handle, extremely slim design, angled down 10°.
- Rugged design, max. Torque of up to 40 Nm.
- Applications: motor vehicles, commercial vehicles, motorcycles, bicycles, mechanical engineering, fine machinery and the furniture industry.
- Use with 1/4 inch bit holder extensions
- Length - 100mm

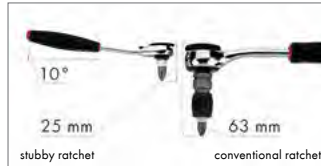
*Also available in 965.1123 assortment



Knurled rotary disk
easier to use rotary switch



Reversing lever
simple reversing clockwise and counter clockwise switch

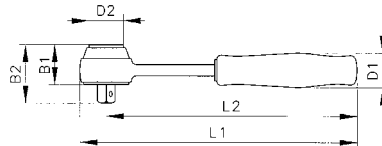


Height of bit ratchet
low overall height of bit ratchet compared to conventional ratchets.



A broad range of applications
the right tool for any application.

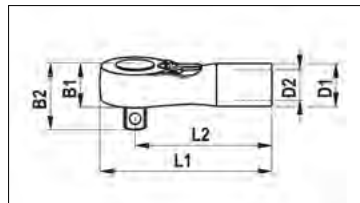
STUBBY GEARLESS RATCHETS



- Short handle with reversible square drive.
- Head: overrun, turning angle less than 3°.
- For tight spaces, e.g. engine compartments, motorcycles, tool making, fine mechanics, kitchen construction, adjustment work.
- Chrome-molybdenum steel.

Drive	L1 mm	L2 mm	B1 mm	B2 mm	D1 mm	D2 mm	Fmax Nm	Art. No.	P. Qty.
1/4"	77	93	9	16	21	14	43	713.110111	1
3/8"	106	67	11	23	27	16	162	713.120111	

1" RATCHET HEAD



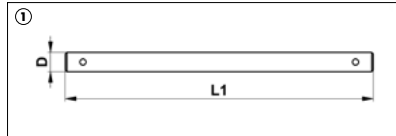
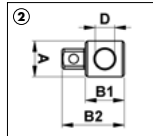
Features:

- Standard: DIN 3122, ISO 3315
- Head: 24 teeth, 15° rotating angle, reversible
- Square: with ball
- Design: chrome-plated, matt

L1 (mm)	L2 (mm)	B1 (mm)	B2 (mm)	D1 (mm)	D2 (mm)	Art. No.	P. Qty
170	135	32	67	40	28	714.1100	1

ACCESSORIES: SLIDER BAR - ART. NO. 714.110200

1" SLIDER BAR AND SLIDER PIECE



Slider bar with pin lock ①

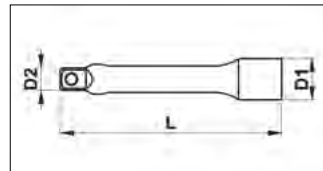
- Design: chrome-plated, matt
- Application: For use as ratchet handle and T-handle

Slider piece with pin lock ②

- Design: chrome-plated, matt
- Used as T-handle or L-handle with slider bar

L1 (mm)	B1 (mm)	B2 (mm)	D (mm)	A (mm)	Art. No.	P. Qty
500	-	-	27.8	-	714.110200 ①	1
-	47	74.5	28	49.5	714.110201 ②	

1" EXTENSIONS



Features:

- Standard: DIN 3122, ISO 3315
- Head: 24 teeth, 15° rotating angle, reversible
- Square: with ball
- Design: chrome-plated, matt

D1 (mm)	D2 (mm)	L (mm)	Art. No.	P. Qty
48	35	210	714.158108	1
		410	714.158116	

JOINTED-HEAD RATCHET, TELESCOPIC



Features:

- Extendable to max. length using locking sleeve with locking device
- Optimum power transmission
- Quick ejection with safety lock
- Flexible, rotating ratchet head with locking device
- 72 teeth with a rotating angle of 5°
- Standard: DIN 3122, ISO 3315

Technical Information:	Art. No. 715.1292	Art. No. 715.1392
Drive Size	1/2"	3/8"
Material	Chrome-vanadium steel	Chrome-vanadium steel
Surface	Chromed high-gloss satin finish	Chromed high-gloss satin finish
Material of the grip handle	2-component plastic	2-component plastic
Min./Max. length	294 - 430 mm	258 - 373 mm
Handle length	110 mm	110 mm
Ratchet head height	15.5 mm	13 mm
Ratchet head height with square	34 mm	26.5 mm
Sleeve outside diameter	24 mm	20.6 mm
Handle diameter	31 mm	31 mm
Ratchet diameter	40 mm	37 mm



Maintenance Set:
715.13920 • 9 pcs.

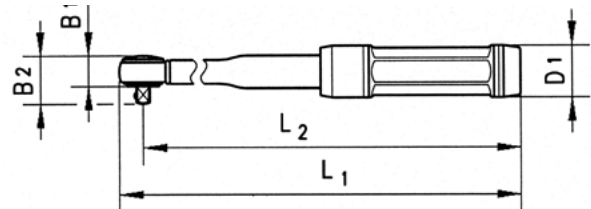
TORQUE WRENCHES



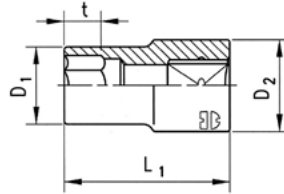
Torque wrenches are precision tools which must be checked at regular intervals with suitable measuring equipment and adjusted if necessary. We recommend an annual calibration.

- Accuracy of $\pm 3\%$ to the set value, in accordance with DIN EN ISO 6789:2003.
- Easy and precise adjustment by turning the handle.
- Square coupler drive.
- Acoustic, tangible perception of the torque triggering prevents over-tightening of bolts.
- Following use, relax the spring and set to the lowest value.
- With calibration certificate.
- Delivery in a plastic box.

Drive	Measuring Range		L ₁ (mm)	L ₂ (mm)	B ₁ (mm)	B ₂ (mm)	D ₁ (mm)	Art. No.	P. Qty.
	NM	lbf.ft.							
3/8"	20-100	15-80	350	330	22	33	37	714. 7121	1
						37		714. 7122	
1/2"	40-200	30-150	440	420	26	42	714. 7123		
	60-300	45-220	570	550		45	714. 7124		








1/4" MULTI-SOCKET, METRIC/IMPERIAL

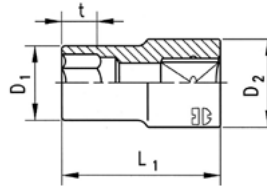


Bi-hexagon, Multi-profile for the five most common screw head drives

- Extremely high-quality multi-socket wrenches guarantee long service lives
- Surface: Chrome-plated, polished
- Drive: 1/4" square socket
- Tip: bi-hexagon, multi-profile






Multi-profile	Possible Uses					L1 (mm)	D1 (mm)	D2 (mm)	t (mm)	Art. No.	P. Qty.
	Hexagon/bi-hexagon	Hexagon	TX Head	Square							
 (mm)	 (mm)	 (in.)	 TX	 (mm)							
4	Size 4	5/32"	E 5	-	22	6.8	11.9	5	713.11304	1	
5	Size 5	-	-	Size 4		8.1			713.11305		
5.5	Size 5.5	7/32"	-	Size 4.5		8.7			713.113055		
6	Size 6	-	E 8	Size 5		9.3			713.11306		
7	Size 7	9/32"	-	-		10.8			713.11307		
8	Size 8	5/16"	E 10	-		11.9		713.11308			
9	Size 9	11/32"	-	-		13.4		13.4	713.11309		
10	Size 10	3/8"	E 12	Size 8		14.5		14.5	713.11310		
11	Size 11	7/16"	E 14	Size 9		15.9		15.9	713.11311		
12	Size 12	15/32"	E 16	Size 10		16.9		16.9	713.11312		
13	Size 13	1/2"	-	-		18.0	18.0	713.11313			
14	Size 14	9/16"	E 18	-		19.6	19.6	713.11314			

3/8" MULTI-SOCKET, METRIC/IMPERIAL

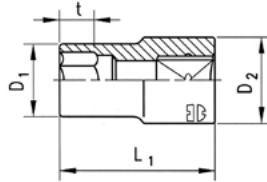


Bi-hexagon, Multi-profile for the five most common screw head drives

- Surface: chromium-plated, polished
- Drive: 3/8" square socket
- Tip: bi-hexagon, multi-profile

Multi-profile	Possible Uses					L1 (mm)	D1 (mm)	D2 (mm)	t (mm)	Art. No.	P. Qty.
	6-sd./12-sd.	6-sided	Outer TX	4-sided							
 (mm)	 (mm)	 (in.)	 TX	 (mm)							
6	6 mm	-	E8	5 mm	25.5	9.3	17	7	713.12306	1	
6.3	6.3 mm	1/4"	-	-		9.9			713.123063		
7	7 mm	9/32"	-	-		10.9			713.12307		
8	8 mm	5/16"	E10	-		11.8			713.12308		
9	9 mm	11/32"	-	-		13.4			713.12309		
10	10 mm	3/8"	E12	8 mm		14.6		713.12310			
11	11 mm	7/16"	E14	9 mm		15.9		713.12311			
12	12 mm	15/32"	E16	10 mm		17		713.12312			
13	13 mm	1/2"	-	-		18.4		713.12313			
14	14 mm	9/16"	E18	-		19.6		18	713.12314		
15	15 mm	19/32"	-	12 mm	20.9	19	713.12315				
16	16 mm	5/8"	E20	13 mm	22	20	713.12316				
17	17 mm	-	-	14 mm	23.4	21	713.12317				
18	18 mm	-	E22	-	24.5	21.5	713.12318				
19	19 mm	3/4"	E24	-	25.6	22.5	713.12319				
20	20 mm	25/32"	-	16 mm	26.8	23.5	713.12320				
21	21 mm	13/16"	E26	17 mm	27.9	24.5	713.12321				
22	22 mm	7/8"	E28	18 mm	29.6	26	713.12322				

1/2" MULTI-SOCKET, METRIC/IMPERIAL



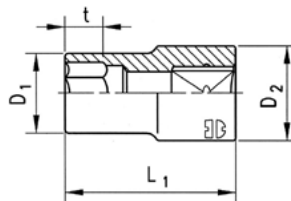
Bi-hexagon, Multi-profile for the five most common screw head drives

- Hexagon metric, square metric, bi-hexagon metric, hexagon imperial, outer TX
- One set covers all applications

- Extremely high-quality multi-socket wrenches guarantee long service lives
- Design: Chrome-plated, polished
- Drive: 1/2" square socket
- Tip: Bi-hexagon, multi-profile
- Geometry: Short

Multi-profile	Possible Uses				L1 (mm)	D1 (mm)	D2 (mm)	t (mm)	Art. No.	P. Qty.
	6-pt./12-pt.	6-pt.	Outer TX	4-pt.						
(mm)	(mm)	(in.)	TX	(mm)						
10	10	3/8"	E 12	8	36	15.5	23.0	9	712.13410	1
11	11	7/16"	E 14	9		16.7		10	712.13411	
12	12	15/32"	E 16	10		18.0		11	712.13412	
13	13	1/2"	-	-		19.2		13	712.13413	
14	14	9/16"	E 18	-		20.5		14	712.13414	
15	15	19/32"	-	12		21.7		13	712.13415	
16	16	5/8"	E 20	13		23.0		14	712.13416	
17	17	-	-	14		24.2		23.2	712.13417	
18	18	-	E 22	-		25.5		23.5	712.13418	
19	19	3/4"	E 24	-		26.7		24.7	712.13419	
20	20	25/32"	-	16		28.0	25.5	712.13420		
21	21	13/16"	E 26	17		29.2	26.0	712.13421		
22	22	7/8"	E 28	18		30.5	26.5	712.13422		
24	24	15/16"	E 30	19		33.0	29.0	712.13424		
26	26	-	E 32	21	35.5	31.5	712.13426			
27	27	1 1/16"	E 34	22	36.7	32.2	712.13427			
28	28	1 1/8"	E 36	23	38.0	33.5	712.13428			
30	30	1 3/16"	E 38	24	40.5	36.0	712.13430			
32	32	1 1/4"	E 40	26	43.0	38.1	712.13432			

1/4" SOCKET WRENCH INSERT, METRIC



Metric, short

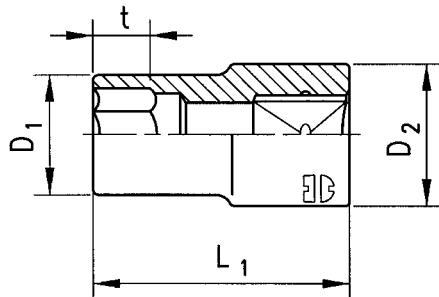
- Surface: Chrome-plated, polished
- Drive: 1/4" square socket, ball catch groove
- Tip: For hexagon head
- **POWERDRIV®**

(in.)	L1 (mm)	D1 (mm)	D2 (mm)	t (mm)	Art. No.	P. Qty.	
4	22	6.8	11.9	5	713.111104	1	
5		8.1			713.111105		
5.5		8.7		5.5	713.111155		
6		9.3		6	713.111106		
6.3		9.8			713.111163		
7		10.8			713.111107		
8		11.9			713.111108		
9		13.4		13.4	7		713.111109
10		14.5		14.5	10		713.111110
11		15.9		15.9			713.111111
12		16.9	16.9	713.111112			
13		18	18	713.111113			
14		19.6	19.6	11	713.111114		

1/4" SOCKET WRENCH INSERTS



POWERDRIV



1/4" Socket Wrench Inserts, metric.

- Version: Chrome-plated, polished
- Drive: 1/4", ball catch groove
- Drive: Hexagon, metric
- Geometry: Long
- Application: Screw connections to stud bolts, threaded rods etc.

⬤ (mm)	L1 (mm)	D1 (mm)	D2 (mm)	t (mm)	Art. No.	P. Qty.
4	50	4.8	11.9	7	713.112104	1
5		8.1		9	713.112105	
5.5		8.7		9	713.112155	
6		9.3		13	713.112106	
7		10.8		16	713.112107	
8		11.9		16	713.112108	
9		13.4	13.4	16	713.112109	
10		14.5	14.5	21	713.112110	
11		15.9	15.9		713.112111	
12		16.9	16.9		713.112112	
13		18	18		713.112113	
14		19.6	19.6		713.112114	

Accessory: Socket Holder 713.11101

1/4" SOCKET WRENCH ASSORTMENT, LONG



POWERDRIV



Art. No. 965.900052 - P. Qty. 1

Foam insert 1/4 inch socket wrench assortment.

12 Pieces:

4, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14 (mm)

- Length: 335mm
- Width: 100mm
- Height: 40mm



EMPTY FOAM INSERT

for 12pc 1/4 inch socket wrench assortment

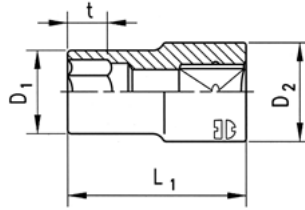
AVAILABLE BY SPECIAL ORDER ONLY.

Art. No. 955.900052

3/8" HEXAGON SOCKETS, METRIC



POWERDRIV



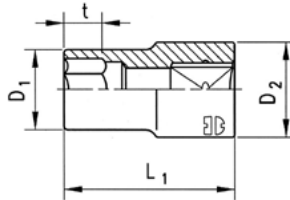
Features:

- Standard: DIN 3124, ISO 2725
- Finish: chrome-plated, polished/matte
- Input drive: 3/8", ball groove
- **POWERDRIV® Patent**
- Output drive: hexagon, metric
- Type: Short

Hex (mm)	L1 (mm)	D1 (mm)	D2 (mm)	t (mm)	Art. No.	P. Qty.
6	27	9.4	17.7	7	713.121106	1
7		11			713.121107	
8		12.2			713.121108	
9		13.5		11	713.121109	
10		14.7			713.121110	
11		16			713.121111	
12	30	17.2	18	13	713.121112	
13		18.5			713.121113	
14		19.7			713.121114	
15		21		713.121115		
16		22.2		20	713.121116	
17	23.5	21	713.121117			
18	33	24.7	21.5	14	713.121118	
19		26			22.5	713.121119
20		27.2			23.5	713.121120
21		28.5		25	713.121121	
22		29.7		26	713.121122	

Accessory: Socket Holder 713.12101

3/8" SOCKET WRENCH INSERT, IMPERIAL

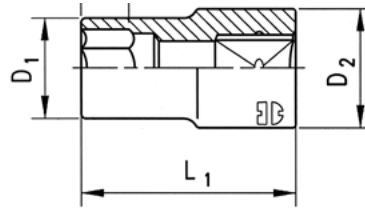


Inch, hexagon, short

- Design: Chrome-plated, polished/matte
- Drive: 3/8" square socket, ball catch groove
- Tip: For hexagon head
- **POWERDRIV®**

Hex (in.)	L1 (mm)	D1 (mm)	D2 (mm)	t (mm)	Art. No.	P. Qty.	
1/4"	25.5	10	17	7	713.121201	1	
9/32"		10.9			713.121202		
5/16"		11.8			713.121203		
11/32"		13		14	713.121204		
3/8"		14.3			713.121205		
7/16"		16			713.121206		
1/2"	27	18.4	18	14	713.121207		
9/16"		20			19		713.121208
19/32"		20.9			20		713.121209
5/8"		22		21	713.121210		
11/16"		23.9		22.5	713.121211		
3/4"	29	25.6	23.5	15	713.121212		
25/32"		27.1			24.5	713.121213	
13/16"		27.9			26	713.121214	
7/8"		30		713.121215			

3/8" SOCKETS FOR OUTER TX SCREWS



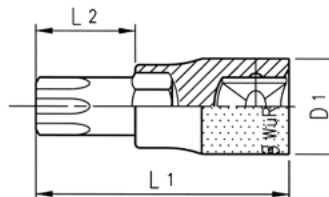
- Finish: chrome-plated, polished/matte
- Input drive: 3/8", ball groove
- Output drive: outer TX
- Type: short

	(mm)	L1 (mm)	D1 (mm)	D2 (mm)	Art. No.	P. Qty
5	4.75	26	7.0	17	715.12205	1
6	5.74	26	7.7	17	715.12206	
7	6.22	26	8.3	17	715.12207	
8	7.52	26	10.2	17	715.12208	

	(mm)	L1 (mm)	D1 (mm)	D2 (mm)	Art. No.	P. Qty
10	9.42	26	12.3	17	715.12210	1
11	10.08	26	13.3	17	715.12211	
14	12.9	26	15.8	17	715.12214	

Accessory: Socket Holder 713.12101

3/8" SOCKET WRENCH INSERTS, INNER TX



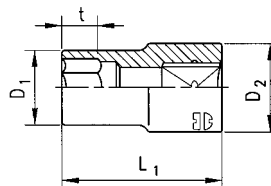
- Finish: chrome-plated, polished/matte
- Input drive: 3/8", ball groove
- Output drive: inner TX
- Type: short

	(mm)	L1 (mm)	L1 (mm)	D1 (mm)	Art. No.	P. Qty
15	3.26	50.5	20.5	19	715.12315	1
20	3.84	50.5	20.5	19	715.12320	
25	4.40	50.5	20.5	19	715.12325	
27	4.96	50.5	20.5	19	715.12327	

	(mm)	L1 (mm)	L1 (mm)	D1 (mm)	Art. No.	P. Qty
30	5.49	50.5	20.5	19	715.12330	1
40	6.66	50.5	20.5	19	715.12340	
45	7.77	50.5	20.5	19	715.12345	
50	8.79	50.5	20.5	19	715.12350	

Accessory: Socket Holder 713.12101

3/8" SOCKET WRENCH INSERT, METRIC, LONG



Features:

- Surface: Chrome-plated, polished/matt
- Drive: 3/8" square socket, ball catch groove
- Tip: For hexagon head
- **POWERDRIV® Patent**

	(mm)	L1 (mm)	D1 (mm)	D2 (mm)	t (mm)	Art. No.	P. Qty
7	64		10.9	16.7	25.5	713.122107	1
8			11.8			713.122108	
9			13.4			713.122109	
10			14.6			713.122110	
11			15.9			713.122111	
12			16.7			713.122112	
13			18.2			713.122113	

	(mm)	L1 (mm)	D1 (mm)	D2 (mm)	t (mm)	Art. No.	P. Qty
14	64		19.5	19.5	25.5	713.122114	1
15			20.7	20.7		713.122115	
16			21.7	21.7		713.122116	
17			23.3	23.3		713.122117 "NEW"	
18			23.8	23.8		713.122118 "NEW"	
19			25.4	25.4		713.122119 "NEW"	

3/8" SOCKET WRENCH ASSORTMENT, LONG



POWERDRIV



Art. No. 965.900909 - P. Qty. 1

Foam insert 3/8 inch socket wrench assortment.

12 Pieces:

8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19 (mm)

- Length: 335mm
- Width: 100mm
- Height: 40mm



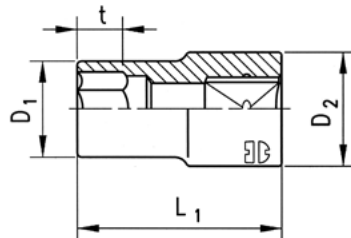
EMPTY FOAM INSERT

for 12pc 3/8 inch socket wrench assortment

AVAILABLE BY SPECIAL ORDER ONLY.

Art. No. 955.900909

3/8" MULTI-PROFILE SOCKET, 13 PIECE SET



Art. No. 713.1240 - P. Qty. 1

For intact, rounded and damaged bolts and nuts.

Can be universally used in assembly, maintenance and repairs.

Clamping Strip Included

Drive

3/8" square socket

Delivery form

Chrome-plated, polished

Geometry

Short

Output side

Hexagonal, multi-profile

(mm)	L1 (mm)	D1 (mm)	D2 (mm)	t (mm)	Art. No.	P. Qty.
8	28	13.5	17.5	10	713.12408	1
9	28	15	17.5	10	713.12409	
10	28	16	17.5	10	713.12410	
11	28	18.3	20.5	10	713.12411	
12	28	19.3	21.5	10	713.12412	
13	28	20.5	21.5	10	713.12413	
14	28	20.5	21.5	15	713.12414	
15	30	23.5	22	15	713.12415	
16	30	23.5	22	15	713.12416	
17	30	26.5	24.2	15	713.12417	
18	30	26.6	24.2	15	713.12418	
19	30	27.5	25	15	713.12419	
+1/2" on 3/8" adapter, total length 36 mm					712.138401	

Special Order

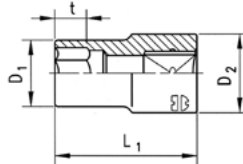


1/2" SOCKET WRENCH INSERT, IMPERIAL



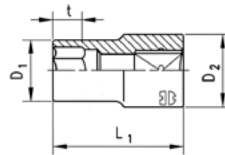
Inch, short

- Surface: Chrome-plated, polished/matt
- Drive: 1/2" square socket, ball catch groove
- Tip: For hexagon head
- **POWERDRIV®**



(in.)	L1 (mm)	D1 (mm)	D2 (mm)	t (mm)	Art. No.	P. Qty
3/8"	38	16.1	21.9	12.0	712.131201	1
7/16"		17.9			712.131202	
1/2"		19.1		12.5	712.131203	
9/16"		20.6			712.131204	
19/32"		21.0		13.0	712.131205	
5/8"		22.9			712.131206	
11/16"		24.6	712.131207			
3/4"		26.5	24.7		712.131208	
25/32"		27.9	25.5	19.0	712.131209	
13/16"		28.5			712.131210	
7/8"	41	29.9	26.5	22.5	712.131211	
15/16"		32.0	29.0		712.131212	
1"		34.0	30.0		712.131213	
1 1/16"		36.0	32.2		712.131214	
1 1/8"	44	37.7	33.5	24.5	712.131215	
1 3/16"		40.0	36.0		712.131216	
1 1/4"		42.0	38.1		25.5	712.131217

1/2" SOCKET WRENCH INSERT, METRIC

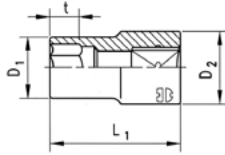


Metric, hexagon, short

- Standard: DIN 3124, ISO 2725
- Surface: Chrome-plated, ground/matt
- Drive: 1/2" square socket, ball catch groove
- Tip: For hexagon head
- **POWERDRIV®**


(mm)	L1 (mm)	D1 (mm)	D2 (mm)	t (mm)	Art. No.	P. Qty
8	36	13	23	8	712.131108	1
9		14.2			712.131109	
10		15.5		10	712.131110	
11		16.7			712.131111	
12		18		13	712.131112	
13		19.2			712.131113	
14		20.5	712.131114			
15		21.7	22		712.131115	
16		23	23.2	13	712.131116	
17		24.2			712.131117	
18	25.5	23.5	14	712.131118		
19	26.7	24.7		712.131119		
20	28	25.5		712.131120		
21	38	29.2		26	16	712.131121
22		30.5	26.5	712.131122		
23		31.7	27.7	712.131123		
24		33	29	18	712.131124	
25		34	30		712.131125	
26		35.5	31.5		712.131126	
27		44	36.7		32.2	20
28			38	33.5	712.131128	
30	40.5		36	22	712.131130	
32	47	43	38.1	24	712.131132	
34		45.5	40	25	712.131134	
36		48	42	28.5	712.131136	

1/2" SOCKET WRENCH INSERT, METRIC

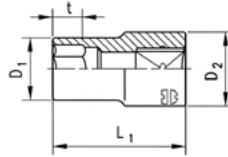


Metric, bi-hexagon, short

- Standard: DIN 3124, ISO 2725
- Surface: Chrome-plated, ground/matt
- Drive: 1/2" square socket, ball catch groove
- Tip: For bi-hexagon
- **POWERDRIV®**

 (mm)	L1 (mm)	D1 (mm)	D2 (mm)	t (mm)	Art. No.	P. Qty	
8	36	12.9	21.9	7	712.133108	1	
9		14		8	712.133109		
10		15.4		10	712.133110		
11		16.6			712.133111		
12		17.9			712.133112		
13		19.1			712.133113		
14		20.4		11	712.133114		
15		21			712.133115		
16		22.5			712.133116		
17		24			712.133117		
18		25.4		16	712.133118		
19		26.5			712.133119		
20		27.9			712.133120		
21		28.5			712.133121		
22		38		29.9	19		712.133122
23				31.2			712.133123
24	32		712.133124				
26	35		712.133126				
27	44	36	24	712.133127			
28		37.7		712.133128			
30		40		712.133130			
32		42		712.133132			
34	47	45.5	40	25	712.133134		
36	50	48	42	28.5	712.133136		

1/2" SOCKET WRENCH INSERT, METRIC



Metric, hexagon, long

- Surface: Chrome-plated, polished/matt
- Drive: 1/2" square socket, ball catch groove
- Tip: For hexagon head
- **POWERDRIV®**

(mm)	L1 (mm)	D1 (mm)	D2 (mm)	t (mm)	Art. No.	P. Qty
10	77	15.4	21.8	25.0	712.132310	1
11		16.6			712.132311	
12		17.9			712.132312	
13		19.1			712.132313	
14		20.4	712.132314			
15		21.6	21.6		712.132315	
16		22.6	22.6		712.132316	
17		24.1	24.1		712.132317	
18		25.4	25.4		712.132318	
19		26.5	26.5		712.132319	

(mm)	L1 (mm)	D1 (mm)	D2 (mm)	t (mm)	Art. No.	P. Qty
20	77	27.8	27.8	35.5	712.132320	1
21		28.2	28.2		712.132321	
22		29.7	29.7		712.132322	
23		31.2	27.0		712.132323	
24		31.7			712.132324	
26		35.4	33.0		712.132326	
27		35.7			712.132327	
28		37.6			712.132328	
30		39.8			712.132330 *NEW*	
32		41.9	34.0		712.132332 *NEW*	

1/2" SOCKET WRENCH ASSORTMENT, LONG



POWERDRIV

Art. No. 965.900210 - P. Qty. 1

Foam insert 1/2 inch socket wrench assortment.

16 Pieces:

10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24, 27, 30, 32 (mm)

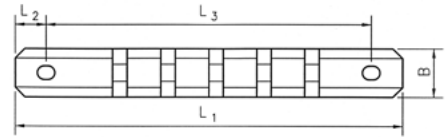
- Length: 340mm
- Width: 185mm
- Height: 40mm



EMPTY FOAM INSERT

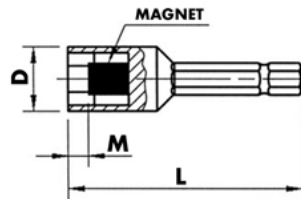
for 16pc 1/2 inch socket wrench assortment
 AVAILABLE BY SPECIAL ORDER ONLY.
 Art. No. 955.900210

SOCKET HOLDERS



Description	Number of Clips	Finish	L1 (mm)	DL2 (mm)	L3 (mm)	B (mm)	Art. No.	P. Qty.
1/4" Socket Holder with hole for hanging	16	High-gloss chrome-plated	430	13	407	20	713.11101	1
3/8" Socket Holder with hole for hanging							713.12101	
1/2" Socket Holder with hole for hanging							713.13101	

1/4" SOCKET WRENCH INSERT



Hexagonal with magnet

- 1/4" machine mount, E 6.3
- Material: Chromium-vanadium steel

Hex (mm)	D (mm)	L (mm)	Weight (g)	Art. No.	P. Qty.
1/4"	10	51	20	614.176713 *NEW*	1
7	11		22	614.176714	
8	12		29	614.176715	
3/8"	14		39	614.176716 *NEW*	
10	18			614.176717	
13				614.176718 *NEW*	

MAGNETIC NUTSETTERS

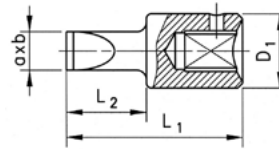


Features:

- Permanent high strength Alnico magnet.
- High quality tool steel.
- Heat treated for long life.

Hex Opening Size	Hex Shank Size	Length	Art. No.	Qty.
1/4"	1/4"	6" (inches)	614.6379	1
5/16"	1/4"	6" (inches)	614.6380	
3/8"	1/4"	6" (inches)	614.6381	

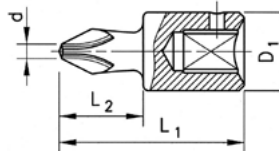
1/4" SOCKET WRENCH INSERT



Slotted

- Surface: Chrome-plated, polished/matt
- Drive: 1/4" square socket, ball catch groove
- Tip: DIN 5264, slotted

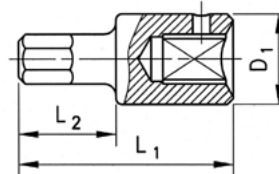
A (mm) B	L1 (mm)	L2 (mm)	D1 (mm)	Art. No.	P. Qty.
0.6 x 3.5	32	12	12	715.11735	1
1.0 x 5.5				715.11755	
1.2 x 6.5				715.11765	
1.2 x 8.0				715.11780	



PH

- Surface: Chrome-plated, polished/matt
- Drive: 1/4" square socket, ball catch groove
- Tip: ISO 8764-PH

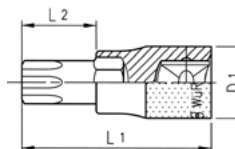
(mm)	L1 (mm)	L2 (mm)	D1 (mm)	Art. No.	P. Qty.
PH 1	32	12	12	715.11801	1
PH 2				715.11802	
PH 3				715.11803	



For hexagon socket, metric

- Surface: Chrome-plated, polished/matt
- Drive: 1/4" square drive, ball catch groove
- Output: For hexagon socket, DIN 7422

(mm)	L1 (mm)	L2 (mm)	D1 (mm)	Art. No.	P. Qty.
3	32	12	12	715.11503	1
4				715.11504	
5				715.11505	
6				715.11506	
7				715.11507	
8				715.11508	

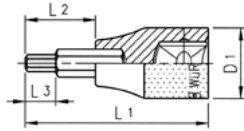


TX

- Surface: chrome-plated
- Drive: 1/4" square socket, ball catch groove
- Tip: For TX screws

(mm)	L1 (mm)	L2 (mm)	D2 (mm)	Art. No.	P. Qty.
2.72	32	12	12	715.11310	1
3.26				715.11315	
3.84				715.11320	
4.40				715.11325	
4.96				715.11327	
5.49				715.11330	
6.60				715.11340	

3/8" SOCKET WRENCH INSERT, METRIC

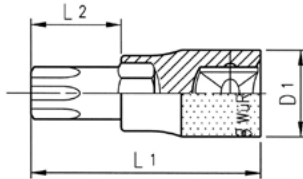


Metric, hexagon, short

- Surface: Chrome-plated, polished/matt
- Drive: 3/8" square socket, ball catch groove
- Tip: For hexagon socket, DIN 7422

(mm)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	Art. No.	P. Qty.
3	50.5	20.5	11	19	715.12703	1
4					715.12704	
5					715.12705	
6			715.12706			
7			10.5		715.12707	
8			-		715.12708	
9			13.5		715.12709	
10			-		715.12710	

1/2" SOCKET WRENCH INSERT, METRIC

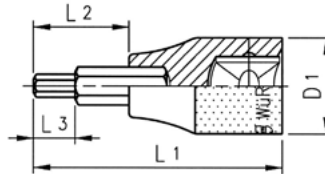


For TX screws, short

- Design: Short
- Surface: chrome-plated
- Drive: 1/2" square socket, ball catch groove
- Tip: For TX screws

(mm)	L1 (mm)	L2 (mm)	D1 (mm)	Art. No.	P. Qty.	
20	60	20	22.5	715.13320	1	
25				715.13325		
27				715.13327		
30				715.13330		
40				6.6		715.13340
45				7.77		715.13345
50				8.79		715.13350
55				11.17		715.13355
60				13.2		715.13360
70				15.49		25
80	17.51	28	715.13380			
100	80	42	26	715.133100		

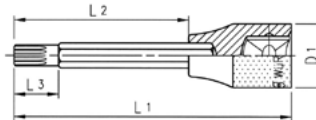
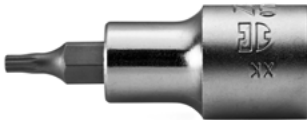
1/2" SOCKET WRENCH INSERT, METRIC



Hexagon

- Surface: Chrome-plated, polished/matt
- Drive: 1/2" square socket, ball catch groove
- Tip: For hexagon socket
- DIN 7422

(mm)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	Art. No.	P. Qty.
4	60	20	6	22.5	715.137040	1
5			7.5		715.137051	
6			9		715.137060	
6	140	100	715.137062			
7	60	20	10.5		715.13707	
8	140	100	-		715.137080	
8	60	20	-		715.137082	
10	140	100	-		715.137100	
10	60	20	-		715.137102	
12	140	100	-		715.137120	
12	60	20	-	715.137122		
14	140	100	-	715.13714		
14	60	20	-	715.13717		
17	140	100	-	715.13717		

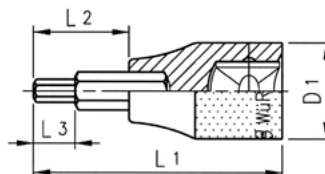


Triple square, short

- Surface: Chrome-plated
- Drive: 1/2" square socket, ball catch groove
- Tip: Triple square

(mm)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	Art. No.	P. Qty.
5	60	20	4	22.5	715.13805	1
6			5		715.13806	
8			6		715.13808	
8	100	60	715.138081			
10	60	20	715.13810			
10	100	60	715.138101			
12	60	20	715.138121			
14	100	60	715.13814			
14	60	20	715.138160			
16	100	60	715.138160			

1/2" SOCKET WRENCH INSERT, IMPERIAL



Hexagon

- Surface: Chrome-plated, polished/matt
- Drive: 1/2" square socket, ball catch groove
- Tip: For hexagon socket

(in.)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	Art. No.	P. Qty.
7/32	60	20	8.34	22.5	715.13751	1
1/4			9.53		715.13752	
3/8			-		715.13754	
1/2			-		715.13756	

1/2" SOCKET WRENCH INSERT, METRIC



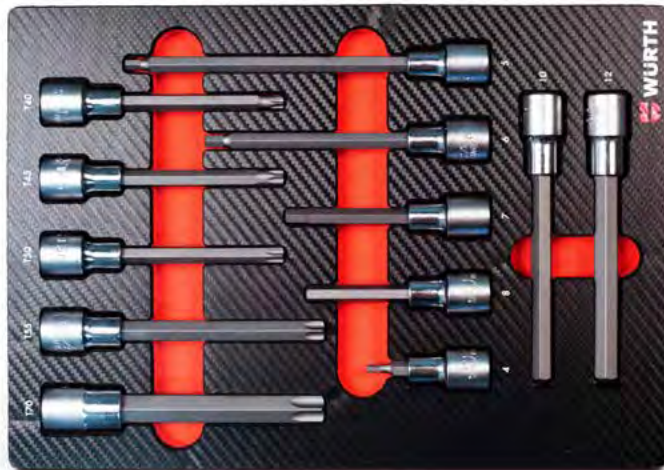
For TX screws, long

- Design: Long
- Surface: chrome-plated
- Drive: 1/2" square socket, ball catch groove
- Tip: For TX screws

	(mm)	L1 (mm)	L2 (mm)	L3 (mm)	D1 (mm)	Art. No.	P. Qty.
30	5.49	120	80	12.5	22.5	715.13430	1
40	6.6					715.13440	
45	7.77					715.13445	
50	8.79					715.13450	
55	11.17	140	100	-	25	715.13455	
60	13.2					715.13460	
70	15.49					715.13470	

1/2" TX SOCKET WRENCH ASSORTMENT

Art. No. 965.905207



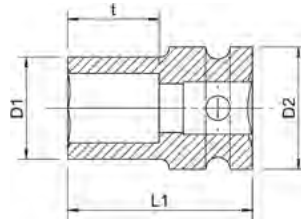
TX 1/2" Socket Wrench Set, 12 pcs System Assortment 4.4.1

- Number of pieces in assortment/set - 12pc
- Size foam section - 4.4.1
- Width x height x depth - 231 x 38 x 335 mm
- Décor - Carbon appearance

Description	Art. No.	P. Qty.
System insert 4.4.1, combination wrench empty	0955905207	1
"1/2" TX socket wrench long INTX-LONG-TX40"	715.13440	
"1/2" TX socket wrench long INTX-LONG-TX45"	715.13445	
"1/2" TX socket wrench long INTX-LONG-TX50"	715.13450	
"1/2" TX socket wrench long INTX-LONG-TX55"	715.13455	
"1/2" TX socket wrench long INTX-LONG-TX70"	715.13470	
1/2 inch socket wrench metric hex WS4-60MM	715.137040	
1/2 inch socket wrench metric hex WS5-60MM	0715137052	
1/2 inch socket wrench metric hex WS6-140MM	715.137062	
1/2 inch socket wrench metric hex WS7-100MM	0715137072	
1/2 inch socket wrench metric hex WS8-90MM	0715137081	
1/2 inch socket wrench metric hex WS10-140MM	715.137102	
1/2 inch socket wrench metric hex WS12-140MM	715.137122	

Item Only Available by Special Order

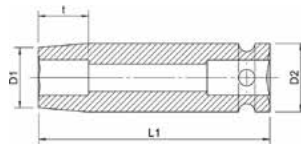
1/2" IMPACT SOCKET WRENCH INSERT, METRIC



Short

- For use with electric or pneumatic screwdrivers and impact screwdrivers
- Standard: DIN 3129, DIN 3121/ISO 1174
- Design: forged, burnished
- Drive: Square socket 1/2"
- Tip: Hexagon, metric
- Geometry: short

Hex (mm)	L1 (mm)	D1 (mm)	D2 (mm)	t (mm)	Art. No.	P. Qty	
9.5	38	17	25	12	714.1302	1	
10		30		25	10		714.1303
12					20		714.1304
13					21		714.1305
14					22.5		714.1306
15			23		30		13.5
16		25	12	714.13071			
17		26	12.5	714.1308			
18		27.3	13.5	714.13081			
19		28.5	15	714.1309			
21	30	14	714.13091				
22	32	14.5	714.1310				
24	34	17	714.1311				
27	42	38	20	714.1312			
30		42	19	714.1330			
32		44	20	714.1332			
34	44	46	21.5	714.1334			
36	48	49	18.5	714.1336			



Long

- For use with electric or pneumatic screwdrivers and impact screwdrivers
- Standard: DIN 3121/ISO 1174
- Design: forged, burnished
- Drive: Square socket 1/2"
- Tip: Hexagon, metric
- Geometry: long

Hex (mm)	L1 (mm)	D1 (mm)	D2 (mm)	t (mm)	Art. No.	P. Qty	
13	78	20.5	30	17	714.1313	1	
16		24			23		714.13131
17		26					714.1314
18		27.3					714.13142
19		28					714.1315
21		30		714.13151			
22		32		714.1316			
24		34		714.1317			
27		38		30	714.1318		

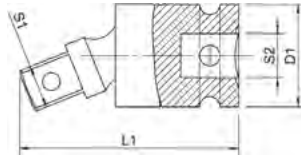
1/2" POWER CONNECTOR



- For all electrical or compressed air-driven screwdrivers and impact screwdrivers.
- Drop-forged special steel guarantees high breaking resistance and wear resistance and increases service life.
- Standard: DIN 3121/ISO 1174
- Design: Forged
- Surface: Burnished
- Drive: 1/2" square socket
- Tip: 3/4" square head

Length (mm)	Tip size (in.)	Drive (in.)	Art. No.	P. Qty
50	3/4"	1/2"	714.1328	1

1/2" POWER CARDAN JOINT



- For use with electric or pneumatic screwdrivers and impact screwdrivers
- Standard: DIN 3121/ISO 1174
- Design: forged, burnished
- Drive: Square socket 1/2"
- Tip: External square drive 1/2", with ball lock

S1	S2	L1 (mm)	D1 (mm)	Art. No.	P. Qty
1/2"	1/2"	63	30	714.138351	1

1/2" POWER EXTENSION



- For use with electric or pneumatic screwdrivers and impact screwdrivers
- Standard: DIN 3121/ISO 1174
- Design: forged, burnished
- Drive: Square socket 1/2"
- Tip: External square drive 1/2", with ball lock

Length (mm)	Drive (in.)	Art. No.	P. Qty
75	1/2"	714.1322	1
150		714.1323	

1/2-INCH IMPACT SOCKET WRENCH ASSORTMENT



Art. No. **714.900200** - P. Qty. 1

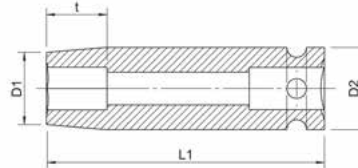
12 pieces. Hexagon, metric, long.

- Fits all conventional compressed air and electric drivers

Contents	Art. No.	P. Qty.
1/2 inch impact socket wrench insert 10mm	714.13127	1
1/2 inch impact socket wrench insert 11mm	714.13128	
1/2 inch impact socket wrench insert 13mm	714.1313	
1/2 inch impact socket wrench insert 14mm	714.13130	
1/2 inch impact socket wrench insert 17mm	714.1314	
1/2 inch impact socket wrench insert 19mm	714.1315	
1/2 inch impact socket wrench insert 21mm	714.13151	
1/2 inch impact socket wrench insert 22mm	714.1316	
1/2 inch impact socket wrench insert 23mm	714.13161	
1/2 inch impact socket wrench insert 24mm	714.1317	
1/2 inch power extension 150mm	714.1323	
1/2 inch power cardan joint	714.138351	

Sizes only sold individually through Special Order

1/2-INCH IMPACT SOCKET WRENCH INSERT



Hexagon, metric, long.

- Fits all conventional compressed air and electric drivers
- Standard: Square drive acc. To DIN 3121
- Design: forged, burnished
- Length: 78mm

Width Across Flats (mm)	External Diameter (D1) (mm)	Base External Diameter (D2) (mm)	Socket Wrench Depth (T) (mm)	Art. No.	P. Qty.	
10	17.5	25	5	714.13127	1	
11	18.5		6	714.13128		
13	20.5		30	8		714.1313
14	22			9		714.13130
16	24			10		714.13131
17	25			12		714.1314
18	26	13		714.13142		
19	27	15		714.1315		
21	30	30	10	714.13151		
22	32		12	714.1316		
23	34		13	714.13161		
24	38		15	714.1317		
27	38			714.1318		
30	42			714.13194		

Available only through Special Order

1/2" JOINTED HANDLE



- Standard: DIN 3122, ISO 3315
- Joint: Rotatable through 180°, head can be braked in any desired position
- Correct, flexible operation even in obstructed areas
- Powerful tightening
- Version: Chrome-plated

Length (mm)	Tip size (in.)	Handle diameter (mm)	Width of head (mm)	Art. No.	P. Qty.
490	1/2"	35	20	712.130102	1

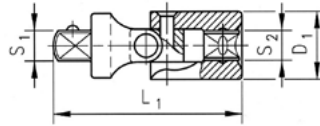
1/2" T-HANDLE



- Standard: DIN 3122, ISO 3315
- Sliding handle: Ball lock
- Design: Chrome-plated
- Application: T or L-handle

Length (mm)	Tip size (in.)	Head height (mm)	Art. No.	P. Qty.
295	1/2"	25	712.130201	1

CARDAN JOINTS



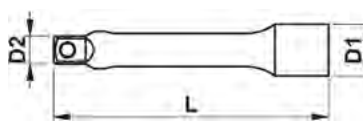
- Surface: Chrome-plated, polished
- Remains in specified position

S1	S2	L1 (mm)	D1 (mm)	Art. No.	P. Qty.
1/4"	1/4"	33	14	713.118301	1
1/2"	1/2"	70	25	712.138301	

1/4" EXTENSIONS



Drive (in.)	Drive Type	Tip Size (in.)	Tip Type	Length (mm)	Art. No.	P. Qty.
1/4"	Outer Hexagon	1/4"	Internal Square	70	613.710	1
			Square-cut	150	613.711	



- Surface: Chrome-plated, polished
- Drive: 1/4" square drive, ball catch groove

Length (mm)	D1 (mm)	D2 (mm)	Art. No.	P. Qty.
25	12	8.3	713.118101	1
53			713.118102	
101			713.118104	
152			713.118106	
250			713.118110	

1/2" ANGLED EXTENSIONS

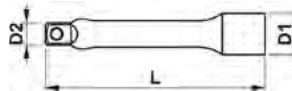


Art. No. **712.138100** P. Qty: 1

For working in hard-to-reach places

- Standard: DIN 3123, ISO 3316
- Surface: Chrome-plated
- Drive: 1/2" square socket, ball catch groove
- Tip: 1/2" square head
- Length: 50 mm
- Angular movement of up to 8°

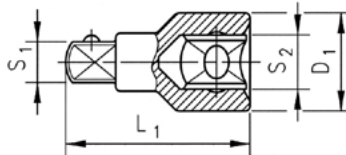
1/2" EXTENSIONS



- Standard: DIN 3123, ISO 3316
- Surface: Chrome-plated
- Drive: 1/2" square socket, ball catch groove
- Tip: 1/2" square head

Length (mm)	D1 (mm)	D2 (mm)	Art. No.	P. Qty
53	23	15	712.138102	1
75			712.138103	
125			712.138105	
250			712.138110	
457		17	712.138118	

CONNECTORS



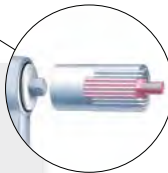
- Standard: DIN 3123, ISO 3316
- Surface: Chrome-plated, polished
- Material: Steel

Drive	Tip Size	L1 (mm)	Socket wrench external diameter (mm)	Art. No.	P. Qty
1/4"	3/8"	24	12.5	713.118401	1
3/8"	1/4"	27	17	713.128401	
	1/2"	36	20	713.128402	
1/2"	3/8"	38	23	712.138401	
	3/4"	44	25	712.138402	
3/4"	1/2"	53.5	34	715.14108	

WÜRTH GRIPPER



Thanks to its 54 spring loaded pins, it can firmly grip square, hexagonal, and Torx profiles as well as wing nuts, hook screws and eye bolts

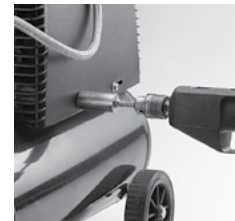
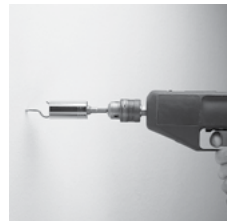


Note: It acts as a problem solving universal applicable tool, which can be stressed only with the maximum torque. The tool does not replace professional socket spanners.

Used for loosening and tightening bolts and nuts

- All purpose applicable as socket spanner insert from SW7 to SW19 or SW13 to SW32
- Replaces hexagon wrench, hexagon head and open-ended wrench.
- Saves an enormous amount of time and space

		Length (mm)	Fmax in Nm	Art. No.	P. Qty.
7 - 19 mm	3/8"	53.5	225	714.121907	1



FLEXIBLE EXTENSION



Flexible Extension for working in hard to reach places

Features:

- For fittings that are extremely difficult to access
- For high torques applications
- Drive with hinged design that enables "around the corner working"



Length	Max. torque	Product weight (per item)	Drive	Art. No.	Qty
235 mm	178 Nm	377.800 g	3/8 inch	1952.001275	1
225 mm	351 Nm	627.8 g	1/2 inch	1952.001276	1

RATCHET ADAPTER ASSORTMENT



Art. No. 965.1280 8 pcs.

Combined adapter assortment with most common socket-wrench and bit adapters

- Chrome-plated finish
- Square drive

Socket adapters		
Ratchet Drive	Socket Drive	Qty.
3/4"	1/2"	1
1/2"	3/4"	
1/2"	3/8"	
3/8"	1/2"	
1/4"	3/8"	
3/8"	1/4"	
Bit Adapters		
1/4"	1/4"	1
3/8"	5/16"	



1/4" AND 1/2" SOCKET ASSORTMENT – ROTARY RATCHET



Art. No. 965.1756 56 pcs.

Extensive 1/4" and 1/2" combination assortment for a very wide range of applications, ratchets with rotary disc reverse.



1/4":

- 1 ratchet
- 1 extension each 100; 150 mm
- 1 cardan joint
- 12 socket wrenches sizes 4; 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13; 14 mm

1/2":

- 1 ratchet
- 1 extension each 125; 250 mm
- 1 cardan joint
- 19 socket wrenches 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 24; 26; 27; 28; 30; 32 mm
- 1 handle 1/4"
- 1 adapter with quick-change chuck
- 15 bits: PH 1, 2, 3; slotted 0.8 x 5.5 mm; hexagon socket. Sizes 3, 4, 5, 6; TX 10, 15, 20, 25, 27, 30,



Art. No. 965.905901 56 pcs.

1/4" + 1/2" Socket Wrench, 56pcs System assortment 8.4.1

- Number of pieces in assortment/set - 56pc
- Size foam section - 8.4.1
- Width x height x depth - 462 x 38 x 335 mm
- Décor - Carbon appearance



1/2":

- 1 ratchet
- 1 125 mm extension
- 1 250 mm extension
- 1 cardan joint
- 19 socket wrench inserts: Sizes 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 26, 27, 28, 30, 32

1/4":

- 1 screwdriver
- 1 ratchet
- 2 extensions: 100, 150 mm
- 1 cardan joint
- 1 Zebra handle
- 1 adapter with quick-change chuck
- 12 socket wrench inserts: Sizes 4; 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13; 14
- 3 PH bits: PH1, PH2, PH3
- 1 bit slotted: Slotted: 0.8 x 5.5
- 4 bits for hexagon socket: Sizes 3, 4, 5, 6
- 7 TX bits: TX 10, 15, 20, 25, 27, 30, 40



Art. No. 965.1116 16 pcs.

- 1 ratchet
- 2 extensions: 100, 150 mm
- 1 cardan joint
- 12 socket wrench inserts: Sizes 4; 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13; 14



1/4" AND 1/2" SOCKET ASSORTMENT – LEVER RATCHET



Art. No. 965.09059 59 pcs.

Extensive 1/4" and 1/2" combination assortment for a very wide range of applications, ratchets with lever reverse.

1/4":

- 1 lever ratchet
- 1 25 mm angled extension
- 1 150 mm extension
- 1 150 mm flexible extension
- 1 cardan joint,
- 1 1/4" screwdriver handle
- 1 adapter with quick-change chuck
- 12 socket wrench inserts, sizes: 4; 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13; 14
- 3 PH bits: PH 1, 2, 3
- 4 hexagon socket bits: Sizes 3, 4, 5, 6 mm

- 7 TX bits: TX 10, 15, 20, 25, 27, 30, 40
- 1 slotted bit: 0.8 x 5.5 mm

1/2":

- 1 lever ratchet
- 1 53 mm angled extension
- 1 125 mm extension
- 1 250 mm extension
- 1 cardan joint
- 19 socket wrench inserts, sizes: 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 26, 27, 28, 30, 32

1/4" SOCKET ASSORTMENT – ROTARY RATCHET



Art. No. 965.1132 33 pcs.

Hexagon

- 1 ratchet
- 2 extensions: 100, 150 mm
- 1 cardan joint
- 1 Zebra handle
- 1 adapter with quick-change chuck
- 12 socket wrench inserts: Sizes 4; 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13; 14

- 3 PH bits: PH1, PH2, PH3
- 1 slotted bit: 0.8 x 5.5
- 4 hexagon socket bits: Sizes 3, 4, 5, 6 mm
- 7 TX bits: TX 10, 15, 20, 25, 27, 30, 40



1/4" SOCKET ASSORTMENT – BALL HEAD T-RATCHET



Art. No. 965.01427 27 pcs.

Multi-functional spherical ratchet with adjustable handle and the most commonly used socket wrenches in a compact product range

Features:

- Drive: 6.3 - 1/4"
- Standard: DIN 3122, ISO 3315
- Head: 72 teeth, angle of rotation: 5°, joint can be rotated 270°
- Handle: Two-component handle, straight or adjustable 90° as T-handle

Designation	Length in mm	Art. No.	P. Qty.
Spherical Head Ratchet	145	712.01405	1
9 Socket Wrench Inserts: One each of 6; 7; 8; 9; 10; 11; 12; 13; 14	22	713.111106 713.111114	
14 Socket Wrench Insert Bits: PH 1; PH 2; PH 3	25	715.11801 715.11803	
Internal hex.: 4; 5; 6		715.11503-06	
TX: 10, 15, 20, 25, 27, 30, 40		715.11310-40	
Slotted: 1.0 x 5.5		715.11755	
Extensions	50; 150	715.118102-116**	
Cardan Joint	33	713.118301	
Foam Insert	215 x 105 x 30	955.01427**	
Metal Box, size 1	220 x 110 x 35	955.7151**	

** Special Order – Alternative Extensions in prefix 713.1181XX



3 in 1!

Can be used like a conventional ratchet, as a screwdriver or a T-handle!



1/4" MULTI-SOCKET ASSORTMENT – ROTARY RATCHET



Art. No. 965.11032 32 pcs.

The multiple profile is suitable for the five most common screw head drives (hexagon metric, square metric, bi-hex metric, hexagon inch, TX head).

- Supplied in a metal box with high-quality foam insert compartment with clamping effect
- 12 sockets
- 14 1/4" bits



Designation	Drive	Length	Art. No.	Qty.
Ratchet		138 mm	712.0140	1
Extension		100 mm	713.118104	
Extension		150 mm	713.118106	
Universal joint		33 mm	713.118301	
Screwdriver handle		216 mm	613.430311	
Adapter with quick change chuck		30 mm	715.1101	1
12 multi-use sockets, 4 - 14 mm		22 mm	713.11304-713.11314	1
PH 1		25 mm	714.176274	
PH 2			614.176461	
PH 3			614.176648	

Designation	Drive	Length	Art. No.	Qty.
Bit slotted 0.8 x 5.5		25 mm	614.175653	1
Bit hex. socket size 3			614.17693	
Bit hex. socket size 4			614.17694	
Bit hex. socket size 5			614.17695	
Bit hex. socket size 6			614.17696	
TX 10			614.3110	
TX 15	614.3115			
TX 20	614.3120			
TX 25	614.3125			
TX 30	614.3130			
TX 40	614.3140			

1/4" Multi-Use Sockets

- Chrome plated; 1/4" square drive.
- Fits 5 different common head styles.

1/4" High-Performance Ratchet

- Chrome-plated with anti-slip 2-component handle.
- Head: fine toothed; 72 teeth; 5° rotating angle.

1/4" Drive Screwdriver

- Round blade; ball groove.

1/4" Extension Bars

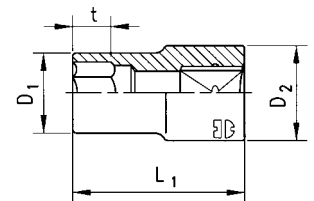
- Chrome plated; ball groove.

1/4" Universal Joint

- Chrome plated; ball groove; spring loaded joint.

1/4" Adapter

- Square socket input drive for use with ratchet to square drive.
- 1/4" hex socket output drive, universal holder for 1/4" bits.



Multi-profile	Possible uses					Note: This is a metric set. Standard sizes are only approximate equivalencies and may not work in all applications!						Qty.	
	6/12 sided/12		6 sided		Outside Torx	4-sided	L1	D1	D2	t	Art. No.		
in mm	in mm	bolt sz	head sz	in TX	in mm	in mm	in mm	in mm	in mm				
4	size 4	-	5/32"	E5	-	22	6.8	11.9	5	713.11304	1		
5	size 5	-	-	-	size 4		8.1						
5.5	size 5.5	-	7/32"	-	size 4.5		8.7						
6	size 6	-	-	E8	size 5		9.3						
7	size 7	-	9/32"	-	-		10.8						
8	size 8	#10, #12	5/16"	E10	-		11.9						
9	size 9	-	11/32"	-	-		13.4			13.4		7	713.11308
10	size 10	1/4"	3/8"	E12	size 8		14.5			14.5		10	713.11310
11	size 11	1/4"	7/16"	E14	size 9		15.9			15.9		10	713.11311
12	size 12	-	15/32"	E16	size 10		16.9			16.9		10	713.11312
13	size 13	5/16"	1/2"	-	-		18			18		11	713.11313
14	size 14	3/8"	9/16"	E18	-		19.6			19.6		11	713.11314

MULTI-PROFILE

suitable for the five most common screw head drives:

- Hexagon metric
- Square metric
- Bi-hexagon metric
- Hexagon imperial
- TX head

1/4" MULTI-SOCKET ASSORTMENT – LEVER RATCHET



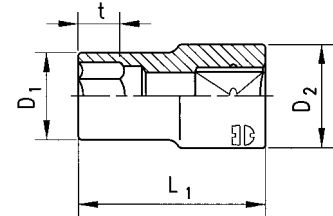
Art. No. 965.01434 34 pcs.

One set for almost any job, 34 pcs. The multiple profile is suitable for the five most common screw head drives (hexagon metric, square metric, bi-hex metric, hexagon inch, TX head).



- 1 lever ratchet
- 1 25 mm angled extension
- 1 150 mm extension
- 1 150 mm flexible extension
- 1 cardan joint
- 1 1/4" screwdriver handle
- 1 adapter with quick-change chuck
- 12 socket wrench inserts, sizes 4; 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13; 14
- 3 PH bits, PH 1, PH 2, PH 3
- 4 bits for hexagon socket, 3, 4, 5, 6 mm
- 7 TX bits, TX 10, 15, 20, 25, 27, 30, 40
- 1 slotted bit, 0.8 x 5.5

Multi-profile	Possible uses					Note: This is a metric set. Standard sizes are only approximate equivalencies and may not work in all applications!						Qty.
	6/12 sided/12		6 sided		Outside Torx	4-sided	L1	D1	D2	t	Art. No.	
in mm	in mm		bolt sz	head sz	in TX	in mm	in mm	in mm	in mm			
4	size 4	-	5/32"	E5	-	22	6.8	11.9	13.4	5	713.11304	1
5	size 5	-	-	-	size 4		8.1			713.11305		
5.5	size 5.5	-	7/32"	-	size 4.5		8.7			713.113055		
6	size 6	-	-	E8	size 5		9.3			713.11306		
7	size 7	-	9/32"	-	-		10.8			713.11307		
8	size 8	#10, #12	5/16"	E10	-		11.9			713.11308		
9	size 9	-	11/32"	-	-		13.4			713.11309		
10	size 10	1/4"	3/8"	E12	size 8		14.5			713.11310		
11	size 11	1/4"	7/16"	E14	size 9		15.9			713.11311		
12	size 12	-	15/32"	E16	size 10		16.9			713.11312		
13	size 13	5/16"	1/2"	-	-		18			713.11313		
14	size 14	3/8"	9/16"	E18	-		19.6			713.11314		



MULTI-PROFILE



suitable for the five most common screw head drives:

- **Hexagon** metric
- **Square** metric
- **Bi-hexagon** metric
- **Hexagon** imperial
- **TX head**

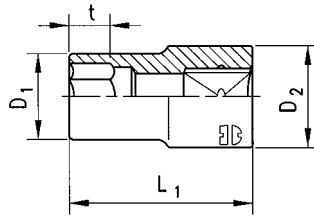
1/4" MINI MULTI-SOCKET ASSORTMENT – LEVER RATCHET



72 Zähne
72 teeth

Max. 40 Nm!

Powerful bit ratchet
Very robust design, max. torque of up to 40 Nm



MULTI-PROFILE

suitable for the five most common screw head drives:

- Hexagon metric
- Square metric
- Bi-hexagon metric
- Hexagon imperial
- TX head

Art. No. 965.1123 23 pcs.

Compact special tool with bit ratchet, multi-socket wrench and adapter. The multi profile is suitable for the five most common screw head drives (hexagon metric, square metric, bi-hex metric, hexagon inch, external TX).

Bit ratchet

- Tip: For 1/4" hexagon head drive in accordance with DIN 3126-C 6.3 and E 6.3
- Head: Extremely compact ratchet head, finely toothed, 64 teeth
- Surface: Chrome-plated
- With 2-component handle, very slim design, angled at 10°

Uses:

- The ideal problem solver in mechanical trades, e.g. cars and commercial vehicles, motorcycles and bicycles, mechanical engineering, precision mechanics and the furniture industry

Powerful bit ratchet

- Very robust design, max. torque of up to 40 Nm

Maximum flexibility

- Can be easily combined with a wide range of different adapters, bit holders, and socket wrench inserts

Contents:

- Bit ratchet
- 100 mm extension
- 100 mm bit holder
- 25 mm connector
- 1 each of multi-socket wrench sizes 5, 6, 8, 10, 11, 13 mm
- 1 bit each of PH 1, PH 2
- 1 slotted bit, 0.8 x 5.5 mm
- 1 bit each for hexagon socket sizes 3, 4, 5, 6 mm
- 1 bit each of TX 10, 15, 20, 25, 27, 30

Multi-profile	Possible uses						Note: This is a metric set. Standard sizes are only approximate equivalencies and may not work in all applications!					
	6/12 sided/12		6 sided		Outside Torx	4-sided	L1	D1	D2	t	Art. No.	Qty.
						in mm	in mm	in mm	in mm			
5	size 5	-	-	-	size 4	22	8.1	11.9	5	713.11305	1	
6	size 6	-	-	E8	size 5		9.3		6	713.11306		
8	size 8	#10, #12	5/16"	E10	-		11.9		7	713.11308		
10	size 10	1/4"	3/8"	E12	size 8		14.5	14.5	10	713.11310		
11	size 11	1/4"	7/16"	E14	size 9		15.9	15.9	10	713.11311		
13	size 13	5/16"	1/2"	-	-		18	18	11	713.11313		

3/8" SOCKET ASSORTMENT – ROTARY RATCHET



Art. No. 965.1242 42 pcs.

- 1 ratchet
- 1 75 mm extension
- 1 250 mm extension
- 1 cardan joint
- 14 socket wrench inserts, short: Sizes 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22
- 8 socket wrench inserts, long: Sizes 8, 10, 13, 16, 17, 18, 19, 21
- 8 socket wrench inserts: E 5, 6, 7, 8, 10, 11, 12, 14
- 8 TX socket wrench inserts: TX 15, 20, 25, 27, 30, 40, 45, 50



3/8" MULTI-SOCKET ASSORTMENT – ROTARY RATCHET



Art. No. 965.12022 22 pcs.

- Supplied in a metal box and a high-quality foam insert to hold each piece in place.
- Box: 315 x 115 x 40 mm (approx.: 12-3/8 x 4-1/2 x 1-9/16")



****Alternative extensions available in prefix 713.128XX - Special order only.**

Designation	Tip	Length	Art. No.	Qty.
Ratchet		175 mm	712.0380	1
Extension Bar		125 mm	713.128105**	
Extension Bar		250 mm	713.128110**	
Universal Joint		55 mm	713.128301**	

Designation	Tip	Length	Art. No.	Qty.
18 multi-sockets, 1 ea., 6-22 mm		25.5 - 31 mm	713.12306 - 713.12322	1

3/8" Universal Joint

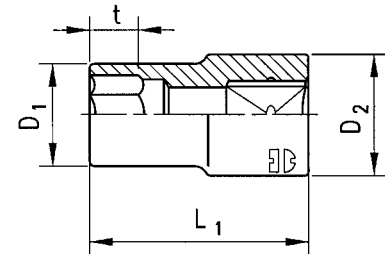
- Standard: DIN 3123, ISO 3316.
- Finish: chrome-plated.
- Input drive: 3/8", ball groove.
- Output drive: 3/8".
- Joint: spring-loaded, stays in set position.

3/8" Extension Bars

- Standard: DIN 3123, ISO 3316.
- Finish: chrome-plated.
- Input drive: 3/8" ball groove.
- Output drive: 3/8".

3/8" High-Performance Ratchet

- Easy handling and maximum service life.
- Drive: 10mm / 3/8".
- Standard, DIN 3122, ISO 3315.
- Head: fine-toothed, 72 teeth, 5° rotating angle.
- Chrome-plated with anti-slip 2-component handle resistant to general workplace oils and cleaners.
- Top quality, tested by German TÜV SÜD product service.
- Handy directional switch for easy switching, even with oily fingers; can be operated with one hand.
- Chamfer on square enables easier pull-off as better gripping is possible.
- Offset ratchet body enables more clearance for gripping with screw connections.



Multi-profile	Possible uses						Note: This is a metric set. Standard sizes are only approximate equivalencies and may not work in all applications!					Qty.
	6/12 sided/12		6 sided		Outside Torx	4-sided						
							in mm	in mm	in mm	in mm		
6	6 mm	-	-	E8	5 mm	25.5	9.3	17	7	713.12306	1	
6.3	6.3 mm	-	1/4"	-	-					9.9		713.123063
7	7 mm	-	9/32"	-	-					10.9		713.12307
8	8 mm	-	5/16"	E10	-					11.8		713.12308
9	9 mm	-	11/32"	-	-					13.4		713.12309
10	10 mm	-	3/8"	E12	8 mm					14.6		713.12310
11	11 mm	1/4"	7/16"	E14	9 mm					15.9		713.12311
12	12 mm	-	15/32"	E16	10 mm					17		713.12312
13	13 mm	5/16"	1/2"	-	-					18.4		713.12313
14	14 mm	3/8"	9/16"	E18	-					19.6		18
15	15 mm	-	19/32"	-	12 mm	20.9	19	713.12315				
16	16 mm	7/16"	5/8"	E20	13 mm	22	20	713.12316				
17	17 mm	-	-	-	14 mm	23.4	21	713.12317				
18	18 mm	-	-	E22	-	24.5	21.5	713.12318				
19	19 mm	1/2"	3/4"	E24	-	25.6	22.5	713.12319				
20	20 mm	-	25/32"	-	16 mm	26.8	23.5	713.12320				
21	21 mm	9/16"	13/16"	E26	17 mm	27.9	24.5	713.12321				
22	22 mm	-	7/8"	E28	18 mm	29.6	26	713.12322				

MULTI-PROFILE

suitable for the five most common screw head drives:

- Hexagon metric
- Square metric
- Bi-hexagon metric
- Hexagon imperial
- TX head

1/2" SOCKET ASSORTMENT – ROTARY RATCHET



Art. No. 965.13230 23 pcs.

- 1 ratchet
- 1 125 mm extension
- 1 250 mm extension
- 1 cardan joint
- 19 socket wrench inserts: Sizes 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 26, 27, 28, 30, 32



1/2" T-HANDLE SOCKET ASSORTMENT – ROTARY RATCHET



Art. No. 965.1320 21 pcs.

- 1 ratchet
- 1 125 mm extension
- 1 250 mm extension
- 1 cardan joint
- 1 T-handle
- 16 socket wrench inserts: Sizes 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 22, 24, 27, 30, 32, 34



1/2" SOCKET + TX SOCKET ASSORTMENT – ROTARY RATCHET



Art. No. 965.13210 21 pcs.

- 1 ratchet
- 1 125 mm extension
- 1 250 mm extension
- 1 cardan joint
- 8 socket wrench inserts: E 10, 11, 12, 14, 16, 18, 20 and 24
- 9 TX socket wrench inserts: TX 20, 25, 27, 30, 40, 45, 50, 55 and 60



1/2" SOCKET ASSORTMENT IMPERIAL – ROTARY RATCHET



Art. No. 965.1219 19 pcs.

- 1 ratchet
- 1 125 mm extension
- 1 250 mm extension
- 1 cardan joint
- 15 socket wrench inserts, imperial:
- 1/4; 9/32; 5/16; 11/32; 3/8; 7/16; 1/2; 9/16; 19/32; 5/8; 11/16; 3/4; 25/32; 13/16; 7/8



1/2" MULTI-SOCKET ASSORTMENT



Art. No. 965.13023 23 pcs.

- Supplied in a metal box and a high-quality foam insert to hold each piece in place.
- Box: 405 x 160 x 50 mm (approx.: 16 x 6 5/16 x 2")



Designation	Tip	Length	Art. No.	Qty.
Ratchet		250 mm	712.012	1
Extension Bar		125 mm	712.138105	
Extension Bar		250 mm	712.138110	
Universal Joint		70 mm	712.138301	

Designation	Tip	Length	Art. No.	Qty.
19 multi-sockets, 1 ea., 10-32 mm		36 - 44 mm	712.13410 712.13432	1

1/2" Universal Joint

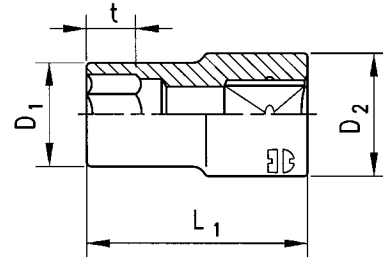
- Standard: DIN 3123, ISO 3316.
- Finish: chrome-plated.
- Input drive: 1/2", ball groove.
- Output drive: 1/2".
- Joint: spring-loaded, stays in set position.

1/2" Extension Bars

- Standard: DIN 3123, ISO 3316.
- Finish: chrome-plated.
- Input drive: 1/2" ball groove.
- Output drive: 1/2".

1/2" High-Performance Ratchet

- Easy handling and maximum service life.
- Drive: 12.5mm / 1/2".
- Standard, DIN 3122, ISO 3315.
- Head: fine-toothed, 72 teeth, 5° rotating angle.
- Chrome-plated with anti-slip 2-component handle resistant to general workplace oils and cleaners.
- Top quality, tested by German TÜV SÜD product service.
- Handy directional switch for easy switching, even with oily fingers; can be operated with one hand.
- Chamfer on square enables easier pull-off as better gripping is possible.
- Offset ratchet body enables more clearance for gripping with screw connections.



Multi-profile	Possible uses						Note: This is a metric set. Standard sizes are only approximate equivalencies and may not work in all applications!					Qty.
	6/12 sided/12		6 sided		Outside Torx	4-sided						
						in mm	in mm	in mm	in mm	in mm		
10	10	1/4"	3/8"	E12	8 mm	36	15.5	23	9	712.13410	1	
11	11	1/4"	7/16"	E14	9 mm		16.7		10	712.13411		
12	12	-	15/32"	E16	10 mm		18		11	712.13412		
13	13	5/16"	1/2"	-	-		19.2		13	712.13413		
14	14	3/8"	9/16"	E18	-		20.5		14	712.13414		
15	15	-	19/32"	-	12 mm		21.7		712.13415			
16	16	7/16"	5/8"	E20	13 mm		23		712.13416			
17	17	-	-	-	14 mm		24.2		23.2	712.13417		
18	18	-	-	E22	-		25.5		23.5	712.13418		
19	19	1/2"	"	E24	-		26.7		24.7	712.13419		
20	20	-	25/32"	-	16 mm		28		25.5	712.13420		
21	21	9/16"	13/16"	E26	17 mm		29.2		26	712.13421		
22	22	-	7/8"	E28	18 mm		30.5		26.5	712.13422		
24	24	5/8"	15/16"	E30	19 mm	33	29	712.13424				
26	26	-	-	E32	21 mm	35.5	31.5	712.13426				
27	27	-	1-1/16"	E34	22 mm	36.7	32.2	712.13427				
28	28	3/4"	1-1/8"	E36	23 mm	38	33.5	712.13428				
30	30	-	1-3/16"	E38	24 mm	40.5	36	712.13530				
32	32	-	-	E40	26 mm	43	38.1	712.13432				

MULTI-PROFILE

suitable for the five most common screw head drives:

- Hexagon metric
- Square metric
- Bi-hexagon metric
- Hexagon imperial
- TX head

1/2" DRIVE TORX/XZN/ALLEN SOCKET ASSORTMENT



Art. No. 965.13310 31 pcs.

Complete 1/2" assortment with short and long Allen, inner TX and multipoint XZN sockets. Contents especially matched to automotive and cargo applications.

- Metal box 350 x 260 x 55 mm (13-3/4" x 10-1/4" x 2-3/16")
- 8 TX socket wrenches, short version
- TX 25, 27, 30, 40, 45, 50, 55, 60
- 4 TX socket wrenches, long version
- TX 30, 40, 50, 60
- 4 XZN multipoint socket wrenches, short version
- M 5, 6, 8, 10
- 3 XZN multipoint socket wrenches, long version
- M 8, 10, 12
- 8 Allen socket wrenches, short version
- 5, 6, 7, 8, 10, 12, 14, 17 mm
- 4 Allen socket wrenches, long version
- 6, 8, 10, 12 mm

1/4-INCH, 3/8-INCH & 1/2-INCH SOCKET WRENCH ASSORTMENT



Art. No. 965.1777 - P. Qty. 1

77 pcs Extensive TX Assortment with the most common profiles.

Features & Benefits:

- Output: TX, TX with hole, Outer TX, TX IP, TX IPR, TX Plus.
- Drive: 1/4 inch, 3/8 inch and 1/2 inch socket wrench with square drive.
- Material: Chrome-vanadium steel.
- Suitable for manual use in DIN 3120 ratchets.
- Kit Dimensions: 410 x 600 x 330 mm

Application:

- TX IP: Timing-belt housing cover, gearbox, engine in general, etc.
- TX IPR: Plug-in pumps in pump-line-nozzle systems, air flow systems, vehicle control units, injection pumps, alternator etc.
- TX Plus: Flywheels, Coupling attachments, transmissions etc.
- Other application areas with TX tamper resistant screw heads.



Contents	Art. No.	P. Qty.
1/4" TX6; 37mm	715.1135061	
1/4" TX8; 37mm	715.1135081	
1/4" TX10; 37mm	715.1135101	
1/4" TX15; 37mm	715.1135151	
1/4" TX20; 37mm	715.1135201	
1/4" TX25; 37mm	715.1135251	
1/4" TX27; 37mm	715.1135271	
1/4" TX30; 37mm	715.1135301	
1/2" TX40; 55mm	715.1316401	
1/2" TX45; 55mm	715.1316451	
1/2" TX47; 55mm	715.1316471	
1/2" TX50; 55mm	715.1316501	
1/2" TX55; 55mm	715.1316551	
1/2" TX60; 55mm	715.1316601	
1/2" TX70; 55mm	715.1316701	
1/4" TX with hole TX10; 37mm	715.113610	
1/4" TX with hole TX15; 37mm	715.113615	
1/4" TX with hole TX20; 37mm	715.113620	
1/4" TX with hole TX25; 37mm	715.113625	
1/4" TX with hole TX27; 37mm	715.113627	
1/4" TX with hole TX30; 37mm	715.113630	
1/2" TX with hole TX40; 55mm	715.131740	
1/2" TX with hole TX45; 55mm	715.131745	
1/2" TX with hole TX50; 55mm	715.131750	
1/2" TX with hole TX55; 55mm	715.131755	
1/2" TX with hole TX60; 55mm	715.131760	

Contents	Art. No.	P. Qty.
1/4" insert, TX head E4; 25mm	715.112104	
1/4" insert, TX head E5; 25mm	715.112105	
1/4" insert, TX head E6; 25mm	715.112106	
1/4" insert, TX head E7; 25mm	715.112107	
1/4" insert, TX head E8; 25mm	715.112108	
3/8" insert, TX head E10; 28mm	715.122210	
3/8" insert, TX head E12; 28mm	715.122212	
3/8" insert, TX head E14; 28mm	715.122214	
3/8" insert, TX head E16; 28mm	715.122216	
1/2" insert, TX head E18; 38mm	715.132318	
1/2" insert, TX head E20; 38mm	715.132320	
1/2" insert, TX head E22; 38mm	715.132322	
1/2" insert, TX head E24; 38mm	715.132324	
1/4" TX IP, TX8; 37mm	715.113708	
1/4" TX IP, TX10; 37mm	715.113710	
1/4" TX IP, TX15; 37mm	715.113715	
1/4" TX IP, TX20; 37mm	715.113720	
1/4" TX IP, TX25; 37mm	715.113725	
1/4" TX IP, TX27; 37mm	715.113727	
1/4" TX IP, TX30; 37mm	715.113730	
1/2" TX IP, TX40; 55mm	715.131840	
1/2" TX IP, TX45; 55mm	715.131845	
1/2" TX IP, TX50; 55mm	715.131850	
1/2" TX IP, TX55; 55mm	715.131855	
1/2" TX IP, TX60; 55mm	715.131860	
1/4" TX IPR, TX8; 37mm	715.113808	

Contents	Art. No.	P. Qty.
1/4" TX IPR, TX10; 37mm	715.113810	
1/4" TX IPR, TX15; 37mm	715.113815	
1/4" TX IPR, TX20; 37mm	715.113820	
1/4" TX IPR, TX25; 37mm	715.113825	
1/4" TX IPR, TX27; 37mm	715.113827	
1/4" TX IPR, TX30; 37mm	715.113830	
1/2" TX IPR, TX40; 55mm	715.131940	
1/2" TX IPR, TX45; 55mm	715.131945	
1/2" TX IPR, TX50; 55mm	715.131950	
1/2" TX IPR, TX55; 55mm	715.131955	
1/2" TX IPR, TX60; 55mm	715.131960	
1/4" TX plus, TX4; 25mm	715.112204	
1/4" TX plus, TX5; 25mm	715.112205	
1/4" TX plus, TX6; 25mm	715.112206	
1/4" TX plus, TX7; 25mm	715.112207	
1/4" TX plus, TX8; 25mm	715.112208	
3/8" TX plus, E10; 37mm	715.122310	
3/8" TX plus, E12; 37mm	715.122312	
3/8" TX plus, E14; 37mm	715.122314	
3/8" TX plus, E16; 37mm	715.122316	
1/2" TX plus, E18; 45mm	715.132418	
1/2" TX plus, E20; 45mm	715.132420	
1/2" TX plus, E22; 45mm	715.132422	
1/2" TX plus, E24; 45mm	715.132424	

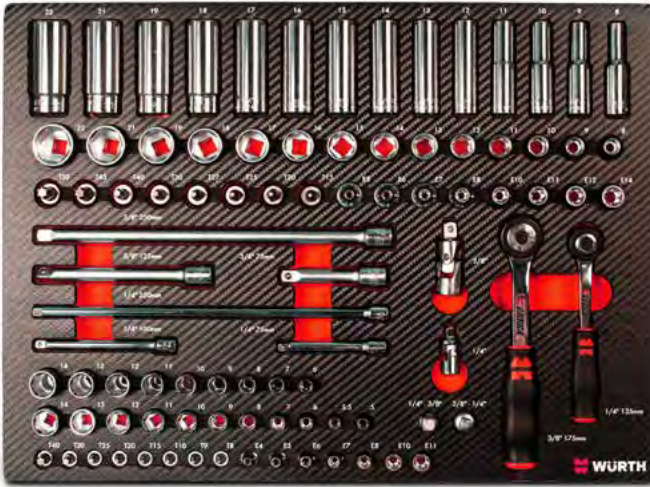
Individual Articles Available Only Through Special Order.

3/8" + 1/4" SOCKET WRENCH ASSORTMENT

Art. No. 965.905903

3/8" + 1/4" Socket Wrench Set, 91pcs System Assortment 8.4.1

- Number of pieces in assortment/set - 91pc
- Size foam section - 8.4.1
- Width x height x depth - 462 x 38 x 335 mm
- Décor - Carbon appearance

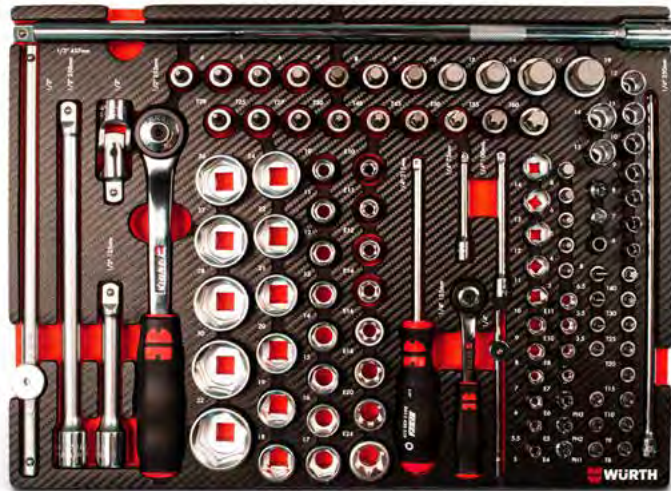


Description	Art. No.	P. Qty.
System insert 4.4.1, combination wrench empty	0955905903	
1/4 ratchet with rotary disc reverse 72TEETH-135MM	712.0140	
3/8 Ratchet Reverse 72 Teeth - L175mm	712.0380	
1/4 inch socket wrench metric hexagon short WS5	713.111105	
1/4 inch socket wrench metric hexagon short WS6	713.111106	
1/4 inch socket wrench metric hexagon short WS7	713.111107	
1/4 inch socket wrench metric hexagon short WS8	713.111108	
1/4 inch socket wrench metric hexagon short WS9	713.111109	
1/4 inch socket wrench metric hexagon short WS10	713.111110	
1/4 inch socket wrench metric hexagon short WS11	713.111111	
1/4 inch socket wrench metric hexagon short WS12	713.111112	
1/4 inch socket wrench metric hexagon short WS13	713.111113	
1/4 inch socket wrench metric hexagon short WS14	713.111114	
1/4 inch socket wrench metric hexagon short WS5.5	713.111155	
1/4 inch socket wrench metric hexagon long-WS6	713.112106	
1/4 inch socket wrench metric hexagon long-WS7	713.112107	
1/4 inch socket wrench metric hexagon long-WS8	713.112108	
1/4 inch socket wrench metric hexagon long-WS9	713.112109	
1/4 inch socket wrench metric hexagon long-WS10	713.112110	
1/4 inch socket wrench metric hexagon long-WS11	713.112111	
1/4 inch socket wrench metric hexagon long-WS12	713.112112	
1/4 inch socket wrench metric hexagon long-WS13	713.112113	
1/4 inch socket wrench metric hexagon long-WS14	713.112114	
1/4" extension 100MM	713.118104	1
1/4" extension 250MM	713.118110	
1/4 inch cardan joint	713.118301	
1/4" connector (1/4-3/8IN)	713.118401	
3/8 inch socket wrench insert metric-WS8	713.121108	
3/8 inch socket wrench insert metric-WS9	713.121109	
3/8 inch socket wrench insert metric-WS10	713.121110	
3/8 inch socket wrench insert metric-WS11	713.121111	
3/8 inch socket wrench insert metric-WS12	713.121112	
3/8 inch socket wrench insert metric-WS13	713.121113	
3/8 inch socket wrench insert metric-WS14	713.121114	
3/8 inch socket wrench insert metric-WS15	713.121115	
3/8 inch socket wrench insert metric-WS16	713.121116	
3/8 inch socket wrench insert metric-WS17	713.121117	
3/8 inch socket wrench insert metric-WS18	713.121118	
3/8 inch socket wrench insert metric-WS19	713.121119	
3/8 inch socket wrench insert metric-WS21	713.121121	
3/8 inch socket wrench insert metric-WS22	713.121122	
3/8 inch socket wrench-metric-hexagon-long WS8	713.122108	
3/8 inch socket wrench-metric-hexagon-long WS9	713.122109	
3/8 inch socket wrench-metric-hexagon-long WS10	713.122110	
3/8 inch socket wrench-metric-hexagon-long WS11	713.122111	
3/8 inch socket wrench-metric-hexagon-long WS12	713.122112	

Description	Art. No.	P. Qty.
3/8 inch socket wrench-metric-hexagon-long WS13	713.122113	
3/8 inch socket wrench-metric-hexagon-long WS14	713.122114	
3/8 inch socket wrench-metric-hexagon-long WS15	713.122115	
3/8 inch socket wrench-metric-hexagon-long WS16	713.122116	
3/8 inch socket wrench-metric-hexagon-long WS17	713.122117	
3/8 inch socket wrench-metric-hexagon-long WS18	713.122118	
3/8 inch socket wrench-metric-hexagon-long WS19	713.122119	
3/8 inch socket wrench-metric-hexagon-long WS21	0713122121	
3/8 inch socket wrench-metric-hexagon-long WS22	0713122122	
3/8 inch extension-L75mm	0713128103	
3/8 inch extension-L125mm	0713128105	
3/8 inch extension-L250mm	0713128110	
3/8" connector (3/8-3/8IN)	0713128301	
3/8" connector (3/8-1/4IN)	713.128401	
1/4 inch angled extension - 75mm	07151140	
1/4 inch socket wrench external TX-1/4IN-EXTX-E4	071511204	
1/4 inch socket wrench external TX-1/4IN-EXTX-E5	071511205	
1/4 inch socket wrench external TX-1/4IN-EXTX-E6	071511206	
1/4 inch socket wrench external TX-1/4IN-EXTX-E7	071511207	
1/4 inch socket wrench external TX-1/4IN-EXTX-E8	071511208	
1/4 inch socket wrench external TX-1/4IN-EXTX-E10	071511210	
1/4 inch socket wrench external TX-1/4IN-EXTX-E11	071511211	
1/4 inch TX socket wrench TX8	071511308	1
1/4 inch TX socket wrench TX9	071511309	
1/4 inch TX socket wrench TX10	715.11310	
1/4 inch TX socket wrench TX15	715.11315	
1/4 inch TX socket wrench TX20	715.11320	
1/4 inch TX socket wrench TX25	715.11325	
1/4 inch TX socket wrench TX30	715.11330	
1/4 inch TX socket wrench TX40	715.11340	
3/8 inch socket wrench external TX short-EXTX-E5	715.12205	
3/8 inch socket wrench external TX short-EXTX-E6	715.12206	
3/8 inch socket wrench external TX short-EXTX-E7	715.12207	
3/8 inch socket wrench external TX short-EXTX-E8	715.12208	
3/8 inch socket wrench external TX short-EXTX-E10	715.12210	
3/8 inch socket wrench external TX short-EXTX-E11	715.12211	
3/8 inch socket wrench external TX short-EXTX-E12	071512212	
3/8 inch socket wrench external TX short-EXTX-E14	715.12214	
3/8 inch socket wrench Torx-TX15	715.12315	
3/8 inch socket wrench Torx-TX20	715.12320	
3/8 inch socket wrench Torx -TX25	715.12325	
3/8 inch socket wrench Torx-TX27	715.12327	
3/8 inch socket wrench Torx-TX30	715.12330	
3/8 inch socket wrench Torx-TX40	715.12340	
3/8 inch socket wrench Torx-TX45	715.12345	
3/8 inch socket wrench Torx-TX50	715.12350	

Item Only Available by Special Order

1/4" + 1/2" SOCKET WRENCH ASSORTMENT



Art. No. 965.905922

1/4" + 1/2" Socket Wrench Set, 109pc System Assortment 8.4.1

- Number of pieces in assortment/set - 109pc
- Size foam section - 8.4.1
- Width x height x depth - 462 x 38 x 335 mm
- Décor - Carbon appearance

Description	Art. No.	P. Qty.
System insert 4.4.1, combination wrench empty	0955905922	1
Screwdriver 1/4 inch continuous blade L225MM	613.430310	
1/2 reversible ratchet wrench reverse 72TEETH-250	712.0120	
1/4 ratchet with rotary disc reverse 72TEETH-135MM	712.0140	
T-handle 1/2 inch	712.130201	
"1/2" socket wrench hexagon short SHORT-HEX-WS10"	712.131110	
"1/2" socket wrench hexagon short SHORT-HEX-WS11"	712.131111	
"1/2" socket wrench hexagon short SHORT-HEX-WS12"	712.131112	
"1/2" socket wrench hexagon short SHORT-HEX-WS13"	712.131113	
"1/2" socket wrench hexagon short SHORT-HEX-WS14"	712.131114	
"1/2" socket wrench hexagon short SHORT-HEX-WS15"	712.131115	
"1/2" socket wrench hexagon short SHORT-HEX-WS16"	712.131116	
"1/2" socket wrench hexagon short SHORT-HEX-WS17"	712.131117	
"1/2" socket wrench hexagon short SHORT-HEX-WS18"	712.131118	
"1/2" socket wrench hexagon short SHORT-HEX-WS19"	712.131119	
"1/2" socket wrench hexagon short SHORT-HEX-WS20"	712.131120	
"1/2" socket wrench hexagon short SHORT-HEX-WS21"	712.131121	
"1/2" socket wrench hexagon short SHORT-HEX-WS22"	712.131122	
"1/2" socket wrench hexagon short SHORT-HEX-WS24"	712.131124	
"1/2" socket wrench hexagon short SHORT-HEX-WS26"	712.131126	
"1/2" socket wrench hexagon short SHORT-HEX-WS27"	712.131127	
"1/2" socket wrench hexagon short SHORT-HEX-WS28"	712.131128	
"1/2" socket wrench hexagon short SHORT-HEX-WS30"	712.131130	
"1/2" socket wrench hexagon short SHORT-HEX-WS32"	712.131132	
1/2" angled extension L125MM	712.138105	
1/2" extension L250MM	712.138110	
1/2" angled extension L457MM	712.138118	
1/2 inch cardan joint	712.138301	
T-handle 1/4 inch L115mm	0713110201	
1/4 inch socket wrench metric hexagon short WS5	713.111105	
1/4 inch socket wrench metric hexagon short WS6	713.111106	
1/4 inch socket wrench metric hexagon short WS7	713.111107	
1/4 inch socket wrench metric hexagon short WS8	713.111108	
1/4 inch socket wrench metric hexagon short WS9	713.111109	
1/4 inch socket wrench metric hexagon short WS10	713.111110	
1/4 inch socket wrench metric hexagon short WS11	713.111111	
1/4 inch socket wrench metric hexagon short WS12	713.111112	
1/4 inch socket wrench metric hexagon short WS13	713.111113	
1/4 inch socket wrench metric hexagon short WS14	713.111114	
1/4 inch socket wrench metric hexagon short WS5.5	713.111155	
1/4 inch socket wrench metric hexagon long-WS6	713.112106	
1/4 inch socket wrench metric hexagon long-WS7	713.112107	
1/4 inch socket wrench metric hexagon long-WS8	713.112108	
1/4 inch socket wrench metric hexagon long-WS9	713.112109	1
1/4 inch socket wrench metric hexagon long-WS10	713.112110	
1/4 inch socket wrench metric hexagon long-WS11	713.112111	
1/4 inch socket wrench metric hexagon long-WS12	713.112112	
1/4 inch socket wrench metric hexagon long-WS13	713.112113	
1/4 inch socket wrench metric hexagon long-WS14	713.112114	

Description	Art. No.	P. Qty.
1/4" extension 100MM	713.118104	
1/4" extension 250MM	713.118110	
1/4 inch cardan joint	713.118301	
1/4" connector (1/4-3/8IN)	713.118401	
1/4" adapter with quick-change chuck 4PT	715.1101	
1/4 inch angled extension L75mm	07151140	
1/4 inch socket wrench external TX-E4	071511204	
1/4 inch socket wrench external TX-E5	071511205	
1/4 inch socket wrench external TX-E6	071511206	
1/4 inch socket wrench external TX-E7	071511207	
1/4 inch socket wrench external TX-E8	071511208	
1/4 inch socket wrench external TX-E10	071511210	
1/4 inch socket wrench external TX-E11	071511211	
1/4 inch TX socket wrench TX8	071511308	
1/4 inch TX socket wrench TX9	071511309	
1/4 inch TX socket wrench TX10	715.11310	
1/4 inch TX socket wrench TX15	715.11315	
1/4 inch TX socket wrench TX20	715.11320	
1/4 inch TX socket wrench TX25	715.11325	
1/4 inch TX socket wrench TX30	715.11330	
1/4 inch TX socket wrench TX40	715.11340	
1/4 inch socket wrench hexagon socket WS3	715.11503	
1/4 inch socket wrench hexagon socket WS4	715.11504	
1/4 inch socket wrench hexagon socket WS5	715.11505	
1/4 inch socket wrench hexagon socket WS6	715.11506	
1/4 inch socket wrench hexagon socket WS8	715.11508	
1/4 inch socket wrench slotted 3.5X0.6	715.11735	
1/4 inch socket wrench slotted 5.5X1.0	715.11755	
1/4 inch socket wrench slotted 6.5X1.2	715.11765	
1/4 inch socket wrench slotted 8.0X1.2	715.11780	
1/4 inch PH socket wrench H1	715.11801	
1/4 inch PH socket wrench H2	715.11802	
1/4 inch PH socket wrench H3	715.11803	
1/2 inch socket wrench external TX short-E10	071513210	
1/2 inch socket wrench external TX short-E11	071513211	
1/2 inch socket wrench external TX short-E12	071513212	
1/2 inch socket wrench external TX short-E14	071513214	
1/2 inch socket wrench external TX short-E16	071513216	
1/2 inch socket wrench external TX short-E18	071513218	
1/2 inch socket wrench external TX short-E20	071513220	
1/2 inch socket wrench external TX short-E24	071513224	
"1/2" TX socket wrench short 1/2IN-INTX-TX20"	715.13320	
"1/2" TX socket wrench short 1/2IN-INTX-TX25"	715.13325	
"1/2" TX socket wrench short 1/2IN-INTX-TX27"	715.13327	
"1/2" TX socket wrench short 1/2IN-INTX-TX30"	715.13330	
"1/2" TX socket wrench short 1/2IN-INTX-TX40"	715.13340	
"1/2" TX socket wrench short 1/2IN-INTX-TX45"	715.13345	
"1/2" TX socket wrench short 1/2IN-INTX-TX50"	715.13350	
"1/2" TX socket wrench short 1/2IN-INTX-TX55"	715.13355	1
"1/2" TX socket wrench short 1/2IN-INTX-TX60"	715.13360	
1/2 inch socket wrench metric hex WS4-60MM	715.137040	
1/2 inch socket wrench metric hex WS5-60MM	715.137051	
1/2 inch socket wrench metric hex WS6-60MM	715.137060	
1/2 inch socket wrench metric hex WS7-60MM	715.13707	
1/2 inch socket wrench metric hex WS8-60MM	715.137080	
1/2 inch socket wrench metric hex WS9-60MM	071513709	1
1/2 inch socket wrench metric hex WS10-60MM	715.137100	
1/2 inch socket wrench metric hex WS12-60MM	715.137120	
1/2 inch socket wrench metric hex WS14-60MM	715.13714	
1/2 inch socket wrench metric hex WS17-60MM	715.13717	
1/2 inch socket wrench metric hex WS19-60MM	071513719	

HAND TOOL KIT – 91 PCS



**PERFECT
for mobile
operations!**

Art. No. 965.93120

Würth's main goal is to offer high quality products and innovative solutions to simplify the day-to-day operations of our clients. Ease of use and high quality have been behind the success of Zebra hand tools for many years. They offer good economy for optimal service life even in the harshest conditions.

This kit offers everything with all the metric tools you need in your daily work. Perfect for mobile operations.

423 x 360 x 86 mm



Description	Art. No.
Combination spanner, 11 pieces: 8, 9, 10, 11, 12, 13, 14, 16, 17, 19, 22 mm	713.30108 to 713.30122
Combination pliers 180 mm	715.01575
Hammer, 400 g	715.73140
Water Pump Pliers, 250 mm	714.0271
Voltage tester 3.0 mm, 150 - 250 Volt	715.5305
1/4" Ratchet 135 mm	712.0140
1/4" Cardan Joint	713.118301
1/4" Extension 50 + 100 mm	713.118102/104
1/4" Socket Wrench Insert, 12 parts: 4; 5; 5,5; 6; 7; 8; 9; 10; 11; 12; 13; 14 mm	713.111104 to 713.111114
1/2" Ratchet 250 mm	712.0120
1/2" Cardan Joint	712.138301
1/2" Extension 125, 250 mm	712.138105/110
1/2" Socket Wrench Insert, 19 pieces: 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 26, 27, 28, 30, 32 mm	712.131110 to 712.131132
Screwdriver 1/4" drive	613.430310
Flat Screwdriver, 0.6 x 3.5 x 100 mm	613.231735
Flat Screwdriver, 1.2 x 6.5 x 150 mm	613.231065
Phillips Screwdriver PH 1	613.23201
Phillips Screwdriver PH 2	613.23202
1/4" Bit Adapter	614.176680
Bit Assortment, 30 pieces: 1 x AW 10, 25, 30 / Internal Hex. 3,4,5 mm / TX 15, 40 • 1 x Slot 4.5 x 0.6; 5.5 x 0.8; 6.5 x 1.2 mm • 2 x AW 20 / PH1, 2 / PZ1 / TX 10, 20, 25, 30 • 3 x PZ 2	614 prefix
Bit Holder, 51 mm	614.176711

Note: Articles in red are special orders only

PUTTY KNIFE



Flexible, high-quality carbon steel (conically ground).

Applications:

- For eliminating unevenness and removing wallpaper or adhesive residues
- For removing old paintwork, surface rust, wall coverings

Blade Width (mm)	Art. No.	P. Qty.
30	695.940903	1
50	695.940905	
70	695.940907	

BEVELLED-EDGE CHISELS



2K handle for maximum resistance in line with DIN 5139

Features:

Ergonomically shaped 2K handle

- Non-slip, effortless work

Metal impact cap

- Optimum transfer of impact force, durable

Polished chromium-vanadium blade

- Clean cuts, long service life

Width of knife blade (mm)	Art. No.	P. Qty.
10	715.653410	1
16	715.653416	
20	715.653420	
24	715.653424	
26	715.653426	
30	715.653430	

BEVELLED-EDGE CHISEL SET



Art. No. 715.653400 6 pcs.

6-piece set with blade widths 10, 16, 20, 24, 26 and 30 mm.

2K handle for maximum resistance in line with DIN.

Features:

- Non-slip 2K handle
- Metal impact cap for optimum transfer of impact force, durable
- Polished chromium-vanadium blade
- Clean cuts, long service life

FLAT CHISEL IN LINE



Tempered hammer head

- DIN 6453

Length (mm)	S (mm)	w x h (mm)	Weight (g)	Art. No.	P. Qty.
125	16	14 x 9	100	714.6301	1
150	18	17 x 11	170	714.6302	
175	22	20 x 12	260	714.6303	
200	25	23 x 13	380	714.6304	
250			490	714.6305	
300			600	714.6306	

STONE OR BRICKLAYER'S CHISEL



Tempered hammer head

- DIN 7254, Type B

Length (mm)	S (mm)	a (mm)	Weight (g)	Art. No.	P. Qty.
300	24	16	475	714.6311	1
400	28	18	800	714.6312	

CENTRE PUNCH



Tempered impact head

- DIN 7250

Length (mm)	a (mm)	d (mm)	Weight (g)	Art. No.	P. Qty.
120	10	4	65	714.6315	1
150	12	5	120	714.6316	

PREMIUM TILE CHISEL



Premium Chisels for Masonry Application and Tile Removal

Applications:
Knocking off tiles, but also suitable for light masonry

- Ergonomic blade for optimum working

- position on the walls and floors
- Perfect for tight fitting gaps
- Surface-safe design and optimum angle that allows for easy removal with reduced flying debris
- Faster and more efficient design
- SDS-plus chuck for easy fitting onto the tool

Length in mm	Width in mm	Art. No. SDS-plus Insertion Shank	Art. No. SDS-max Insertion Shank	P. Qty.
250	50	648.855250	—	1
380	50	—	647.85550	

PREMIUM TILE CHISEL – EXTRA WIDE



The versatile specialist with an extra-short shaft and extra-wide working blade.

Applications:
For the removal of plaster and tiles in hard-to-reach corners and in tight spots. Ideal for use in battery-operated tools

- Extra-short shaft and extra-wide working blade
- 80% greater debris removal capacity in comparison to standard width chisels
- Ergonomic blade for optimum working position on the walls and floors
- SDS-plus chuck for easy fitting onto the tool

Length in mm	Width in mm	Art. No. SDS-plus Insertion Shank	P. Qty.
165	75	648.55165	1

PREMIUM GAUGE



For removal of material to create narrow channels.

- Considerably longer service life
- More material removal due to hafted inline tip-end design

Applications:
For the creation of narrow channels for gas, water and power lines in almost all construction materials (except extremely hard materials such as marble and granite), primarily in concrete.

Length in mm	Width in mm	Art. No. SDS-plus Insertion Shank	Art. No. SDS-max Insertion Shank	P. Qty.
250	22	648.854250	—	1
300	26	—	647.85426	

PREMIUM SPADE CHISELS



**For chipping away at plastered walls
and for loosening soil, cement and bitumen.**

Version 1

With innovative wedge shape

- Greater wedge effect
- Higher breaking resistance
- Longer service life

Version 2

With an extended shank reinforcement

- More stability while using and less danger of breakage
- Longer service life

Version 3

With improved forming process

- Increased strength and hardness
- Longer service life

Version	Length in mm	Width in mm	Art. No. SDS-plus Insertion Shank	Art. No. SDS-max Insertion Shank	P. Qty.
1	250	40	648.853250	—	1
	380	50	—	647.85350	
2	350	115	—	647.853115	
3	300	80	—	647.85380	



Premium Point, Flat and Spade Chisel Multi-Pack			
Contents	Art. No. SDS-plus Insertion Shank	Art. No. SDS-max Insertion Shank	P. Qty.
One each of 648.851250, 648.852250 and 648.853250	648.850002	—	1
One each of 647.851380, 647.852325 and 647.85350	—	647.850002	

*Available through special orders only

PREMIUM POINT AND FLAT CHISELS



Additional breaking edges



Premium Point Chisels				
Length in mm	Width in mm	Art. No. SDS-plus Insertion Shank	Art. No. SDS-max Insertion Shank	P. Qty.
250	—	648.851250	—	1
280	—	—	647.851280	
400	—	—	647.851380	



Additional breaking edges



Premium Flat Chisels (only available in kit or special order)				
Length in mm	Width in mm	Art. No. SDS-plus Insertion Shank	Art. No. SDS-max Insertion Shank	P. Qty.
250	20	648.852250	—	1
280	25	—	647.852225	
400	25	—	647.852325	



Premium Point and Flat Chisel Kit			
Contents	Art. No. SDS-plus Insertion Shank	Art. No. SDS-max Insertion Shank	P. Qty.
Three point and three flat chisels, 250 mm long	648.850001	—	1
Three point and three flat chisels, 400 mm long	—	647.850001	

For breaking-through or breaking-up construction material



With innovative 3-zone tempering technology, additional breaking edges (power grooves) and hexagon design.

Shank end: Designed to be harder (approx. 52 HRC), which extends the service life considerably.

Buffer section: Not as hard (approx. 48 HRC). Thanks to its greater elasticity, this section effectively dampens any vibrations which arise, decisively minimizing the danger of breakage at the shank end.

Working range: Thanks to 60 HRC quality steel, its extremely hard and rugged.

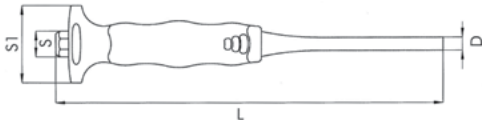
- Vibration absorption, which means minimized risk of breakage
- Up to 30% greater removal power
- Considerably longer service life
- Chisels remains sharp longer
- Minimized risk of sticking or damaging into materials as compared to round versions

Applications: For general breaking-up and breaking-through work (spiking, mortising, knocking out, pounding, breaking open, breaking out etc.)

Point chisel: For hard materials, e.g. concrete
All the impact energy of the hammer drill is concentrated at a point.

Flat chisel: For softer materials. Also for "marking" masonry to be knocked out

PIN PUNCH



2K plastic handle

Ergonomically shaped 2K handle

- Secure grip, effortless work

Vibration protection

- The handle dampens impact vibrations and oscillations

Impact protection

- Prevents injuries to the hand

Made from hardened tool steel

- Long service life

Length (mm)	S1 (mm)	S (mm)	D (mm)	Art. No.	P. Qty.
150	30	10	2	714.63252	1
			3	714.63253	
			4	714.63254	
			5	714.63255	
			6	714.63256	

PIN PUNCH ASSORTMENT



Art. No. 714.63259 5 pcs.

5-piece assortment with 2–6 mm

Ergonomically shaped 2K handle

- Secure grip, effortless work

Vibration protection

- The grip dampens impact vibrations and oscillations

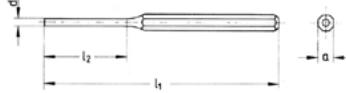
Impact protection

- Prevents injuries to the hand

Made from hardened tool steel

- Long service life

IMPACT TOOL PIN PUNCH



Chromium-vanadium air hardening steel

Tempered safety hammer heads

- Prevents hammer head from developing bulges or splintering

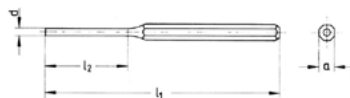
Full length of shaft hardened

- Particularly tough and wear-resistant as a result

According to DIN 6450, Type C

L1 (mm)	L2 (mm)	a (mm)	d (mm)	Weight (g)	Art. No.	P. Qty.
150	40	10	3	60	714.6327	1
	50		4	65	714.6328	
			5	70	714.6329	
		6	80	714.6330		
	12	8	115	714.6331		
		10	714.6332			

PIN PUNCH SET



Art. No. 714.6341 6 pcs.

6-piece set

Chromium-vanadium air hardening steel

Tempered safety hammer heads

- Prevents hammer head from developing bulges or splintering

Full length of shaft hardened

- Particularly tough and wear-resistant as a result

According to DIN 6450, Type C

Tempered hammer head

Contents: 6 pin punches, sizes 2, 3, 4, 5, 6, 8

L1 (mm)	L2 (mm)	a (mm)	d (mm)	Weight (g)	Art. No.	P. Qty.
150	30	10	2	60	714.6325	1
	40		3		714.6327	
	50		4	65	714.6328	
		5	70	714.6339		
		6	80	714.6330		
	12	8	714.6331			

VERNIER GAUGE



With locking screw

- Thread table on rear side
- Stainless steel
- Graduation chrome plated
- Measuring surfaces ground and lapped
- Complete with carrying case

Vernier Value		Meas. Range (mm)	Length of Jaw (mm)	Art. No.	P. Qty.
Lower	Upper				
0.05	1/128	0 - 150	40	715.7602	1

DIGITAL VERNIER CALIPER



Art. No. 715.7611 P. Qty: 1

- **Accuracy:** 0.02 mm/0.001 in (0-100 mm);
0.03 mm/0.001 in (>100-200 mm)
- **Repeatability:** 0.01 mm/0.005 in.
- **Maximum measuring speed:** 1.5 m/sec 60 in/sec.
- **Measuring system:** linear capacity measuring system.
- **Base measuring function:** inside, outside, depth, step measuring.
- **Display:** LCD display.
- **Power:** one battery 1.55V silver oxide SR44 (or alkalescence battery) capacity: 180 mAh.
- **Operating temperature:** 0-40 °C/41-104 °F.
- **Influence of humidity:** within 0-80 % of relative humidity.
- **Storage temperature:** -20 °C - +70 °C.



Recommended:

Replacement Battery **827.0813**

Measuring Range	
(mm)	(in.)
0 - 150	0 - 6

Directions:

- Keep body surface clean, prevent liquid material from getting into slider to damage electronics. Surface should be cleared by petrol and the body may be lubricated by a little clock oil. Acetone and alcohol should not be used. Don't remove the data interface lid when the interface is not used.
- Do not insert any conductive body into the interface to protect the electronics.

MEASURING TAPE



High-quality metric and standard tape measures with plastic housing, for easy measuring

Features:

- High quality plastic housing
- Shock absorber for a cushioned rewinding of the tape
- Automatic lock when pulling out the blade
- Extremely stable thanks to the curved tape
- Tape can be extended far before it folds up
- Yellow nylon coated steel tape

- Metric and standard
- Belt clip
- Conforms to EU accuracy Class II

Benefits:

- Low weight
- End hook for stop and tension measurement
- Not subject to corrosion
- Long service life

Description	Size	Art. No.	P. Qty
Measuring Tape	5 M (16 ft)	714.64575	1
	8 M (26 ft)	714.64578	

SET OF DRIFT PUNCHES



Art. No. 714.63240 6 pcs.

- Chrome-vanadium air-hardened steel
 - Tempered safety impact heads will not burr or split
 - Shaft all-hardened, making it extremely tough and durable
 - Tempered chisel head
- B = light type
D = heavy type
- Sturdy metal carrying case

* Available through Special Orders

Length (mm)	a mm	d mm	Weight (g)	Type	Art. No.	P. Qty.
120	10	2	65	B	713.6318	1
		3			713.6319	
		4			713.6320	
	12	5	95	D	714.6321	
		6			714.6322	
		8			714.6323	

NUMBER PUNCH SET



Art. No. 695.941615 P. Qty: 1

DIN 1451

- Superior quality, heat treated steel.
- Sharp characters ensure deep, clear impressions.
- They can mark steel up to a hardness of 50 Rockwell.
- 5 mm high figures.

SMALL SPIRIT LEVEL WITH MAGNET



Art. No. 714.644505 P. Qty: 1

Professional small spirit level with two magnetic surfaces

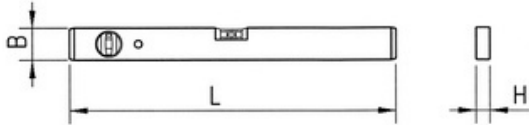
Features:

- Excellent readability and long service life
- Fluorescent level liquid, highly-resistant to UV radiation
- Milled measuring surface with strong magnets and V-shaped groove for strong hold on pipes, profiles etc.

Length	74 mm
Height	34 mm
Width	41 mm
Number of magnets	2 pieces
Measuring accuracy (per length)	1 mm/m
Measuring accuracy for overhead measurements (per length)	1 mm/m
Degrees measuring accuracy for overhead measurements	1 degree



COMPACT BOX LEVEL



Length (cm)	Height (mm)	Width (mm)	Art. No.	Description
30	20	50	714.644203	Light Metal Level 30cm
60			714.644206	Light Metal Level 60cm
100			714.644210	Light Metal Level 100cm
120			714.644212	Light Metal Level 120cm
200			714.644220	Light Metal Level 200cm

For excellent readability and long service life

- Stable rectangular profile with smooth lateral surfaces
- Acrylic glass level block with integrated, corrosion-free reading rings
- No discoloration of liquid, maximum precision with temperature fluctuations
- Florescent level liquid, highly resistant to UV radiation
- Very smooth surface, therefore easy to clean
- Red electrostatic powder coating
- High precision
- Robust light metal profile with milled measuring surface
- Non-Magnetic

LASER DISTANCE MEASURING UNIT WDM 3-12

Art. No. 570.9300508 P. Qty. 1



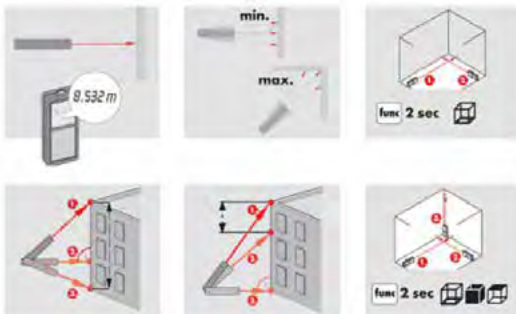
High-Precision Laser Distance Measuring Unit

Features:

- Accuracy ± 1.0 mm (1/32")
- Range 80 m (260ft)
- Large illuminated display for Excellent legibility
- Room dimensions function or room circumference
- Wall surface area and volume
- Extremely rugged
- Extra-thick housing components for Impact protection
- IP65 protection (dust-tight and protected against water jet)
- Enables measuring from slits and corners
- Tripod screw for tripod stand installation
- Protective pouch
- 2 x 1.5 V AAA batteries

Functions:

- Area calculation
- Wall surface area calculation
- Volume calculation
- Room dimensions
- Tracking (continuous measurement)
- Timer
- 10 Memory pre-sets



Technical Data (as per ISO 16331-1)	
Laser Class	Laser Class 2 in accordance with IEC 60825-1:2007
Laser Type	635 nm
Maximum Range	80 m (260ft)
Accuracy	± 1.0 mm (1/32")
Battery Life	Up to 5,000 measurements
Display	3-line LCD
Background Lighting	White LED
Power Supply	2 x 1.5 V AAA
Working Temperature	-10 to +50 °c
Weight	Instrument: 164 g (5.78 oz.)
Protection Class	IP 65
Dimensions	127 x 61 x 31 mm (5 x 2.4 x 1.22) inches

MAGNETIZER/DEMAGNETIZER



Art. No. 715.3495 P. Qty. 1

Suitable for the magnetizing and demagnetizing of steel tools

- Suitable for screwdrivers, pliers, scissors, metal blades, Allen keys, bits, tweezers and similar tools made of steel
- Durable
- Handy
- Pocket size: 50 x 50 x 30 mm

PRECISION FEELER GAUGES



- Conical gauge platelets
- Length: 100 mm
- Stored in plastic sheath

No. of blades	Blade thickness (mm)	Contents	Art. No.	P. Qty.
13	0.05 - 1.00	0.05/0.10/0.15/0.20/0.25/0.30/0.40... → 1.00	713.5141	1
20		0.05/0.10... → 1.00	713.5142	

HAMMER STAPLE TACKER



Robust professional tacker with ergonomic handle

Features:

- Balanced weight distribution
- Maximum impact force with Minimum force expenditure
- Slip-proof, ergonomic handle

- Wide impact face protects the material being stapled
- Rebounding head
- Ergonomic handle for fatigue-free operation
- Large magazine for 168 staples (2 full sticks)
- Easy cleaning (only 4 parts)

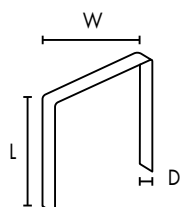
Magazine Capacity	Min/Max Staple Length	Staples	Art. No.
168 pcs	6 - 10 mm	480.140006/8/10	714.811
	10 - 14 mm	480.140010/12/14	714.854

STAPLES



Staples for Hand-Held & Hammers Staplers

Width	Length	Diameter	Material	Surface	Art. No.	P. Qty.
10.6 mm	6 mm	1.25 mm	Steel	Bare	480.140006	5000
	8 mm				480.140008	
	10 mm				480.140010	
	12 mm				480.140012	
	14 mm				480.140014	



HAND STAPLE GUNS



Art. No. 714.834

High-performance hand staple gun for staples with a maximum length of 14 mm.

- Long life.
- Adjustable impact force (max. and min.).
- Recoil-free.
- Large magazine for 84 staples.
- Fast loading.
- High degree of operating safety.

Application: Stapling soft onto hard materials, e. g. ceiling linings, insulating materials, plastic film, carpeting, upholstery covers etc. on all types of wood.

Suitable staples:

	Length mm	Art. No.	P. Qty.
	6	480.140006	5000
	8	480.140008	
	10	480.140010	
	12	480.140012	
14	480.140014		

Magazine Capacity	84 staples
Staple Length	6 (1/4") to 14 mm (9/16")
Staples	Art. No. 480.140...
Weight	820 g



Art. No. 714.854

The hand staple gun with a high impact force for thinner materials.

- Long life.
- Convenient handling.
- Recoil-free.
- Large magazine for approx. 156 staples.
- Easy loading.
- High degree of operating safety.

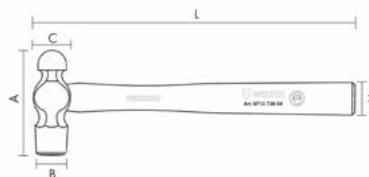
Application: Stapling of fabrics, pasteboard, plastic, leather, sealing strips etc.

Suitable staples:

	Length mm	Art. No.	P. Qty.
	6	480.153006	5000
8	480.153008		

Magazine Capacity	Approx. 156 staples
Staple Length	6 (1/4") to 10 mm (3/8")
Staples	Art. No. 480.153...
Weight	310 g

BALL PEEN HAMMER



With hickory handle.

- Full polished head
- Standard: ASME B107.53

Weight (Head)	A (mm)	B (mm)	C (mm)	L (mm)	H (mm)	Art. No.	P. Qty.
24 oz / 680 g	116	34	42	360	36 x 30	715.73824	1
16 oz / 454 g						715.73816	

CLAW HAMMER



Features:

- Heavy duty claw hammer with 2-component grip.
- Rim temper reduces incidences of chipping or spalling.
- Forged, one-piece steel construction for strength and durability.
- Slip-resistant, 2-component handle for a secure grip and comfort.

Handle Material	Length (mm)	Weight (g)	Weight (oz)	Art. No.	P. Qty.
2K rubber handle	330	454	16	715.733116	1

SIMPLEX SOFT FACE HAMMER



2-in-1 face hammer.

Features:

- High quality steel housing
- Impact inserts and handle rapidly replaceable due to wear and tear and enables individual adaptations to different work pieces
- Inserts and shaft are firmly secured for added safety
- For use in numerous application without damaging work piece
- Made in Germany
- Inserts: Black rubber composition and red plastic

Applications:

Assembly and repair work in the automotive and truck sector, dent removal, maintenance work, scaffolding, wheel removal, tent construction, prefabricated-house construction, carpenter's work, roof work etc

Material	Handle Material	Handle Length (mm)	Length (mm)	Weight (g)	Art. No.	P. Qty.
Steel	Wood	312	365	1130	715.7220	1



Art. No. 715.7224 - P. Qty. 1

Black Rubber Insert

- Composite rubber, black
- Medium hard
- Impact cushioning
- Odorless
- Low-wear



Art. No. 715.7223 - P. Qty. 1

Red Plastic Insert

- Plastic, red
- Hard
- Oil and grease resistant
- Universal

REPLACEABLE INSERTS ONLY AVAILABLE THROUGH SPECIAL ORDER.

MACHINIST'S HAMMER WITH PLASTIC HANDLE



Robust 3K hammer handle for use in the toughest conditions

Features:

- Vibration-free working and highly robust hammer
- Aluminium alloy handle core
- Polyamide component is permanently bonded to hammer head
- Additional safety device with steel wedge
- Non-slip for ease of use
- Soft handle in non-slip, thermoplastic rubber

Hammer weight (g)	Length (mm)	Art. No.	P. Qty.
300	287	714.732403	1
500	316	714.732405	
1000	360	714.732410	

ROOFING HAMMER



Hammer weight: 600 g

Art. No. 714.733030 P. Qty. 1

Professional roofer's hammer for the most demanding applications

Features:

- High power transmission and long service life thanks to chromium-steel tube handle
- Precision-ground hammer head
- High-quality claw manufacture makes it possible to pull out small and large nails
- Cross-roughened strip prevents slipping upon impact
- With magnetic nail holder

CLUB HAMMER



Robust 3K handle for use in the toughest conditions

Features:

- Sturdy and easy to handle under high-stress conditions
- German type in line with DIN 6475

Hammer weight (g)	Length (mm)	Art. No.	P. Qty.
1000	260	714.734510	1
1500	280	714.734515	
2000	300	714.734520	

RUBBER MALLET TYPE A



DIN 5128

Features:

- Both hammer faces flat
- Varnished ash handle

Diameter (mm)	Length of head (mm)	Length of handle (mm)	Art. No.	P. Qty.
65	115	340	715.73408	1
90	135	380	715.734009	

SLEDGEHAMMER



German type in line with DIN 1042, with ash handle

- Material: Steel
- Material of the handle: Wood

Hammer weight (g)	Length of handle (mm)	Art. No.	P. Qty.
3000	600	715.732300	1
4000	700	715.732400	
5000	800	715.732500	
6000	-	715.732600	

RALI® PLANE 220



Art. No. 714.6416 - P. Qty. 1

For smoothing and shaving of wood material.

Features & Benefits:

- Replacement blade magazine
- No sharpening or whetting of plane iron thanks to reversible blades
- Wear-resistant metal plane base
- Impact-resistant, manageable plastic housing
- Adjustable plane mouth
- No adjustment work on plane iron thanks to continuously adjustable chip removal



REPLACEMENT BLADES FOR 714.6416 & 714.6417		
Description	Art. No.	P. Qty.
Carbide reversible blade	714.6418	1
Reversible blade, chromium steel	714.6419	

RALI® PLANE 105

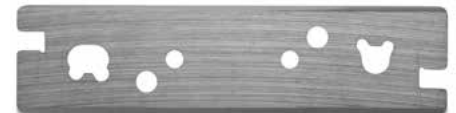


Art. No. 714.6417 - P. Qty. 1

For smoothing and shaving of wood material.

Features & Benefits:

- No sharpening or whetting of plane iron thanks to reversible blades
- Wear-resistant metal plane base
- Impact-resistant, manageable plastic housing
- Adjustable plane mouth
- No adjustment work on plane iron thanks to continuously adjustable chip removal



REPLACEMENT BLADES FOR 714.6416 & 714.6417		
Description	Art. No.	P. Qty.
Carbide reversible blade	714.6418	1
Reversible blade, chromium steel	714.6419	

CHAMFER PLANE



Art. No. 714.6415 - P. Qty. 1

For clean cutting of overhanging edge band.

Features & Benefits:

- Includes blade, additional 45° and 30° jaws and stop.
- 30° or 45° chamfers can be cut using the additional jaws.
- Chamfer thickness is adjusted by changing the spacing of the additional jaws.



REPLACEMENT BLADES FOR 714.6415		
Description	Art. No.	P. Qty.
HSS blade	714.6421	1

ONE-HANDED CLAMP

Clamp, open and spread with just one hand

Clamp workpieces more securely

- 150 kg clamping force
- Deep jaws with cross slot

Excellent, comfortable handle design

- Spray-moulded 2K handle
- No need to reposition your hands, e.g. to open the clamp
- Clamping force is easy to release

Spreading function for increased versatility

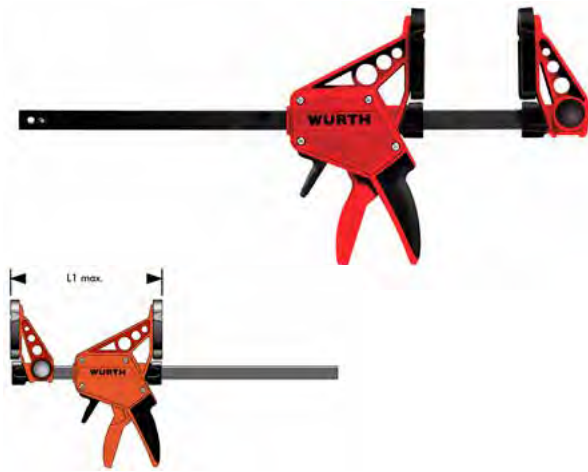
- Easy conversion with quick, push-button adjustment

Fixed and sliding bars made of fibreglass-reinforced plastic

- Highly robust for a long service life

Spacer function for increased convenience

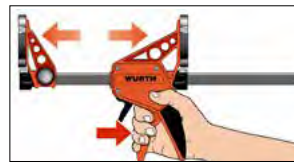
- Clamp can be used on a table



"Clamping" mode



Conversion to spreading



"Spreading" mode



One-handed opening

Max. external clamping width (mm)	Overhang (mm)	Profile thickness (mm)	L1 max. (mm)	Art. No.	P. Qty.
150	100	6	410	714.662150	1
300			560	714.662300	
450			710	714.662450	
700			960	714.662700	

SCREW CLAMP, MALLEABLE CAST IRON

Flexible 2K handle

Features:

- Ergonomically engineered design
- Soft casing sits comfortably in the hand for heavy-duty requirements
- Smooth, seamless cap
- Integrated slip guard: Prevents the clamp slipping or loosening
- Wave-reinforced fixed and sliding bars in high-quality malleable cast iron, powder coated
- High-quality hollow profile track for reinforcement against torsion forces with 6-fold ribbing



Max. external clamping width (mm)	Overhang (mm)	Profile width (mm)	Profile thickness (mm)	Art. No.	P. Qty.
160	80	25	6	714.673116	1
200	100	27	7	714.673120	
250	120	29	9	714.673125	
300				714.673130	
600				714.673160	
800				714.673180	

SINGLE HAND SUCTION HANDLE



Art. No. 715.5801 P. Qty. 1

- Weight: 320 g
- Diameter suction handle: 130 mm
- Load capacity: approx. 30 kg
- Power direction of the suction disc: vertical

SUCTION LIFTER



Art. No. 715.58015 P. Qty. 1

One-hand suction with quick release button

Fast and efficient working

- Thanks to a one-hand operation and quick suction

Also suitable for sensitive glass panes

- Because of the low vacuum volume, thin glass panes can also be held/transported without being damaged

For holding/transporting smaller objects

- Because of smaller diameter of suction head
- Lifts up to 8kg

VACUUM LIFTER



Art. No. 714.58045 P. Qty. 1

With vacuum pump and vacuum indicator in practical storage case

Features:

- High load capacity and safety reserves
- Easy to carry thanks to padded, non-slip handle
- Ergonomic holding area thanks to large reach-through height
- Diameter: 210 mm
- Load capacity: 120 kg



WINDOW INSTALLATION TOOL SET



Art. No. 715.67120 2 pcs.

For the fast and simple assembly of windows and doors

Features:

- Rotating the handle pushes the two metal plates against one another, allowing the windows to be adjusted and braced very precisely during installation
- The smooth surface of the metal plates means the window can still be aligned after bracing
- Handle made from 2K plastic
- Flexible shank between handle and metal plates
- Can be used even in tight spaces

Min. / Max. spreading height	10-21 mm
Length	360 mm
Spreading range	21 mm

PANEL GRIP



Art. No. 715.6745 Qty. 2

Panel grip for transporting and lifting panels and boards easily

Features:

- Clamping jaws made from high-quality plastic with a vulcanised rubber coating, for an extremely secure grip and a long service life.
- Clear rubber coating prevents colour from the jaw marking the workpiece.
- Ergonomically designed handles
- Fork shape means clamping jaws can be pushed into the part to be lifted from either the side or the front.

Min. / Max. clamping width	0-60 mm
Max. loading weight	120 kg
Length	240 mm
Height	170 mm
Width	150 mm

GLASS GRIP



Art. No. 715.6746 Qty. 2

Glass grip for transporting and lifting windows and panels easily

Features:

- Extremely secure grip and long service life owing to clamping jaws made from high-quality plastic with vulcanised rubber coating
- Clear rubber coating prevents colour from the jaw marking the workpiece
- Ergonomically designed handle
- Fork shape means clamping jaws can be pushed into the part to be lifted from either the side or the front.

Min. / Max. clamping width	40-100 mm
Max. loading weight	120 kg
Length	240 mm
Height	170 mm
Width	235 mm

PANEL POPPER SET



Art. No. 714.58245 Qty. 12

Made from glass-fiber reinforced plastic, these tools are designed to help with the safe and easy removal of door trim panels, trim fasteners, body clips, mouldings etc.

- Designed and manufactured from high quality materials ensuring surrounding trim areas are not damaged when trim is being removed
- Fits a comprehensive set of applications ranging from internal door trims, facia and most other internal & external vehicle trims
- The panel popper kit works with European, Japanese and Domestic trim applications and is not vehicle specific
- Set of 12 assorted Panel Poppers, supplied in a convenient roll-up pouch

Applications:



BODY CLIP REMOVAL PLIERS



Art. No. 714.500

- For easy removal of mouldings and bumper rubber strips.
- Does not damage the door lining.
- Blade Opening: 11 mm.

AMO BAG AIR WEDGE

Art. No. 715.6780 P. Qty. 1

Fibre reinforced plastic bag with high load-bearing capacity (100 kg)

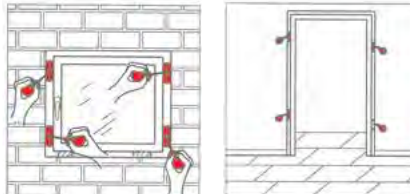


- Easy to inflate/release system by small pump and release valve
- Prevents costly locksmith charges
- Use for prying objects apart (windshields, headlights, etc.)
- Allows one person to complete a job that normally requires two persons
- Avoid scratches on the surfaces
- Handy, strong and durable
- Reusable

Automotive applications:

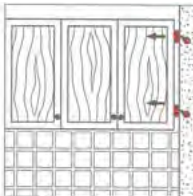
- Opening of car or truck doors (i.e. if you accidentally forget the keys inside)
- Removing of windshield or sealed windows on cars, trucks, caravans, boats, etc.
- Substitution of headlights, bumpers, etc.

General applications:



Installation of windows and doors

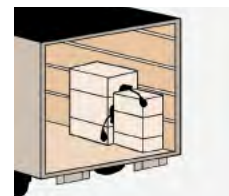
Note: The air wedge is not puncture resistant!



Positioning cabinets



Lifting doors



Protection of shipments



PREMIUM HAND HELD RIVETER



Additional tools:

Mouth piece, 4.0mm blind rivet, **Art. No.**

P. Qty: 1

Mouth piece, 4.8mm blind rivet, **Art. No. 915.150**

P. Qty: 1

Replacement clamping jaws, **Art. No. 946.10**

P. Qty: 1

Art. No. 915.11

Universal, hand-held steel riveting pliers with exchangeable mouth pieces for the installation of commercial rivets made of aluminum, copper, steel and stainless steel.

Features:

- Diameters of 4.0mm and 4.8mm
- Requires low exertion of force in case of short lever distance
- Particularly well-suited for hollow profiles

Technical data

Length, mouthpiece mounting (including mouthpiece)	52mm
Diameter, mouthpiece mounting	19mm

HEAVY DUTY RIVET GUN



Art. No. 949.120

For blind rivets

Features:

- Nose: 1/8" - 1/4"

Recommended:

Use with **Art. No. 502.11620, 502.11621, 502.12653** and Prefixes **932 & 945**

RIVET GUN FOR PEEL TYPE RIVETS



Additional tools:

Nose piece for 1/4" 'Peel Type' rivets, **Art. No. 949.1311853**



Art. No. 949.13

For setting 3/16" and 1/4" rivets.

Recommended:

Use with **Art. No. 502.11620, 502.11621, 502.12653** and Prefixes **932 & 945**

Additional tools:

Replacement jaws, **Art. No. 949.1314799**



RIVET GUN FOR PLASTIC AND NYLON RIVETS



Art. No. 949.2

A durable tool that sets all sizes with a single stroke.

Features:

- All steel construction.
- 6-1/2" overall length.

Note: Not for use with metal rivets.

HAND-HELD RIVET SET ASSORTMENT



Art. No. 5964.094803 16 pc Kit

Hand-held rivet setting pliers with quick-change system for processing blind rivet nuts and M4–M12 bolts.

- Requires less force compared to manual setting pliers
- Quick-change system for mandrels and sleeves
- Clear stroke scale
- Easy to use in hard to reach areas
- Colour coding system for nozzles
- 16 pieces in a durable case

For processing:

- Blind rivet nuts M4 to M12 aluminium/

steel/stainless steel

- Blind rivet studs M5/M6/M8 aluminium/steel/stainless steel

Approved Tool for Land Rover/Jaguar

All items in kit available only through special order

Min./max. diameter of rivet-nut thread4mm-12 mm

Min./max. rivet diameter.....

2.4mm-6.4 mmw

HAND RIVET GUN HNG26

30%
lighter than
original model!



Redesigned
Body and Pin Catcher

Improved
Handles and Grips



Art. No. 949.610

Hand-held riveter for blind rivets with 3.0-6.4 mm diameter

- For installing blind rivet with 3.0–6.4 mm dia. in all materials
- Colour indicated nose pieces
- With pin catch container
- Lightweight aluminum arms
- Integrated body design for increased safety
- High quality ABS tool case in foam inlay



Recommended:

for use with Honda rivets 6.4mm

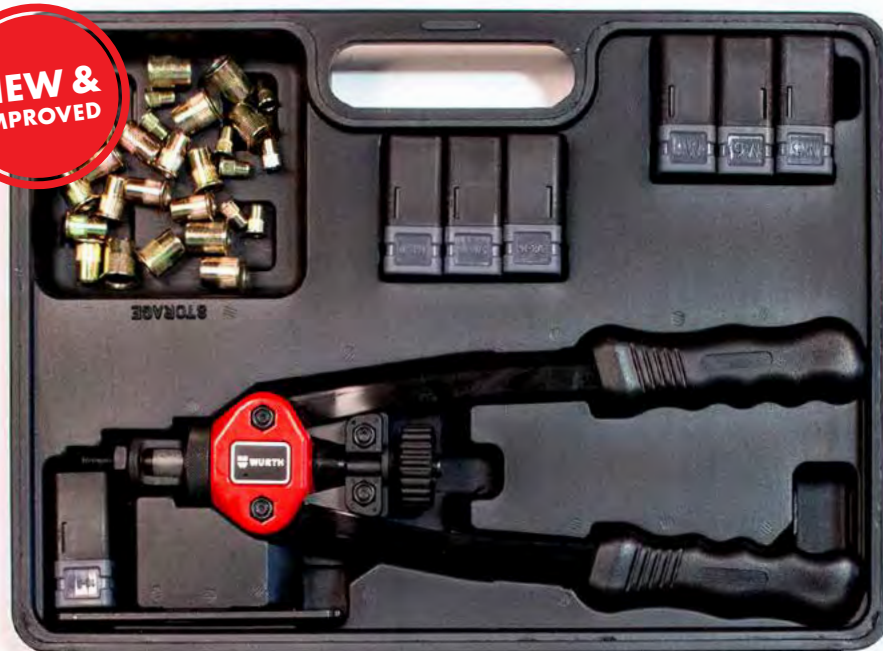
Contents	Art. No.	P. Qty.
Mouthpiece for rivet sleeves with 3.0–3.2 mm dia. Hole dia. of mouthpiece: 2.3 mm	946.5632	1
Mouthpiece for rivet sleeves with 4.0 mm dia. Hole dia. of mouthpiece: 2.8 mm	946.5640	
Mouthpiece for rivet sleeves with 4.8–5.0 mm dia. Hole dia. of mouthpiece: 3.2 mm	946.5650	
Mouthpiece for rivet sleeves with 6.0 mm dia. Hole dia. of mouthpiece: 3.7 mm	946.5660	
Mouthpiece for rivet sleeves with 6.4 mm dia. Hole dia. of mouthpiece: 4.6 mm	946.5680	
Metal carrying case, black	-	
Universal key	-	

*Clamping Jaw replacement HNG26 – Art. No. 946.56

*Articles in red are special orders only

STANDARD & METRIC MANUAL RIVNUT SETTER ASSORTMENT

NEW & IMPROVED



Art. No. 948.800600

13" nut/thread setting hand rivnut kit with 3 Metric and 4 SAE nosepieces and rivnut assortment

This 13" Rivetnut Gun is equipped with a quick change head assembly that easily allows the operator to change between mandrels without the use of tools. Installs Metric M5, M6, M8 and SAE 10-24, 1/4 20, 5/16-18, 3/8-16 rivet nuts.

- Features:**
- Patented structure increases power and reduces shock
 - Shorter handle with double compound hinges that maximize leverage
 - Versatile and powerful hand nut/thread setting riveter, takes the hard work out of setting rivet nuts
 - Ideal for working in hard-to-reach area
 - Ergonomic grip for easy operation

- Included:**
- 13"(330mm) Hand Nut/Thread Setting Riveter
 - 7 interchangeable mandrel/nosepiece sets in Metric M5-0.8, M6-1.0, & M8-1.25 and in SAE 10-24, 1/4-20, 5/16-18, and 3/8-16
 - 10 pieces of each of the following rivet nuts: M5-0.8, M6-1.0, M8-1.25, 10-24, 1/4-20, 5/16-18, and 3/8-16

THIS PRODUCT IS REPLACING RIVNUT KIT 948.8005 WHICH IS NOW DISCONTINUED. ALL NOSE PIECES & MANDRELS OF ALL PREVIOUS MODELS ARE NOT COMPATIBLE WITH THIS NEW MODEL OR VICE VERSA.

METRIC SIZE		RIVNUT		MANDREL		NOSE PIECE	
Nut Size	Drill Size	Art. No.	P. Qty.	Art. No.	P. Qty.	Art. No.	P. Qty.
M5	7 mm (9/32")	942.350005	10	948.800630	1	948.800631	1
M6	9mm (3/8")	942.350006		948.800628		948.800629	
M8	11mm (7/16")	942.350008		948.800638		948.800639	

SAE SIZE		RIVNUT		MANDREL		NOSE PIECE	
Nut Size	Drill Size	Art. No.	P. Qty.	Art. No.	P. Qty.	Art. No.	P. Qty.
10 - 24	7 mm (9/32")	942.350010	10	948.800634	1	948.800635	1
1/4 - 20	9mm (3/8")	942.350014		948.800632		948.800633	
5/16 - 18	11mm (7/16")	942.350016		948.800626		948.800627	
3/8 - 16	13mm (17/32")	942.350038		948.800636		948.800637	



RIVNUTS



NOSE PIECES & MANDRELS

MAIN BODY FOR RIVNUT GUN
Art. No. 948.800601

*All other spares only available through special orders

BELT SANDER PNEUMATIC 1/2 "X18"



Art. No. 703.2712 - P. Qty. 1

Belt sander for removing Spot Welds and rough edges on auto body applications.

Features:

- Variable speed control
- Belt tension lever
- Non-slip handle grip
- Adequate space in the pulley system to allow for thicker belts

Technical Specifications	
Free Speed	16,000 rpm
Size of Belt	1/2 " X 18 "
Air Consumption	4 cfm
Overall Length	15.15" (385mm)
Net Weight	1.98 lbs (0.9Kg)
Air Inlet	1/4"
Air Pressure	90 psi

Art. No. 703.271201 *NEW*



Idle Pull Assembly for 703.2712

NOTE: All other spare parts and accessory can be purchased through special orders.



Recommended Belts:

Prefix: 672.419...

PNEUMATIC JIGSAW DST 380 STANDARD



Art. No. 703.883 - P. Qty. 1

Robust saw for long service life and tough applications

Features:

- Safety valve lever prevents accidental switch on
- Rubber-coated handle area for pleasant working conditions
- Saw blade can be turned 180° for working overhead
- Integrated power control for respective application
- Adjustable guide enables exact adjustment of cutting depth
- Ideal for cutting aluminum, plastic, fiberglass (max. 4 mm) and metal sheets up to 1.6 mm

Technical Information	
Idle Stroke Speed	9000 U/min(rpm)
Air Consumption	113 l/min
Length	235 mm
Working Pressure	90 psi
Min. Hose Diam.	10mm
weight	0.5kg



REPLACEMENT BLADES

Prefix: 696.

ALWAYS FOLLOW SAFETY INSTRUCTIONS WHEN USED REGULARLY, THE MACHINE SHOULD BE OILED EVERY DAY.

COMPRESSED AIR BRUSH GRINDER

Art. No. 703.3600 - Qty. 1



Time saving system for removal of under body protection, sealing compounds, paint, rust and film. Particularly well suited for cleaning weld beads during repair work, paint and rust removal for all bodywork areas, as well as removal of protective paint from repair panels.

Features:

- Flexible belts with high performance polyamide fabric backing and U-shaped spring steel wires adapt well to edges and contours.
- High quality components.
- Excellent speed control by means of sensitive trigger.
- Compact, slim design for access to difficult areas.
- Auxiliary handle equally suited for right or left-handed work.
- Air exhaust exits to the rear.

Your advantages:

- No heating up of treated areas.
- No smearing or loading of the tool.
- Longer service life of the brushes.
- Significantly faster work progress.
- Versatile application possibilities due to various brush types.
- Very light and handy tool.

Brush Applications



SS DBS Brush

23 mm: Art. No. 703.3504 - Qty. 1
11 mm: Art. No. 703.35041 - Qty. 1

SS DBS Brush

Perfectly suited for removing paint and corrosion on aluminum bodies, boats and superstructures. These belts are especially well suited in riveted areas on truck bodies.

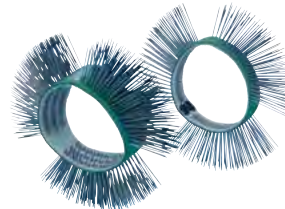


Coarse Brush

23 mm: Art. No. 703.3501 - Qty. 1
11 mm: Art. No. 703.35051 - Qty. 1

Coarse Brushes

Use for: removal of under body protection and sealing compounds as well as rapid paint removal. Especially well-suited for cleaning weld beads, contours and edges. Creates sand blasting type finish, provides good adhesion for tin-plating and fillers.



Fine Brush

23 mm: Art. No. 703.3503 - Qty. 1
11 mm: Art. No. 703.35031 - Qty. 1

Fine Brushes

Use for: rust removal and cleaning, removal of seals from grey casting. Not suitable for aluminum and aluminum die casting. Also used for paint removal in contours and sharp-edged areas with 90° angles. Does not create sand blasting finish.



Nylon Abrasive Wheel

Art. No. 585.1100 - Qty. 1

Nylon Abrasive Wheel

Use for: cleaning of weld seams, metal surfaces, wood and plastics. Removal of blooming discoloration, cinder, rust, corrosion, dirt and oxide layers, coatings, paint, synthetic resins, adhesives, gasket residue, cement, concrete residue. Preparing and roughing of surfaces.



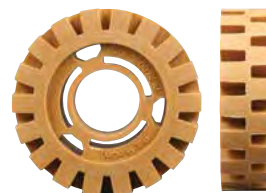
DBS Adaptor - 23mm
Art. No. 703.3602 - Qty. 1

For use with: Art. No. 703.3501, 703.3503, 585.96, 585.91



DBS Adaptor - 11mm
Art. No. 703.36021 - Qty. 1

For use with: Art. No. 703.35051, 703.35031



Rubber Eraser Wheel

For water-based paints: Art. No. 585.96 - Qty. 1
For general use: Art. No. 585.91 - Qty. 1

Rubber Wheels

Use for: removal of adhesive film, decals and glue residue from metal and paintwork. Twice the contact surface compared to a conventional film remover. This, and the higher speed, results in significantly quicker removal of material.

DBS 3600 ACCESSORIES



Art. No. 703.3601

Contents:

Description	Art. No.	Qty.
DBS Brush Grinder	703.3600	1
Coarse Brush (23 mm)	703.3501	1
Coarse Brush (11 mm)	703.35051	1
Fine Brush (23 mm)	703.3503	1
Fine Brush (11 mm)	703.35031	1
Nylon Fibre Grinding Disc	585.1100	2
Rubber Eraser Wheel	585.91	1
Adaptor (23 mm)	703.3602	1
Adaptor (11 mm)	703.36021	1

DBS 3600 REPLACEMENT PARTS

For tools purchased after May 2010

Photo	Description	Art. No.	P. Qty.
	Toothed Drive Belt for new DBS 3600 Schematic Picture #34	709.360034	1
	Toothed Pulley - Spindle Assembly Schematic Picture #49	709.360049	1

Photo	Description	Art. No.	P. Qty.
	Bevel gear set Schematic #31 & 32	703.350032	2
	Left-hand Bevel Gear for Motor with grooved shaft Schematic Picture #30	709.360030	1

Note: A complete exploded view of the parts is available on Wurthnet\ Technical Information. Additional replacement parts are available through Special Orders

PINSTRIP REMOVAL TOOL

Art. No. 703.1208



Specialty tool developed for the removal of pinstripes, adhesive, double faced tape and molding.

- Geared at 4,000 rpm.
- Lightweight - reduces operator fatigue.
- Spanner wrenches included for easy removal of pad.

Specifications:

- Disc capacity: 3-1/2"
- Overall length: 7-3/4" (197 mm).
- Air inlet thread NPT: 1/4".
- Air hose I.D. size: 3/8" (10 mm).
- Air pressure: 90-120 psi.

1/4" MEDIUM DIE GRINDER



Art. No. 703.210 - Qty. 1

Features:

- Positive Grip - 1/4" capacity collet chuck.
- Compact and lightweight design.
- Lever throttle for variable speed control.
- Rib textured handle provides a firm grip.
- Rear exhaust air flow system directs air away from work surface.

Specifications:

- Collet size: 1/4".
- Free speed: 22,000 rpm.
- Overall length: 5-3/4"/146 mm.
- Net weight: 1-1/4 lbs/.6 kg.
- Motor: 1/2 hp.
- Air inlet thread NPT: 1/4".
- Air hose I.D. size: 3/8"/10 mm.
- Avg. air consumption.: 4 cfm.
- Air pressure: 90-120 psi.

1/4" 90° DIE GRINDER



Art. No. 703.00875

Features:

- Positive Grip - 1/4" capacity collet chuck.
- Lever throttle for variable speed control.
- Compact and lightweight design.
- Front exhaust.

Specifications:

- Collet size: 1/4".
- Free speed: 20,000 rpm.
- Overall length: 5"/127 mm.
- Net weight: 1 lbs/.45 kg.
- Motor: 1/3 hp.
- Air inlet thread NPT: 1/4".
- Air hose I.D. size: 3/8"/10 mm.
- Avg. air consumption.: 3 cfm.
- Air pressure: 90-120 psi.

1/8" PENCIL TYPE DIE GRINDER



Art. No. 703.218

Features:

- Ideal for tight spots.
- Designed for high speed porting and finishing of small parts.

Specifications:

- Collet size: 1/8".
- Free speed: 56,000 rpm.
- Overall length: 5-1/4"/133 mm.
- Net weight: 1/4 lbs./.11 kg.
- Air inlet thread NPT: 1/4".
- Air hose I.D. size: 3/8"/10 mm.
- Avg. air consumption.: 4 cfm.
- Air pressure: 90-120 psi.
- Hose length: 5'.

6" HEAVY DUTY ORBITAL SANDER



Technical Information	
Item	Description
Pad size	6"
Free speed	10,000 rpm
Overall length	7" (17.78 cm)
Net weight	1.5 lbs (.68 kg)
Spindle thread size	5/16" x 24
Air inlet thread NPT	1/4"
Air hose I.D. size	3/8" (10 mm)
Avg. air consumption	5.5 cfm
Air pressure	90 psi
Stroke finish	3/32" (2.5 mm)

Art. No. 703.307

Features & Benefits:

- Sealed bearings for extended life
- Super lightweight and compact for minimum operator fatigue
- Orbital action for final swirl-free finish
- Noise reduction design
- Low vibration
- Built-in speed regulator
- Comes with 6" PSA pad

PNEUMATIC ANGLE GRINDER DWS 115



Art. No. 703.000854

- For cutting or grinding discs from 1/16"-1/4" thick with a 7/8" bore.
- Light-weight ergonomically designed aluminum housing.
- Powerful 450-watt motor, mated to helical bevel gears, reduces vibration and provides a long reliable operating life.
- Safety switch prevents accidental use.
- Load resistant speed control stabilizes speed and reduces air consumption.
- Spindle thread M14 x 2

Specifications:

- Discs: 115 mm.
- Speed: 12,000 rpm.
- Avg. operating pressure: 63 psi.
- Weight: 1.7 kg.
- Length: 229 mm.
- Avg. air consumption: 284 ion 1/min.
- Connection thread: R 1/4"

3/8" REVERSIBLE AIR DRILL



Art. No. 703.15027

Features:

- 1,800 rpm.
- Lightweight compact size and is easy to handle.
- Reversible control lever for convenient, one-handed operation.
- Handle exhaust directs air away from work.
- Built-in muffler for noise reduction.
- Planetary gear system for long life.

Specifications:

- Chuck capacity: 3/8".
- Free speed: 1,800 rpm.
- Overall length: 8"/203.2 mm.
- Net weight: 3 lbs/1.38 kg.
- Air inlet thread NPT: 1/4".
- Air hose I.D. size: 3/8"/10 mm.
- Avg. air consumption.: 17 cfm.
- Air pressure: 90-150 psi

VARIO DRILL VD90



Art. No. 703.090

For quick and easy detachment of spot welds.

- The 360°-rotatable contact arm prevents slipping and ensures easy working, even in hard-to-reach places
- The contact arm can be mounted quickly and without additional tools.
- The cutting depth is continuously adjustable and is not affected by the contact arm
- Use only original HSCO spot weld cutters
- 1-year warranty

Technical Data	
Speed	1,300 rpm
Air Pressure	6 - 8 bar
Weight	1,800 g
Air Consump	250 L/min

Contents 703.090	Art. No.	P. Qty.
Vario Drill VD90	—	1
Allen Wrench, size 2 mm	—	1
HSCO Spot Weld Cutter, 6 mm dia.	710.60	1
HSCO Spot Weld Cutter, 8 mm dia.	710.80	3
HSCO Spot Weld Cutter, 9 mm dia.	710.90	1

Available Accessories:

**Available through special orders only*



Allen Counter Bearing for Cutter
Art. No. 0703 090 001



Cutter Securing Screw
Art. No. 0703 090 002



Sound Absorber (on handle)
Art. No. 0703 090 003

1/2" IMPACT WRENCH



Art. No. 703.7360

Reliable, powerful impact wrench with fast torque build-up

Rugged and well balanced unit featuring an aluminum housing

- Long service life and optimum center of gravity.

Rubber coated and ergonomically shaped handle, user friendly, clockwise/counterclockwise switching and adjustable trigger

- The handle temperature remains comfortable during work.
- The device is very handy and user-friendly.

High quality pin impact mechanism in oil tank with six vane motor

- Increased service life thanks to constant lubrication.
- Nearly vibration - free.

1 year warranty

- On manufacturing and material defects

Recommended:

1/2" Impact sockets with magnet (set of 3)

Art. No. 713.13030



Technical data	
Type	DSS 1/2" H
Square drive	1/2"
Working torque	70 - 470 Nm / 52 - 346 ft. lbs
Maximum loosening torque	569 Nm / 420 ft. lbs
Average operating pressure	6.3 bar / 90 psi
Weight	2.3 kg
Dimensions (L x W x H)	195 mm x 64 mm x 202 mm
Average air consumption	102 l/min
Connection thread	1/4"
Minimum hose diameter	8 mm
Sound pressure level =	92 db(A)

*The working torque is the torque usually achieved under average working conditions. It depends on the highly varying ambient conditions (air pressure, hose diameter, soiling etc.).

Accessories		
Designation	Art. No	P. Qty.
1/2" Impact Socket Set	714.13030	3 pieces

*When used regularly, the machine should be lightly oiled via the compressed-air supply every day. The use of a mist oiler is recommended.

1/2" IMPACT SOCKET SET



For gentle installation of light metal rims. Long design with color coding system.

Plastic sleeve

- No more damage possible to paint on the aluminum rims.

With plastic stop on the inside of the socket wrench insert.

- For protecting edges and surfaces on chrome plated wheel bolts.

Plastic sleeve with color coding system.

- Simplifies identification of the size, thereby reducing loss of work time.

Note: Use with 1/2" Impact Wrench Gun **Art. No. 703.7360**

Set	Dia. mm	Art. No.	P. Qty
3 Piece	17 mm 19 mm 21 mm	714.13030	1

PNEUMATIC IMPACT WRENCH



Art. No. 703.7750

Extremely rugged and powerful impact wrench with quick torque buildup.

Ideal for tough applications, e.g. service work on trucks and buses, construction and agricultural equipment and industrial maintenance and repair work.

Well-balanced device in rugged aluminum housing.

Long service life and optimum center of gravity.

Rubber-coated and ergonomically-shaped handle, 360°-rotatable additional handle, user-friendly clockwise/ counterclockwise switching and adjustable trigger.

The handle does not become cool during work.

The device is very handy and user friendly.

High-quality, high-performance pin impact mechanism in oil tank with six-vane motor.

Increased service life thanks to constant lubrication.

Nearly vibration-free.

1-year warranty.

On manufacturing and material defects.

Technical Data												
Type	Square drive	Working torque*	Max. loosening torque	Avg. operating pressure in bar	Weight in kg	Dimensions (L x W x H) in mm	Avg. air consumption in L/min.	Connection thread in inches	Minimum hose dia. in mm	Sound pressure level in dB (A)	Art. No.	P. Qty
DSS 1" P	1"	996-1,870 Nm 734-1380 ft. lb.	2440 Nm 1,800 ft. lb.	6.3	10.93	305 x 104 x 276	370	1/2"	11	95	703.7750	1

* The working torque is the torque usually reached under average working conditions. It is dependent on the highly variable ambient conditions (air pressure, hose diameter, soiling etc.).



360°-rotatable additional handle



Through-hole for locking pin in 1" square



Ergonomic, rubber-coated handle and 360°-rotatable air intake



The clockwise/ counterclockwise switching and the four tightening torque levels enable optimum adaptation to the respective application.



360°-rotatable air outlet on the top of the pneumatic impact wrench. The exhaust air can be expelled in the desired direction.

Note: For better performance and longer tool life, we recommend the daily use of Würth Pneumatic Tool Oil (1L), **Art. No. 893.0505**.

Level	Tightening torque in Nm, approx.
1	895
2	1,287
3	1,355
4	1,694

WHEEL NUT LOOSENER - CARGO NUT BUSTER



Art. No. 714.15000

- Bust Loose the most stubborn wheel nuts
- Use on Commercial or Agricultural Wheels
- Gear Ratio - 58:1
- Rated Output Torque - 2950 ft lbs
- Two Sockets Included 1 1/2"(38mm) & 1 5/16"(33mm)
- 1" drive

Contents



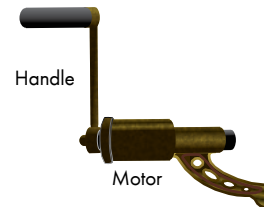
Blow Molded Case



Sockets

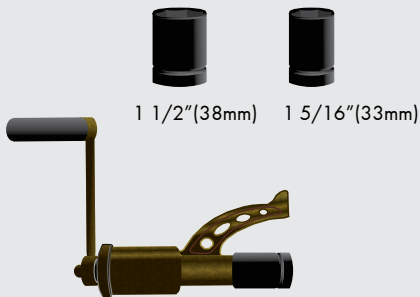


1.1 Connection Rod

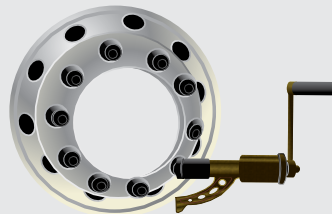


Main Body

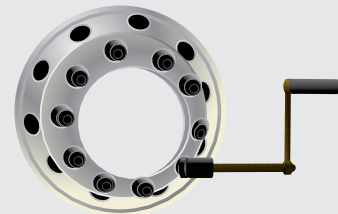
Instructions



Fix suitable socket onto front square tenon of main body



Fix socket onto the nut/bolt and loosen the nut/bolt one or two rotations



Change socket and handle over to 1:1 Connecting Rod to completely remove the nut/ bolt

WHEEL NUT LOOSENER - AUTO NUT BUSTER



Art. No. 714.15001

- Bust Loose the most stubborn wheel nuts
- Use on passenger and light-duty truck wheels
- Gear Ratio - 18:1
- Rated Output Torque - 855' lbs
- Three Sockets Included 1 1/16" (17mm), 3/4" (19mm) and 13/16" (21mm)
- 1/2" drive

Size (in)	Size (mm)	Drive
1 1/16"	17 mm	1/2"
3/4"	19 mm	
13/16"	21 mm	

Contents



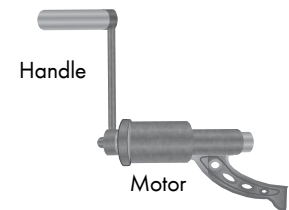
Blow Molded Case



Sockets



1.1 Connection Rod



Main Body

GREASE JOINT CLEANING TOOL



Art. No. 986.014

Frees up the grease joints and fittings, enabling them to be greased again.

The Grease Joint Cleaning Tool allows a clogged grease fitting or joint to take on fresh grease by injecting light penetrating oil into the grease joint via the grease fitting, breaking up and removing any dirt, rust or debris.

Easy to use: First remove the piston from the tool body and fill it with a non-aerosol penetrating oil, such as the Würth Pneumatic Tool Oil (Art. No. 893.0505). Once the tool body has been filled, reinsert the piston, gently working it into the bore of the body. Be sure to clean the piston and O-ring before inserting.

When the piston is inserted into the tool body, air may get trapped inside. Any air left in the tool reduces the hydraulic pressure, causing the tool to be less effective. After filling the tool body with light, penetrating oil, put the piston back and turn the tool upside down to allow the air bubble to float to the top. Place a rag over the end of the tool and tap on the piston lightly with your hand until the air bubble is forced out. When bleeding, be sure to keep your face and eyes away from expelling air and fluid. If the piston bounces back when tapped, it has air in it.

Comes with a flexible extension for hard to reach areas: Some applications may require the use of the Flexible Extension to make a bend. To install the flex hose, remove the female grease coupler from the tool. Using sealant tape, install the flex hose into the tool body, then install the grease coupler on the end of the hose. This gives you flexibility when trying to access tight places.

HAND LEVER GREASE GUN



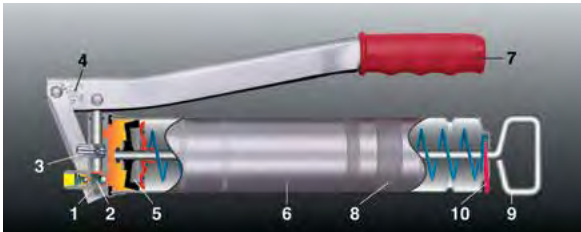
Art. No. 986.00

- For 500 cm³ bulk grease, 400 g cartridges, (235 x Ø 53.5 mm).
- Feed volume adjustable up to 1.5 cm³.
- Operating pressure 400 bar/5 800 psi.
- Max. pressure up to above 800 bar/11 600 psi.
- Actuating force 50 to 330 N at feed pressures of 50 to 400 bar (725 to 5 800 psi)

Additional tools:

Heavy Duty Grease Gun End 4-Prong M10 X 1 **Art. No. 986.003**

Grease Gun End 1/8 NPT **Art. No. 715.15688**



1. Precision steel pump, no "false lubrication", no seals to wear out.
2. Short stroke feed system, grease feed possible at any opening angle, two inlet openings, good grease flow even at low temperatures.
3. Filling and air bleeding valve. Filling possible with cartridges or bulk grease with filling device.
4. Metering gauge for controlled grease output.
5. Grease and oil resistant special seal piston.
6. Sturdy precision tube.
7. Ergonomically designed safety handle.
8. No-slip knurling in the grip area.
9. Close piston rod handle.
10. Fixing system—indeinitely adjustable, slip-proof piston rod fixing—no inadvertent operation!

The design corresponds to DIN 1283 (M10 x 1) and has been certified by TUV/GS, BLT and DLG.

GREASE GUN HOSE



- Manufactured from 3/16" I.D. S.A.E. 100R1 rubber hose
- The one braid hose is permanently crimped with 1/8 brass male pipe couplings on both ends
- To be used with hand held grease guns

Length (in)	Working Pressure (PSI)	Burst Pressure (PSI)	Art. No.
12	3,000	12,000	715.16279
18	3,000	12,000	715.16280

AIR REGULATOR WITH GAUGE



Art. No. 703.777

- 0-160 psi pressure gauge.
- Infinite adjusting range.
- 1/4" NPT male and female fittings.
- Provides precise air control for spray guns and air tools.
- Swivel top allows for easy installation.
- Compatible with any spray gun or air tool.
- Air regulators greatly improve energy conservation, air actuator control, controlling force/torque and operator safety.

Applications:

Use with Würth Sprayable Seam Sealer Gun **Art. No. 891.628**, all Würth air tools, etc.

PISTOL VAC



Note: Operate in vacuum mode only with factory dust bag securely attached by hose clamp. Operate with regulated air at a maximum of 90 psi and with 3/8" air supply line. Operate only with Safety Glasses, see Prefix 899. OSI-1A regulations require a maximum of 30 psi when operating in the Pistol Vac in blow mode.

Art. No. 714.92

Pistol Vac With Bag & Crevice Tool. Designed for high powered industrial vacuum cleaning with air pressure. Turns any shop air into a powerful vacuum cleaner or air cleaning gun.

- Connects to your air line.
- Out performs inexpensive imports.
- Dust bag and crevice tool included.
- No electrical connections needed.
- Fits many PBE applications.
- Easy and convenient to use.
- Maintenance free.

Applications:

Glass, sawdust, metal chips, dust spills, liquid.

24" AIR COMB – BLOW GUN FOR RADIATORS AND FILTERS



Art. No. 714.9024

Special multi-port nozzle maximizes air pressure and volume at a 90° angle. Thoroughly cleans air filters, condensers, and radiators from the inside out.

Safe on all filters - won't punch holes

Features:

- Focused high-pressure output
- 5x the air volume
- Long reach 90° airflow
- Accesses hard to reach areas
- Great for all air filters, radiators, and condensers
- Extends filter life

Industries:

- Agriculture
- Construction
- Automotive
- Industrial
- Stationary Power

BLOW GUN WITH SAFETY TIP, 1/4" NPT CONNECTION

Art. No. 714.9215

A high quality blow gun is an essential tool for any shop

Features:

- High quality industrial strength plastic
- Ergonomically constructed and insulated
- Can also be used with non-explosive fluids
- Proportional flow control handle

Benefits:

- Constructed design reduces user fatigue
- Robust, yet light weight



Technical Data	
Weight	2.7 oz. (76 g)
Sound Level	96 dB
Flow Capacity	500 l/min (17.7 CFM)
Max. Working Pressure	16 bar (230 PSI)



Safety Tip!

BLOW GUN KIT

Art. No. 714.921101

This kit contains our high quality blow gun, rubber tipped nozzle, effect enhancer with bypass, and a plastic guard.



Note: Plastic Guard with bypass **Art. No. 714.9223**, Rubber Tipped Nozzle **Art. No. 714.9224**, and Effect Enhancer with bypass **Art. No. 714.9225** will be made available separately in late 2015.

Attachment Pieces	A (mm)	C (mm)	Weight (grams)	Art. No.	Description
<p>Plastic Guard with bypass</p>	36.5	100	32	714.9223	Fits directly on the tube. The 4 inch diameter guard is made of high quality transparent plastic to allow the work surface to be clearly visible. The shield can be moved up or down along the shaft to protect the operator from flying debris when clearing the surface. The nitrile bushing secures the guard for easy installation and removal.
<p>Rubber Tipped Nozzle</p>	46.5	14	9	714.9224	Fits directly on the tube. This nozzle is used for sensitive surfaces and also used through pressurization to look for leaks by creating a tight seal.
<p>Effect Enhancer with bypass</p>	54.0	14	11	714.9225	Fits directly on the tube. This accessory draws in ambient air from the side of the nozzle and amplifies the air flow. When the end of the nozzle is blocked, it diverts the air out through the side and reduces pressure down to 2 bar (29 psi).

SPEEDPRESS 8T PUSH/PULL RIVETER AND ACCESSORIES



Automatic air powered riveter specially designed to perform common riveting tasks in modern bodyshops on all Aluminum, Steel and Combination/Hybrid body vehicles. Works with Self-Piercing Rivets, Flow-form Rivets and Solid Rivets. Virtually maintenance free with 100% no oil leakage.



Adjustable speed control



Adjustable pressure control

Kit Contents

Description	Art. No.	P. Qty
SpeedPress 8T PushPull Riveter	Not Sold Separately	1
HR2 360° arm	920.HR2	
Locking pin for arms	920.1LP	
Plastic handle	920.1PH	
Shoulder strap	920.1SS	
Shoulder strap bracket	Not Sold Separately	
Würth exclusive die set (21 pieces)*		
SPR starter kit (300 pieces)		
Heavy duty carrying case		

*Contents of the Würth Exclusive Die Set are listed on the following accessory pages.

Art. No. 920.055859

Features:

- 8 Tonnes of pressure
- 4 second cycle time
- Integrated pressure gauge
- Speed and pressure controls
- Closed hydraulic system
- Magnetic die system
- Installation, extraction and punching capabilities
- 360° swivel arm function

Benefits:

- Adjustable pressure settings prevent panel distortion
- Adjustable speed settings for precision and productivity
- Fast and easy arm and die changes
- Efficient and user-friendly
- More versatile than any other tool on the market

Applications:

- Self-Piercing Rivet installation and extraction
- Flow form Rivet punching and installation
- Solid Rivet installation and extraction
- Blind Rivet extraction

Areas of application:

- Aluminum & Steel

Vehicle applications:

- Ford
- Volkswagen | Audi
- Mercedes
- BMW
- Jaguar | Land Rover



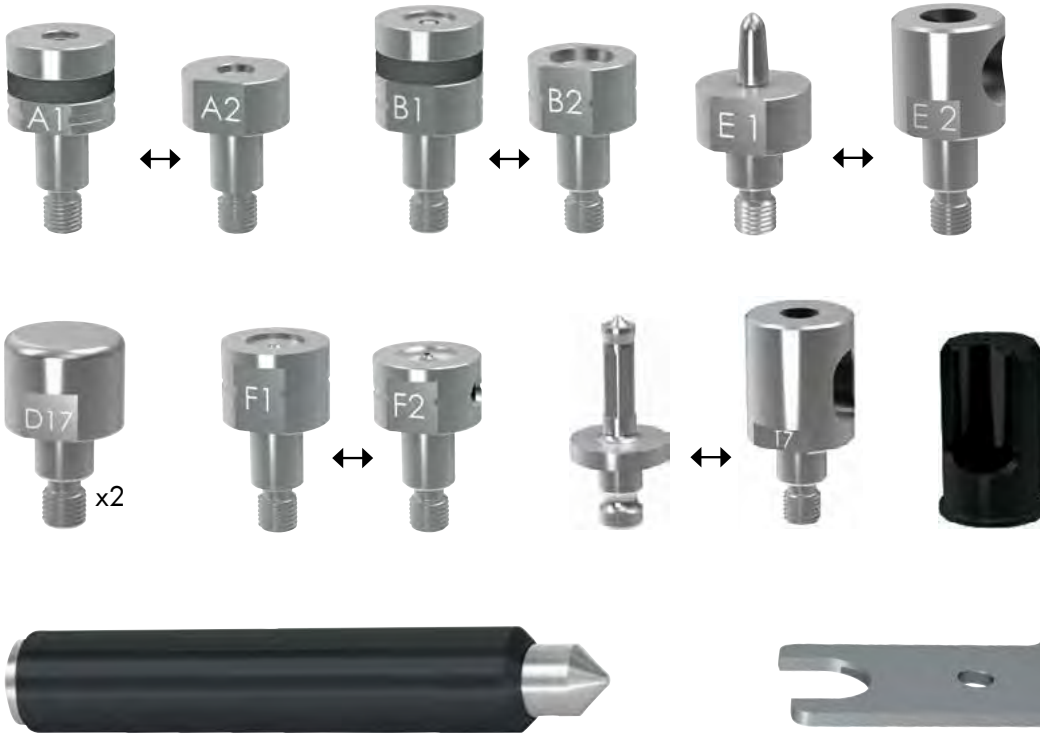
SPR starter kit (300 pieces)

Rivet Size (mm)	Art. No.	P. Qty
5.3 x 4.0	919.5340	50
5.3 x 5.0	919.5360	
5.3 x 6.0	919.5365	
5.3 x 8.0	919.5350	
3.3 x 3.5	919.33535	
3.3 x 3.5	919.33540	

Note: Full range of SPR's available – see prefix 919.

SPEEDPRESS 8T PUSH/PULL RIVETER ACCESSORIES

WURTH EXCLUSIVE DIE SET



Install and extract with factory precision. High strength steel and rugged design provide a solution built to last.

Contents: 21 pieces

Note: The Wurth Exclusive Die Set is only available as part of Art. No. 920.055859.

Kit Contents	Pairs with	Rivet Size (mm)	Rivet Type	Die Type	Pressure in Bar (b)	Main use	Art. No.	P. Qty
A1 Die	A2	3.3	SPR	Magnetic Holding	3-5.2	Audi, BMW, Ford	920.A1	1
A2 Die	A1			Forming			920.A2	
B1 Die	B2	5.3	SPR	Magnetic Holding	4.7-5.8	BMW, Jaguar Land Rover, Ford	920.B1	
B2 Die	B1			Forming			920.B2	
D17 Die	D17	All	N/A	Extraction Straightener Dolly	3-8	All Brands & Models	920.D17	2
E1 Die	E2			SPR			Extraction	
E2 Die	E1	6	Flow-form		Extraction Receiver	4.7-5.8	Audi, BMW, Jaguar Land Rover	920.E2
F1 Die	F2			Flow-form	Holding			Mercedes
F2 Die	F1	8	Flow-form		Forming	920.F2		
T7 Die	T5			8	Flow-form	Hole Punch Receiver	4.7-5.8	Mercedes
T5 Die	T7	Hole Punch	920.T5					
ST1 Fitting								
Center punch								
Extension								
Spare elastomer ring								
Assembly keys								

SPECIAL ORDER

SPEEDPRESS 8T PUSH/PULL RIVETER ACCESSORIES

SPEEDPRESS 8T RIVETER ARMS

High strength forged steel arms provide a total repair solution. Sizes and styles designed to suit all bodywork profiles.



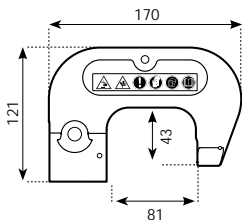
HR1S Arm - SpeedPress 8T



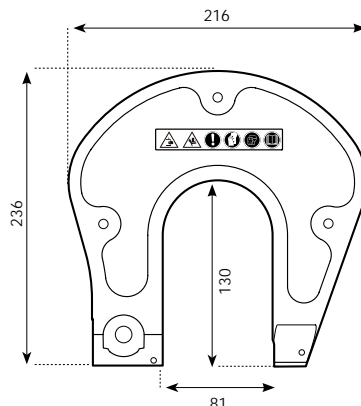
HR2 Arm - SpeedPress 8T



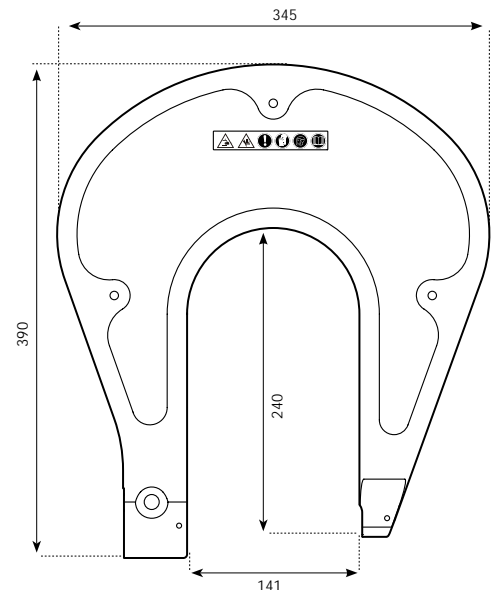
HR3 Arm - SpeedPress 8T



HR1S Arm - SpeedPress 8T



HR2 Arm - SpeedPress 8T



HR3 Arm - SpeedPress 8T

Description	Length in mm	Width in mm	Height in mm	Caliper opening in mm	Opening depth in mm	Weight in kg	Art. No.	P. Qty
HR1S Arm - SpeedPress 8T	121	50	170	81	40	2	920.HR1S	1
HR2 Arm - SpeedPress 8T	236		216		130	4	920.HR2	
HR3 Arm - SpeedPress 8T	390		345		240	9	920.HR3	

DIE SETS – MAKE SPECIFIC

VOLKSWAGEN | AUDI DIE SET



Art. No. 920.VWDS

Contents: 33 pieces

Install and extract with factory precision. High strength steel and rugged design provide a solution built to last.

For use with SpeedPress 8T **Art. No. 920.1000**

Kit Contents	Pairs with	Rivet Size in mm	Rivet Type	Die Type	Pressure in Bar (b)	Art. No.	P. Qty
A1 Die	S3	3.3	SPR	Magnetic Holding	3-5.2	920.A1	1
B1 Die	S7,S8	5.3		Extraction	4.7-5.8	920.B1	
D1 Die	D2	3.3		Extraction Receiver	3-8	920.D1	
D2 Die	D1,D3,S1			Extraction		920.D2	
D3 Die	D2,D5	All		Extraction		920.D3	
D4 Die	D5		Extraction/Punch Receiver	920.D4			
D5 Die	D3,D4,S4,S5,D12	5.3	Blind	Extraction	5.3-8	920.D5	2
D6 Die	D7	All		Extraction Receiver	920.D6		
D7 Die	D6	4	Solid	Dolly & Straightener	3-8	920.D7	
D8 Die	D8,D9			Forming	5.3-8	920.D8	
D9 Die	D8			Punch and Forming		920.D9	
D10 Die	D11	8	Spot Weld	Punch Out	3-8	920.D10	1
D11 Die	D10			SPR		Extraction	
D12 Die	D5	6	Solid	Punch and Forming	5.3-8	920.D12	
D13 Die	E2			Extraction Receiver	3-8	920.D13	
D15 Die	D16			Forming	3-5.2	920.D15	
D16 Die	D15	All	N/A	Straightener Dolly	3-8	920.D16	2
D17 Die	D17			Extraction Receiver		920.D17	
E2 Die	E1,D13	3.3	SPR	Extraction	3-5.2	920.E2	1
S1 Die	D2			Forming		920.S1	
S3 Die	A1	3.5	SPR	Extraction	3-8	920.S3	1
S4 Die	D5	5.3		Extraction	3-8	920.S4	
S5 Die	D5			Forming	4.7-5.8	920.S5	
S7 Die	B1	5.3		SPR	Extraction	3-8	
S8 Die	B1		Forming		4.7-5.8	920.S8	
Spare elastomer ring							4
Assembly keys							2

DIE SETS – MAKE SPECIFIC

BMW DIE SET



Art. No. 920.BMWDS

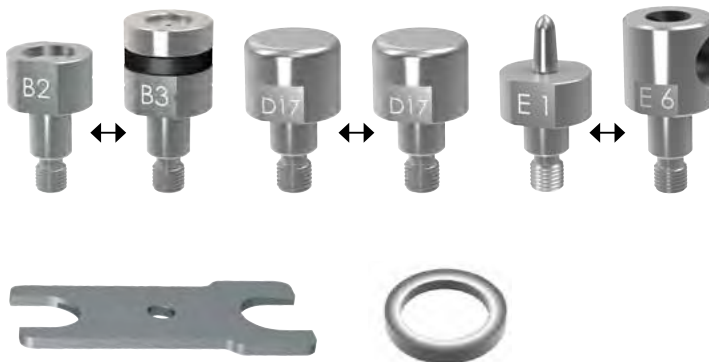
Contents: 12 pieces

Install and extract with factory precision. High strength steel and rugged design provide a solution built to last.

For use with SpeedPress 8T Art. No. 920.1000

Kit Contents	Pairs with	Rivet Size in mm	Rivet Type	Die Type	Pressure in Bar (b)	Art. No.	P. Qty
A1 Die	A2	3.3	SPR	Magnetic Holding	3-5.2	920.A1	1
A2 Die	A1			Forming		920.A2	
B1 Die	B2	5.3		Magnetic Holding	4.7-5.8	920.B1	
B2 Die	B1			Forming		920.B2	
E1 Die	E2	All		Extraction	3-8	920.E1	
E2 Die	E1			Extraction Receiver		920.E2	
Spare elastomer ring							4
Assembly keys							2

JAGUAR | LAND ROVER DIE SET



Art. No. 920.JLRDS

Contents: 12 pieces

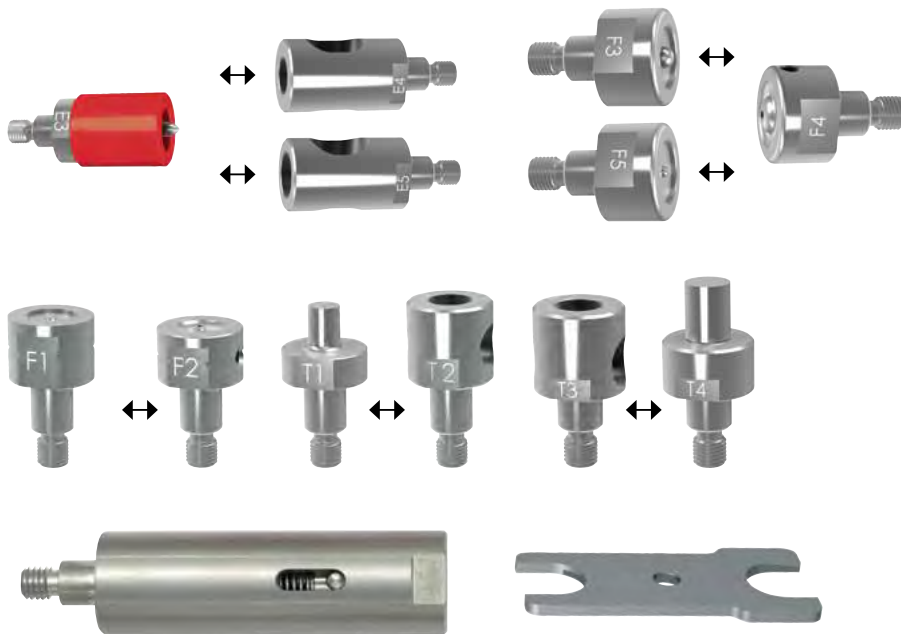
Install and extract with factory precision. High strength steel and rugged design provide a solution built to last.

For use with SpeedPress 8T Art. No. 920.1000

Kit Contents	Pairs with	Rivet Size in mm	Rivet Type	Die Type	Pressure in Bar (b)	Art. No.	P. Qty
B2 Die	B3	4.8	SPR	Forming	4.7-5.8	920.B2	1
B3 Die	B2			Magnetic Holding		920.B3	
D17 Die	D17	All	N/A	Straightener Dolly	3-8	920.D17	2
E1 Die	E6		SPR	Extraction		920.E1	1
E6 Die	E1			Extraction Receiver		920.E6	
Spare elastomer ring							4
Assembly keys							2

DIE SETS – MAKE SPECIFIC

MERCEDES BENZ DIE SET



Art. No. 920.MRCDS

Contents: 15 pieces

**Install and extract with factory precision.
High strength steel and rugged design
provide a solution
built to last.**

Kit Contents	Pairs with	Rivet Size in mm	Rivet Type	Die Type	Pressure in Bar (b)	Art. No.	P. Qty	
E3 Die	E4,E5	6	Flow-form	Extraction	3-8	920.E3	1	
E4 Die	E3	6		Extraction Receiver		920.E4		
E5 Die	E3	8		Holding		920.E5		
F1 Die	F2	6		Forming		920.F1		
F2 Die	F1	6		Forming		920.F2		
F3 Die	F4	8	Flow-form Style 1	Holding	920.F3			
F4 Die	F3,F5		Flow-form Style 2	Forming	920.F4			
F5 Die	F4	8	Flow-form	Holding	920.F5			
T1 Die	T2	6		Hole Punch	920.T1			
T2 Die	T1	6		Hole Punch Receiver	920.T2			
T3 Die	T4	8		Hole Punch	920.T3			
T4 Die	T3	8	Hole Punch	4.7-5.8	920.T4			
HR3 arm extension						920.HR3EX		
Assembly keys								2

PNEUMATIC RIVET GUN



Features:

- Powerful, durable, high-speed production tool.
- Quick release air valve permits cylinder to return quickly for high speed assembly operations: Prevents overloading for long life.
- Performs well at any angle.
- Gets into hard-to-reach areas.
- Provides quick, quiet and comfortable operation preventing user fatigue.

Technical data		
	3/16" Rivet Gun	1/4" Rivet Gun
Rivet capacity	max. 3/16"	max. 1/4"
Nose pieces	3/16", 5/32", 1/8", 3/32"	1/4", 3/16", 5/32", 1/8", 3/32"
Overall length	10-5/8"/270 mm	10-7/8"/280 mm
Net weight	3-1/4 lbs/1.5 kg	3-1/2 lbs/1.6 kg
Motor	1/2 hp	
Air Inlet Thread NPT	1/4"	
Air Hose I.D. size	3/8"/10 mm	
Avg. air consumpt.	2 cfm	2.320 Litre/stroke
Air pressure	71-85 psi	90-120 psi

Description	Size	Art. No.	P. Qty
Pneumatic Rivet Gun	3/16"	703.900	1
	1/4"	703.93721	

Art. No. 703.11401 - P. Qty. 5 pcs ***NEW***

Art. No. 703.13601 - P. Qty. 4 pcs ***NEW***

Nose Pieces for 703.93721



Nose Pieces for 703.900



NOTE: All other spare parts and accessory can be purchased through special orders.

PNEUMATIC TOOL OIL



Art. No. 893.0505 1 L

Lubricate, clean and protect your pneumatic tools.

- Increases power and tool performance.
- Extends tool operating life.
- Minimizes corrosion by repelling air line moisture.
- Removes dirt, dust and gummy deposits.
- Compatible with all piston and rotary type air tools.

PURLOGIC® PREMIUM PRESS GUN

Art. No. 891.152600

High-quality, PTFE coated metal gun for applying 1-component expanding foams

New, Improved & Completely Redesigned

- Comfortable, rubberised handle for firm hand grip
- Rugged gun body with PTFE-coated needle and threaded basket.
- Foam dispensing quantity can be

adjusted for a clean spraying pattern

- Optimized sealing system
- Dosable outflow of foam
- Trusted high-quality foam gun
- Unique Würth design
- Lock button
- Ideal for slim joints and hard to reach areas
- Ergonomic design
- Long service life



Extension Nozzle Art. No. 891.152601

Pack of 50 pieces

KOMBIFIX PNEUMATIC CARTRIDGE GUN

Art. No. 891.6286

Pneumatic cartridge gun for spraying and beading cartridges of low viscosity sealants or adhesives.

For 310-ml cartridges:

- Replicates 13 different finishes
- Does not clog up
- Easy adjustment.
- Amount of air and material can be regulated independently
- Automatically reduces the mains pressure to 6 bar working pressure
- Product is fed through a telescopic cylinder, thus making the penetration of the cartridge by compressed air impossible.
- Infinitely and finely adjustable
- Two-step trigger button

Included in Kit:

- 10 plastic nozzles for sprayable seam sealant
- 1 union nut for sprayable seam sealant
- 1 union nut for standard sealing compounds
- 1 connecting nipple, 1/4 inch

Application Nozzle:



891.628612
P. Qty. 1

- Nozzle for Sprayable Seam Sealant
- For use with "Kombifix" application gun
- Length: Approx. 12.5 cm
- Color: Transparent

Notice: The average consumption for pneumatic application guns is approx. 7.2 litres/minute.

Caution: The maximum working pressure for applying sealants with this pistol is 6 bar.

Suitable for: 310 mL cartridge **Length:** 350 mm

PROFESSIONAL 18-GAUGE PNEUMATIC BRAD NAILER



Art. No. 703.580050 - P. Qty. 1

For Trim nailing and Roof applications.

Features & Benefits:

- Depth of drive adjustment for nail heads
- Tool-free jam release mechanism for easy nail removal
- Selectable trigger: sequential or contact actuation
- Adjustable exhaust to keep contaminants away from work
- KIT INCLUDES: Tool, 1/4-inch fitting, goggles, Allen keys, manual and carrying case
- Maintenance-free motor
- Tool-free jam release
- Hardened driver blade
- Application - interior/exterior trim finish, roofing, upholstery panels, cabinets, baseboards, framing, furniture etc.
- 1 year warranty

SPECIFICATIONS

Operating Pressure	70-120 psi
Fastener Type	18 gauge brad nails
Fastener Range	5/8 in. to 2 in.
Magazine Capacity	110 nails
Air Consumption	0.06 ft ³ /cycle at 100 psi
Air Inlet	1/4 in. NPT
Weight	3.4 lbs.

REPLACEMENT NAILS - Art. No. 480.1338

ELECTRIC GLUE GUN



Art. No. 702.100057

- Industrial high temperature glue gun delivers 2.5 pounds of glue per hour.
- 80 watts of heating power, 120 Volts.
- Reaches 193°C (380°F).
- Solid state PTC (positive temperature control) heaters.
- Complete with stand and side stand which allows the gun to be placed on its side without glue backflow.
- Double insulated ground cord.
- Glue stick diameter: 7/16" (11.3 mm)

Recommended:

Glue Sticks 0.5 kg special glue, Ø 12 mm. **Art. No. 890.100057**

P. Qty: 25

Glue Sticks for Dent Lift System Ø 11.5 mm, 195 mm long.

Art. No. 890.100050

P. Qty: 10

ULTRA HOT HEAT GUN



Art. No. 702.2000

Dual temperature heat gun for general use.

- Choice of two temperature settings: 315 °C (600 °F) and 482 °C (900 °F).
- 1300 watt output.
- UL and C-UL listed for safety.
- Lightweight, easy to use, offers quick heat-up and ultra quiet operation

Application Automotive Industry:

- Applying and removing decals.
- Curing epoxies.
- Drying distributor caps and wet ignitions.
- Drying paint touch-ups eliminating "haze".
- Forming and welding plastics.
- Loosening rusted bolts and fittings.
- Removing wrinkles from vinyl seats.
- Repairing rear window defrosters.
- Setting thermoplastic adhesive.
- Shrinking headliners.
- Shrinking tubing.
- Softening and fitting convertible tops.
- Softening windshield seal for replacement.
- Thawing frozen radiators, gas lines, door locks.

Heat Gun Users Include:

Appliance repairmen, biochemists, boat refinishers, building maintainers, cabinetmakers, car rental agencies, carpenters, chemists, crime laboratories, dental technicians, dry cleaners, dry wall contractors, electric motor repairman, electricians, engineers, food retailers, foundrymen, furniture repairers, homebuilders, janitors, locksmiths, machinists, marine owners, metal workers, millwrights, opticians, photographers, physicians, plumbers, printers, roofers, tune-up specialists, welders.

Chemical Application:

- Applying shrink tubing and shrink fittings.
- Softening, forming and bending plastic tubing.
- Speeding up plastic curing.
- Speeding setting of epoxy cement repairs.
- Drying of damp areas before painting.
- Drying out wet surfaces, motor controls.
- Softening adhesives for tile removal.
- Softening and bending plastic tubing and pipe.
- Strips paint fast.

Electrical Application:

- Bending and forming PVC conduit.
- Melting solder or component board backs.

Woodworking Application:

- Bonding vinyls and other plastics together.

Marine Application:

- Drying varnish and other finishes.
- Heating, softening, bending, forming or molding plastic.

Plastic Industry Application:

- Repairing ABS plastics.
- Returning "memory" plastic to original shape.

ANGLE GRINDER



Features:

- Compact and lightweight
- Vibration control handle reduces vibration up to 60%
- Rear handle trigger with lock-on/off switch for extended use applications
- Sealed switch keeps debris out of the switch mechanism
- Adjustable guard
- Epoxy coated field windings

Benefits:

- Powerful & durable for the most demanding jobs
- Provides uncompromising user comfort for extended periods of work
- Increases longevity of tool life
- Minder™ brushes eliminates guesswork, stops the tool when preventative maintenance is required
- Efficient guard installation and adjustments
- Coated field windings provides the ultimate protection against abrasive dust and metal debris

Contents:

- Guard
- Vibration dampening side-handle

Technical data	4.5" Angle Grinder	5" Angle Grinder
Amperage	6	9.5
No load RPMs	11,000	11,000
Wheel diameter	4-1/2"	5"
Spindle thread	5/8" - 11	
Length	10-1/2"	14-3/4"
Weight	3.75 lbs	5.1 lbs

Description	Size	Art. No.	P. Qty
Angle Grinder	4.5"	008.1375	1
	5"	008.1821	

Note: Does not have an automatic electronic clutch.

INFRARED LASER THERMOMETER



Art. No. 715.53110

An integrated laser pointer for measurement of surface temperatures

Features:

- Ergonomic, practical and suitable for use anywhere
- Thanks to the two-point laser beam, the measuring point can be focused even more precisely
- Extremely slim measuring cone of 12:1
- Digital setting of degree of emission
- Can be switched from Celsius to Fahrenheit
- With integrated display lighting

- Display of results with one decimal place
- Adjustable alarm with extremely high or lower temperatures
- Infrared laser thermometer is supplied in practical pouch which can be fastened to belt

Benefits:

- Temperatures displayed in just seconds
- Reliable and accurate measurements with a slimmer measuring cone
- Measures temperatures between -50 °C and +650 °C

Technical Data

Measuring range	-50 °C to +650 °C
Two-point laser targeting system	12:1
Power supply	9 V battery (Art. No. 827.05) not included
Spectral range	8 to 14 μm
Reaction time of device	150 ms
Repeat precision	- 50 to +20 °C/- 58 to +68 °F: ± 1.3 °C (2.3 °F) + 20 to +650 °C/+ 68 to +1,202 °F: ± 0.5 %, 0.5 °C (0.9 °F)
Measuring tolerance	- 50 to +20 °C/- 58 to +68 °F: ± 2.5 °C (4.5 °F) + 20 to +300 °C/+ 68 to +572 °F: ± 1 %, 1 °C (1.8 °F) + 300 to +650 °C/+ 572 to +1,202 °F: ± 1,5%
Automatic switch-off	after approx. 5 sec.



Note: When the trigger is pressed continually, the device always indicates the actual temperature of each measuring point. When released, the last measuring result is displayed.

PUMP SPRAY BOTTLE 360°



360° use



Markable Label



Art. No. 891.503360 1L

Special intake system allows 360° spraying and ensures reliable working overhead, at an angle or vertically.

Features:

- Easier to open, thanks to non-slip grip
- Ergonomic, robust pump spray atomizer with long handle
- Individually markable label

- Space for labeling the type of liquid filling
- Extra fields for safety instructions

Benefits:

- Fatigue-free working thanks to low operating force
- Strong spray stream
- Good stability thanks to conical shape
- Easy filling from canisters or drums

Note: See chemical compatibility chart before use

The information on use is only a recommendation based on our own tests and experience. Carry out your own tests before each use. Due to the large number of possible applications and storage/usage conditions, we make no guarantee as to any specific results of use. Insofar as our free customer service provides technical information or advice, we shall not be held liable in any way unless the advice or information is part of the contractual scope of our services which must be provided or if the person giving the information is acting deliberately. We guarantee the consistent quality of our products and reserve the right to make technical changes and continue development.

PUMP SPRAY O-RING KIT



Art. No. 891.599

All parts necessary to rebuild 1 Litre pump spray bottles

P.Qty: 1

EMPTY BOTTLE WITH SPRAYER



Art. No. 891.502002 (500mL)

For user-friendly application of liquids

Features and Benefits:

- Transparent, break-proof container with fill level visibility
- 100mL and 200mL scales, useful aid for filling and mixing
- Individual markable label for labelling liquid contents, plus extra fields for safety instructions

Note: Replaces 1/2 Litre Bottle Art. No. 890.700 & Sprayer Art. No. 890.8

ECO DISPENSING PUMP FOR 4L AND 20L CONTAINERS



Art. No. 891.901120

Contains:

- One 17" (43cm) dispensing pump, and one yellow 20L pail adaptor

Benefits:

- Fits all 4L and 20L ECO containers
- Spring-loaded for easy operations
- Made of high-density polyethylene

PLASTIC MEASURING CUP 5L



Features:

- Resistant to acid and chemicals
- Safe for food
- Scale in 100 mL increments
- For use of transferring oil, coolant, window cleaner etc.
- Height: 10"

Material	Contents	Colour	Resistance to	Scale	Art. No.	P. Qty.
Plastic	5 L	White	Oil, acids	Scale increments 100 mL	705.800500	1

08 FITTINGS & HOSES

- 2** Hose Clamps, Pipe Clamps & Assortments
- 10** Grease Fittings
- 12** Line/Tee Connectors, Vacuum Caps and Assortments
- 13** Fuel Line/Windshield Washer Tubing and Racks
- 14** Heater Hose
- 15** Brass Fittings
- 24** Black Iron Fittings
- 25** Steel Fittings
- 28** Fitting Assortments
- 30** Air Brake Tubing and Hoses
- 31** Caps and Plugs
- 33** Liquid Filled Pressure Gauge
- 35** Pneumatic Couplers and Fittings
- 36** High Flow Pneumatic Systems
- 40** Air Hoses and Reels
- 44** Water Hose Accessories



HOSE CLAMPS



Fig. 1

Technical Information	
Material of strap	1.4016 stainless steel F1
Material of screw/body	Galvanized steel, passivated, sealed
Screw type	Phillips head
Strap widths	7.5 mm/9mm/12mm

Size	
Strap width	Screw size
7.5 mm	6 mm
9 mm	7 mm
12 mm	7 mm

Strap Width in mm	Clamping Range (dia.)	Art. No.	P. Qty.
7.5mm	10mm - 16mm	539.10.16	20
9mm	8mm - 16mm	539.8..12	
	12mm - 22mm	539.12.20	
	16mm - 27mm	539.16.25	
	20mm - 32mm	539.20.32	
	25mm - 40mm	539.25.40	
	30mm - 45mm	539.30.45	
9mm	32mm - 50mm	539.32.50	10
	40mm - 60mm	539.40.60	
	50mm - 70mm	539.50.70	
	60mm - 80mm	539.60.80	
	70mm - 90mm	539.70.90	
12mm	16mm - 27mm	549.16.25	10
	20mm - 32mm	549.20.32	
	25mm - 40mm	549.25.40	
	35mm - 50mm	549.32.50	
	40mm - 60mm	549.40.60	
	50mm - 70mm	549.50.70	
	60mm - 80mm	549.60.80	
	70mm - 90mm	549.70.90	
	80mm - 100mm	549.80.100	
	100mm - 120mm	549.100.120	

With asymmetrical buckle

Application

- Fuel line systems
- Cooling water/Heating
- General retainer/fastener

Asymmetrical body (Fig. 1)

- Even distribution of force
- Clamp head does not tilt away during tightening

Smooth/indented strap interior, rounded edges

- Prevents injury and hose damage

RoHS Compliant

Does not contain Chrome-VI



Art. No. 539.1207

A/F 7 mm wrench

Contents (120 Pieces):

- 10 sizes from 8-16 mm to 70-90 mm
- 1 Zebra screwdriver with flexible shaft
- 1 wall mounting set

Sizes	
Clamping range in mm	Art. No.
8-12	539.28.12
10-16	539.210.16

Technical Information	
Material of strap	1.4301 stainless steel A2
Material of screw/body	1.4016 stainless steel F1, tinned
Screw type	Slotted
Strap widths	9 mm
Size	6 mm

Application:

Fuel line systems, Fuel pump, Fuel manifolds, Fuel filters, Fuel tank connections, Surge tanks/ Coolers

"Power" Fuel Hose Clip



Fig. 1

Higher tightening torque than conventional hose clamps; 3.5 Nm (2.5 lb-ft) recommended

- Cannot be over-turned by hand

Asymmetrical body (Fig. 1)

- Even distribution of force
- Clamp hand does not tilt away during tightening

Smooth/indented strap interior, rounded edges

- Prevents injury and hose damage

RoHS Compliant/ Does not contain Chrome-VI

Note: Use with Art. No. 613.28606

MH "Micro" Series Hose Clamps



Clamping Range (dia.)		Art. No.	P. Qty.
inches	mm		
1/4" - 5/8"	6mm - 16mm	535.4	10
1/4" - 11/16"	7mm - 17mm	535.5	
5/16" - 7/8"	8mm - 22mm	535.6	
3/8" - 1"	10mm - 25mm	535.81	

- Band width: 5/16"
- Screw Size: 1/4" A/F
- Stainless steel clamp, chrome steel screw

T-BOLT HOSE CLAMPS



For hoses with a high level of hardness or inserts made of metal or plastic

Advantages:

Extremely high tightening force

- Secure connection of hard hoses as well

Rounded edges/hose bridge

- Prevents injury and hose damage

Application:

- Lines carrying air
- Exhaust gas system
- Retainer/Fastener

Technical Data	
Design	W1
Material of strap	1.0934 alu./zinc
Material of screw	Steel, galvanized
Screw type	External hexagon
Size	Strap width 18 mm = 8 mm
	Strap width 20 mm = 10 mm
	Strap width 25 mm = 13 mm

Clamping range (mm)	Strap width (mm)	Art. No.	P. Qty.
19-21	18	537.118.020	2
23-25		537.118.024	
25-27		537.118.026	
29-31		537.118.030	
31-34		537.118.033	
34-37		537.118.036	
40-43	20	537.118.042	2
43-47		537.120.045	
47-51		537.120.049	
51-55		537.120.053	
55-59		537.120.057	

Clamping range (mm)	Strap width (mm)	Art. No.	P. Qty.
59-63	20	537.120.061	2
63-68		537.120.066	
68-73		537.125.071	
73-79		537.125.076	
79-85	25	537.125.082	2
85-91		537.125.088	
91-97		537.125.094	
97-104		537.125.101	
104-112		537.125.108	
112-121		537.125.117	
121-130		537.125.126	

T-BOLT HOSE CLAMPS 316SS



Heavy-Duty clamp, ideal for fastening compressed air hoses with high degrees of hardness or plastic/steel reinforcement.

- 18mm - 30mm Band Widths
- Exceptionally High Tensile Force
- Diameter Range 17mm - 304mm
- 316 Stainless Steel Band/W5
- Heavy-Duty T-Bolt with Hollow Trunnions
- (W5) Stainless Steel Rounded Band with Bridge

Band Width	Clamping Range (mm)	Clamping Range (inch)	Art. No.
18	17-19	11/16 - 3/4	537.0118.018
18	19-21	3/4 - 13/16	537.0118.020
18	21-23	13/16 - 15/16	537.0118.022
18	23-25	15/16 - 1	537.0118.024
18	25-27	1 - 1-1/16	537.0118.026
18	27-29	1-1/16 - 1-1/8	537.0118.028
18	29-31	1-1/8 - 1-1/4	537.0118.030
18	31-34	1-1/4 - 1-5/16	537.0118.033
18	34-37	1-5/16 - 1-7/16	537.0118.036
18	37-40	1-7/16 - 1-9/16	537.0118.038
18	40-43	1-9/16 - 1-11/16	537.0118.042
20	43-47	1-11/16 - 1-7/8	537.0120.045
20	51-55	2 - 2-3/16	537.0120.053
20	55-59	2-3/16 - 2-5/16	537.0120.057
20	59-63	2-5/16 - 2-1/2	537.0120.61
25	68-73	2-11/16 - 2-7/8	537.0125.071
25	73-79	2-7/8 - 3-1/8	537.0125.076
25	79-85	3-1/8 - 3-3/8	537.0125.082

HOSE CLAMPS



Spring Action Hose Clamps

- Heat treated spring steel
- Excellent corrosion resistance
- Provides a professional fit and finish

Colour	Hose O.D	Max Dia.	Band Width	Art. No.	P. Qty.
Black	3/8"	.321	5/16"	534.38	50
Green	7/16"	.405		534.716	
Red	1/2"	.460		534.12	
Black	9/16"	.520		534.916	
Olive	5/8"	.583		534.58	



EFI Hose Clamps

- For use with electronic fuel injection hose, ex: Art. No. 897.602/603/604.
- Plated carbon steel
- Screw drive: Hex with slot

Clamp Size	Clamping Range	Band Width	Art. No.	P. Qty.
04	0.433" - 0.551"	23/64"	535.HC21-4	10
05	0.472" - 0.590"	23/64"	535.HC21-5	
06	0.551" - 0.669"	23/64"	535.HC21-6	



Two Ear Clamps - Zinc Plated

- Available in steel
- Suited for maintenance and O.E.M. applications.
- Rubber Hose, Plastic Tubing, Co-Axial and Electrical Cable, Rope, etc. are all readily clamped
- The clamps are widely used on air, fluid, gas and steam lines.

Nominal Size	Closed	Open	Art. No.	P. Qty.
3/16"	.118"	.197"	884.HC9-3	25
1/4"	.197"	.276"	884.HC9-4	
5/16"	.276"	.354"	884.HC9-5	
3/8"	.315"	.433"	884.HC9-6	
1/2"	.433"	.512"	884.HC9-8	
9/16"	.512"	.591"	884.HC9-9	
19/32"	.519"	.669"	884.HC9-9-1/2	
5/8"	.591"	.708"	884.HC9-10	
3/4"	.669"	.787"	884.HC9-12	
7/8"	.787"	.905"	884.HC9-14	

Norma Hose Clamps

- With anti-pitch liner
- For securing rubber and plastic hoses, rubber sleeves on pipe ends and hose connections, etc.
- For high pressure applications
- Slotted Screw
- Zinc Plated



Diameter	Band Width	Art. No.	P. Qty.
9mm	9mm	540.9..9	10
12mm		540.12.9	
13mm		540.13.9	
14mm		540.14.9	
15mm		540.15.9	
16mm		540.16.9	
18mm		540.18.9	
24mm		540.24.9	

HOSE CLAMPS



- With Tang Liner
- 1/2" band width screw. Lined. 201/301 Stainless Steel
- 5/16 Hex Head. Plated Carbon Steel
- 201/301 Stainless Steel Housing
- Great for soft hoses

Adjustable Shield Hose Clamps

Clamping Range (dia.)		Art. No.	P. Qty.
in	mm		
		536.4	10
5/8" - 7/8"	16mm - 22mm	536.6	
5/8" - 1"	16mm - 25mm	536.8	
3/4" - 1 1/16"	19mm - 27mm	536.10	
7/8" - 1 1/4"	22mm - 32mm	536.12	
1" - 1 1/2"	26mm - 38mm	536.16	
1 1/8" - 1 3/4"	29mm - 44mm	536.20	
1 1/4" - 2"	32mm - 51mm	536.24	
1 5/16" - 2 1/4"	33mm - 57mm	536.28	
1 9/16" - 2 1/2"	40mm - 63mm	536.32	
1 13/16" - 2 3/4"	46mm - 70mm	536.36	
2 1/16" - 3"	52mm - 76mm	536.40	
2 5/16" - 3 1/4"	59mm - 82mm	536.44	
2 9/16" - 3 1/2"	65mm - 89mm	536.48	



Fuel Line Clips

Clamping Range	Dia.	Band width	Art. No.	P. Qty.
9.1mm - 10.8mm	11.3mm	7.4mm	541.113	25
11.1mm - 13.1mm	13.8mm	8.2mm	541.138	10
11.8mm - 13.8mm	14.5mm		541.145	
12.8mm - 14.8mm	15.5mm		541.155	

- A2 Stainless Steel (clip & Insert) 1.4301
- Precise installation, even in the tightest spaces
- Chrome-VI free



Super Mini Hose Clamps

Clamping Range in mm	Band Width	Art. No.	P. Qty.
7mm - 11mm	5mm	541.7..11	25

- Strap is made of 1.4301 stainless steel A2
- Screw/body is galvanized steel, passivated, sealed
- Slotted screw type
- For minimally-stressed hoses in tight quarters



- 1/2" High Nickel Stainless Steel band and housing
- 5/16" High Nickel Stainless Steel hex head screw

Stainless Steel Hose Clamps

Clamping Range (dia.)		Art. No.	P. Qty.
Min. - Max Dia. in	Min. - Max. Dia. mm		
1/4" - 5/8"	6mm - 16mm	535.S5.4	10
3/8" - 7/8"	10mm - 22mm	535.S5.6	
7/16" - 1"	11mm - 25mm	535.S5.8	
7/16" - 1"	11mm - 25mm	535.S5.8.BK	500
1/2" - 1 1/16"	13mm - 27mm	535.S5.10	10
1/2" - 1 1/4"	13mm - 32mm	535.S5.12	
11/16" - 1 1/2"	18mm - 38mm	535.S5.16	
3/4" - 1 3/4"	19mm - 44mm	535.S5.20	
1" - 2"	25mm - 51mm	535.S5.24	
1 1/4" - 2 1/4"	32mm - 57mm	535.S5.28	
1 1/2" - 2 1/2"	38mm - 63mm	535.S5.32	
1 3/4" - 2 3/4"	44mm - 70mm	535.S5.36	
1 3/4" - 2 3/4"	44mm - 70mm	535.S5.36.BK	
2" - 3"	51mm - 76mm	535.S5.40	
2 1/4" - 3 1/4"	57mm - 82mm	535.S5.44	10
2 1/2" - 3 1/2"	64mm - 89mm	535.S5.48	
2 3/4" - 3 3/4"	70mm - 95mm	535.S5.52	

HOSE CLAMPS

HS Series Hose Clamps



- Band width: 1/2" mm
- Screw Size: 5/16" A/F
- Stainless steel clamp, chrome steel screw

Clamping Range (dia.)		Art. No.	P. Qty.
Min. - Max Dia.	Min. - Max. Dia.		
7/16" - 1"	11mm - 25mm	535.8	10
1/2" - 1-1/16"	13mm - 27mm	535.10	
1/2" - 1-1/4"	13mm - 32mm	535.12	
11/16" - 1-1/2"	18mm - 38mm	535.16	
3/4" - 1-3/4"	19mm - 44mm	535.20	
1" - 2"	25mm - 51mm	535.24	
1-1/4" - 2-1/4"	32mm - 57mm	535.28	
1-1/2" - 2-1/2"	38mm - 63mm	535.32	
1-3/4" - 2-3/4"	44mm - 70mm	535.36	
2- 3"	51mm - 76mm	535.40	
2-1/4" - 3-1/4"	57mm - 82mm	535.44	
2-1/2" - 3-1/2"	64mm - 88mm	535.48	
2-1/2" - 4-1/2"	64mm - 114mm	535.64	
2-1/2" - 3-1/2"	64mm - 114mm	535.48	
2-3/4" - 3-3/4"	70mm - 95mm	535.52	
3- 4"	76mm - 101mm	535.56	
2-1/2" - 4-1/2"	64mm - 114mm	535.64	
3- 5"	76mm - 127mm	535.72	
3-1/4" - 4-1/4"	83mm - 108mm	535.60	
4-1/2" - 6-1/2"	114mm - 165mm	535.96	

POWER SEAL® HOSE CLAMPS 316SS

A general purpose automotive and industrial worm-drive hose clamp with arcial perforations for added strength.



- 1/2" Band with Arcial Perforations
- Quadra-Lock Construction
- SAE Standard J1508 Type F
- Diameter Range 7/16" - 7"
- 5/16" 316 Stainless Steel Hex Screw
- 1/2" Band in 316 Stainless Steel
- Two-Piece Housing in 316 Stainless Steel

Band Width (inch)	Band Width (mm)	Min. Clamping Range (inch)	Max. Clamping Range (inch)	Min. Clamping Range (mm)	Max. Clamping Range (mm)	Art. No.
1/2	12.7	7/16	25/32	11	20	539.316.6
1/2	12.7	1/2	29/32	13	23	539.316.8
1/2	12.7	9/16	1-1/16	14	27	539.316.10
1/2	12.7	11/16	1-1/4	17	32	539.316.12
1/2	12.7	13/16	1-1/2	21	38	539.316.16
1/2	12.7	13/16	1-3/4	21	44	539.316.20
1/2	12.7	1-5/16	2-1/4	33	57	539.316.28
1/2	12.7	1-9/16	2-1/2	40	64	539.316.32
1/2	12.7	1-13/16	2-3/4	46	70	539.316.36
1/2	12.7	2-1/16	3	52	76	539.316.40
1/2	12.7	2-5/16	3-1/4	59	83	539.316.44
1/2	12.7	2-9/16	3-1/2	65	89	539.316.48
1/2	12.7	2-13/16	3-3/4	71	95	539.316.52
1/2	12.7	3-1/16	4	78	102	539.316.56
1/2	12.7	3-5/16	4-1/4	84	108	539.316.60
1/2	12.7	3-9/16	4-1/2	91	114	539.316.64
1/2	12.7	1-7/8	5	48	127	539.316.72
1/2	12.7	2-1/2	5-1/2	64	140	539.316.80
1/2	12.7	3-1/8	6	79	152	539.316.88
1/2	12.7	3-5/8	6-1/2	92	165	539.316.96

SPECIALTY CLAMPS & ACCESSORIES



Band: Stainless Steel
Bridge: Stainless Steel
T-Bolt: Carbon Steel
Finish (T-Bolt): Zinc Plated
Spring: High Carbon Steel
Band Thickness: 0.025"

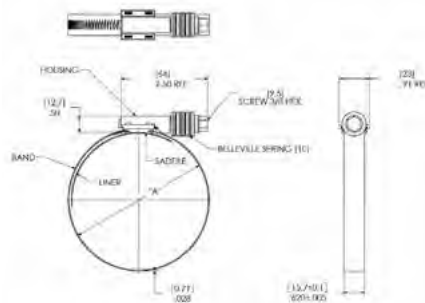
Clamping Range (dia.)		Art. No.
inches	mm	
2.06-2.31	52-59	884.HC19-225
2.19-2.50	58-64	884.HC19-238
2.31-2.62	59-67	884.HC19-250
2.38-2.69	60-68	884.HC19-263
2.44-2.75	62-70	884.HC19-270
2.56-2.87	65-73	884.HC19-275
2.69-3.00	68-76	884.HC19-288
2.81-3.12	71-79	884.HC19-300
2.94-3.25	75-83	884.HC19-312
3.06-3.37	78-86	884.HC19-325
3.31-3.62	84-92	884.HC19-350

Clamping Range (dia.)		Art. No.
inches	mm	
3.56-3.87	90-98	884.HC19-375
3.63-3.94	92-100	884.HC19-382
3.81-4.12	97-105	884.HC19-412
4.06-4.37	103-111	884.HC19-425
4.31-4.62	110-117	884.HC19-450
4.56-4.87	116-124	884.HC19-475
4.81-5.12	122-130	884.HC19-500
5.06-5.37	129-137	884.HC19-525
5.31-5.61	135-143	884.HC19-550
5.56-5.87	141-149	884.HC19-575
5.81-6.12	148-156	884.HC19-600

Application:

- Designed specifically for silicone hose connections in turbocharged diesel engine air intake and air charge air systems
- Solves hose "blow-off" failures resulting from cold flow or thermal expansions

CONSTANT TORQUE HOSE CLAMPS



"A" Diameter		Art. No.	P. Qty.
inches	mm		
1 1/16 - 1 1/4"	17 mm - 32 mm	549.0125	10
1 3/16 - 1 1/2"	21 mm - 38 mm	549.0150	
1 3/16 - 1 3/4"	21 mm - 44 mm	549.0175	
1 1/16 - 2"	27 mm - 51 mm	549.0195	
1 1/4" - 2 1/8"	32 mm - 54 mm	549.0200	
1 3/4" - 2 5/8"	45 mm - 67 mm	549.0250	
2 1/4" - 3 1/8"	57 mm - 79 mm	549.0300	
2 3/4" - 3 5/8"	70 mm - 92 mm	549.0350	
3 1/4" - 4 1/8"	83 mm - 105 mm	549.0400	
3 3/4" - 4 5/8"	95 mm - 118 mm	549.0450	
4 1/4" - 5 1/8"	108 mm - 130 mm	549.0500	

"Torque Check" provides visual proof of correct installation torque. This patented clamp is installed correctly as shown to the right when the screw tip "A" ("Torque Check") is extended beyond the housing, and the bellville spring washer stacks are nearly collapsed flat. We recommend using a torque wrench.



These heavy duty clamps are recommended for use on turbo exhaust sleeves, heater hoses, coolant hoses, and intake systems.

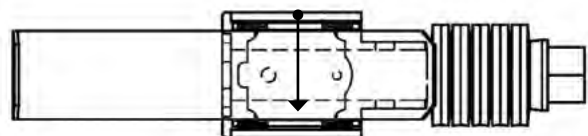
- Eliminates "cold flow hose leaks" & saves money in low coolant.
- Eliminates retightening clamps, saves money and mechanic labour.
- Stainless Steel; virtually unlimited product life - won't rust or corrode and is reusable.
- Extended Internal Liner; covers gear slots in band to protect all types of hoses from damage and helps maintain consistent sealing pressure.
- "Quadra-Lock" Housing; provides extra torque strength and stability for the ultimate in sealing pressure and vibration resistance.
- Fleet Standard; easily installed and easily replaced. No special tools needed.
- Reusable; eliminates the sometimes necessary replacement of expensive "single use" clamps during routine or emergency maintenance.
- Can be installed or replaced without removing the hose from connection; prevents massive and costly loss of engine coolant.
- Extended adjustment range; fewer parts needed for complete coverage.

Material

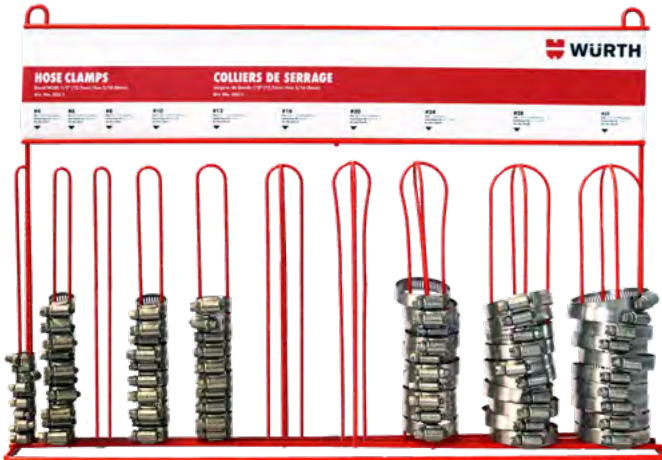
Belleville Springs - 301 Stainless Steel
 Band • Liner • Housing • Saddle - 300
 Stainless Steel
 Screw - Stainless Steel

Welded Liner Shown

Note: Liner is spot welded to band and saddle in one spot.



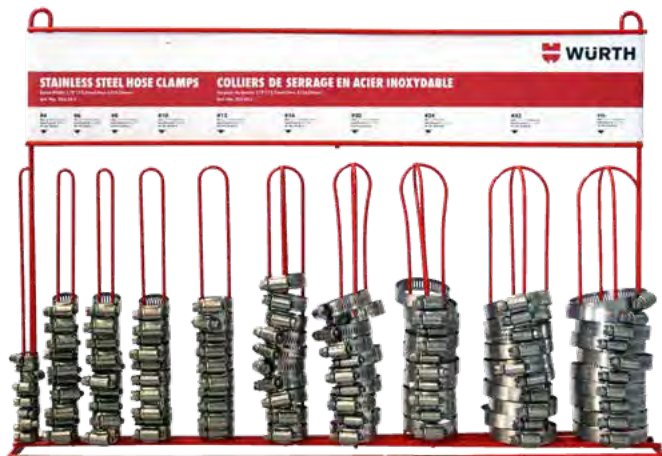
HOSE CLAMP ASSORTMENT



Art. No. 535.1

- Contains 70 Hose Clamps, 10 of each: #4, #6, #10, #12, #24, #28, #32
- Stands free or mounts on walls
- Will hold from 70 to approximately 175 Hose Clamps

STAINLESS STEEL HOSE CLAMP ASSORTMENT



Art. No. 535.SS.1

- Contains 100 hose clamps, 10 pieces of each of the following sizes: #36, #32, #24, #20, #16, #12, #10, #8, #6, #4

PIPE CLAMPS

Norma Pipe Clamp



- Steel, Zinc-Plated with vulcanized rubber insert
- Temperature range: -35 °C to +120 °C (-31 °F to +248 °F)
- Tensile strength: 100 kg/cm²
- Screw Hole Size: 1/4"
- Description in price list: Pipe size (i.d.)/band width/hole size

Dia. in mm	Band Width	Hole Size	Art. No.	P. Qty.
6mm	12mm	M5	542.6..12	20
8mm			542.8..12	
8mm	15mm	M6	542.8..15	100
10mm	12mm	M5	542.10.12	
10mm			542.10.12.BK	20
10mm	15mm	M6	542.10.15	
12mm			542.12.15	
15mm			542.15.12	
15mm			542.15.15	10
15mm	20mm	M8	542.15.20	
18mm	15mm	M6	542.18.15	10
20mm	20mm	M8	542.20.20	
22mm			542.22.15	10
25mm	15mm	M6	542.25.15	
25mm	20mm	M8	542.25.20	10
30mm	15mm	M6	542.30.15	
35mm			542.35.15	10
50mm	25mm	M10	542.50.25	

PIPE CLAMPS



Pipe Clamp c/w Rubber Insert

- Steel, Zinc-Plated with vulcanized rubber insert
- Screw Hole Size: 3/8"



Stainless Steel Tube Clamp 304

- High-Density Steel
- Chemically Treated G90
- Type 304 Annealed Stainless Steel
- 1/4" Mounting Hole
- Neoprene Insert

Stainless Steel Tube Clamp 316

- Retaining clip for pipes, cables, cable harnesses, cable-protection pipes, hoses and other lines.
- 316 Stainless Steel Band/W5
- Reinforced Band End
- EPDM Rubber Cushion

Mount Hole	Band Size	Tube Size O.D.	Art. No.	P. Qty.	
3/8"	1/2"	1/4"	545.14	20	
		3/8"	545.38		
		1/2"	545.12		
		10	1/2"	5/8"	545.58
				3/4"	545.34
				1"	545.1
				1-1/4"	545.114
				1 1/2"	545.112
				2-1/2"	545.212
				2"	545.2
		5	1/2"	3"	545.3
				4"	545.4

Dia. in inches	Width	Art. No.	P. Qty.	
1/4"	1/2"	546.14	20	
3/8"		546.38		
1/2"		546.12	10	
20		1/2"	5/8"	546.58
			3/4"	546.34
10		1/2"	1"	546.1
			1-1/4"	546.114
			1-1/2"	546.112

Screw Size	Band Width	Clamping Range (mm)	Clamping Range (inch)	Art. No.
M5	12	45	1-3/4	546.45.12
M6	15	10	3/8	546.11.15
M6	15	14	9/16	546.14.15
M6	15	22	7/8	546.22.15
M6	15	25	1	546.25.15
M6	15	39	1-9/16	546.39.15
M6	15	45	1-3/4	546.45.15
M6	15	49	1-7/8	546.49.15
M6	15	56	2-3/16	546.56.15
M6	15	65	2-9/16	546.65.15
M6	15	80	3-5/32	546.80.15
M6	15	95	3-3/4	546.95.15
M8	20	29	13/16	546.29.20
M8	20	39	1-9/16	546.39.20
M8	20	80	3-5/32	546.80.20

ASSORTMENTS



Art. No. 964.542

Vulcanized Rubber Insert Pipe Clamp Assortment

Contents (73 Pieces):

12 assorted sizes, size range M3-M30



Art. No. 965.HC9

Two Ear Hose Clamp Assortment

Contents (226 pieces):

9 sizes of two ear clamps, and one pair of 11" tower pincers.



Art. No. 965.545

Clamps with Vulcanized Rubber Assortment

Contents (110 pieces)

NPT/SAE GREASE FITTINGS



Art. No. 987.14.10

1/4\"-28, Straight - S.A.E.
Self Tapping, Overall Length:
9/16"



Art. No. 987.14.11

1/4\"-28, Straight - S.A.E.
Thread Length: 7/32", Overall
Length: 9/16"



Art. No. 987.14.12

1/4\"-28, Straight - S.A.E.
Overall Length: 15/16"



Art. No. 987.14.13

1/4\" - 28, 45° Angle - S.A.E.
Thread Length: 29/32",
Overall Length: 27/32"



Art. No. 987.14.14

1/4\" - 28, 45° Angle - S.A.E.
Long Grip Range, Taper Tread
Overall Length: 63/64"



Art. No. 987.14.15

1/4\" - 28, 90° Angle - S.A.E.
Thread Length: 45/64"
Overall Length: 3/4"



Art. No. 987.18.20

1/8\" NPT - Straight
Overall Length: 5/8"



Art. No. 987.18.21

1/8\" NPT - 30° Angle
Overall length: 15/16"



Art. No. 987.18.22

1/8\" NPT - 45° Angle
Overall Length: 1"



Art. No. 987.18.24

1/8\" NPT - 90° Angle
Overall Length: 53/64"



Art. No. 987.14.20

1/4\" NPT - Straight
Overall Length: 53/64"



Art. No. 987.14.21

1/4\" NPT, 67 1/2° Angle
67-1/2° Angle
Overall Length: 1 1/16"



Art. No. 987.516.24

5/16\"-24 - Straight
Overall length: 5/8"



Art. No. 987.18.10

1/8\" NPT - Straight
Overall length: 1 1/4"

GREASE NIPPLES

DIN 71412 A, B, C, Steel galvanized, blue passivated



DIN	Thread	Thread length (mm)	Total length (mm)	Size (mm)	Art. No.
71412 A	M6 x 1	4.0	14	7	986.40
	M8 x 1	5.4	16	9	986.41
	M8 x 1.25	5.4	16	9	986.135
	M10 x 1	5.4	16	11	986.42
	M10 x 1.5	5.4	16	11	986.136
	1/8"	5.4	16	11	986.43
	1/4"	6.5	19.5	14	986.44
3/8"	6.5	19.5	17	986.45	

Conical Nipples



DIN	Lug ø mm	Lug length (mm)	Total length (mm)	Art. No.
71412 A	6	5.4	14	986.46
	8	5.4	15	986.47

Conical Knock-In Nipples



DIN	Thread	Thread length (mm)	Total length (mm)	Size (mm)	Art. No.
71412 B	M6 x 1	5.5	20	9	986.50
	M8 x 1	5.5	20	9	986.51
	M10 x 1	5.0	20	11	986.52

45° Conical Nipples



DIN	Thread	Thread length (mm)	Total length (mm)	Size (mm)	Art. No.
71412 C	M6 x 1	5.5	18	9	986.60
	M8 x 1	5.5	18	9	986.61
	M10 x 1	6.0	18	11	986.62

90° Conical Nipples

ASSORTMENTS



Art. No. 965.986987

Grease Fitting Assortment
Contents (220 Pieces)
 Metric and standard fittings

LINE AND TEE CONNECTORS (NYLON) AND VACUUM CAPS



Straight Barbed Hose Connector

Art. No. 885.10 + size



Straight Barbed Hose Connector Reducer

Art. No. 885.30.1 - (1/4-3/16")
Art. No. 885.30.2 - (3/8-1/4")



Straight Hose Connector Reducer - 3/16 to 1/8. GM/FORD/CHRYSLER Products

Art. No. 885.316.18



Straight Hose Connector Reducer - 1/4 to 3/16. All GM Products

Art. No. 885.30.3



Tee Hose Connector - equal diameter all ends

Art. No. 885.20 + size



Tee Hose Connector 2 x 1/4" ends, 1 x 3/16" end. All GM Products

Art. No. 885.316.14



Universal Break-Off Tee For 1/8", 1/4" and 3/8" tubing

Art. No. 885.50.1



Universal Straight Connector For 1/8", 1/4" and 3/8" tubing

Art. No. 885.50.2

Vacuum Cap



Fits Tube O.D.	Inside Length	Art. No.	P. Qty.
1/8"	9/16"	801.818	20
3/16"	9/16"	801.836	
1/4"	9/16"	801.814	
5/16"	1-1/4"	801.856	
3/8"	31/32"	801.838	

Can be used for capping lines and hoses while testing carburetors, emission control systems, vacuum lines, etc.

ASSORTMENTS



Art. No. 965.885

Vacuum Cap & Tee Connector Assortment

Contents (132 Pieces):

13 Assorted sizes

FUEL LINE & WINDSHIELD WASHER/VACUUM TUBING



Flexible Transparent Hose

- PVC with special interior coating
- Made of flexible type, transparent PVC
- Operating Pressure: 142.2 psi
- Bursting Pressure: 256 psi
- Temperature after installation: +65° C

Length (m)	Inside Dia. (mm)	Wall Thick. (mm)	Overall Thick. (mm)	Art. No.
15 m	4	1.0	6.0	895.4
	5	1.2	7.4	895.5
	6		8.4	895.6
	8	1.5	11.0	895.8



Fuel Line/Evaporative Hose S.A.E. 30R7

- Features a nitrile tube with a CSM cover to withstand oil, grease, abrasion and ozone
- Temperature ranges from -34 °C to 125 °C (-29 °F to 257 °F)
- Meets all O.E.M. specifications
- Handles most modern fuels in automobiles, trucks, buses, etc.
- Bursting Pressure: 250 psi

Diameter (inches)	Diameter (mm)	Art. No.
1/4	6.3	897.502
5/16	8	897.503
3/8	10	897.504



Textile Braided Repair Line

- For non-fuel carrying applications
- Hose of synthetic rubber (NBR) with vulcanized-on outer twine braiding.
- Material: NBR/braiding
- Operating Pressure: 175 psi
- Bursting Pressure: 720 psi
- Test Pressure: 360 psi
- -20 °C to +70 °C

Areas of Application:

Can be used as leak-oil line in motor vehicle applications.

Inside Dia. (mm)	Wall Thickness (mm)	Overall Thickness (mm)	Art. No.
3.2	1.9	7.0	895.132
3.5	2.0	7.5	895.135
5.0	2.5	10.0	895.150
5.5		10.5	895.155
7.0		12.0	895.170
7.5		12.2	895.175



Windshield Washer & Vacuum Tubing S.A.E. J1037

- Low pressure tubing for windshield washer, vacuum operated accessories, and emission control applications
- Will not deteriorate from heat, weathering or ozone
- Maintains its flexibility even at low temperatures
- Meets all O.E.M. specifications
- Bursting Pressure: 100 psi
- Temperature resistance: -40° C to +125° C -40° F to + 257° F

Diameter (inches)	Diameter (mm)	Art. No.
3/32	2.381	897.3338
7/64	2.8	897.3339
5/32	4	897.3340
7/32	6.6	897.3341
9/32	7	897.3342

FUEL INJECTION HOSE



Designed for the extremely high temperatures generated by today's fuel injected engines.

- Temperature range of -34 °C to +125 °C (-30 °F to +257 °F), (150 °C/302 °F intermittent) with a burst pressure rating of 900 psi
- This special hose handles leaded, unleaded, alcohol-added, diesel and extended gasolines, resisting sour gas oxidation

Temperature range	-34°C to 125°C (-30°F + 257°F)
Burst pressure rating	up to 900 psi
Application	Fuel line
Style	Fuel injection (S.A.E. 30R9)
Color	Black
Tube construction	Fluoroelastomer
Reinforcement construction	Two-spiral polyester
Cover construction	CSM

Size	Art. No.
1/4"x10'	897.602
5/16"x10'	897.603
3/8"x10'	897.604

FUEL HOSE RACK WITH PRODUCT



Domestic Fuel Hose Rack Empty
Art. No. 966.810110

Art. No. 895.010

Contents:

3 fuel hose rolls:

- 1/4" (6.3 mm), Art. No. 897.502
- 5/16" (7.9 mm), Art. No. 897.503
- 3/8" (9.5 mm), Art. No. 897.504

3 windshield wiper/washer vacuum tubing rolls:

- 5/32" (4mm), Art. No. 897.3340
- 7/32" (6 mm), Art. No. 897.3341
- 9/32" (7 mm), Art. No. 897.3342

Dimensions: 58 cm x 34 cm x 32 cm

SILICONE HEATER HOSE



- Resistant to cracking, peeling, ozone and aging
- Temperature resistant from -54 °C to +177 °C (-65 °F to +350 °F)
- S.A.E. J20 R3 Class A certified
- Single ply silicone polyester braid, reinforced tube with blue cover

Applications:

- Heavy duty truck and bus engines
- Buses
- Vehicles with diesel engines
- For use in high vibration, hot and cold air aspiration units
- Ideal for heavy duty pressure connections in hostile engine environments, extreme temperature and various pressure ranges where high performance levels are required

Size	Hose I.D.		Hose O.D.		Min. Burst Pressure		Art. No.	P. Qty.
	mm	in	mm	in	bar	PSI		
5/8"	16.00	0.63	23.60	0.93	17	250	897.8158	25'
3/4"	19.10	0.75	27.20	1.07	14	200	897.8134	
1"	22.40	0.88	31.50	1.24	14	200	897.8111	

STANDARD HEATER HOSE



Thermoid EPDM (Ethylene/Propylene Rubber Compound) hose is designed to withstand the super-high heat and ozone conditions found in today's emission controlled automobiles and trucks.

All meet or exceed S.A.E. 20R3 Specifications

Red Premium - S.A.E. 20R3 D2 Heater Hose

- For higher under hood temperatures up to 121 °C (250 °F)
- Withstands the abuse of additives, heat and ozone
- Designed for cosmetic reasons, to make the hose stand out under the hood

Characteristics:

Branding: White Ink, Thermoid, I.D. Spec. O.E.M. Heater Hose
Reinforcement: 2 spiral polyester yarn

Black Standard Grade O.E.M Heater Hose

- For under hood temperatures up to 100 °C (212 °F)
- Withstands the abuse of additives, heat and ozone

Characteristics:

Branding: Yellow Ink; Thermoid, I.D. Spec. O.E.M. Heater Hose
Hose Reinforcement: 2 spiral polyester yarn

Inside Diameter (inches)	Working Pressure (psi)	Bursting Pressure (psi)	Length (feet)	Art. No.
1/2	50	250	50	897.7112
5/8				897.7158
3/4				897.7134

Inside Diameter (inches)	Working Pressure (psi)	Bursting Pressure (psi)	Length (feet)	Art. No.
5/8	50	140	50	895.1826
3/4				895.1827

BRASS J.I.C. 37° FLARE



Union Coupling	
Tube	Art. No.
1/4	884.3742-4
1/2	884.3742-8



Connector Tube to Male Pipe		
Tube	Pipe	Art. No.
1/4	1/8	884.3748-4A
	1/4	884.3748-5A
5/16	1/8	884.3748-5A
	1/4	884.3748-5B
3/8	1/4	884.3748-6B



45° Elbow Tube to Male Pipe		
Tube	Pipe	Art. No.
3/8	1/4	884.3754-6B
1/2	3/8	884.3754-8C

BRASS S.A.E 45° FLARE



Sealing Cap Nut	
Tube	Art. No.
1/4	884.56-4
3/8	884.56-6
1/2	884.56-8
5/8	884.56-10



Milled Nut Short Type		
Tube	Length	Art. No.
3/8	7/8	884.415-6



Sealing Plug	
Tube	Art. No.
1/4	884.58-4
5/16	884.58-5
3/8	884.58-6
1/2	884.58-8
5/8	884.58-10



Union Coupling Tube to Tube	
Pipe	Art. No.
1/8	884.42-2
3/16	884.42-3
1/4	884.42-4
5/16	884.42-5
3/8	884.42-6
1/2	884.42-8
5/8	884.42-10
3/4	884.42-12



Connector Tube to Male Pipe		
Tube	Pipe	Art. No.
3/16	1/8	884.48-3A
	1/4	884.48-4A
1/4	1/4	884.48-4B
	1/2	884.48-4D
5/16	1/4	884.48-5B
	1/8	884.48-6A
3/8	1/4	884.48-6B
	3/8	884.48-6C
	1/2	884.48-6D
1/2	1/4	884.48-8B
	3/8	884.48-8C
	1/2	884.48-8D
5/8	3/8	884.48-10C
	1/2	884.48-10D
3/4	1/2	884.48-12D



90° Elbow Tube to Male Pipe		
Tube	Pipe	Art. No.
1/4	1/8	884.49-4A
	1/4	884.49-4B
	3/8	884.49-4C
5/16	1/8	884.49-5A
	1/4	884.49-6B
3/8	3/8	884.49-6C
	1/2	884.49-6D
	1/4	884.49-8B
1/2	3/8	884.49-8C
	1/2	884.49-8D
5/8	3/8	884.49-10C
	1/2	884.49-10D
3/4	1/2	884.49-12D
	3/8	884.49E-6B*



45° Elbow Tube to Male Pipe		
Tube	Pipe	Art. No.
1/4	1/8	884.54-4A
	1/4	884.54-4B
3/8	1/4	884.54-6B
	3/8	884.54-6C
1/2	3/8	884.54-8C
	1/2	884.54-8D
5/8	1/2	884.54-10D

BRASS S.A.E. 45° INVERTED FLARE



Specialty Nuts Japanese Standard		
Tube	Thread	Art. No.
3/16	M10 x 1.0	884.SJ141-3



Steel nut long style	
Tube	Art. No.
3/16	884.SL141-3
1/4	884.SL141-4



Steel nut long style Japanese Standard		
Tube	Thread	Art. No.
3/16	M10 x 1.0	884.SLJ141-3



Fuel Line Nut GM		
Tube	Thread	Art. No.
5/16	14mm x 1.5	884.SFL514MM
3/8	16mm x 1.5	884.SFL616MM



Union Coupling-Tube to Tube European Standard		
Tube	Thread	Art. No.
3/16	10 x 1.0 (Bubble Flare)	884.142EU-3



Union Coupling-Tube to Tube Japanese Standard Union		
Tube	Thread	Art. No.
3/16	10 x 1.0	884.142JA-3



Adapter-Tube to Tube European Standard		
Tube	Thread	Art. No.
3/16	10 x 1.0 (Bubble Flare)	884.5E143-3



Sealing Plug	
Tube	Art. No.
3/16	884.PL141-3



Union Coupling Tube to Tube	
Tube	Art. No.
3/16	884.142-3
1/4	884.142-4
5/16	884.142-5
3/8	884.142-6



Brass Nut	
Tube	Art. No.
3/16	884.141-3
1/4	884.141-4
5/16	884.141-5
3/8	884.141-6



90° Elbow Tube to Male Pipe		
Tube	Pipe	Art. No.
1/4	1/4	884.149-4B
5/16	1/8	884.149-5A
3/8	3/8	884.149-6C
1/2	3/8	884.149-8C
	1/2	884.149-8D



Specialty Nuts European Standard		
Tube	Thread	Art. No.
3/16	M10 x 1.0	884.S141-3
	M11 x 1.5	884.5E141311M
	M12 x 1.0	884.5E141312M
	M13 x 1.5	884.5E141313M

* Plating may vary due to availability



Adapter tube to tube Japanese Standard		
Tube	Thread	Art. No.
3/16	10 x 1.0	884.SJ143-3



Connector Tube to Male Pipe		
Tube	Pipe	Art. No.
3/16	1/8	884.148-3A
	1/8	884.148-4A
1/4	1/4	884.148-4B
	1/4	884.148-5B



45° Elbow Tube for Male Pipe		
Tube	Thread	Art. No.
3/8	1/4	884.154-6B



Steel Nut		
Tube	Thread	Art. No.
1/8	5/16-28	884.S141-2
3/16	3/8-24	884.S141-3
3/16	7/16-24	884.S141-3716
3/16	1/2-20	884.S141-31/2
3/16	9/16-18	884.S141-3916
1/4	7/16-24	884.S141-4
1/4	1/2-20	884.S141-41/2
1/4	9/16-18	884.S141-4916
5/16	1/2-20	884.S141-5
3/8	5/8-18	884.S141-6

BRASS COMPRESSION FITTINGS



Standard Sleeve	
Tube	Art. No.
1/8	884.60-2
3/16	884.60-3
1/4	884.60-4
3/8	884.60-6
1/2	884.60-8



Standard Nut	
Tube	Art. No.
3/16	884.61-3
1/4	884.61-4
5/16	884.61-5
3/8	884.61-6



Union Coupling	
Tube	Art. No.
1/8	884.62-2
3/16	884.62-3
1/4	884.62-4
5/16	884.62-5
3/8	884.62-6
1/2	884.62-8
5/8	884.62-10



Tee Tube Three Ends	
Tube	Art. No.
1/4	884.64-4
3/8	884.64-6



Connector Tube to Male Pipe		
Tube	Pipe	Art. No.
1/4	1/8	884.68-4A
	1/4	884.68-4B
5/16	1/8	884.68-5A
	1/4	884.68-6A
3/8	1/4	884.68-6B
	3/8	884.68-6C
	1/2	884.68-6D
1/2	3/8	884.68-8C



* Style may vary due to availability

90° Elbow Tube to Male Pipe		
Tube	Pipe	Art. No.
1/8	1/8	884.69-2A
	1/4	884.69-4A
1/4	1/4	884.69-4B
	1/2	884.69-6B
3/8	1/2	884.69-6D
	3/8	884.69-8C

BRASS FITTINGS (FOR POLY TUBING)



Brass Insert	
Tube	Art. No.
.125	884.481-4H
.250	884.481-6
.375	884.481-8
.500	884.481-10

BRASS AIR SHIF TRANSMISSION FITTINGS



Sleeve	
Tube	Art. No.
1/8	884.860-2
5/32	884.860-2-1/2



Nut	
Tube	Art. No.
1/8	884.861-2
5/32	884.861-2-1/2



Union Coupling	
Tube	Art. No.
5/32	884.862-2-1/2



Connector Tube to Male Pipe		
Tube	Pipe	Art. No.
1/8	1/16	884.868-2-1
1/8	1/8	884.868-2A
5/32	1/8	884.868-2-1/2



90° Elbow Tube to Male Pipe		
Tube	Pipe	Art. No.
1/8	1/8	884.869-2A
5/32		884.869-2-1/2

* Style may vary due to availability

BRASS PUSH-TO-CONNECT FITTINGS



Union Coupling	
Tube	Art. No.
1/8	884.PC62-2
1/4	884.PC62-4
3/8	884.PC62-6



Connector Tube to Male Pipe		
Tube	Pipe	Art. No.
1/8	1/8	884.PC68-2A
	1/4	884.PC68-4A
3/8	3/8	884.PC68-6C
	1/2	884.PC68-6D
1/2	3/8	884.PC68-8C
	1/2	884.PC68-8D



90° Elbow Tube to Tube	
Tube	Art. No.
1/8	884.PC65-2
5/32	884.PC65-2-1
3/8	884.PC65-6



90° Elbow Tube to Male Pipe		
Tube	Pipe	Art. No.
1/8	1/8	884.PC69-2A
	1/4	884.PC69-4A
3/8	3/8	884.PC69-4C
	1/4	884.PC69-6B
3/8	1/4	884.PC69-6C
	3/8	884.PC69-6C



90° Elbow Tube to Male Pipe Swivel		
Tube	Pipe	Art. No.
5/32	1/8	884.PC69SW212
3/8	1/4	884.PC69SW-6B

BRASS PIPE FITTINGS



Close Nipple	
Pipe	Art. No.
1/8	884.112-A
1/4	884.112-B
3/8	884.112-C
1/2	884.112-D
3/4	884.112-E



Hex Nipple	
Pipe	Art. No.
1/8	884.122-A
1/4	884.122-B
3/8	884.122-C
1/2	884.122-D
3/4	884.122-E
Reducing	
1/4 to 1/8	884.122-BA
3/8 to 1/8	884.122-CA
3/8 to 1/4	884.122-CB
1/2 to 3/8	884.122-DC
3/4 to 1/2	884.122-ED



Bushing	
Pipe	Art. No.
1/4 to 1/8	884.110-BA
3/8 to 1/8	884.110-CA
3/8 to 1/4	884.110-CB
1/2 to 1/8	884.110-DA
1/2 to 1/4	884.110-DB
1/2 to 3/8	884.110-DC
3/4 to 1/4	884.110-EB
3/4 to 3/8	884.110-EC
3/4 to 1/2	884.110-ED
1 to 3/4	884.110-HE



Adapter	
Pipe	Art. No.
1/8 to 1/8	884.120-AA
1/4 to 1/4	884.120-BB
3/8 to 3/8	884.120-CC
1/2 to 1/2	884.120-DD
1/4 to 1/8	884.120-BA
3/8 to 1/8	884.120-CA
3/8 to 1/4	884.120-CB
1/2 to 1/4	884.120-DB
1/2 to 3/8	884.120-DC
3/4 to 3/8	884.120-EC
3/4 to 1/2	884.120-ED



Long Nipple		
Length	Pipe	Art. No.
1 1/2	1/8	884.113A1-1/2
2		884.113-A2
3		884.113-A3
1 1/2	1/4	884.113-B1-1
2		884.113-B2
3		884.113-B3
1 1/2	3/8	884.113-C1-1
2		884.113-C2
3		884.113-C3
2	1/2	884.113-D2
2 1/2		884.113-D2-1
3		884.113-D3



Reducing Coupling	
Pipe	Art. No.
1/4 to 1/8	884.119-BA
3/8 to 1/8	884.119-CA
3/8 to 1/4	884.119-CB
1/2 to 1/4	884.119-DB
1/2 to 3/8	884.119-DC



Coupling	
Pipe	Art. No.
1/8	884.103E-A
1/4	884.103E-B
3/8	884.103E-C
1/2	884.103E-D
3/4	884.103E-E



Plug Square Head	
Pipe	Art. No.
1/8	884.109-A
1/4	884.109-B
3/8	884.109-C
1/2	884.109-D
3/4	884.109-E



Plug Slotted	
Pipe	Art. No.
1/8	884.117-A



Plug Hex Head	
Pipe	Art. No.
cored 1/8	884.121-A
cored 1/4	884.121-B
cored 3/8	884.121-C
cored 1/2	884.121-D
cored 3/4	884.121-E

BRASS PIPE FITTINGS



Extruded 90° Street Elbow	
Pipe	Art. No.
1/8	884.X115-A
1/4	884.X115-B
3/8	884.X115-C
1/2	884.X115-D
3/4	884.X115-E



Extruded 90° Elbow	
Pipe	Art. No.
1/8	884.X100-A
1/4	884.X100-B
3/8	884.X100-C
1/2	884.X100-D



Extruded 45° street Elbow	
Pipe	Art. No.
1/8	884.X124-A
1/4	884.X124-B
3/8	884.X124-C
1/2	884.X124-D
3/4	884.X124-E



Extruded Tee	
Pipe	Art. No.
1/8	884.X101-A
1/4	884.X101-B
3/8	884.X101-C
1/2	884.X101-D



Plug Hex Countersunk	
Pipe	Art. No.
1/8	884.118-A
1/4	884.118-B
3/8	884.118-C
1/2	884.118-D
3/4	884.118-E



Extruded Male Branch Tee	
Pipe	Art. No.
1/8	884.X106-A
1/4	884.X106-B



Forged Street Tee	
Pipe	Art. No.
1/8	884.107-A
1/4	884.107-B



Extruded Street Tee	
Pipe	Art. No.
1/8	884.X107-A
1/4	884.X107-B
3/8	884.X107-C
1/2	884.X107-D



Cap	
Pipe	Art. No.
1/8	884.108-A
1/4	884.108-B
3/8	884.108-C
1/2	884.108-D
3/4	884.108-E

* Square countersunk

BRASS D.O.T. AIR BRAKE FITTINGS FOR S.A.E. J844D NYLON TUBING COMPLETE WITH FIXED INSERTS 1/2



Brass Insert		
Tube	Art. No.	
.078	884.1481-2	
.170	884.1481-4	
.232	884.1481-5	
.250	884.1481-6	
.375	884.1481-8	
.440	884.1481-10	
.566	884.1481-12	



Sleeve		
Tube	Art. No.	
1/4	884.1460-4	
3/8	884.1460-6	
1/2	884.1460-8	
5/8	884.1460-10	
3/4	884.1460-12	



Nut		
Tube	Art. No.	
1/4	884.1461-4	
3/8	884.1461-6	
1/2	884.1461-8	
5/8	884.1461-10	
3/4	884.1461-12	



Bulkhead Union		
Tube	Art. No.	
1/4	884.1477-4	
3/8	884.1477-6	



Connector Tube to Female Pipe		
Tube	Pipe	Art. No.
1/4	1/8	884.1466-4A
	1/4	884.1466-4B
3/8	1/4	884.1466-6B
	3/8	884.1466-6C
1/2	3/8	884.1466-8C
3/4	1/2	884.1466-12D

* Style may vary due to availability



Connector Tube to male Pipe		
Tube	Pipe	Art. No.
1/4	1/8	884.1468-4A
	1/4	884.1468-4B
	3/8	884.1468-4C
3/8	1/8	884.1468-6A
	1/4	884.1468-6B
	3/8	884.1468-6C
1/2	1/2	884.1468-6D
	1/4	884.1468-8B
	3/8	884.1468-8C
1/2	1/2	884.1468-8D
	3/4	884.1468-8E
	5/8	884.1468-10C
3/4	3/8	884.1468-10C
	1/2	884.1468-10D
	1/2	884.1468-12D
3/4	1/2	884.1468-12D
	3/4	884.1468-12E



90° Elbow Tube to Tube		
Tube	Art. No.	
1/4	884.1465-4	
3/8	884.1465-6	
1/2	884.1465-8	
5/8	884.1465-10	

* Style may vary due to availability



90° Elbow Tube to Male Pipe		
Tube	Pipe	Art. No.
1/4	1/8	884.1469-4A
	1/4	884.1469-4B
	3/8	884.1469-4C
3/8	1/8	884.1469-6A
	1/4	884.1469-6B
	3/8	884.1469-6C
1/2	1/2	884.1469-6D
	1/4	884.1469-8B
	3/8	884.1469-8C
1/2	1/2	884.1469-8D
	3/8	884.1469-10C
	5/8	884.1469-10D
3/4	1/2	884.1469-12D
	3/4	884.1469-12E



Tee Ends Tube and Male Pipe Centre Tube		
Tube	Pipe	Art. No.
1/4	1/8	884.1471-4A
	1/4	884.1471-4B
3/8	1/4	884.1471-6B
	3/8	884.1471-6C
1/2	3/8	884.1471-8C
	1/2	884.1471-8D



Tee Ends Tube Centre Male Pipe		
Tube	Pipe	Art. No.
1/4	1/8	884.1472-4A
	1/4	884.1472-4B
3/8	1/8	884.1472-6A
	1/4	884.1472-6B
1/2	3/8	884.1472-6C
	1/2	884.1472-8C
1/2	1/2	884.1472-8D

* Style may vary due to availability



45° Elbow Tube to Male Pipe		
Tube	Pipe	Art. No.
1/4	1/8	884.1474-4A
	1/4	884.1474-4B
3/8	1/4	884.1474-6B
	3/8	884.1474-6C
1/2	3/8	884.1474-8C
	1/2	884.1474-8D
5/8	1/2	884.1474-10D

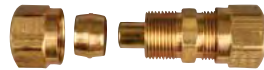


Tee Tube Three Ends		
Tube	Art. No.	
1/4	884.1464-4	
3/8	884.1464-6	
1/2	884.1464-8	
5/8	884.1464-10	
3/4	884.1464-12	

BRASS PUSH-TO-CONNECT D.O.T. AIR BRAKE FITTINGS FOR S.A.E. J844D NYLON TUBING



Union Coupling		
Tube		Art. No.
5/32		884.PC1462-5/
1/4		884.PC1462-4
3/8		884.PC1462-6
1/2		884.PC1462-8
5/8		884.PC1462-10



Union Coupling		
Tube		Art. No.
1/4		884.1462-4
3/8		884.1462-6
1/2		884.1462-8
5/8		884.1462-10
3/4		884.1462-12



45° Elbow Tube to Male Pipe		
Tube	Pipe	Art. No.
1/4	1/4	884.PC1474-4B
		884.PC1474-6B
3/8		884.PC1474-6C
	3/8	884.PC1474-8C
1/2		



90° Elbow Tube to Female Pipe		
Tube	Pipe	Art. No.
1/4	1/8	884.PC1470-4A
3/8	3/8	884.PC1470-6C

* Style may vary due to availability



90° Elbow Tube to Male Pipe		
Tube	Pipe	Art. No.
5/32	1/8	884.PC1469-5/
1/4	1/8	884.PC1469-4A
1/4	1/4	884.PC1469-4B
1/4	3/8	884.PC1469-4C
3/8	1/8	884.PC1469-6A
3/8	1/4	884.PC1469-6B
3/8	3/8	884.PC1469-6C
1/2	3/8	884.PC1469-8C
1/2	1/2	884.PC1469-8D
5/8	1/2	884.PC1469-10D



Tee Ends Tube Centre Male Pipe		
Tube	Pipe	Art. No.
1/4	1/8	884.PC1472-4A
1/4	1/4	884.PC1472-4B
3/8	1/4	884.PC1472-6B
3/8	3/8	884.PC1472-6C
1/2	3/8	884.PC1472-8C



Connector Tube to Male Pipe		
Tube	Pipe	Art. No.
5/32	1/8	884.PC1468-5/
		884.PC1468-4A
1/4	1/4	884.PC1468-4B
	3/8	884.PC1468-4C
	1/8	884.PC1468-6A
3/8	1/4	884.PC1468-6B
	3/8	884.PC1468-6C
	1/2	884.PC1468-6D
1/2	1/4	884.PC1468-8B
	3/8	884.PC1468-8C
	1/2	884.PC1468-8D
5/8	3/8	884.PC1468-10
3/4	1/2	884.PC1468-12



Union Tee Tube Each End	
Tube	Art. No.
1/4	884.PC1464-4
3/8	884.PC1464-6
1/2	884.PC1464-8

* Style may vary due to availability



Tee Ends Tube and Male Pipe Centre Tube		
Tube	Pipe	Art. No.
3/8	1/4	884.PC1471-6B
1/2	3/8	884.PC1471-8C



90° Elbow Tube to Male Pipe Swivel		
Tube	Pipe	Art. No.
1/4	1/8	884.PC1469SW4
1/4	1/4	884.1469SW4B



Tee Ends Tube Centre Male Pipe Swivel		
Tube	Pipe	Art. No.
1/4	1/4	884.PC1472SW4



Run Tee Swivel		
Tube	Pipe	Art. No.
3/8	1/4	884.PC1471-6B



Tee Ends Tube Centre Female Pipe		
Tube	Pipe	Art. No.
1/4	1/8	884.PC1478-4A
		884.PC1478-4B
3/8	1/4	884.PC1478-6B



Branch Tee Swivel		
Tube	Pipe	Art. No.
1/4	1/8	884.PC147154A



Branch Tee Swivel		
Tube	Pipe	Art. No.
1/4	1/8	884.PC147254A



Run Tee Swivel		
Tube	Pipe	Art. No.
3/8	3/8	884.PC147156C

BRASS D.O.T. AIR BRAKE COUPLINGS AND TERMINAL BOLTS



Sleeve		
Hose I.D	Art. No.	
3/8	884.1490-6	
1/2	884.1490-8	



* Style may vary due to availability

Nut		
Hose I.D	Art. No.	
3/8	884.1491-6	
1/2	884.1491-8	



* Style may vary due to availability

Coupler Assembly (nut, sleeve and coupler)			
Hose I.D	Pipe	Art. No.	
3/8	1/4	884.1492-6B	
	3/8	884.1492-6C	
	1/2	884.1492-6D	
1/2	3/8	884.1492-8C	
	1/2	884.1492-8D	



* Style may vary due to availability

Swivel Coupler Assembly (Nut, Sleeve and Coupler)			
Hose I.D	Pipe	Art. No.	
3/8	3/8	884.1492SW-6C	
1/2		884.1492SW-8C	



* Style may vary due to availability

Hose Splicer		
Hose I.D	Art. No.	
3/8	884.1492-6S	
1/2	884.1492-8S	



Coupler Assembly with Spring Guard			
Hose I.D	Pipe	Art. No.	
3/8	1/4	884.1493-6B	
	3/8	884.1493-6C	
	1/2	884.1493-6D	
1/2	3/8	884.1493-8C	
	1/2	884.1493-8D	



Nut with Spring Hose Guard		
Hose I.D	Art. No.	
3/8	884.1494-6	



Terminal Bolt (brass)			
Female Pipe	Length (in)	Art. No.	
1/2 x 1/2	1 1/4	884.1495B-D	



Coupler			
Hose I.D	Pipe	Art. No.	
3/8	3/8	884.B1492-6C	
	1/2	884.B1492-6D	
	3/8	884.B1492-8C	



Hose connector for hab assemblies			
Hose I.D	Pipe	Art. No.	
3/8	3/8	884.4134-6C	

BRASS HOSE BARB FITTINGS



Coupler Hose Barb to Male Pipe			
Hose I.D	Pipe	Art. No.	
1/8	1/8	884.125-2A	
	1/8	884.125-4A	
1/4	1/4	884.125-4B	
	3/8	884.125-4C	
	1/2	884.125-4D	
5/16	1/8	884.125-5A	
	1/4	884.125-5B	
3/8	1/4	884.125-6B	
	3/8	884.125-6C	
	1/2	884.125-6D	
1/2	1/4	884.125-8B	
	3/8	884.125-8C	
5/8	1/2	884.125-8D	
		884.125-10D	
3/4	3/4	884.125-12D	
		884.125-12E	



Splicer Round Shoulder		
Hose I.D	Art. No.	
1/4	884.129R-4	
3/8	884.129R-6	
1/2	884.129R-8	



Splicer Hose Barb		
Hose I.D	Art. No.	
5/16	884.129-5	
5/8	884.129-10	
3/4	884.129-12	



Tee Hose Barb All Ends		
Hose I.D	Art. No.	
1/4	884.123-4	
5/16	884.123-5	
3/8	884.123-6	

BRASS FUEL LINE HOSE BARBS



Coupler Hose Barb to Male Pipe		
Hose I.D	Pipe	Art. No.
1/4	1/4	884.325-4B
3/4	1/2	884.325-12D

REUSABLE END FITTINGS



- For PTFE Hose

Female Swivel 45° S.A.E. Flare		
Hose I.D	Pipe	Art. No.
5/8	5/8	884.SR428-101

BRASS GRIP-TITE REUSABLE HOSE FITTINGS



Male Pipe		
Hose I.D	Pipe	Art. No.
1/4	1/8	884.725-4A
3/8	1/4	884.725-6B
	3/8	884.725-6C



45° S.A.E. Female Flare Swivel		
Tube	Hose I.D	Art. No.
3/8	1/4	884.728-66



Hose Splicer	
Hose I.D	Art. No.
1/4	884.729-4
3/8	884.729-6
1/2	884.729-8
5/8	884.729-10
3/4	884.729-12

BLACK IRON PIPE FITTINGS



Close Nipple	
Pipe Size	Art. No.
1/8	885.BI-112-A
1/4	885.BI-112-B
3/8	885.BI-112-C
1/2	885.BI-112-D
3/4	885.BI-112-E
1	885.BI-112-H



Coupling	
Pipe Size	Art. No.
1/8	885.BI-103-A
1/4	885.BI-103-B
3/8	885.BI-103-C
1/2	885.BI-103-D
3/4	885.BI-103-E
1	885.BI-103-H



Union	
Pipe Size	Art. No.
1/8	885.BI-104-A
1/4	885.BI-104-B
3/8	885.BI-104-C
1/2	885.BI-104-D
3/4	885.BI-104-E
1	885.BI-104-H



Steel merchant coupling	
Pipe Size	Art. No.
1/8	885.BI-103MCA
1/4	885.BI-103MCB
3/8	885.BI-103MCC
1/2	885.BI-103MCD
3/4	885.BI-103MCE
1	885.BI-103MCH



45° Elbow	
Pipe Size	Art. No.
1/8	885.BI-105-A
1/4	885.BI-105-B
3/8	885.BI-105-C
1/2	885.BI-105-D
3/4	885.BI-105-E
1	885.BI-105-H



45° STREET Elbow	
Pipe Size	Art. No.
1/8	885.BI-124-A
1/4	885.BI-124-B
3/8	885.BI-124-C
1/2	885.BI-124-D
1	885.BI-124-H
1 1/4	885.BI-124-HG



Tee	
Pipe Size	Art. No.
1/8	885.BI-101-A
1/4	885.BI-101-B
3/8	885.BI-101-C
1/2	885.BI-101-D
3/4	885.BI-101-E
1	885.BI-101-H
1 1/2	885.BI-101-HH



Reducing Tee			Art. No.
Pipe Size	1	2	
3/4	3/4	1/2	885.BI-101-ED
1	1	1/2	885.BI-101-HD
1	1	3/4	885.BI-101-HE
1	3/4	3/4	885.BI-101-HEE
1	3/4	1	885.BI-101-HEH
1	1/2	1/2	885.BI-101-HDD
1 1/2	1 1/2	1 1/2	885.BI-101-HH



Plug (Square Head)	
Pipe Size	Art. No.
1/8	885.BI-109-A
1/4	885.BI-109-B
3/8	885.BI-109-C
1/2	885.BI-109-D
3/4	885.BI-109-E
1	885.BI-109-H
1 1/4	885.BI-109-HG
1 1/2	885.BI-109-HH



Cap	
Pipe Size	Art. No.
1/8	885.BI-108-A
1/4	885.BI-108-B
3/8	885.BI-108-C
1/2	885.BI-108-D
3/4	885.BI-108-E
1	885.BI-108-H
1 1/4	885.BI-108-HG
1 1/2	885.BI-108-HH



90° Elbow	
Pipe Size	Art. No.
1/8	885.BI-100-A
1/4	885.BI-100-B
3/8	885.BI-100-C
1/2	885.BI-100-D
3/4	885.BI-100-E
1	885.BI-100-H
1 1/4	885.BI-100-HG
1 1/2	885.BI-100-HH



Reducing 90° Elbow	
Pipe Size	Art. No.
1/4 to 1/8	885.BI-100-BA
3/8 to 1/4	885.BI-100-CB
1/2 to 1/4	885.BI-100-DB
1/2 to 3/8	885.BI-100-DC
3/4 to 3/8	885.BI-100-EC
3/4 to 1/2	885.BI-100-ED
1 to 1/2	885.BI-100-HD
1 to 3/4	885.BI-100-HE



90° Street Elbow	
Pipe Size	Art. No.
1/8	885.BI-116-A
1/4	885.BI-116-B
3/8	885.BI-116-C
1/2	885.BI-116-D
3/4	885.BI-116-E
1	885.BI-116-H
1 1/4	885.BI-116-HG
1 1/2	885.BI-116-HH



Cross	
Pipe Size	Art. No.
1	885.BI-102-H

BLACK IRON PIPE FITTINGS



Long Nipple		
Length	Pipe	Art. No.
2	1/8	885.BI-113-A2
3		885.BI-113-A3
2	1/4	885.BI-113-B2
3		885.BI-113-B3
2	3/8	885.BI-113-C2
3		885.BI-113-C3
2	1/2	885.BI-113-D2
3		885.BI-113-D3
1-1/2	3/4	885.BI-113-E11
2		885.BI-113-E2
3		885.BI-113-E3
4		885.BI-113-E4
2	1	885.BI-113-H2
2-1/2		885.BI-113-H21
3		885.BI-113-H3
3-1/2		885.BI-113-H31
4		885.BI-113-H4
4-1/2		885.BI-113-H41
5		885.BI-113-H5
6		885.BI-113-H6



Bushing	
Pipe Size	Art. No.
1/4 to 1/8	885.BI-110-BA
3/8 to 1/8	885.BI-110-CA
3/8 to 1/4	885.BI-110-CB
1/2 to 1/8	885.BI-110-DA
1/2 to 1/4	885.BI-110-DB
1/2 to 3/8	885.BI-110-DC
3/4 to 1/4	885.BI-110-EB
3/4 to 3/8	885.BI-110-EC
3/4 to 1/2	885.BI-110-ED
1 to 1/4	885.BI-110-HB
1 to 3/8	885.BI-110-HC
1 to 1/2	885.BI-110-HD
1 to 3/4	885.BI-110-HE
1 1/2 to 1/2	885.BI-110-HHD
1 1/2 to 3/4	885.BI-110-HHE
1 1/2 to 1	885.BI-110-HHF
1 1/2 to 1 1/4	885.BI-110-HHG



Reducing Coupling	
Pipe Size	Art. No.
1/4 to 1/8	885.BI-119-BA
3/8 to 1/8	885.BI-119-CA
3/8 to 1/4	885.BI-119-CB
1/2 to 1/4	885.BI-119-DB
1/2 to 3/8	885.BI-119-DC
3/4 to 1/8	885.BI-119-EA
3/4 to 1/4	885.BI-119-EB
3/4 to 3/8	885.BI-119-EC
3/4 to 1/2	885.BI-119-ED
1 to 1/4	885.BI-119-HB
1 to 3/8	885.BI-119-HC
1 to 1/2	885.BI-119-HD
1 to 3/4	885.BI-119-HE

STEEL 37° S.A.E. FLARE ADAPTERS



Cap Nut	
Tube	Art. No.
3/16	884.S3756-3
1/4	884.S3756-4
5/16	884.S3756-5
3/8	884.S3756-6
1/2	884.S3756-8
5/8	884.S3756-10
3/4	884.S3756-12
1	884.S3756-16



Tube Plug	
Tube	Art. No.
1/4	884.S3758-4
5/16	884.S3758-5
3/8	884.S3758-6
1/2	884.S3758-8
5/8	884.S3758-10
3/4	884.S3758-12
1	884.S3758-16
1-1/4	884.S3758-20

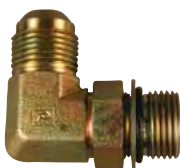


Union Tube to Tube		
Tube	Tube	Art. No.
3/8	3/8	884.S3742-6



90° Elbow Tube to Male Pipe		
Tube	Pipe	Art. No.
1/2	1/2	884.S3749-8D

STEEL S.A.E. O-RING BOSS ADAPTERS BUNA-N O-RING STANDARD



90° Elbow Tube to Male O-Ring		
Tube	O-Ring	Art. No.
1/2	3/4-16	884.S3649-8
5/8	7/8-14	884.S3649-10



45° Elbow Tube to Male O-Ring		
Tube	O-Ring	Art. No.
1/2	3/4-16	884.S3654-8

STEEL O-RING FACE SEAL ADAPTERS BUNA-N O-RING STANDARD



Plug O-Ring Face Seal	
ORFS	Art. No.
11/16-16	884.S3958-6

STEEL S.A.E. PIPE ADAPTERS



* Plating may vary due to availability

Coupling Female Both Ends		
Pipe	Pipe	Art. No.
1/8	1/8	884.S1003-A
1/4	1/4	884.S1003-B
3/8	3/8	884.S1003-C
3/8	1/4	884.S1003-CB
1/2	1/2	884.S1003-D
3/4	1/2	884.S1003-ED



* Plating may vary due to availability

Bushing Male to Female	
Pipe	Art. No.
1/4 x 1/8	884.S1010-BA
3/8 x 1/8	884.S1010-CA
3/8 x 1/4	884.S1010-CB
1/2 x 1/4	884.S1010-DB
1/2 x 3/8	884.S1010-DC
3/4 x 1/2	884.S1010-ED



Plug Hex head	
Pipe	Art. No.
1/8	884.S1021-A
1/4	884.S1021-B
3/8	884.S1021-C



Hex Nipple Male Both Ends	
Pipe	Art. No.
1/8	884.S1022-A
1/4	884.S1022-B
3/8	884.S1022-C
1/2	884.S1022-D
3/4	884.S1022-E

STEEL TERMINAL BOLTS



Terminal Bolt		
Length	Female Pipe	Art. No.
1-3/8	3/8 x 3/8	884.1495-C
1-1/2	1/4 x 1/4	884.1495-L
31/32		884.1495-S



Terminal Bolt		
Length	Pipe	Art. No.
2	1/2M x 3/8F	884.1496-DC



Terminal Bolt		
Length	Pipe	Art. No.
2-3/4	1/2M x 1/4F	884.1497-DB

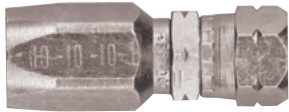


Swivel Connector		
Swivel	Pipe	Art. No.
3/8	3/8	884.S1120-CC
1/2	1/2	884.S1120-DD

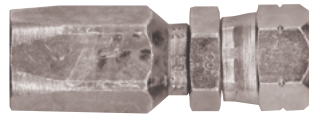


Grease Whip Coupler	
Pipe	Art. No.
1/8	884.GWC-A

STEEL REUSABLE HOSE ENDS



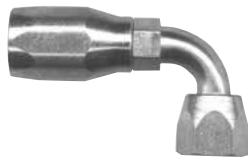
37° S.A.E. Female Flare (Swivel) (two piece style)		
Nominal Hose I.D.	Tube	Art. No.
1/4	1/4	884.SR538-44
5/16	5/16	884.SR538-55
3/8	3/8	884.SR538-66
1/2	1/2	884.SR538-88
5/8	5/8	884.SR538-101



45° S.A.E. Female Flare (Swivel)			
Nominal Hose I.D.	Actual Hose I.D.	Tube	Art. No.
1/4	3/16	1/4	884.SR528-44
3/8	5/16	3/8	884.SR528-66
1/2	13/32	1/2	884.SR528-88
5/8	1/2	5/8	884.SR528-101
3/4	5/8	3/4	884.SR528-121



90° Elbow 37° S.A.E. Female Flare (Swivel)		
Tube	Hose I.D.	Art. No.
3/8	3/8	884.SR539-66
1/2	1/2	884.SR539-88
5/8	5/8	884.SR539-101



90° Elbow 45° S.A.E. Female Flare (Swivel)		
Nominal Hose I.D.	Tube	Art. No.
1/4	1/4	884.SR541-44
3/8	3/8	884.SR541-66
1/2	1/2	884.SR541-88



45° Elbow 37° J.I.C. Female (Swivel)		
Tube	Hose I.D.	Art. No.
5/8	5/8	884.SR540-101

ASSORTMENTS



Art. No. 965.884440

Brass Push-To-Connect Air Brake Assortment Contents (47 Pieces)

Assorted brass push connect fittings (DOT)

PREMIUM TRUCKING BRASS ASSORTMENT



Art. No. 965.8843 - Brass Pieces Only.

Art. No. 965.88431 - Bin Label set, must be ordered separately

Contents: 712 pieces

Note: Requires any two 40 compartment ORSY bins. Must be ordered separately. Recommended Art. No. 966.3 x 2. ORSY agreement for bins must be obtained from customer!

Description	Art. No.	P. Qty.
103-A Pipe Coupling 1/8P	884.103E-A	10
103-B Pipe Coupling 1/4P	884.103E-B	10
103-C Pipe Coupling 3/8P	884.103E-C	5
103-D Pipe Coupling 1/2P	884.103E-D	5
110-BA Pipe Bushing 1/4Mp X 1/8Fp	884.110-BA	25
110-CA Pipe Bushing 3/8Mp X 1/8Fp	884.110-CA	10
110-CB Pipe Bushing 3/8Mp X 1/4Fp	884.110-CB	10
110-DB Pipe Bushing 1/2Mp X 1/4Fp	884.110-DB	5
110-DC Pipe Bushing 1/2Mp X 3/8Fp	884.110-DC	10
120-BA Pipe Adapter 1/4Fp X 1/8Mp	884.120-BA	10
120-CB Pipe Adapter 3/8Fp X 1/4Mp	884.120-CB	10
120-CC Pipe Adapter 3/8Fp X 3/8Mp	884.120-CC	5
120-DC Pipe Adapter 1/2Fp X 3/8Mp	884.120-DC	5
121-A Pipe Plug Hex Head Cored 1/8P	884.121-A	25
121-B Pipe Plug Hex Head Cored 1/4P	884.121-B	25
121-C Pipe Plug Hex Head Cored 3/8P	884.121-C	10
121-D Pipe Plug Hex Head Cored 1/2P	884.121-D	5
121-E Pipe Plug Hex Head Cored 3/4P	884.121-E	5
122-A Pipe Hex Nipple 1/8P	884.122-A	10
122-B Pipe Hex Nipple 1/4P	884.122-B	10
122-C Pipe Hex Nipple 3/8P	884.122-C	5
122-D Pipe Hex Nipple 1/2P	884.122-D	3
129R-4 Brass Coupler Splicer Rnd 1/4 Hose Id	884.129R-4	5

Description	Art. No.	P. Qty.
129R-6 Brass Coupler Splicer Rnd 3/8 Hose Id	884.129R-6	5
1460-10 Air Brake Sleeve For Nylon Dot 5/8T	884.1460-10	20
1460-4 Air Brake Sleeve For Nylon Dot 1/4T	884.1460-4	50
1460-6 Air Brake Sleeve For Nylon Dot 3/8T	884.1460-6	50
1460-8 Air Brake Sleeve For Nylon Dot 1/2T	884.1460-8	25
1461-10 Air Brake Nut For Nylon Dot 5/8T	884.1461-10	10
1461-4 Air Brake Nut For Nylon Dot 1/4T	884.1461-4	25
1461-6 Air Brake Nut For Nylon Dot 3/8T	884.1461-6	10
1461-8 Air Brake Nut For Nylon Dot 1/2T	884.1461-8	15
1462-10 Air Brake Coupling Dot Nylon 5/8T	884.1462-10	2
1462-4 Air Brake Coupling Dot Nylon 1/4T	884.1462-4	5
1462-6 Air Brake Coupling Dot Nylon 3/8T	884.1462-6	5
1462-8 Air Brake Coupling Dot Nylon 1/2T	884.1462-8	5
1468-10D Air Brake Connector Nylon 5/8T X 1/2P	884.1468-10D	2
1468-4A Air Brake Connector Nylon 1/4T X 1/8P	884.1468-4A	5
1468-4B Air Brake Connector Nylon 1/4T X 1/4P	884.1468-4B	5
1468-6B Air Brake Connector Nylon 3/8T X 1/4P	884.1468-6B	5
1468-6C Air Brake Connector Nylon 3/8T X 3/8P	884.1468-6C	5
1468-8C Air Brake Connector Nylon 1/2T X 3/8P	884.1468-8C	3
1468-8D Air Brake Connector Nylon 1/2T X 1/2P	884.1468-8D	5
1469-10D Air Brake 90Elbow Nylon 5/8T X 1/2P	884.1469-10D	2
1469-4A Air Brake 90Elbow Nylon 1/4T X 1/8P	884.1469-4A	5

Art. No. 965.8843 - Brass Pieces Only.

Art. No. 965.88431 - Bin Label set, must be ordered separately

Contents: 717 pieces

Note: Requires any two 40 compartment ORSY bins. Must be ordered separately. Recommended Art. No. 966.3 x 2. ORSY agreement for bins must be obtained from customer!

Description	Art. No.	P. Qty.
1469-4B air brake 90elbow nylon 1/4t x 1/4p	884.1469-4B	5
1469-6B air brake 90elbow nylon 3/8t x 1/4p	884.1469-6B	5
1469-6C air brake 90elbow nylon 3/8t x 3/8p	884.1469-6C	5
1469-8C air brake 90elbow nylon 1/2t x 3/8p	884.1469-8C	3
1469-8D air brake 90elbow nylon 1/2t x 1/2p	884.1469-8D	2
1471-6C air brake tee nylon 3/8t x 3/8p t to m c=	884.1471-6C	2
1472-6B air brake tee nylon 3/8t x 1/4p t to t c=m	884.1472-6B	2
1472-6C air brake tee nylon 3/8t x 3/8p t to t c=m	884.1472-6C	2
1474-4B air brake 45elbow 1/4t x 1/4p	884.1474-4B	5
1474-6B air brake 45elbow 3/8t x 1/4p	884.1474-6B	2
1474-6C air brake 45elbow 3/8t x 3/8p	884.1474-6C	2
1481-10 Air brake brass insert for nyl 0.440ld	884.1481-10	25
1481-4 Air brake brass insert for nyl 0.170ld	884.1481-4	50
1481-6 Air brake brass insert for nyl 0.250ld	884.1481-6	25
1481-8 Air brake brass insert for nyl 0.375ld	884.1481-8	25
1492-6C air brake coupler 3/8 hose id x 3/8p	884.1492-6C	3
1492-6S air brake coupler splicer 3/8 hose id	884.1492-6S	2
1492-8C air brake coupler 1/2 hose id x 3/8p	884.1492-8C	2

Description	Art. No.	P. Qty.
1492-8S air brake coupler splicer 1/2 hose id	884.1492-8S	2
1493-6C air brake coupler w spring 3/8 hid x 3/8p	884.1493-6C	3
1493-8C air brake coupler w spring 1/2 hid x 3/8p	884.1493-8C	3
1495-C air brake terminal bolt 3/8fpt x 1-3/8l	884.1495-C	3
1495-L air brake terminal bolt 1/4fpt x 1-1/2l	884.1495-L	3
2120-B shut off cock 1/4p f to m	884.2120-B	2
2120-C shut off cock 3/8p f to m	884.2120-C	2
862-2-1/2 Air shift coupling 5/32t	884.862-2-1/2	2
868-2-1/2-1 Air shift connector 5/32t x 1/16p	884.868-2-1/2	2
X115-a extruded pipe street 90elbow 1/8p	884.X115-A	10
X115-b extruded pipe street 90elbow 1/4p	884.X115-B	5
X115-c extruded pipe street 90elbow 3/8p	884.X115-C	3
X115-d extruded pipe street 90elbow 1/2p	884.X115-D	3
X124-a extruded pipe street 45elbow 1/8p	884.X124-A	5
X124-b extruded pipe street 45elbow 1/4p	884.X124-B	5
X124-c extruded pipe street 45elbow 3/8p	884.X124-C	5
X124-d extruded pipe street 45elbow 1/2p	884.X124-D	5

AIR BRAKE FITTING ASSORTMENT



Description	Art. No.	Qty.
Air Brake Sleeve 1/4"	884.1460-4	25
Air Brake Sleeve 3/8"	884.1460-6	25
Air Brake Sleeve 1/2"	884.1460-8	25
Air Brake Sleeve 5/8"	884.1460-10	25
Air Brake Nut 1/4"	884.1461-4	10
Air Brake Nut 3/8"	884.1461-6	10
Air Brake Nut 1/2"	884.1461-8	10
Air Brake Nut 5/8"	884.1461-10	5
Air Brake Union 1/4"	884.1462-4	5
Air Brake Union 3/8"	884.1462-6	5
Air Brake Union 1/2"	884.1462-8	5
Air Brake Union 5/8"	884.1462-10	5
1/4" Tube 1/4" Male Pipe Conn.	884.1468-4B	5
1/4" Tube 3/8" Male Pipe Conn.	884.1468-4C	5
3/8" Tube 1/4" Male Pipe Conn.	884.1468-6B	5

Art. No. 965.8841

Contents: 337 pieces

36 different sizes of Air brake fittings.
Comes complete with 36-compartment bin 966.1

Description	Art. No.	Qty.
3/8" Tube 3/8" Male Pipe Conn.	884.1468-6C	5
3/8" Tube 1/2" Male Pipe Conn.	884.1468-6D	5
1/2" Tube 1/4" Male Pipe Conn.	884.1468-8B	5
1/2" Tube 3/8" Male Pipe Conn.	884.1468-8C	5
5/8" Tube 1/2" Male Pipe Conn.	884.1468-10D	5
1/4" Tube To 1/8" Male Pipe 45° Elbow	884.1474-4A	2
3/8" Tube To 1/4" Male Pipe 45° Elbow	884.1474-6B	2
3/8" Tube To 3/8" Male Pipe 45° Elbow	884.1474-6C	2
1/2" Tube To 3/8" Male Pipe 45° Elbow	884.1474-8C	2
1/4" Tube 3/8" Male Pipe 90° Elbow	884.1469-4C	5
3/8" Tube 1/8" Male Pipe 90° Elbow	884.1469-6A	5
3/8" Tube 3/8" Male Pipe 90° Elbow	884.1469-6C	5
3/8" Tube 1/2" Male Pipe 90° Elbow	884.1469-6D	3
1/2" Tube 1/2" Male Pipe 90° Elbow	884.1469-8D	5
5/8" Tube 3/8" Male Pipe 90° Elbow	884.1469-10C	5
Tube 3 Way Tree 1/4"	884.1464-4	2
Tube 3 Way Tree 3/8"	884.1464-6	2
Brass Insert 1/4"	884.1481-4	25
Brass Insert 3/8"	884.1481-6	25
Brass Insert 1/2"	884.1481-8	25
Brass Insert 5/8"	884.1481-10	25

BRAKE PIPE FITTING ASSORTMENT



Size	Description	Art. No.	Qty
1/8"	Pipe Adapter	884.120-AA	5
1/4"	Pipe Adapter	884.120-BB	5
3/8"	Pipe Adapter	884.120-CC	5
1/8"	Extruded Pipe Street 45° Elbow	884.X124-A	2
1/4"	Extruded Pipe Street 45° Elbow	884.X124-B	2
3/8"	Extruded Pipe Street 45° Elbow	884.X124-C	5
1/2"	Extruded Pipe Street 45° Elbow	884.X124-D	2
1/8"	Pipe Coupling FPT	884.103E-A	5
1/4"	Pipe Coupling FPT	884.103E-B	5
3/8"	Pipe Coupling FPT	884.103E-C	5
1/2"	Pipe Coupling FPT	884.103E-D	2

Art. No. 965.8842

Contains: 173 pieces contained in Bin Art. No. 966.1

- An entry level brass fitting assortment.

Size	Description	Art. No.	Qty
1/4" - 1/8"	Pipe Bushing M/F	884.110-BA	10
3/8" - 1/8"	Pipe Bushing M/F	884.110-CA	5
3/8" - 1/4"	Pipe Bushing M/F	884.110-CB	5
1/2" - 1/8"	Pipe Bushing M/F	884.110-DA	5
1/2" - 1/4"	Pipe Bushing M/F	884.110-DB	5
1/2" - 3/8"	Pipe Bushing M/F	884.110-DC	2
1/8"	Extruded Pipe Street 90° Elbow	884.X115-A	5
1/4"	Extruded Pipe Street 90° Elbow	884.X115-B	5
3/8"	Extruded Pipe Street 90° Elbow	884.X115-C	5
1/2"	Extruded Pipe Street 90° Elbow	884.X115-D	2
1/8"	Pipe Close Nipple	884.112-A	10
1/4"	Pipe Close Nipple	884.112-B	10
3/8"	Pipe Close Nipple	884.112-C	5
1/2"	Pipe Close Nipple	884.112-D	2
1/8"	Pipe Hex Nipple	884.122-A	10
1/4"	Pipe Hex Nipple	884.122-B	10
3/8"	Pipe Hex Nipple	884.122-C	5
1/2"	Pipe Hex Nipple	884.122-D	2
1/8"	Pipe Plug Hex Head Cored	884.121-A	10
1/4"	Pipe Plug Hex Head Cored	884.121-B	10
3/8"	Pipe Plug Hex Head Cored	884.121-C	5
1/2"	Pipe Plug Hex Head Cored	884.121-D	2

AIR BRAKE TUBING



S.A.E. - J844D Nylon Air Brake Tubing

- Designed for use with truck, trailer and other mobile air brake and auxiliary systems
- Lightweight, flexible
- UV stabilized
- Resistant to abrasion, oil, grease and road salt
- Temperature rating: -40 °C to +93 °C (-40 °F to +200 °F)
- Meets D.O.T. F.M.V.S.S. 106
- 1/8" O.D. does not comply with D.O.T. F.M.V.S.S. 106

Note: S.A.E. does not recognize 5/32" O.D. for air brake systems

Colour	Tube OD	Wall Thickness	Working Pressure (PSI)	Roll Length	Art. No.
Black	1/8"	0.023"	250	100'	884.NT10002BK
Black	5/32"	0.036"	250		884.NT10003BK
Black	1/4"	0.040"	300		884.NT10004BK
Blue					884.NT10004BL
Green					884.NT10004GR
Orange					884.NT10004OR
Red					884.NT10004RD
Yellow					884.NT10004YE
Black	3/8"	0.062"	350		884.NT10006BK
Blue					884.NT10006BL
Green					884.NT10006GR
Orange					884.NT10006OR
Red				884.NT10006RD	
Yellow				884.NT10006YE	
Black	1/2"	0.062"	240	884.NT10008BK	
Blue				884.NT10008BL	
Green				884.NT10008GR	
Orange				884.NT10008OR	
Red				884.NT10008RD	
Black				5/8"	0.092"
Blue	884.NT10010BL				
Green	884.NT10010GR				
Orange	884.NT10010OR				

HOSES



S.A.E. - J1402 Rubber Air Brake Hose				
Inside Dia.	Outside Dia.	W.P.(P.S.I.)	Reel Length (ft.)	Art. No.
3/8	3/4	225	50	884.HAB-6-50
			250	884.HAB-6-250
			50	884.HAB-8-50
1/2	7/8		250	884.HAB-8-250

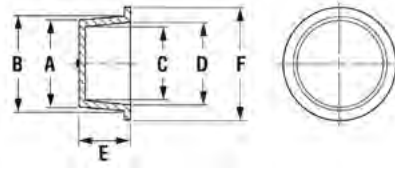


Truck Silicone Coolant Hose				
Actual I.D.	Hose O.D.	W.P. (P.S.I.)	Art. No.	Length
2-1/2"	2.90"	60	884.CHS-40-4	3 ft.
2-3/4"	3.15"		884.CHS-44-4	3 ft.
3"	3.40"	55	884.CHS-48-4	3 ft.



S.A.E. 100R5 Hydraulic HOSE						
Actual I.D. (IN.)	Working Press (P.S.I.)	Min Burst (P.S.I.)	Min. Bend Radius (P.S.I.)	Approx. Wgt./Ft (LBS)	Art. No.	Length
3/16	3,000	12,000	3.00	.16	884.HR5-4-CUT	25 ft.
5/16	2,250	9,000	4.00	.22	884.HR5-6-CUT	25 ft.
13/32	2,000	8,000	4.62	.27	884.HR5-8-CUT	25 ft.
1/2	1,750	7,000	5.50	.34	884.HR5-10-RE	25 ft.
5/8	1,500	6,000	6.50	.42	884.HR5-12-RE	25 ft.

CAPS AND PLUGS - TAPERED



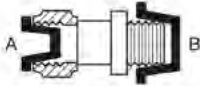
- For use with any brass or black iron pipe, engine / transmission work, or with hydraulic fittings
- Provides excellent protection against damage, dirt or moisture that occurs during manufacturing, storage or shipping
- Recommended for all threaded (Unified and NPT) and non-threaded internal and external fittings
- Tapered body provides firm friction fit when used as a cap or plug
- Secure fit, easy removal
- All caps/plugs are unthreaded

Technical Information	
Material	Low-density polyethylene
Colour	Orange
Applicable Spec	MIL-C-5501/7

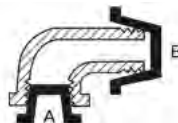
Note: When used as a Plug: 'B' dimension should be at least .020" larger than diameter to be plugged. Larger diameters may require more interference. When used as a Cap: 'C' dimension should be at least .020" less than diameter to be capped. Larger diameters may require more interference.

Plug			Cap			Dimensions												Art. No.	P. Qty.
Thread Sizes			Thread Sizes			To Plug				To Cap				E		F			
NPT/BSP	Standard	Metric	NPT/BSP	Standard	Metric	A		B		C		D		E		F			
						in	mm	in	mm	in	mm	in	mm	in	mm	in	mm		
-	5/16	M8x1	-	-	M5	.239	6.07	.303	7.7	.175	4.45	.239	6.07	.38	9.65	.47	11.94	823.6921236	100
1/8	-	-	-	-	-	.331	8.41	.397	10.08	.267	6.78	.333	8.46	.38	9.65	.56	14.22	823.6921229	
-	-	M12x1.25	-	3/8	-	.392	9.96	.459	11.66	.328	8.33	.395	10.03	.41	10.41	.59	14.99	823.6921239	
1/4	1/2	M14	1/8	-	M10x1.25	.422	10.72	.486	12.34	.358	9.09	.422	10.72	.41	10.41	.62	15.75	508.181	
-	-	M14x1.5	-	7/16	-	.448	11.38	.512	13.00	.384	9.75	.448	11.38	.41	10.41	.66	16.76	823.6921240	
-	-	M16	-	-	M12x1.25	.500	12.70	.568	14.43	.436	11.07	.504	12.80	.47	11.94	.72	18.29	823.6921892	
3/8	-	M18	-	9/16	-	.551	14.00	.633	16.08	.487	12.37	.569	14.45	.50	12.70	.78	19.81	823.6921188	
-	-	M18x1.5	-	5/8	M14x1.5	.580	14.73	.668	16.97	.518	13.16	.606	15.39	.53	13.46	.84	21.34	823.6921242	
-	-	-	-	-	-	.610	15.49	.695	17.65	.549	13.94	.634	16.10	.53	13.46	.84	21.34	823.6921422	
-	3/4	M20	-	-	-	.642	16.31	.729	18.52	.578	14.68	.665	16.89	.50	12.70	.88	22.35	823.6921243	
1/2	-	M22	-	-	-	.691	17.55	.787	19.99	.627	15.93	.723	18.36	.59	14.99	.94	23.88	823.6921203	50
-	-	M22x1.5	-	3/4	-	.727	18.47	.825	20.96	.663	16.84	.761	19.33	.59	14.99	1.00	25.40	823.6921245	
-	7/8	M24	-	-	M18x1.5	.752	19.10	.849	21.56	.688	17.48	.785	19.94	.59	14.99	1.00	25.40	823.6921246	
-	15/16	M24x2	1/2	-	-	.803	20.40	.912	23.16	.739	18.77	.848	21.54	.66	16.76	1.06	26.92	823.6921204	
3/4	-	-	-	-	-	.869	22.07	.973	24.71	.805	20.45	.909	23.09	.66	16.76	1.13	28.70	823.6921922	
-	1-1/16	M27x2	-	-	M22x1.5	.915	23.24	1.040	26.42	.855	21.72	.980	24.89	.72	18.29	1.16	29.46	823.6921248	25
-	-	-	3/4	-	M24x2	.967	24.56	1.092	27.74	.903	22.94	1.028	26.11	.78	19.81	1.25	31.75	823.6921249	
-	-	M30x2	-	1-1/16	-	.997	25.32	1.144	29.06	.933	23.70	1.080	27.43	.78	19.81	1.31	33.27	823.6921153	
1	1-1/4	M33	-	-	M27x2	1.093	27.76	1.219	30.96	1.029	26.14	1.155	29.34	.78	19.81	1.41	35.81	823.6921193	10
-	1-5/16	M33x2	-	-	-	1.179	29.95	1.286	32.66	1.115	28.32	1.222	31.04	.75	19.05	1.44	36.58	823.6921250	
1-1/4	-	-	-	-	M36x3	1.451	36.86	1.601	40.67	1.387	35.23	1.537	39.04	.75	19.05	1.75	44.45	823.6921254	
1-1/2	1-7/8	-	-	-	-	1.720	43.69	1.850	46.99	1.664	42.27	1.794	45.57	.75	19.05	2.03	51.56	823.6921972	

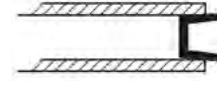
Application Guide



Recommended closures for tube fittings and hydraulic fittings.



Recommended closures for threaded external and internal N.P.T. fittings. Based on average tapped hole fit.



Recommended closures for unthreaded standard weight pipe.

As Plugs (A)	As Caps (B)	Dash No.	Tubing O.D.	Thread
823.6921236	-	-2	1/8	5/16-24
-	823.6921239	-3	3/16	3/8-24
508.181	-	-5	5/16	1/2-20
-	823.6921188	-6	3/8	9/16-18
-	823.6921242	-	3/8	5/8-18
823.6921243	823.6921245	-8	1/2	3/4-16
823.6921246	-	-10	5/8	7/8-14
823.6921248	823.6921153	-12	3/4	1-1/16-12
823.6921250	-	-16	1	1-5/16-12

As Plugs (A)	As Caps (B)	Size
823.6921229	-	1/8
508.181	-	1/4
823.6921203	823.6921204	1/2
823.6921922	823.6921153	3/4
823.6921193	-	1
823.6921254	-	1-1/4

As Plugs	Size
823.6921236	1/8
823.6921229	1/4
823.6921242	1/2
823.6921246	1/2
823.6921249	1

PLASTIC HOLE PLUGS



Art. No. 507.001

For up to 3/32" metal thickness

CAPS AND PLUGS ASSORTMENT



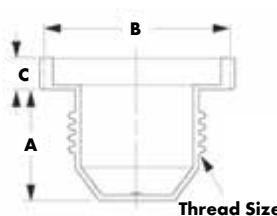
Art. No. 965.823

Description	Art. No.	Qty
Plug 5/16" M8x1.0 Cap 5mm orange	823.6921236	25
Plug M14x1.50 Cap 7/16" orange	823.6921240	25
Plug M18x1.5 Cap 5/8" M14x1.5	823.6921242	25
Plug 1/2" npt m22 orange	823.6921203	25
Plug 1/8" npt orange	823.6921229	25
Plug M16 cap m12x1.25 orange	823.6921892	25
Plug M22x1.5 Cap 3/4" orange	823.6921245	10
Plug M12x1.25 Cap 3/8" orange	823.6921239	25
Plug 3/8" npt M18 cap 9/16" orange	823.6921188	25
Plug 3/4" M20 orange	823.6921243	25
Plug 7/8" M24 cap M18x1.50	823.6921246	10

Contents: 295 pieces

- 13 of our most popular caps/plugs in both metric and standard sizes.
- For use with any brass or black iron pipe and fittings, hydraulic fittings, or engine/transmission work.

FLARED FITTING PLUGS



Features:

- Designed to protect flared fittings as well as 37° flared fittings without gasket.
- Engineered with knurled head for ease of application.
- Will meet low-pressure testing requirements.
- High-Density Polyethylene
- Colour: Red

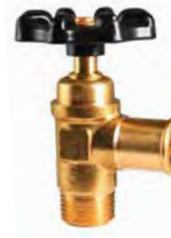
To plug thread size	To plug tubing Size	To plug S.A.E./JIC fitting	Dimensions			Art. No.	Pack Qty.
			A	B	C		
7/16-20	1/4	4	0.50" (12.70 mm)	0.72" (18.29 mm)	0.22" (5.59 mm)	823.69216	50
9/16-18	3/8	6	0.53" (13.46 mm)	0.88" (22.35 mm)	0.28" (7.11 mm)	823.692110	
3/4-16	1/2	8	0.75" (19.05 mm)	1.06" (26.92 mm)	0.28" (7.11 mm)	823.692112	25
7/8-14	5/8	10	0.84" (21.34 mm)	1.25" (31.75 mm)	0.28" (7.11 mm)	823.692114	
1-1/16-12	3/4	12	0.86" (21.84 mm)	1.41" (35.81 mm)	0.25" (6.35 mm)	823.692116	
1-5/16-12	1	16	0.91" (23.11 mm)	1.75" (44.45 mm)	0.25" (6.35 mm)	823.692120	
1-5/8-12	1-1/4	-	0.94" (23.88 mm)	2.22" (56.39 mm)	0.34" (8.64 mm)	823.692124	

LIQUID FILLED PRESSURE GAUGE



1/4 M.P.T Center Back Mount				
Range (P.S.I)		Dial Dia	Art. No.	P.Qty
(kPa)				
0-160	0-1100	2.5"	884.PG-160CG2	1
0-5000	0-35000		884.PG5000	

SPECIALTY VALVES



Forged Body Hose to Male Pipe			
P.S.I	Hose I.D	Male Pipe	Art. No.
200	3/8	3/8	884.1139-6C
	5/8		884.1139-10C
	3/4	1/2	884.1139-10D
			884.1139-12D



Air Tank Drain Valve	
Pipe	Art. No.
1/4	884.14DV-60B

PLUMBING BALL VALVES



Forged Brass Ball Valves Full Port, Pipe - Female to Female			
W.S.P	W.O.G	Pipe	Art. No.
150	600	1/4	884.BV2103-B
		3/8	884.BV2103-C
		1/2	884.BV2103-D
		1	884.BV2103-H



Cast Brass Ball Valves- Full Port, Pipe - Female to Female		
W.O.G	Pipe	Art. No.
600	1/2	884.BV4103-D
600	3/4	884.BV4103-E
600	1	884.BV4103-H

BRASS DRAIN COCKS



Back Seating Type	
Pipe	Art. No.
1/8	884.240-A
1/4	884.240-B
3/8	884.240-C
1/2	884.240-D



Ground Key Plug Type Lever Handle	
Pipe	Art. No.
1/8	884.241-A
1/4	884.241-B



Needle Seat One Piece Plug and Handle	
Pipe	Art. No.
1/8	884.242-A
1/4	884.242-B



Needle Seat	
Pipe	Art. No.
1/4	884.243-B



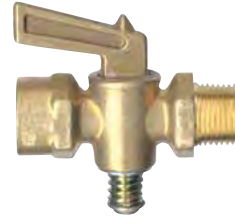
Heavy Duty Ground Key Plug Type Tee Handle	
Pipe	Art. No.
1/4	884.T241-B

BRASS SPRING BOTTOM SHUT-OFF COCKS

Not Recommended for Use with Liquids
 (Temperature: -40 °C / -40 °F to 121 °C / 250 °F)



Pipe Female to Female		
P.S.I	Pipe	Art. No.
30	1/4	884.2103-B



Pipe Female to Male		
P.S.I	Pipe	Art. No.
30	1/8	884.2120-A
	1/4	884.2120-B
	3/8	884.2120-C

SPECIALTY CLAMPS & ACCESSORIES



Hose Spacers	
Hose I.D	Art. No.
3/8	884.HAB-HAN-6
1/2	884.HAB-HAN-8



Hose support spring	
Length (in)	Art. No.
13	884.HAB-SPRIN

PNEUMATIC COUPLINGS



Industrial Interchange Manual Coupler			
Body Size	Pipe	W.P. (P.S.I.)	Art. No.
1/4	1/4 FPT	300	884.INDMC44F
3/8	1/4 MPT		884.QDINDMC64
3/8	3/8 FPT		884.QD81DMC44
1/2	1/2 FPT		884.QDINDMC88



Industrial Interchange Automatic Coupler			
Body Size	Pipe	W.P. (P.S.I.)	Art. No.
1/4	1/4 FPT	300	884.QDINDAC44
3/8	1/4 FPT		884.QDINDAC64
1/4	1/4 MPT		884.INDAC4-4M
3/8	1/4 MPT		884.QDINDA64M
3/8	3/8 MPT		884.QDINDA66M



Industrial Interchange Nipple Manual and Automatic			
Body Size	Pipe	W.P. (P.S.I.)	Art. No.
1/4	1/4 FPT	300	884.QDINDN44F
3/8	1/4 FPT		884.QDINDN64F
3/8	3/8 FPT		884.QDINDN66F
1/2	1/2 FPT		884.QDINDN88F
1/4	1/4 MPT		884.QDINDN44M
3/8	1/4 MPT		884.QDINDN64M
3/8	3/8 MPT		884.QDINDN66M
1/2	1/2 MPT		884.QDINDN88M



Industrial Interchange Automatic Coupler		
Body Size	Pipe	Art. No.
1/4	1/4 FPT	884.2414704



Industrial Interchange Automatic Nipple		
Body Size	Pipe	Art. No.
1/4	1/4 MPT	884.2424604



Industrial Interchange Automatic Set (coupler & nipple) Quick		
Body Size	Pipe	Art. No.
1/4	1/4 (FPT & MPT)	884.2414710



ARO210/ARO310 Series Coupling			
Body Size	Pipe	W.P. (P.S.I.)	Art. No.
1/4	1/4 FPT	250	884.QDAROC4



Tru-Flate Interchange (automatic standard) Coupling			
Body Size	Pipe	Art. No.	
1/4	1/4 FPT	884.QDSF36C44	
3/8	3/8 FPT	884.QDTFMC66F	



Lincoln Interchange Manual Coupling		
Body Size	Pipe	Art. No.
1/4	1/4 FPT	884.QDLINMC44

A.



B.



ARO210/ARO310 series automatic Nipple			
Body Size	Pipe	W.P. (P.S.I.)	Art. No.
A. 1/4	1/4 FPT	250	884.QDARON44F
B. 1/4	1/4 MPT		884.QDARON44M



Tru-Flate Interchange (automatic standard) Nipples		
Body Size	Pipe	Art. No.
3/8	1/4 MPT	884.QDTFN64M

A.



B.



Lincoln Interchange Manual Nipple		
Body Size	Pipe	Art. No.
A. 1/4	1/4 FPT	884.QDLINN44F
B. 1/4	1/4 MPT	884.QDLINN44M

SERIES 2000 STEEL PNEUMATIC FITTINGS

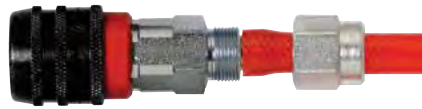
Features:

- High flow rate of up to 74.2 CFM. and maximum operating pressure of 232 psi. Enables optimum compressed-air supply and output utilization of compressed-air to consumers. This results in increased productivity and decreased energy costs.
- Ergonomically designed locking bush. This ensures a secure grip and prevents slipping off.
- Low coupling force allows one hand operation. Only minimal force required for simple, fast, safe coupling and decoupling.
- Air-tight connections. Low energy consumption and high level of efficiency.
- Hardened steel nipples and locking bushes. For max. load-bearing capacity and long service life.
- Exposed surfaces are chrome-plated, nickel-plated or galvanized. High corrosion resistance and protection, even under demanding conditions.
- Series 2000 fittings comply with the European standard and have a nominal diameter of 5/16". Euro profiles are compatible with other pneumatic fittings.

Comfort connection for Würth PU hoses



Screw off the locking bush and slide over hose.



Then slide hose up over grommet as far as possible while twisting back and forth slightly.



Then screw on the locking bush as far as possible.



Series 2000 Quick-Action Coupling with Male Thread

Connection thread NPT	Wrench size	Length	Diameter	Flow rate	Art. No.	Qty.
1/4"	20 mm	2.47"	0.90"	74.2 CFM	883.200304	1
3/8"	20 mm	2.40"	0.90"	74.2 CFM	883.200338	
1/2"	22 mm	2.20"	0.90"	74.2 CFM	883.200342	



Series 2000 Plug-In Nipple with Male Thread

Connection thread NPT	Wrench size	Length	Flow rate	Art. No.	Qty.
1/4"	14 mm	1.53"	74.2 CFM	883.200604	2
3/8"	17 mm	1.61"	74.2 CFM	883.200638	2
1/2"	22 mm	1.85"	74.2 CFM	883.200642	1



Series 2000 Quick-Action Coupling with Female Thread

Connection thread NPT	Wrench size	Length	Diameter	Flow rate	Art. No.	Qty.
1/4"	20 mm	2.35"	0.90"	74.2 CFM	883.200214	1
3/8"	22 mm	2.35"	0.90"	74.2 CFM	883.200238	



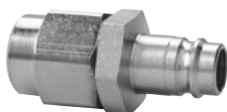
Series 2000 Plug-In Nipple with Female Thread

Connection thread NPT	Wrench size	Length	Flow rate	Art. No.	Qty.
1/4"	17 mm	1.41"	74.2 CFM	883.200514	1
3/8"	20 mm	1.49"	74.2 CFM	883.200538	



Series 2000 Quick-Action Coupling with Comfort Connection for Würth PU Hoses

Inner hose diameter	Outer hose diameter	Length	Diameter	Flow rate	Art. No.	Qty.
8.0 mm	12.0 mm	2.68"	0.90"	74.2 CFM	883.100780	1
11.0 mm	16.0 mm	2.68"	0.90"	74.2 CFM	883.100711	
6.5 mm	10.0 mm	2.68"	0.90"	74.2 CFM	883.100765	



Series 2000 Plug-In Nipple with Comfort Connection for Würth PU Hoses

Inner hose diameter	Outer hose diameter	Length	Flow rate	Art. No.	Qty.
8.0 mm	12.0 mm	1.85"	74.2 CFM	883.100888	2
11.0 mm	16.0 mm	2.20"	74.2 CFM	883.100811	
6.5 mm	10.0 mm	1.74"	74.2 CFM	883.100865	

SERIES 2000 STEEL SAFETY COUPLINGS

Safety couplings reduce the danger of injury from compressed-air hoses flying around, as the coupling is bled before releasing the connection. This offers greater safety, e.g. during overhead installation. One hand is sufficient for releasing the connection; the other hand can remain free for securing.

Features:

- High flow rate of up to 67.1 CFM. and maximum operating pressure of 174 psi. Enables optimum supply of compressed-air to consumers. This results in increased productivity and lower energy costs.
- Ergonomically designed locking bush. This ensures a secure grip and prevents slipping off.
- Low coupling force enables one-handed operation. Only minimal force required for simple, fast, safe coupling and decoupling.
- Air-tight connections. Low energy consumption and high level of efficiency.
- Hardened locking bushes. For max. load-bearing capacity and long service life.
- Exposed surfaces are chrome-plated, nickel-plated or galvanized. High corrosion resistance and protection, even under demanding conditions.
- Safety coupling with single-stage decoupling process. One-handed decoupling by pulling back locking bush. Coupling automatically bleeds and bush jumps back into starting position again.
- Series 2000 fittings comply with the European standard and have a nominal diameter of 5/16". Euro profiles are compatible with other pneumatic fittings.

Series 2000 Safety Coupling with Male Thread

Connection thread NPT	Wrench size	Length	Diameter	Flow rate	Art. No.	Qty.
3/8"	20 mm	2.68"	1.10"	67.1 CFM	883.155235	1
1/2"	22 mm	2.44"	1.10"	67.1 CFM	883.155242	1



Series 2000 Safety Coupling with Female Thread

Connection thread NPT	Wrench size	Length	Diameter	Flow rate	Art. No.	Qty.
1/4"	20 mm	2.52"	1.10"	67.1 CFM	883.156214	1



Series 2000 Safety Coupling with Comfort Connection for Würth PU Hoses

Inner hose diameter	Outer hose diameter	Length	Diameter	Flow rate	Art. No.	Qty.
8.0 mm	12.0 mm	2.95"	1.10"	67.1 CFM	883.154812	1
6.5 mm	10.0 mm	2.95"	0.90"	67.1 CFM	883.154610	1



Series 2000 Safety Coupling with Connection for PVC and Rubber Hoses

Inner hose diameter	Outer hose diameter	Length	Diam.	Flow rate	Art. No.	Qty.
1/4"	11.0 - 12.0 mm	74 mm	28 mm	67.1 CFM	883.153114	1
5/16"	14.5 - 16.0 mm	76 mm	28 mm	67.1 CFM	883.153516	1



Comfort connection for Würth PU hoses



Screw off the locking bush and slide over hose.



Then slide hose up over grommet as far as possible while twisting back and forth slightly.



Then screw on the locking bush as far as possible.

SERIES 3000 INDUSTRIAL INTERCHANGE STEEL PNEUMATIC FITTINGS

Series 3000 Coupling with Female Thread

Connection thread NPT	Air passage diameter	Air flow @ 87 psi	Max. pressure	Art. No.	Qty.
1/4"	7/32"	37.1 CFM	232 psi	883.300214	1
3/8"	7/32"	37.1 CFM	232 psi	883.300238	1



Series 3100 Plug-In Nipple with Female Thread

Connection thread NPT	Air passage diameter	Air flow @ 87 psi	Max. pressure	Art. No.	Qty.
1/4"	7/32"	37.1 CFM	232 psi	883.300514	2



Series 3000 Coupling with Male Thread

Connection thread NPT	Air passage diameter	Air flow @ 87 psi	Max. pressure	Art. No.	Qty.
1/4"	7/32"	37.1 CFM	232 psi	883.300304	1
3/8"	7/32"	37.1 CFM	232 psi	883.300338	1



Series 3100 Plug-In Nipple with Male Thread

Connection thread NPT	Air passage diameter	Air flow @ 87 psi	Max. pressure	Art. No.	Qty.
1/4"	7/32"	37.1 CFM	232 psi	883.300604	2
3/8"	7/32"	37.1 CFM	232 psi	883.300638	2



Series 3000 Coupling with Comfort Connection for Würth PU Hoses

Inner hose diameter	Outer hose diameter	Air passage diameter	Air flow @ 87 psi	Max. pressure	Art. No.	Qty.
8.0 mm	12.0 mm	7/32"	37.1 CFM	232 psi	883.351712	1



Series 3100 Plug-In Nipple with Comfort Connection for Würth PU Hoses

Inner hose diameter	Outer hose diameter	Air passage diameter	Air flow @ 87 psi	Max. pressure	Art. No.	Qty.
8.0 mm	12.0 mm	7/32"	37.1 CFM	232 psi	883.20088	2



Comfort connection for Würth PU hoses



Screw off the locking bush and slide over hose.



Then slide hose up over grommet as far as possible while twisting back and forth slightly.



Then screw on the locking bush as far as possible.

SERIES 4000 PNEUMATIC FITTINGS

Features:

- High flow rate of up to 135 CFM. and maximum operating pressure of 174 psi.
- Enables optimum output utilization of compressed-air consumers.
- Ergonomically designed locking bush.
- This ensures a secure grip and prevents slipping off.
- Hardened steel nipples and locking bushes.
- For max. load-bearing capacity and long service life.
- Low coupling force enables one-handed operation.
- Only minimal force required for simple, fast and safe coupling and decoupling.
- Air-tight connections.
- Low energy consumption and high level of efficiency.
- Exposed surfaces are chrome-plated, nickel-plated or galvanized.
- High corrosion resistance and protection even under demanding conditions.
- Series 4000 fittings comply with the European Standard 10.4.
- Compatibility with other pneumatic fittings.

Series 4000 Quick-Action Coupling with Comfort Connection for Würth PU Hoses

Inner hose diameter	Outer hose diameter	Flow rate	Art. No.	Qty.
11.0 mm	16.0 mm	135 CFM	883.400711	1

Series 4000 Plug-In Nipple with Comfort Connection for Würth PU Hoses

Inner hose diameter	Outer hose diameter	Flow rate	Art. No.	Qty.
11.0 mm	16.0 mm	135 CFM	883.400415	2

Series 4000 Quick-Action Coupling with Male Thread

Connection thread NPT	Flow rate	Art. No.	Qty.
3/8"	135 CFM	883.400338	1
1/2"	135 CFM	883.400342	

Series 4000 Plug-In Nipple with Male Thread

Connection thread NPT	Flow rate	Art. No.	Qty.
1/4"	135 CFM	883.400625	2
3/8"	135 CFM	883.400638	
1/2"	135 CFM	883.400642	

Series 4000 Quick-Action Coupling with Female Thread

Connection thread NPT	Flow rate	Art. No.	Qty.
3/8"	135 CFM	883.400238	1
1/2"	135 CFM	883.400242	

Series 4000 Plug-In Nipple with Female Thread

Connection thread NPT	Flow rate	Art. No.	Qty.
3/8"	135 CFM	883.400538	2
1/2"	135 CFM	883.400542	

Series 4000 Quick-Action Coupling with Connection for PVC and Rubber Hoses

Inner hose diameter	Outer hose diameter	Flow rate	Art. No.	Qty.
3/8"	10 mm	135 CFM	883.410110	1
1/2"	13 mm	135 CFM	883.410113	
5/8"	16 mm	135 CFM	883.410116	

Series 4000 Plug-In Nipple with Connection for PVC and Rubber Hoses

Inner hose diameter	Outer hose diameter	Flow rate	Art. No.	Qty.
3/8"	10 mm	135 CFM	883.400410	2
1/2"	13 mm	135 CFM	883.400413	

Comfort connection for Würth PU hoses



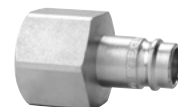
Screw off the locking bush and slide over hose.



Then slide hose up over grommet as far as possible while twisting back and forth slightly.



Then screw on the locking bush as far as possible.

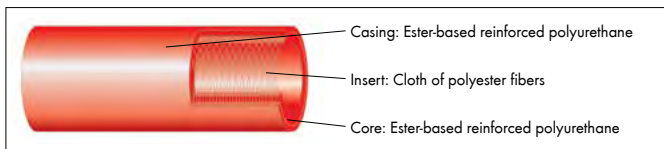


PU COMPRESSED AIR HOSES



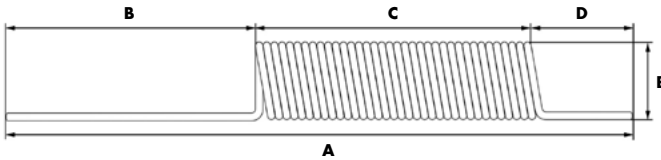
Features:

- Compressed-air hoses of polyurethane (PU) are considerably lighter, more flexible and more resistant to kinking than PVC hoses. Increased working comfort and broader range of applications.
- Smooth inside hose surfaces prevent air resistance and enable a high air flow rate. No pressure drop and maximum utilization of output of consumers.
- High resistance to abrasion, sturdy cloth lining and outstanding resistance to oil, gasoline, dirt and UV. Temperature range: -20°C to +60°C. Reduces costs and has a service life up to 10x longer than that of PVC hoses.
- Maximum operating pressure of 232 psi. Up to four times higher safety factor for user.



Inner hose diameter	Outer hose diameter	Length of hose	Art. No.	Qty.
8.0 mm	12.0 mm	10.0 m	883.942811	1
		25.0 m	883.942812	
11.0 mm	16.0 mm	10.0 m	883.942115	
		25.0 m	883.942116	

PU COMPRESSED AIR SPIRAL HOSES



Features:

- Straight end simplifies work. High working comfort.
- Maximum working pressure of 145 psi. High safety factor for user.

* **Note:** Comes with comfort connection fittings: **Art. No. 883.100780 & 883.10088**

Inner diameter	Outer diameter	Working length	Total length	Dimensions					Art. No.	Qty.
				A	B	C	D	E		
6.5 mm	10.0 mm	6.0 m	7.5 m	1120.0 mm	500.0 mm	520.0 mm	100.0 mm	52.0 mm	883.940652	1
8.0 mm	12.0 mm	8.0 m	10.0 m	1280.0 mm	500.0 mm	680.0 mm	100.0 mm	65.0 mm	883.940812	
8.0 mm	12.0 mm	8.0 m	10.0 m	1280.0 mm	500.0 mm	680.0 mm	100.0 mm	65.0 mm	883.941812*	

SERIES 2000 FITTINGS AND HOSE KIT



Art. No. 883.100000

Included in Kit:

Description	Connection thread NPT	Flow Rate	Length	Art. No.	Qty.
Series 2000 Plug-In Nipple with Comfort Connection	N/A	74.2 CFM	1.85"	883.10088	1
Series 2000 Plug-In Nipple with Male Thread	1/4"	74.2 CFM	1.53"	883.200604	
Series 2000 Quick-Action Coupling with Comfort Connection	N/A	74.2 CFM	2.68"	883.100780	
Series 2000 Quick-Action Coupling with Male Thread	3/8"	74.2 CFM	2.40"	883.200338	
PU Compressed Air Hose	N/A	N/A	10.0 m	883.942811	

PNEUMATIC HOSE REELS

Practical reel winder with high quality polyurethane hose provides order and safety in the workplace.



Pneumatic Hose Reel - 11 meters
Art. No. 699.008112 - Qty. 1

Pneumatic Hose Reel - 18 meters
Art. No. 699.008182 - Qty. 1

Rugged, closed plastic housing

Hose and winding mechanisms are protected against dust and other soiling.

High quality polyurethane hoses

High resistance to kinking and to oils and solvents with an extremely low weight. Excellent behaviour in low and high temperature ranges.

High flow capacity hoses

No pressure drop for increased efficiency and lower costs.

Wall, ceiling and floor mounting possible

For universal use without additional changes.

300 degree swinging mechanism

High freedom of movement and operating comfort.

Adjustable spring force

Various speed and balance settings possible.

Faster, cleaner and safer

Hoses and cables lying on the ground present a considerable source of danger and can result in accidents.

Prevents hose damage

Hoses that constantly lie on the floor or on a workbench are damaged more easily and must be replaced more often.

Delivery scope:

Reel winder in housing, work hose with 1/4" Male NPT adapter, stopper ball, supply hose with 1/4" Male NPT adapter, wall holder, installation/operating instructions.

Note: Couplers or plug-in nipples are not included in the delivery scope. Please include these in your order!

Technical data		
Art. No.	699.008112	699.008182
Max working pressure	16 bar (232 psi)	
Inside hose diameter	8 mm	
Outside hose diameter	12 mm	
Hose length	11 m (36.1')	18 m (59.1')
Supply hose	2 m (6.6')	
Connections	1/4" Male NPT	
Temperature range	-20 °C to +60 °C	
Dimensions (L x W x H)	400 x 110 x 400 mm	480 x 110 x 480 mm
Weight	5.1 kg (11.2 lbs)	7.3 kg (16.1 lbs)

REPLACEMENT PARTS FOR PNEUMATIC HOSE REELS



Fixed adapter



Swivel adapter

High Flow Hose Adapter for Pneumatic Hose Reel with Comfort Connection for Würth PU Hoses

Adapter Type	Connection	Inner hose diameter	Outer hose diameter	Art. No.	Qty.
Fixed	1/4" Male NPT	8.0 mm	12.0 mm	883.09581242	1
Fixed	3/8" Male NPT	8.0 mm	12.0 mm	883.09581244	
Swivel	1/4" Male NPT	8.0 mm	12.0 mm	883.09581292	
Swivel	3/8" Male NPT	8.0 mm	12.0 mm	883.09581294	

Stopper Ball for Pneumatic Hose Reels

Art. No. 709.008119 - Qty. 1



- Replacement stop ball for hose reels

*** Please note:** the swivel and fixed adapters are designed to be an alternative way for an attached tool to move: fixed, or swivel. These adapters are not high-flow adapters.

PREMIUM AIR HOSE



- Features EPDM cover and tube with high tensile spiral reinforcement
- Temperature: -20 °F to +200 °F (-29 °C to +93 °C)
- Bursting pressure: 600 psi

Applications:

Best suited for applications requiring maximum flexibility or a lighter weight rubber hose

Art. No.	Inside Dia.	Outside Dia.	W.P.P.S.I.	Reel Length (ft.)
884.1000	3/8"	.669	200	50
884.1100	1/2"	.881		

AIR HOSE WITH ENDS



- Features EPDM cover and tube with high tensile spiral reinforcement
- Temperature: -20 °F to +200 °F (-29 °C to +93 °C)
- Bursting pressure: 600 psi

Applications:

Best suited for applications requiring maximum flexibility or a lighter weight rubber hose

Art. No.	Inside Dia.	Outside Dia.	W.P.P.S.I.	Reel Length (ft.)
884.10011	3/8"	.669	200	25
884.10012				50

HIGHFLEX PREMIUM AIR HOSE WITH 1/4" MPT CRIMPED ENDS



- Multi purpose hose
- More flexible than most rubber hoses even at extremely low temperatures
- Temperature: -40 °F to 150 °F (-40 °C to 65 °C)

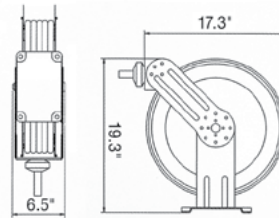
Applications:

Ideal for pneumatic hand tool and shop air applications due to its light weight and relatively high pressure rating.

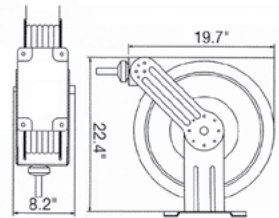
Art. No.	Inside Dia.	Outside Dia.	W.P.P.S.I.	Reel Length (ft.)
884.10021*	3/8"	.625	300	50
884.10025				25
884.10030				50

* Does not come with ends

HOSE REEL HEAVY DUTY WITH FLEX HYBRID HOSE



Hose Reel HD 3/8"



Hose Reel HD 1/2"

Features:

- Heavy duty steel construction
- Heavy ribbed steel plate
- Epoxy powder coated
- Fully enclosed and lubricated spring
- Four direction, non-snag rollers

Benefits:

- Very durable with strong support
- Resists corrosion
- Wall, ceiling or floor mounting possible
- Superior quality rollers reduce hose wear

Diameter I.D.	Length	Art. No.	P. Qty
1/2 inch	50 feet	008.REEL12	1
3/8 inch		008.REEL38	

AIR HOSE FLEX HYBRID TECHNOPOLYMER



Diameter I.D.	Diameter O.D.	Brass Fitting	Length	Art. No.	P. Qty
1/2 inch	.71"	3/8" NPT	25 feet	884.007012	1
3/8 inch	.59"	1/4" NPT		884.007038	
1/2 inch	.71"	3/8" NPT	50 feet	884.0070121	
3/8 inch	.59"	1/4" NPT		884.0070381	

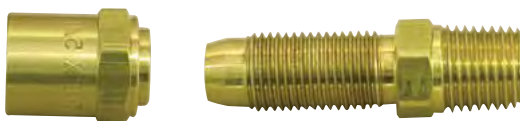
Features:

- Engineered hybrid polymer
- Reinforced with high tensile polyester yarns
- Working temperature range: 23F-140F (-5C - 60C)
- 300 PSI

Benefits:

- Provides the best attributes of PVC and rubber
- Superior flexibility
- Lightweight
- Good resistance to oils, heat, ozone and abrasion
- Easy to unwind and rewind

HOSE REPAIR FERRULES



Hose I.D	Reusable Hose Ferrule	Reusable Male Hose Stem	P. Qty
3/8"	884.750-106	884.751-6B	5
1/2"	884.750-148	884.751-8B	

Example of 884.750-106 mated with 884.751-6B



Installation instructions:

- Thread the hose ferrule over the end of the hose.
- Thread the hose stem into the hose ferrule.

* **No hose clamps or band clamps are required.**

NOZZLE



Art. No. 884.1501

- Adjustable flow-cone spray, sharp stream and full flow with insulated molded grip for spraying hot and cold water
- Heavy duty die cast body with hold-open clip for continuous spraying
- Male hose threaded front for attaching accessories
- Brass valve spray mechanism
- Solid brass valve stem with permanent adjusting nut
- Rust resistant
- Rubber head guard to protect against scratches to cars

BRASS DUAL HOSE ADAPTER



Art. No. 884.1502

- Attaches to most outdoor taps
- Offers the opportunity to run two hoses off one tap or a hose and irrigation system etc.
- Solid milled brass male connector that will divide your hose into two sections
- 3/4" garden hose thread

WATER HOSE FITTINGS



Hose Barb to Male Hose	
Hose I.D	Art. No.
3/8	884.193-6
5/8	884.193-10
Swivel Hose Barb to Female Hose	
Hose I.D	Art. No.
3/8	884.195-6
5/8	884.195-10

- Repair and extend the life of old shop water hoses
- Machined from brass; will not rust
- Shorten or lengthen existing water hoses
- Join two existing water hoses



SHOP ONLINE NOW!

SHOP.WURTH.CA

09 **EQUIPMENT & STORAGE**

2 System World

7 Tool & Storage Cabinets

16 ORSY

19 Flammable Liquids Storage Cabinets

19 DOS Rack

20 Packfix

22 Parts Washers & Accessories

25 Refillomat System & Accessories

27 Ultra Mobile Mini Lift



SYSTEM CASE 4.4.1

System Case Configuration	4.4.1
Width x depth x height (inches)	14.56 x 10.62 x 3.34 inches

Number of System Boxes	Material	Lid Type	Art. No.
Empty*	ABS	Black	5581.020000
Empty*	ABS/PC	Clear	5581.020500
2 boxes	ABS/PC	Clear	5581.120000
3 boxes	ABS/PC	Clear	5581.120001
11 boxes	ABS/PC	Clear	5581.120002

*Inserts sold separately



Art. No. 5581.020000
*Inserts sold separately



Art. No. 5581.020500
*Inserts sold separately



Ideal for flexible storage of small parts, machines and tools used with consumables.

Totally customizable thanks to grid design

- Allows individual composition of contents in different application areas
- Possible to use case and contents with System Cabinets

Easily click cases together

- Integrated rail contour and coupling elements allow you to combine multiple cases and transport equipment safely

Functional design elements

- Black lid features an elastomer seal to protect contents from the rain
- Simple opening and closing
- Label section for adhesive or inserted labels
- Made from tough ABS and PC plastic

Built for comfort

- Large handle design
- Integrated soft elements and wide swivel radius to take pressure off hands and wrist
- Handle with up to 60 kg capacity



Don't forget the System Dividers for System Boxes!



Art. No. 5581.120000
Includes:
2 x 2.1.1 System Boxes

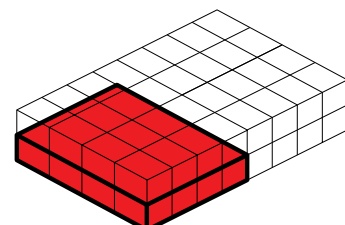
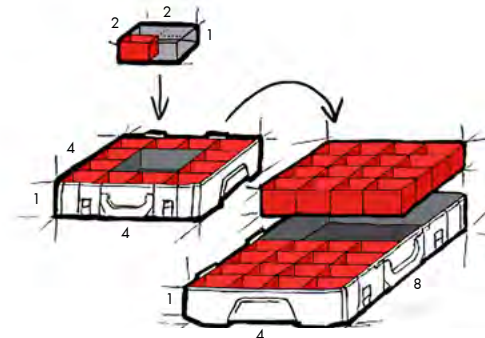


Art. No. 5581.120001
Includes:
1 x 2.4.1 System Boxes
2 x 2.2.1 System Boxes



Art. No. 5581.120002
Includes:
1 x 2.2.1 System Box
2 x 2.1.1 System Boxes
8 x 1.1.1 System Boxes

4.4.1 = 16 System Grid squares



SYSTEM CASE 8.4.1

System Case Configuration	8.4.1
Width x depth x height (inches)	19.69 x 14.96 x 3.34 inches

Number of System Boxes	Material	Lid Type	Art. No.
Empty*	ABS	Black	5581.010000
Empty*	ABS/PC	Clear	5581.010500
4 boxes	ABS/PC	Clear	5581.110000
10 boxes	ABS/PC	Clear	5581.110001
10 boxes	ABS/PC	Clear	5581.110004
16 boxes	ABS/PC	Clear	5581.110002
22 boxes	ABS/PC	Clear	5581.110006

*Inserts sold separately



Art. No. 5581.010000
*Inserts sold separately



Art. No. 5581.010500
*Inserts sold separately



Ideal for flexible storage of small parts, machines and tools used with consumables.

Totally customizable thanks to grid design

- Allows individual composition of contents in different application areas
- Possible to use case and contents with System Cabinets

Easily click cases together

- Integrated rail contour and coupling elements allow you to combine multiple cases and transport equipment safely

Functional design elements

- Black lid features an elastomer seal to protect contents from the rain
- Simple opening and closing
- Label section for adhesive or inserted labels
- Made from tough ABS and PC plastic

Built for comfort

- Large handle design
- Integrated soft elements and wide swivel radius to take pressure off hands and wrist
- Handle with up to 60 kg capacity



reddot design award
winner 2017

Don't forget the System Dividers for System Boxes!



Art. No. 5581.110000
Includes:
4 x 2.4.1 System Boxes



Art. No. 5581.110001
Includes:
2 x 2.4.1 System Boxes
2 x 2.2.1 System Boxes
2 x 2.1.1 System Boxes
4 x 1.1.1 System Boxes



Art. No. 5581.110004
Includes:
2 x 8.1.1 System Boxes
2 x 2.2.1 System Boxes
2 x 2.1.1 System Boxes
4 x 1.1.1 System Boxes

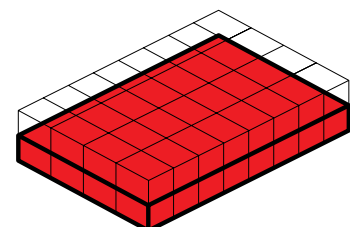
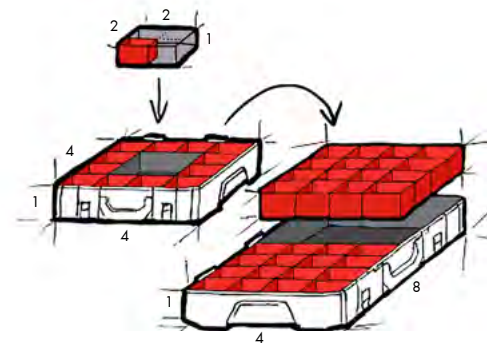


Art. No. 5581.110002
Includes:
4 x 2.2.1 System Boxes
4 x 2.1.1 System Boxes
8 x 1.1.1 System Boxes



Art. No. 5581.110006
Includes:
2 x 2.2.1 System Boxes
4 x 2.1.1 System Boxes
16 x 1.1.1 System Boxes

8.4.1 = 32 System Grid squares



SYSTEM BOXES



Art. No. 5581.035001



Art. No. 5581.035002



Art. No. 5581.035003



Art. No. 5581.035012



Art. No. 5581.035011

A variable compartment for orderly storage and retrieval of various small parts. The system boxes can be combined individually with all the system cases.

Compatibility thanks to grid dimensions

- Product dimension based on grid dimensions, which allows the boxes to be arranged individually in the system case

Secure connection in the system case

- Grid feet fix the boxes to the case floor, holding them in position
- The transparent lid prevents the contents from becoming cluttered

Individually adjustable

- Boxes can be further divided individually using System Dividers

Can also be used on workshop walls or mounting stations

- A groove allows the box to be hung on the assembly rails (**Art. No. 5581.039001**)

Simple identification of box contents

- Integrated, slightly offset labelling field

Box Configuration	Dimensions (in) (l x d x h)	Art. No.	Qty.	Material
1.1.1	2.24 x 3.22 x 2.16	5581.035001	1	ABS
2.1.1	4.48 x 3.22 x 2.16	5581.035002		
2.2.1	4.48 x 6.57 x 2.16	5581.035003		
2.4.1	4.48 x 13.15 x 2.16	5581.035012		
8.1.1	18.18 x 3.22 x 2.16	5581.035011		

SYSTEM DIVIDERS

Description	Dimension (in)	Art. No.	Qty.
Red divider for X.1.1	2.75 x 0.31 x 1.77	5581.035020	4
Red divider for 2.X.1	4.33 x 0.59 x 1.77	5581.035021	



Art. No. 5581.035020



Art. No. 5581.035021

PICK AND PLUCK FOAM

The pick and pluck foam allows you to create your own custom padded shape for your tools and accessories. Perforated segments throughout the foam make it easy to cut out the shape you want.

Note: Two foam pieces (5581.004900) will fit into the 8.4.1 System Case.

Foam Dimensions	4.4.1
Width x depth x height	13.18 x 9.10 x 2.08 inches

Art. No.	Qty.
5581.004900	1



SYSTEM INSERTS, BLACK

Insert Configuration	4.4.1
Width x depth x height	13.18 x 9.10 x 2.12 in

Number of Compartments	Art. No.	Qty.
3 compartments	5581.003010	1
8 compartments	5581.003001	
12 compartments	5581.003003	
16 compartments	5581.003002	
20 compartments	5581.003021	
Dividers for 5581.003010	5581.003014	4

For convenient storage of small parts & accessories.

*Two inserts will fit into the 8.4.1 System Case for multiple storage possibilities.



Art. No. 5581.003010



Art. No. 5581.003001



Art. No. 5581.003003

Not compatible with clear system lids!



Art. No. 5581.003002



Art. No. 5581.003021



Art. No. 5581.003014

Insert 5581.003010 can be segmented using 5581.003014 (sold separately)

SYSTEM WORLD ACCESSORIES

SYSTEM ADAPTER PLATE



*Cases not included

Various System Cases can be stacked on top of one another and connected

- Owing to simple rail system
- Fixing using coupling elements
- Locking bolt mechanism secures the adapter plate on the 8.4 system cases

Storage in trunk

- Non-slip thanks to attachable spikes
- Plates can be joined together like jigsaw pieces
- Cases of both dimensions (8.4 and 4.4) can be stored

Dimensions	Art. No.	Qty.
20.47 x 15.94 x 1.37 in	5581.038000	1

SYSTEM TROLLEY



*Cases not included

Transportation device for System Cases 8.4, 4.4 and other objects

- Sturdy frame made from sheet steel
- Two fixed castors and two steering rollers with locking brake
- System Cases secure to trolley using coupling elements

Dimensions	Art. No.	Qty.
24.21 x 19.29 x 7.28 in	5581.038500	1

SYSTEM RAIL



For mounting system boxes. Capable of bearing loads up to 25 kg (depending on the fastenings). Multiple system boxes can be positioned.

Adjustment to the current assembly situation

- The system boxes can be positioned at two angles: Straight, and at a 45° angle for easy access.
- System boxes can slide horizontally on rails

Suspension rail can be attached wherever you need it

- Workshop trolleys
- Workbenches
- To masonry or other walls

Dimensions	Art. No.	Qty.
19.48 x 0.78 x 1.37 in	5581.038500	1

SYSTEM CABINET – SYSTEM CASE HOLDER



Organisation system consisting of stackable modules for 5 System Cases that can also be screwed together.

Features & Benefits:

- Ball-bearing-mounted telescopic extensions
- Load per tray: 20 kg
- Side panels and rear panel with square perforation
- Stacking nubs
- Central locking with two keys
- Colour: graphite black (RAL 9011)
- Material: Sheet steel
- Powder-coated

Note: Supplied without cases

*Can be secured using **Art. No. 5581.040100**



Compatible with	Width x depth x height	Art. No.	Qty.
4.4.1	17.91 x 11.41 x 19.29 in	5581.040000	1

Compatible with	Width x depth x height	Art. No.	Qty.
8.4.1	22.83 x 17.91 x 19.29 in	5581.040002	1

SYSTEM CABINET SECURING SET



For attaching system stacking cabinets

Description	Art. No.	Qty.
Securing Set for Cabinets	5581.040100	1

REPLACEMENT PARTS

Description	Art. No.	Qty.
Lock and key for System Cabinet	5581.040101	1 lock, 2 keys
Latches for System Case	5581.001000	1
Locking mechanism to secure System Cases	5581.001002	
Handle for System Case	5581.001001	



Art. No. 5581.040101



Art. No. 5581.001000



Art. No. 5581.001002



Art. No. 5581.001001

REPLACEMENT LIDS

Description	Dimensions	Art. No.	Qty.
Black Lid 4.4.1	13.26 x 10.27 in	5581.001010	1
Clear Lid 4.4.1	13.26 x 10.27 in	5581.001011	
Black Lid 8.4.1	18.89 x 14.96 in	5581.001020	
Clear Lid 8.4.1	18.89 x 14.96 in	5581.001021	

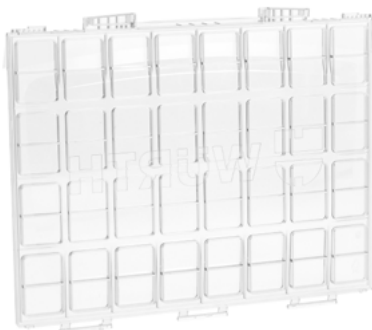
*Clear lid only compatible with red system boxes



Art. No. 5581.001010



Art. No. 5581.001011



Art. No. 5581.001020



Art. No. 5581.001021

WORKSHOP-TROLLEY

Art. No. 962.699237



Specification:

- Overall body size(Incl. handle & wheels): 1017×758×450mm(H×W×D)
- Total loading capacity: 400kg
- Solid sheet steel design
- Thickness of the material: 1.0mm for the body, 0.8mm for the drawers
- Powder coated, sand finish. Body in RAL3000, drawers in 700

Design:

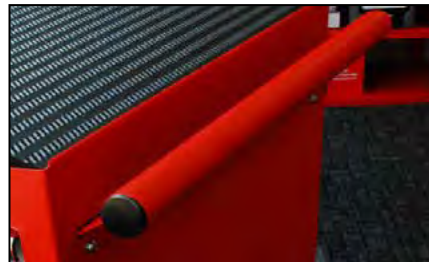
- Central locking with tubular lock.
- Sturdy oval shaped side handle.
- Aluminum drawer pulls.
- With 45mm Ball-bearing drawer slides, loading capacity 30kg per drawer.
- 2 fixed wheels and 2 swivel wheels with brakes.
- Inside drawer dimensions suitable for TOOL system tool assortments.
- Side walls with hole pattern for accessory parts, also suitable for hooks and holders from our line of perforated plates.
- Individual drawer with Auto return function

DIMENSION OF DRAWER (MM)		
Width × Depth	Height	Qty.
568 × 414	75	5
568 × 414	154	2

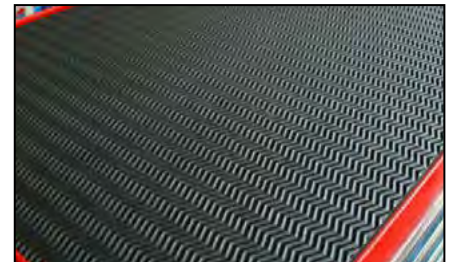
NOTE: Delivery scope without tool sets.
Delivery charges may apply.



Central Lock



Side Handle



10mm Top EVA Mat



45mm Ball-bearing Drawer Slides



Suitable for TOOL System tool assortments



Side Walls with Hole Pattern

WÜRTH BULB RACK



Art. No. 955.7201

Features:

- Constructed using prime cold rolled steel
- (4) Durable plastic tilt-out trays
- (28) Adjustable dividers are included allowing the creation of 4 to 32 compartments
- Back-up storage shelves are located behind hinged cover
- Ideal for the storage and organization of automotive bulbs, fuses, terminals, fasteners and more
- Unit can be wall hung using keyholes punched in the back

Material	All Welded Prime Cold Rolled Steel
Colour	Red powder coated finish and Rust and Acid Resistant
Depth	4inch / 102mm
Height	26-3/4inch / 680mm
Width	19Inch / 483mm
Weight	21lbs / 9.52Kg

PREMIUM CABINETS



Art. No. 962.KD40

7 Drawer Cabinet

Dimensions:
48" x 40.25" x
24.5" (W x H x D)
Cabinet Weight:
480 lbs.

- 2 drawers 3" : 24 comp.
- 2 drawers 4" : 24 comp.
- 2 drawers 6" : 24 comp.
- 1 drawer 8" : 12 comp.

962.KD40 – Delivery Scope		
Art. No.	Length (in)	No. of dividers delivered in cabinet
962.D0307	7	24
962.D0308	8	12
962.D0407	7	24
962.D0408	8	12
962.D0607	7	24
962.D0608	8	12
962.D0807	7	4
962.D0808	8	2

PREMIUM CABINETS



Art. No. 962.KLD60

10 Drawer Cabinet

Dimensions:
48" x 60" x 24.5"
(W x H x D)
Cabinet Weight:
685 lbs.

- 3 drawers 4" : 24 comp.
- 2 drawers 5" : 24 comp.
- 4 drawers 6" : 24 comp.
- 1 drawer 8" : 12 comp.

962.KLD60 – Delivery Scope		
Art. No.	Length (in)	No. of dividers delivered in cabinet
962.D0407	7	36
962.D0408	8	18
962.D0507	7	24
962.D0508	8	12
962.D0607	7	48
962.D0608	8	24
962.D0807	7	4
962.D0808	8	2



Art. No. 962.MD32

10 Drawer Cabinet

Dimensions:
60" x 32.5" x 24.5"
(W x H x D)
Cabinet Weight:
540 lbs.

Top Drawer: 1 drawer 5" : 32 comp.

Left Drawers:

- 2 drawers 3" : 32 comp.
- 2 drawers 4" : 32 comp.
- 1 drawer 6" : 32 comp.

Right Drawers:

- 1 drawer 3" : 32 comp.
- 1 drawer 4" : 32 comp.
- 1 drawer 5" : 32 comp.
- 1 drawer 8" : 12 comp.

962.MD32 – Delivery Scope		
Art. No.	Length (in)	No. of dividers delivered in cabinet
962.D0308	8	6
962.D0310	10	3
962.D0408	8	6
962.D0410	10	3
962.D0508	8	2
962.D0509	9	4
962.D0510	10	3
962.D0608	8	2
962.D0610	10	1
962.D0808	8	2
962.D0810	10	1



Art. No. 962.DD32

5 Drawer Cabinet

Dimensions:
30" x 32.5" x 24.5"
(W x H x D)
Cabinet Weight:
295 lbs.

- 1 drawer 6" : 25 comp.
- 1 drawer 3" : 25 comp.
- 1 drawer 4" : 25 comp.
- 1 drawer 5" : 25 comp.
- 1 drawer 8" : 10 comp.

962.DD32 – Delivery Scope		
Art. No.	Length (in)	No. of dividers delivered in cabinet
962.D0305	5	16
962.D0306	6	4
962.D0405	5	16
962.D0406	6	4
962.D0508	8	16
962.D0510	10	4
962.D0605	5	16
962.D0606	6	4
962.D0805	5	4
962.D0806	6	1

PREMIUM-LINE CABINETS - 40 1/4"



Art. No. 962.ME3205

Dimensions:

24 1/2" deep (622mm) x 36" wide (915mm)

Colour: Red

Features:

- Superior Quality Construction
- Lifetime Warranty*
- 400 lb capacity (udl) per drawer
- 100% opening capabilities for full access of space
- Rolling on 8 high-quality bearings and 2 rollers
- Fully adjustable compartments
- Easy locking mechanism

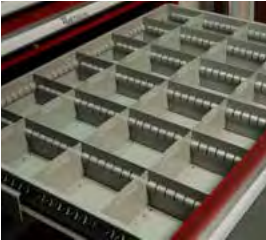
Cabinet Weight: 480 lbs (218 kg)

Layout:

- 2 drawers = 3" high and 24 compartments
- 2 drawers = 4" high and 24 compartments
- 2 drawers = 6" high and 24 compartments
- 1 drawer = 8" high and 8 compartments

Drawers and dividers included!

Safety: All cabinets must be properly anchored before loading. Never open more than one drawer at a time.



Extra Dividers		
Divider Size	Drawer Size	Art. No.
4-1/2" Wide	3" Classic Drawer	962.M3115
5-3/16" Wide	3" Classic Drawer	962.M3132
5-3/16" Wide	4" Classic Drawer	962.M4132
5-3/16" Wide	6" & 8" Classic Drawer	962.M6132
7-7/32" Wide	6" & 8" Classic Drawer	962.M6183

Lifetime Warranty*

Components covered by warranty:

- Drawers
- Carriages
- Bearings
- Galvanized Rails
- Z Rolling Bars
- Welding
- Doors
- Handles

No warranty claim will be honoured on:

- Overload Conditions
- Severe and/or abusive use
- Impact from Exterior sources

Note: Charges for repairs done by the purchaser or others will not be accepted and will void the warranty

Product ordering procedures:

- This cabinet order is shipping directly from our warehouse to the customer.
- Please instruct the customer that upon arrival, they are to inspect the items for damage immediately, and in the presence of the driver.
- The customer is to remove all packaging, and if the cabinet is damaged in any way, they should accept the shipment but mark it as "Received Damaged"
- Damaged claims will be handled by the Logistics Department at Würth Canada

Shipping costs

Shipping costs for each Würth Premium Line Cabinet throughout most major destinations in Canada are fixed at \$200/cabinet. For multiple cabinet orders to 1 destination, please contact the Würth Canada Logistics team for rate quotes.

PREMIUM-LINE CABINETS - 60"



Art. No. 962.ME3405

Dimensions:

24 1/2" deep (622mm) x 36" wide (915mm)

Colour: Red

Features:

- Superior Quality Construction
- Lifetime Warranty
- 400 lb capacity (udl) per drawer
- 100% opening capabilities for full access of space
- Rolling on 8 high-quality bearings and 2 rollers
- Fully adjustable compartments
- Easy locking mechanism

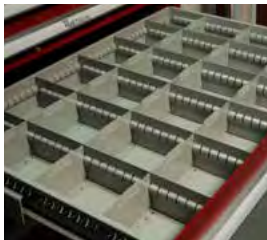
Cabinet Weight: 660 lbs (218 kg)

Layout:

- 1 drawer = 4" high and 24 compartments
- 2 drawers = 5" high and 24 compartments
- 4 drawers = 6" high and 24 compartments
- 2 drawer = 8" high and 8 compartments

* Drawers and partitions included!

Safety: All cabinets must be properly anchored before loading. Never open more that one drawer at a time.



Divider Size	Drawer Size	Art. No.
4-1/2" Wide	4" Classic Drawer	962.M4115
5-3/16" Wide	4" Classic Drawer	962.M4132
5-3/16" Wide	6" & 8" Classic Drawer	962.M6132
7-7/32" Wide	6" & 8" Classic Drawer	962.M6183

Lifetime Warranty*

Components covered by warranty:

- Drawers
- Carriages
- Bearings
- Galvanized Rails
- Z Rolling Bars
- Welding
- Doors
- Handles

No warranty claim will be honoured on:

- Overload Conditions
- Severe and/or abusive use
- Impact from Exterior sources

Note: Charges for repairs done by the purchaser or others will not be accepted and will void the warranty

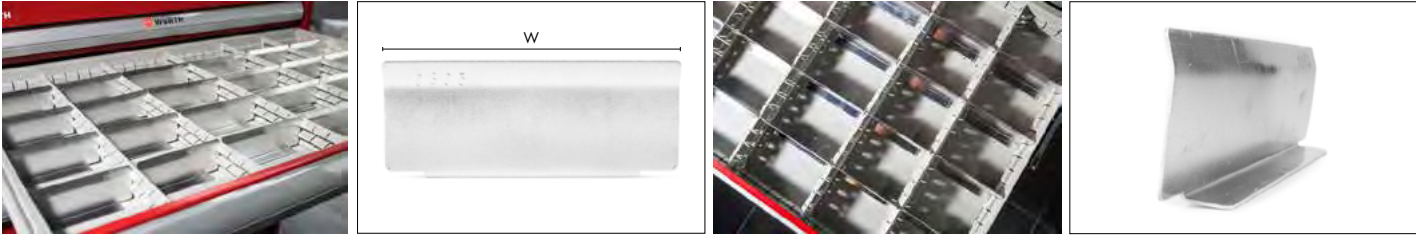
Product ordering procedures:

- This cabinet order is shipping directly from our warehouse to the customer.
- Please instruct the customer that upon arrival, they are to inspect the items for damage immediately, and in the presence of the driver.
- The customer is to remove all packaging, and if the cabinet is damaged in any way, they should accept the shipment but mark it as "Received Damaged"
- Damaged claims will be handled by the Logistics Department at Würth Canada

Shipping costs

Shipping costs for each Würth Premium Line Cabinet throughout most major destinations in Canada are fixed at \$200/cabinet. For multiple cabinet orders to 1 destination, please contact the Würth Canada Logistics team for rate quotes.

PREMIUM LINE CABINET DIVIDER GUIDE

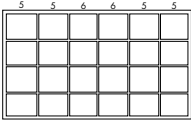
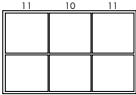


Art. No.	Divider Size (Width)	Cabinet Compatibility					
		962.DD32 30"W x 24½"D x 32"H	962.MD32 60"W x 24½"D x 32"H	962.KD40 48"W x 24"D x 40"H	962.KLD60 48"W x 24½"D x 60"H	962.M3205 36"W x 24½"D x 40"H	962.ME3405 36"W x 24½"D x 60"H
962.D0304	4"		√				
962.D0305	5"	√				√	√
962.D0306	6"	√	√			√	√
962.D0307	7"			√	√		
962.D0308	8"		√	√	√		
962.D0309	9"		√				
962.D0310	10"		√				
962.D0404	4"		√				
962.D0405	5"	√				√	√
962.D0406	6"	√	√			√	√
962.D0407	7"			√	√		
962.D0408	8"		√	√	√		
962.D0409	9"		√				
962.D0410	10"		√				
962.D0504	4"		√				
962.D0505	5"	√				√	√
962.D0506	6"	√	√			√	√
962.D0507	7"			√	√		
962.D0508	8"	√	√	√	√		
962.D0509	9"		√				
962.D0510	10"	√	√				
962.D0604	4"		√				
962.D0605	5"	√				√	√
962.D0606	6"	√	√			√	√
962.D0607	7"			√	√		
962.D0608	8"		√	√	√		
962.D0609	9"		√				
962.D0610	10"		√				
962.D0805	5"	√					
962.D0806	6"	√		√	√		
962.D0807	7"			√	√		
962.D0808	8"		√	√	√		
962.D0809	9"		√				
962.D0810	10"		√			√	√
962.D0811	11"					√	√
962.D1006	6"			√	√		
962.D1007	7"			√	√		
962.D1008	8"	√		√	√		
962.D1009	9"		√				
962.D1010	10"	√	√			√	√
962.D1011	11"					√	√

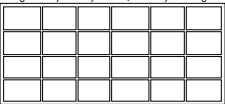
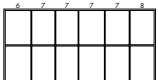
*Request Special Orders for additional sizes of dividers or drawer partitions

PREMIUM LINE CABINETS-DRAWER LAYOUTS

Art. No. 962.ME3205 & 962.ME3405

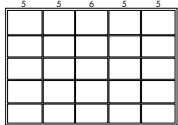
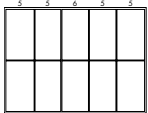

Drawer Height Dimensions	Drawer Layouts Showing Dividers in Inches	No. of Compartments	Available Divider Sizes	Available Dividers Prefix 962.
3"		24	5" & 6"	D0305/D0306
4"				D0405/D0406
5"				D0505/D0506
6"				D0605/D0606
8"		6	10" & 11"	D0810/D0811
10"-14"				D1010/D1011

Art. No. 962.KD40 & 962.KLD60

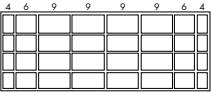

Drawer Height Dimensions	Drawer Layouts Showing Dividers in Inches	No. of Compartments	Available Divider Sizes	Available Dividers Prefix 962.
3"		24	7" & 8"	D0307/D0308
4"				D0407/D0408
5"				D0507/D0508
6"				D0607/D0608
8"		12	6", 7" & 8"	D0806/D0807/D0808
10"-14"				D1006/D1007/D1008

*Dividers delivered with cabinet may vary from the layouts shown

Art. No. 962.DD32

Drawer Height Dimensions	Drawer Layouts Showing Dividers in Inches	No. of Compartments	Available Divider Sizes	Available Dividers Prefix 962.
3"		25	5" & 6"	D0305/D0306
4"				D0405/D0406
5"				D0505/D0506
6"				D0605/D0606
8"		10	5" & 6"	D0805/D0806
10"-14"		6	8" & 10"	D1008/D1010

Art. No. 962.MD32

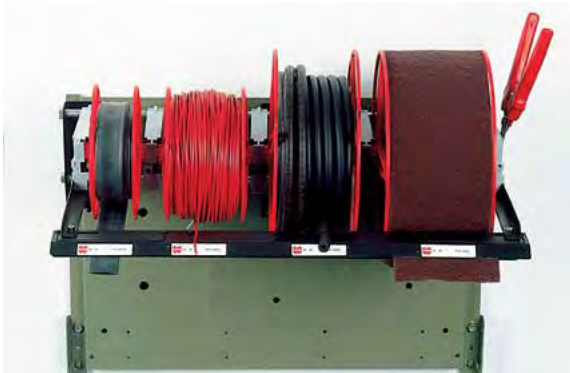
Drawer Height Dimensions	Drawer Layouts Showing Dividers in Inches	No. of Compartments	Available Divider Sizes	Available Dividers Prefix 962.
3"		32	4", 6" & 9"	D0304/D0306/D0309
4"				D0404/D0406/0409
5"				D0504/D0506/0509
6"				D0604/D0606/0609
8"		12	9" & 10"	D0809/D0810
10"-14"				D1009/D1010

*When reordering **962.MD32** dividers, always measure the divider width and drawer height or reorder using the engraved number on the divider

*Moving cabinet partitions reconfigures drawer layouts

*Consult Special Orders as needed

ORSY



Small Enviro Dispenser Rack

Art. No. 956.109

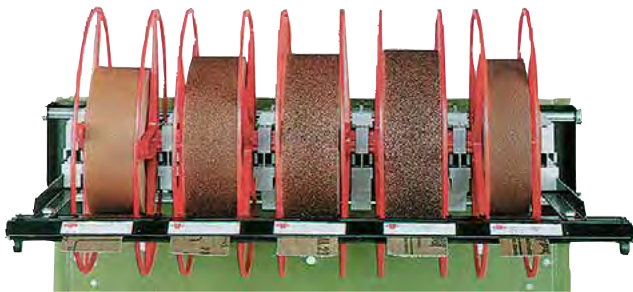
Contains:

- 1 Rack: 21" x 7 1/2" x 14" (W x H x D)
- 1 Tear blade (Cutters not included)
- 8 stars (Art. No. 956.10901); 5 brackets (Art. No. 956.10903)
- 4 spool holders

Recommended Use:

Holds 4-100 m wire rolls (see prefix 770)

***Available OnDemand**



Large Enviro Dispenser Rack

Art. No. 956.1090

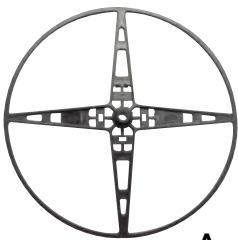
Contains:

- 1 Rack: 21" x 10" x 14" (W x H x D)
- Tear Blade (Cutters not included)
- 8 stars (Art. No. 956.10902); 5 brackets (Art. No. 956.10903)
- 4 spool holders

Recommended Use:

Can hold up to 5 emery Cloth rolls (prefix 674)

Can hold up to 4 rolls of fuel/vacuum hose line (prefix 895)



A



B

Replacement Parts

Item	Description	Art. No.
A	Enviro dispenser, star-small	956.10901
A	Enviro dispenser, star-large	956.10902
B	Enviro dispenser bracket	956.10903



Domestic Hose Dispenser Rack (empty)

Art. No. 966.810110

- For fuel line 1/4", 5/16" and 3/8"
- For vacuum line 5/32", 7/32" and 3/16"

Dimensions: 58 x 34 x 32 cm

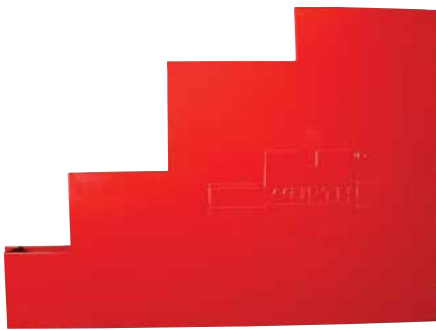
ORSY



Metal Compartment Drawers

Compartments	Art. No.
6	955.9502
12	955.912
16	955.916
24	955.924
32	955.932

Dimensions: 18" x 3" x 12" (W x H x D)



Wire Tie Holder

Art. No. 502.05020

From left to right:

Compartment 1: 7 cm x 8 cm (2 3/4" x 3 1/8")

Compartment 2: 10 cm x 16 cm (4" x 6 1/4")

Compartment 3: 13 cm x 27 cm (5 1/8" x 10 5/8")

Compartment 4: 15 cm x 32.5 cm (5 7/8" x 12 3/4")

Dimensions: 45 cm x 32.5 cm x 5 cm deep (16 1/2" x 12 3/4" x 2" deep)

- Suitable for wall mounting or ORSY cabinet
- Stock levels at-a-glance
- Easy retrieval
- Mounting hardware included
- Use with wire ties, Prefix 553

NOTE: It is recommended to store the wire ties in their original bags to prevent them from becoming brittle



4 Drawer Metal Cabinet (empty)

Art. No. 955.904

Dimensions:
20" x 15" x 15-3/4" (W x H x D)



ORSY Drawer with Adjustable Dividers

Art. No. 955.23013

Complete with 9 dividers and 36 slots

- Fits in the ORSY Cabinet Art. No. 955.904
- Suitable to store fasteners and spare parts of different lengths and sizes
- Made from metal
- Adjustable dividers (spare dividers Art. No. 955.23011 - 10 piece)

ORSY

Threaded Rod Rack
Art. No. 955.OS2050
Dimensions: 6 7/8" x 24" x 24 3/8" (W x H x D)

Aerosol Cabinet
Art. No. 955.900
Dimensions: 33 3/4" x 22 1/4" x 8 1/2" (W x H x D)

Wire Spool Rack
Art. No. 955.901
Dimensions: 26 1/8" x 37 1/8" x 6" (W x H x D)

Regal Storage Bin
Art. No. 966.2 - 18 Comp.
Art. No. 966.1 - 36 Comp.
Dimensions: 23.6" x 12.4" x 4.6" (W x H x D, 18) 23.6" x 24" x 4.6" (W x H x D, 36)

40 Compartment Bin
Art. No. 966.3
Dimensions: 33 3/4" x 22 1/4" x 9" (W x H x D)

32 Compartment Bin
Art. No. 966.4
Dimensions: 33 3/4" x 19 3/4" x 9" (W x H x D)

40 Compartment Bin
Art. No. 966.13
Dimensions: 33 3/4" x 22 1/4" x 12" (W x H x D)

Base for: Multi-compartment bins
Art. No. 955.9721 - 9" deep
Art. No. 966.131 - 12" deep
Dimensions: 5 3/4" x 34" (W x L)

Rack for 4 Drawer Cabinet
Art. No. 955.9041
Dimensions: 16" x 15" x 20" (W x H x D)

FLAMMABLE LIQUIDS STORAGE CABINETS



- Double-wall 18 gauge welded steel construction with 1 1/2" air space
- Dual 2" capped vents with flame arresters
- Full-height piano hinges open a full 180° for easy access
- Locking handle with 3-point latch
- 2" high leak proof door sill
- All shelves are adjustable on 2 1/2" centres
- Adjustable levelling feet
- Tough corrosive-resistant finish
- Meets NFPA Code 30 and OSHA standard 1910.10 for storage of Class I, II and III liquids
- FM Approved

Order Processing Time: One week

FREIGHT:
To be determined based on location.

Door Type	Capacity Gallons	Adjustable Shelves	Width	Depth	Height	Listing Approvals	Weight. lbs	Art. No.
2-door, manual	45	2	43"	18"	65"	FM	252	962.SAQ326
2-door, manual	60	2	34"	34"	65"	FM	430	962.SAS521
Extra Shelf								
Extra shelf for use with 30 and 45 gallon cabinets			39 3/8"	14"	-	-	9	999.SAQ328*
Extra shelf for use with 60 gallon cabinet			30 3/8"	30"	-	-	12	999.SAS574*

*AVAILABLE ONLY THROUGH SPECIAL ORDERS!

DOS RACK 14 COMPARTMENTS



Art. No. 891.273141

14 compartment rack for DOS products

Dimensions:

41cm x 10cm x 10cm (L x W x H)

DRAWER LINER



Keeps drawers and shelves clean. Scratch-free. Lines a 5-drawer cabinet or 10 drawer tool chest. Easy to install: Cut to desired length.

Ideal For:

- Tool Chests
- Tool Trolleys
- Shelves & Racks
- Cabinets

Dimensions	Drawer Liner	Art. No.	P. Qty
16" x 112"	Perforated Design	962.6200	1

PACKFIX PACKAGING FILM



Art. No. 992.9001

For fast packing without cutting or adhesive residues

Features & Benefits:

- No adhesive residues
- No adhesive residues are left behind when the film is removed from the product.
- Good moulding capability
- Corners, edges and curves etc. can also be packaged and/or protected quickly and reliably with the film. This also means considerable time is saved.
- Quick to tear off

- The film can easily be torn off by dragging on the protruding section of the winding core. As a result, no extra cutting tools are required to cut the film.
- Recyclable PE film

Applications:

For packaging, bundling, protecting and securing a wide range of items, e.g. for packages, pallets, accessory articles, wooden strips, window profiles, carpet rolls, picture frames, wrapping steering wheels etc. instead of adhesive tape.



Technical Information	
Material	PE - Polyethylene
Colour	Transparent
Width	100 mm
Length	150 m
Foil thickness	23 µm
Stretch capacity	550 %
Min. pressing pressure	1.2 N/mm ²
Conditions for pressing pressure	with 8 wrappings
Ultraviolet resistance	6 months
Max. temperature resistance	70 °C
Chemical resistance	Application-dependent, query required
Shelf life from production	24 months
Conditions to maintain shelf life from production	Dry storage area, 20 °C

PACKFIX PACKAGING FILM



Art. No. 992.9002

For fast packing without cutting or adhesive residues

Features & Benefits:

- No adhesive residues
- No adhesive residues are left behind when the film is removed from the product.
- Good moulding capability
- Corners, edges and curves etc. can also be packaged and/or protected quickly and reliably with the film. This also means considerable time is saved.
- Quick to tear off

- The film can easily be torn off by dragging on the protruding section of the winding core. As a result, no extra cutting tools are required to cut the film.
- Recyclable PE film

Applications:

For packaging, bundling, protecting and securing a wide range of items, e.g. for packages, pallets, accessory articles, wooden strips, window profiles, carpet rolls, picture frames, wrapping steering wheels etc. instead of adhesive tape.



Technical Information	
Material	PE - Polyethylene
Colour	Transparent
Width	500 mm
Length	270 m
Foil thickness	20 µm
Stretch capacity	470 %
Min. pressing pressure	0.7 N/mm ²
Conditions for pressing pressure	with 8 wrappings
Ultraviolet resistance	6 months
Max. temperature resistance	70 °C
Chemical resistance	Application-dependent, query required
Shelf life from production	24 months
Conditions to maintain shelf life from production	Dry storage area, 20 °C

BLACK PACKFIX PACKAGING FILM

Art. No. 992.900220

For fast packing without cutting or adhesive residues



Features & Benefits:

- No adhesive residues
- No adhesive residues are left behind when the film is removed from the product.
- Good moulding capability
- Corners, edges and curves etc. can also be packaged and/or protected quickly and reliably with the film. This also means considerable time is saved.
- Quick to tear off

- The film can easily be torn off by dragging on the protruding section of the winding core. As a result, no extra cutting tools are required to cut the film.
- Recyclable PE film

Applications:

For packaging, bundling, protecting and securing a wide range of items, e.g. for packages, pallets, accessory articles, wooden strips, window profiles, carpet rolls, picture frames, wrapping steering wheels etc. instead of adhesive tape.



Technical Information

Material	PE - Polyethylene
Colour	Black
Width	500 mm
Length	270 m
Foil thickness	20 µm
Stretch capacity	200 %
Min. pressing pressure	0.7 N/mm ²
Conditions for pressing pressure	with 8 wrappings
Ultraviolet resistance	6 months
Max. temperature resistance	70 °C
Chemical resistance	Application-dependent, query required
Shelf life from production	24 months
Conditions to maintain shelf life from production	Dry storage area, 20 °C

HANDLE PACKFIX PACKAGING FILM

Art. No. 992.901



For use with Würth Packfix Packaging Film:

- 992.9001
- 992.9002
- 992.900220

ERGO SLIDING SLEEVE FOR PACKFIX

Art. No. 992.902001



Can be used with Würth Packfix Packaging Film:

- 992.9002
- 992.900220

RECIRCULATING PARTS WASHER



- * Assembly required
- * Brush not included

Art. No. 995.000950

Portable, sturdy parts washer system for mechanical and brake parts that is safe for the user and the environment.

Features:

- Tank capacity - 20 gal
- Free standing washer
- Thermally protected 110V motor and On/Off switch
- Safety lever has a fusible link which shuts cover in case of fire
- Durable pump included
- 3 ways filtration traps grime
- Flush hose delivers flow of solvent to rinse parts clean, quickly and easily

Technical Specifications	
Capacity	20 Gallon
Solvent Capacity	12 Gallon
Motor	.25 Amp
Voltage	110V, 1 phase, 60 hz
Basin Dimension	30-1/2" x 21-1/4" x 10"
Height of Stand	24-1/2"
Assembled Dimensions (LxWxH) / Weight	30-1/2" x 21-1/4" x 34-1/2" / 55lbs

Note: spare parts and accessories can be purchased through special orders.



Recommended Parts Washer Liquid:

893.162701



Spare Part:

Brush 96 cm **995.00095059**

BIOMATIC PARTS WASHER



Art. No. 995.900

Portable solvent-free degreasing system for mechanical and brake parts that is safe for the user and the environment.

Features:

- The perfect combination of simplicity, robustness and mobility.
- Blow moulded high density nonconductive polyethylene for durability and impact resistance.
- Manual off/on flow control with toggle switch.
- Flow timer with 10 and 30 minute increments
- User regulated flow control to flexible tap or ergonomic brush.
- Flexible 1.5 m (4.9') hose for easy cleaning of brakes under a lift.
- Base with large wheels for greater mobility in the workshop.

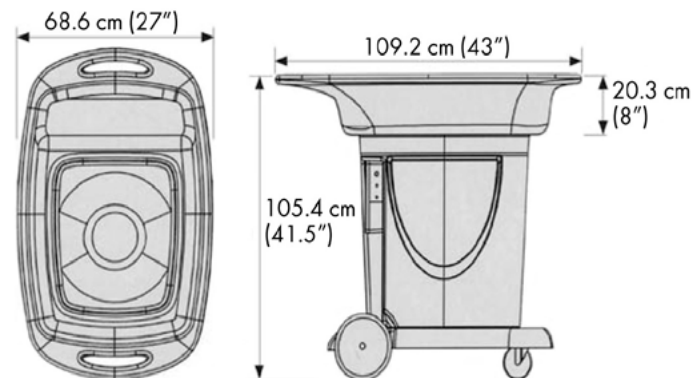
- Thermostat maintains fluid at 42° C (107° F) for better washing effectiveness.
- Filter is changeable and disposable without hand tools or special equipment.
- System ready power on indicator (green) and low fluid level indicator (red).

P. Qty: 1

Technical Specifications:

- Pump: 1/125 HP (0.5 Amp) pump supplies a flow rate of 300 GPH with sump intake
- Tank capacity: 60 L
- Low fluid level: 40 L
- Empty unit weight: 32kg (70.5 lbs)
- Maximum load capacity: 227 kg (500 lbs)
- Heater: 1000 watt industrial heater

Unit Dimensions:



Package contents:

Description	Art. No.	Qty.
Biomatic Parts Washer	995.900	1
Biomatic Fluid - 18.9 L	995.903	3
Standard Biomatic Filter	995.900001	1
Brush for Biomatic Parts Washer	995.900005	1

REPLACEMENT BRUSH FOR BIOMATIC



Features:

- Moulded from high density nonconductive polyethylene for durability.
- Brass flow control button.
- Stiff bristles for cleaning hard to reach areas.

Description	Art. No.	P. Qty.
Brush	995.900005	1

BIOMATIC ENZYME BOOSTER



Art. No. 995.904 250 mL

Concentrate of enzymes that enhances the performance and efficiency of your Biomatic parts washer, and treats contaminated biological parts washers to get rid of excess oil and bad odours.

Do not swallow. Keep out of reach of children. For professional use only.

Application:

Boosts the level of natural micro-organisms occurring in washing solutions. For use in all biological parts washers.

Properties:

This enzyme booster enables the introduction of micro-organisms into liquids used in biological parts washers, allowing for the elimination of hydrocarbons. It also boosts the density of microorganisms when the biological washer fluid is used more than 8-10 hours per day, or when a large increase in hydrocarbons occurs during degreasing operations.

BIOMATIC FLUID



Features:

- Aqueous based surfactant cleaner (no odour)
- Designed for difficult cleaning applications in the Biomatic parts washing system.
- Excellent for removing motor oil, bearing grease, automotive grease, impacted grease, creosote, resin products, hydraulic/transmission fluid, fifth wheel grease, crude oil, solder/flux, and animal fat.
- Free of volatile organic compounds (VOC)
- No flashpoint
- pH neutral
- Biodegradable
- Non-toxic, non-caustic, non-flammable, non-hazardous
- No phosphates, formaldehyde, biocides or solvents present

Technical Specifications:

- Appearance: Clear to yellow liquid
- Odour: Low/pleasant aroma
- Density: 0.9996 g/mL
- pH: 8.74
- Flash point: None

Contents	Art. No.	P. Qty.
18.9 L	995.903	1

BIOMATIC FILTERS



Features:

- The white layer is designed to trap any particulate larger than 50 Microns.
- The blue layer provides support for the microbes located in the mat. These microbes migrate from the mat into the Biomatic fluid, located in your Biomatic tank, and break down hazardous waste.
- The single layer filter is designed for cleaning lightly soiled parts.
- The multi-layer filter has 4 removable layers for cleaning heavily soiled parts like brakes.

Notes:

Each layer on the multi-layer filter should be peeled away once a week for optimum performance. Filters must be changed monthly which will keep the microbe colony healthy and keep your Biomatic system working at peak performance.

Description	Usage	Art. No.	P. Qty.
Biomatic Single Filter	Light duty cleaning	995.900001	1
Biomatic Multi-Layer Filter	Heavy duty cleaning, brake parts	995.900013	1

REFILLOMAT SYSTEM



Art. No. 997.141887

The safe, economical system for the automatic refilling of spray cans with chemical and compressed air. The reusable 'aerosol' system

Safe, Economical, Environmentally friendly!

- The REFILLOmat can looks like an ordinary aerosol can, yet it is a tool. It is convenient to handle and sprays in every position.
- The REFILLOmat station regulates charging the reusable can with approx 300-400 ml of products and the correct pressure of compressed air (6 bar/87 psi), which acts as the propellant. Charging takes just 7 seconds!
- REFILLOmat combines the ease and convenience of an aerosol with the cost savings of bulk into one innovative system.
- The REFILLOmat system minimizes can garbage and waste, thus reducing negative environmental effects.

Benefits:

- Refillable
- Tremendous space savings
- Highly cost-effective
- The REFILLOmat cans have a protected spray nozzle
- Durable and long-lasting

Station delivery includes:

- Filling station
- Station grounding cable
- Depressurizing tool for cans
- Closing cap and hose
- Hose for compressed air supply, NPT 1/4"
- Additional hose
- Release plate for Brake Cleaner, Code 1:

Art. No.891.870951

1 year limited warranty. Use of any non-approved chemical voids warranty. Improper use may result in station malfunction and/or serious personal injury.

REFILLOMAT SYSTEM - ACCESSORIES



Release Plate for Station

Coated plastic releasing plate for station.

Chemical	Art. No.
Brake Cleaner, Code 1	891.870951
Eco Window & Glass Cleaner, Code 11	891.8709511



Nozzle Set (Service Pack 8)

Art. No. 891.870001

Three "gold" nozzles for fine spray, three "black" nozzles for coarse spray. Simply attach to the VARIOCAP spray head.

P. Qty: 6



VARIOCAP Spray Head (Service Pack 7)

Art. No. 891.870000

Replacement VARIOCAP spray head.

P. Qty: 3

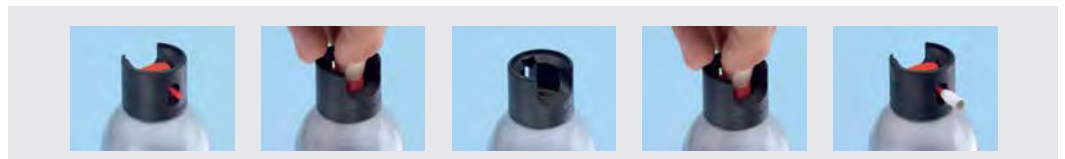


Universal holder for REFILLOmat can

Art. No. 891.8901

The universal can holder for quick access in the workshop.

P. Qty: 1



Simple spray head change - VARIOCAP: The spray head with the 'click'
VARIOCAP: Variable, A Joy to Use, Rugged, Innovative, Optimized

REFILLOMAT SYSTEM – CHEMICALS



Brake & Parts Cleaner
18.9 L Bulk - Art. No. 890.108718
500 mL Empty Can - Art. No. 891.9811

Highly concentrated solvent blend

- No chlorinated solvents
- Silicone and lead-free

Release plate included with station, Code 1: 891.870951



Eco Window & Glass Cleaner
20 L Bulk - Art. No. 893.012612
400 mL Empty Can - Art. No. 891.98111

Eco-Logo certified biodegradable streak, haze and film-free glass cleaner

- Ready-to-use formula
- Ideal for all glass surfaces
- Solvent-free (no alcohol or ammonia)

- Safe for use on LCD screens
- Approved by the Canadian Food Inspection Agency

Release plate for station must be ordered separately!
Code 11: 891.8709511

REFILLOMAT SYSTEM - REPLACEMENT ITEMS



Filling Valve (Service Pack 1)
Art. No. 891.870950
P. Qty: 1



Grounding Cable (Service Pack 6)
Art. No. 891.870955
P. Qty: 1



Replacement O-Rings
Art. No. 997.135176
 For filling nozzles on REFILLOmat station
P. Qty: 10



Replacement Hose Kit (Service Pack 3)
Art. No. 891.870952
 Also included with the REFILLOmat System
P. Qty: 1

ULTRA MOBILE MINI LIFT

Art. No. 995.100ML

An innovative, low profile, pneumatically operated scissor lift that will lift nearly any car, van, truck or SUV on the market.

Features:

Large directional wheels

Rolls easily, even over floor grates (ex: in paint booths)

Pneumatic air bag from Continental™

Top quality for the safest operation.

Low maintenance

No electric or hydraulic parts.

Large lifting pad

- At 48 cm long, provides high stability.
- Additional lift pad allows for lateral lifting.

Quick lift time

13 seconds to raise, 17 seconds to descend.

- Operates pneumatically.
- Compact size fits easily under most vehicles (accessory ramps are available).
- Allows lifting of the vehicle from the front, side, or rear. With the use of two Minilifts, the entire vehicle can be lifted and moved.
- Reduces operator fatigue by lifting the vehicle to a comfortable working height.



A

Image	Description	Art. No.	P. Qty.
A	Ultra Mobile Mini Lift (includes one pair of safety jack stands, Art. No. 995.102JS and lifting pad for side lifting)	995.100ML	1
B	Replacement safety jack stands (pair)	995.102JS	1 (pair)
C	SUV frame adapter (pair)	995.103FA	1 (pair)
D	Audi/BMW/MB lift point pad (pair)	995.105LP	1 (pair)
E	Low profile clearance ramps (pair) (increase in ride height of 7cm)	995.106CR	1 (pair)



B



C



D



E

ULTRA MOBILE MINI LIFT



Lateral lifting with lift pad in use (included with **Art. No. 995.110ML**)



Showing Safety Jack stands, **Art. No. 995.102JS** in use.

Both images above showing SUV Frame adaptors, **Art. No. 995.103FA**, in use.

Technical Information:	
Max. Lift Height (of vehicle)	Rear axle: 155 cm Front axle: 145 cm Side elevation: 60 cm
Size	138 x 60 cm
Min. Height (clearance required)	13 cm
Lift Capacity	2 500 kg (5 511 lbs)
Max. Vehicle weight	3 200 kg (7 054 lbs)
Lift pad length	48 cm
Lift weight	110 kg (242 lbs)
Power/Min. air supply	Compressed air, 1/4" FPT 6-8 bar (87-116 psi)



10 LIGHTING

2 Automotive Bulbs

- 2 Motorcycle
- 4 North American
- 6 Import
- 8 European
- 10 Bulb Description & Standards

17 Lamps & Mounting Accessories

- 17 LED Lamps & Mounting Accessories
- 21 Work Lamps
- 22 Incandescent Lamps

24 Pocket Lights

25 Hand Lights

27 Work Lights

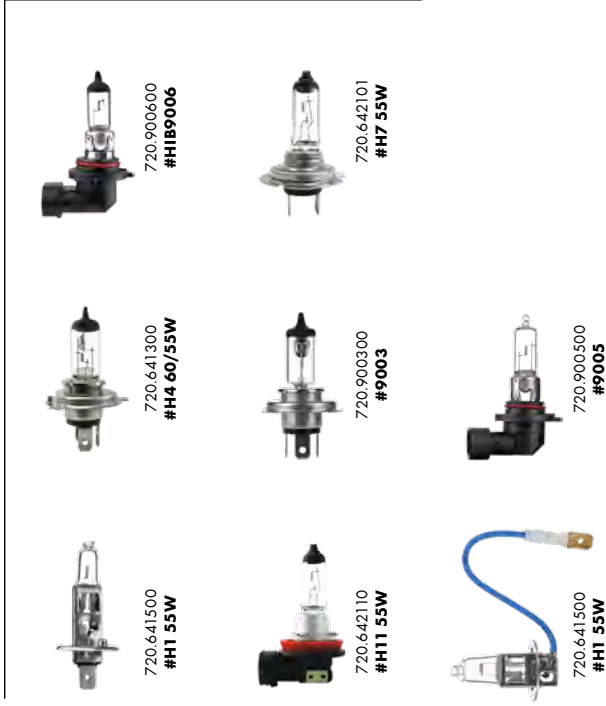
28 Service Bulbs





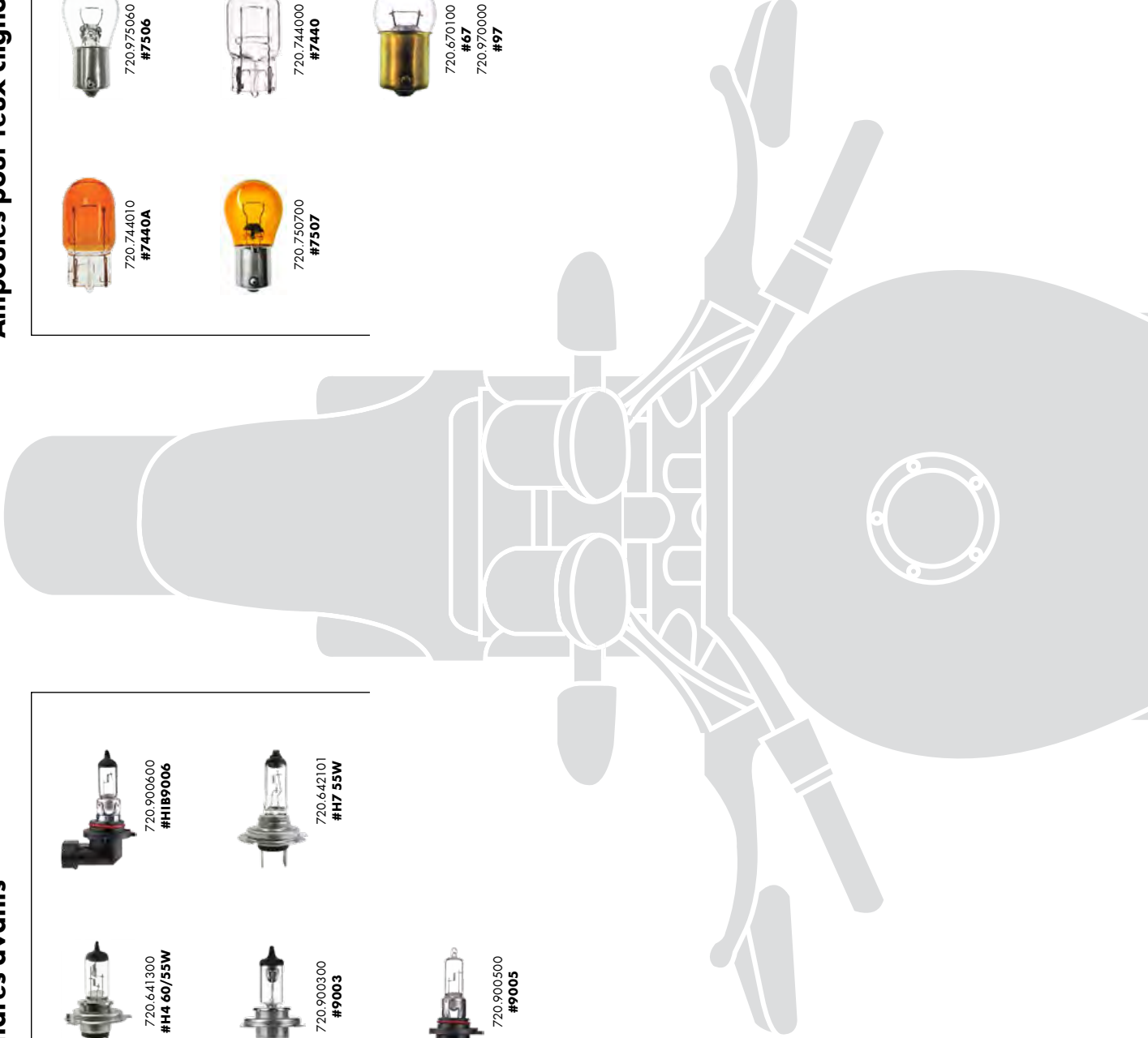
Headlight Bulbs

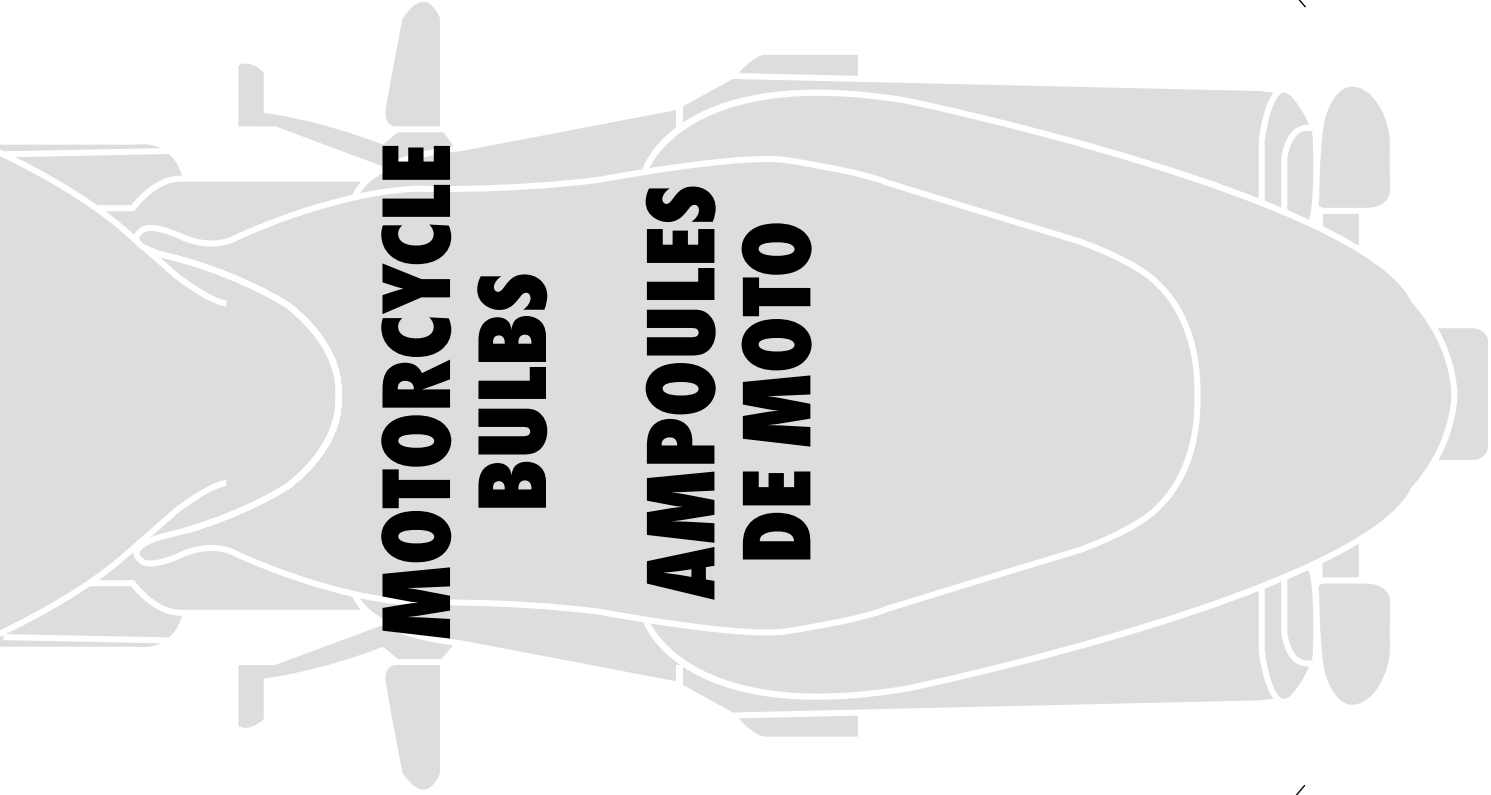
Ampoules pour phares avant



Front Turn-Signal Bulbs

Ampoules pour feux clignotant avant





MOTORCYCLE BULBS AMPOULES DE MOTO



Rear Turn-Signal Bulbs Ampoules pour feux clignotants arrière



720.115600
#1156



720.750700
#7507



720.500700
#5007
720.950080
#5008



720.975060
#7506



720.115610
#1156A



Reversing/Brake Bulbs

Ampoules pour feux de recul



720.500700
#5007



720.752800
#7528



License Plate Bulbs Ampoules pour lumière de plaque d'immatriculation



720.500700
#5007



720.001610
#161



720.641100
#6411



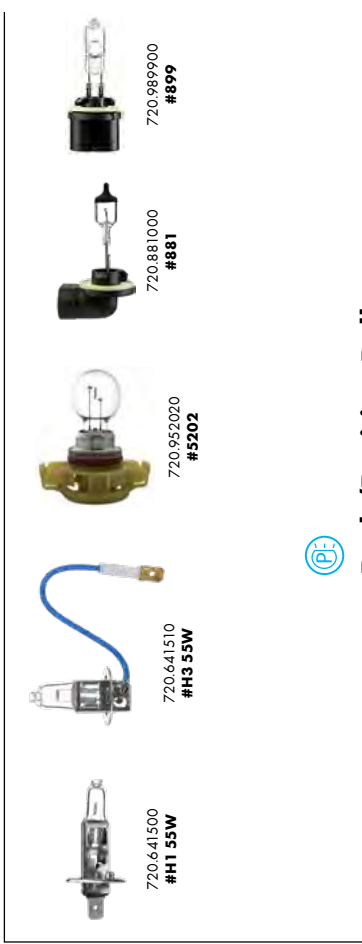
720.938930
#3893



Headlight Bulbs Ampoules pour phares avants



Fog Bulbs Ampoules pour phares antibrouillard



Park/Position Bulbs Ampoules de lumières de stationnement



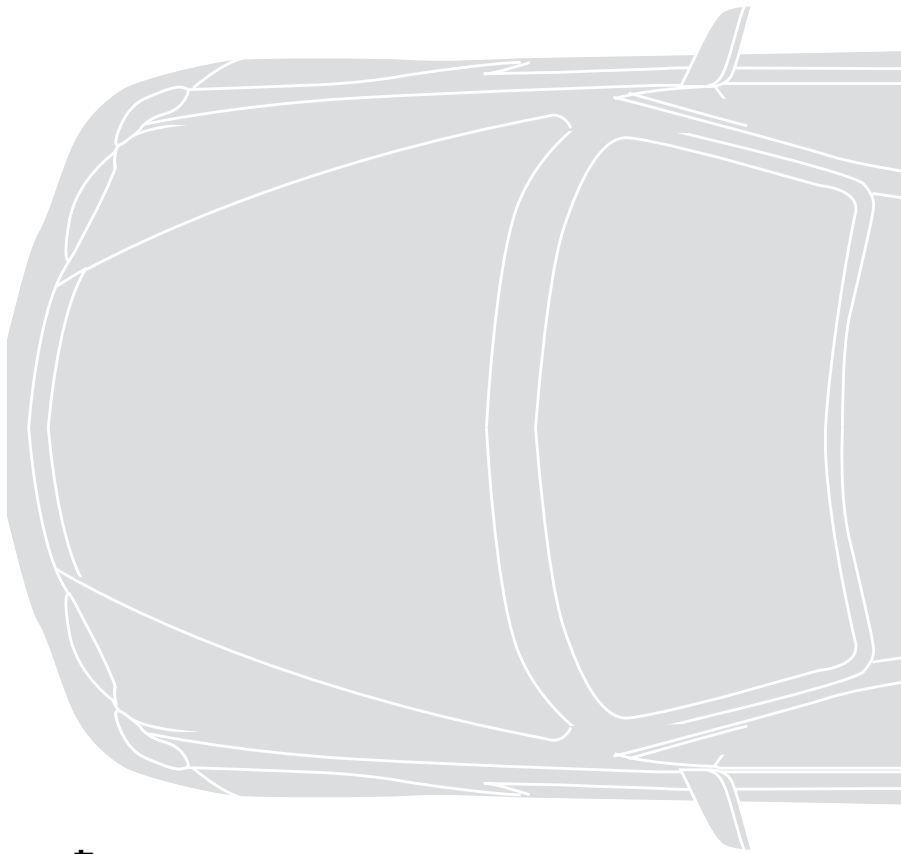
Front Turn-Signal Bulbs Ampoules pour feux clignotant avant



Panel Bulbs Ampoules de panneau latéral



Side Marker Bulbs Ampoules pour feux d'encombrement



NORTH AMERICAN NORD AMÉRICAIN

AUTOMOTIVE BULBS
AMPOULES AUTOMOTIVE

12V



Rear Turn-Signal Bulbs Ampoules pour feux clignotants arrière



720.744010
#7440A



720.192100
#921



720.335720
#3457NA



720.115720
#1157



720.750700
#7507



720.744000
#7440



720.168000
#168



720.194000
#194



Interior Bulbs Ampoules pour lumière intérieure



720.211000
#211-2



720.158000
#158



720.189500
#1895



License Plate Bulbs Ampoules pour lumière intérieure



720.168000
#168



720.670100
#67



720.194000
#194



Brake/Tail Bulbs Ampoules pour feux arrière/feux d'arrêt



720.001610
#161



720.168000
#168



720.115700
#1157



720.205700
#2057



720.315700
#3157



720.335700
#3357



720.941140
#941140



720.114100
#1141



720.881000
#881



720.912000
#912



720.194000
#194



720.099160
#916



720.889000
#889



720.941140
#941140



720.889000
#889



720.744000
#7440



720.975060
#97506



Reversing Bulbs Ampoules pour feux de recul



720.114100
#1141



720.881000
#881



720.912000
#912



720.744000
#7440



720.889000
#889



720.975060
#97506

This is only a guide. Always refer to vehicle user manual. Not all bulbs are featured.

Ceci n'est qu'un guide. Veuillez toujours consulter le guide du propriétaire du véhicule. Les ampoules ne sont pas toutes illustrées.



Headlight Bulbs Ampoules pour phares avants



Fog Bulbs Ampoules pour phares antibrouillard



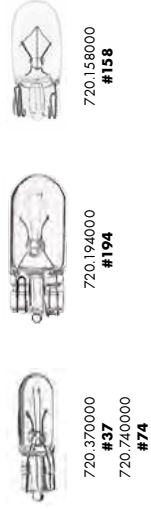
Park/Position Bulbs Ampoules de lumières de stationnement



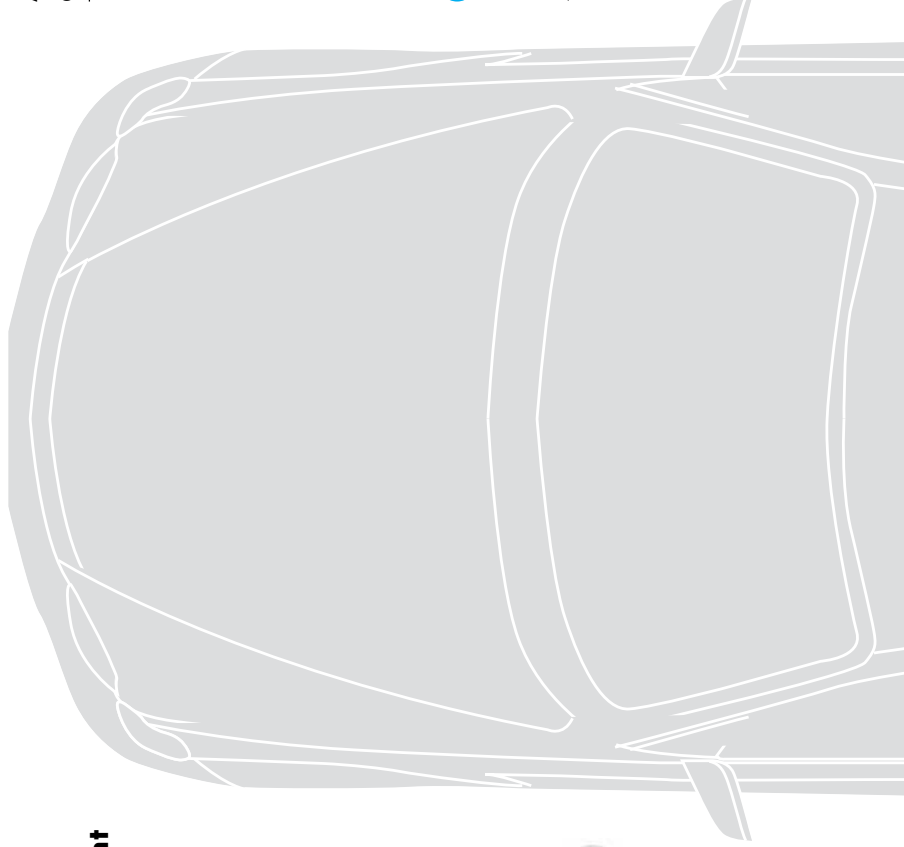
Front Turn-Signal Bulbs Ampoules pour feux clignotant avant



Panel Bulbs Ampoules de panneau latéral



Side Marker Bulbs Ampoules pour feux d'encombrement





Rear Turn-Signal Bulbs Ampoules pour feux clignotants arrière



720.744010
#7440A



720.192100
#921



720.7507
#7507



720.934970
#3497



720.973060
#7506



720.115710
#1157A



720.744300
#7443



720.315710
#3157A

IMPORTÉ

AUTOMOTIVE BULBS AMPOULES AUTOMOTIVE 12V



Interior Bulbs Ampoules pour lumière intérieure



720.891000
#89



720.211000
#211-2



720.561000
#561



License Plate Bulbs Ampoules pour lumière intérieure



720.168000
#168
720.194000
#194



720.670100
#67
720.891000
#89



720.282500
#2825



720.930220
#3022



Brake/Tail Bulbs Ampoules pour feux arrière/feux d'arrêt



720.168000
#168
720.194000
#194



720.315600
#3156



720.115700
#1157
720.205700
#2057
720.233700
#2337



720.305700
#3057
720.315700
#3157
720.744400
#4157LL



720.752800
#7528



720.115710
#1157A



Reversing Bulbs Ampoules pour feux de recul



720.192100
#921



720.975060
#7506



720.934970
#3497



720.115600
#1156



720.744000
#7440



720.315600
#3156
720.315500
#3155LL



Headlight Bulbs Ampoules pour phares avants



Fog Bulbs Ampoules pour phares antibrouillard



Front Turn-Signal Bulbs Ampoules pour feux clignotant avant



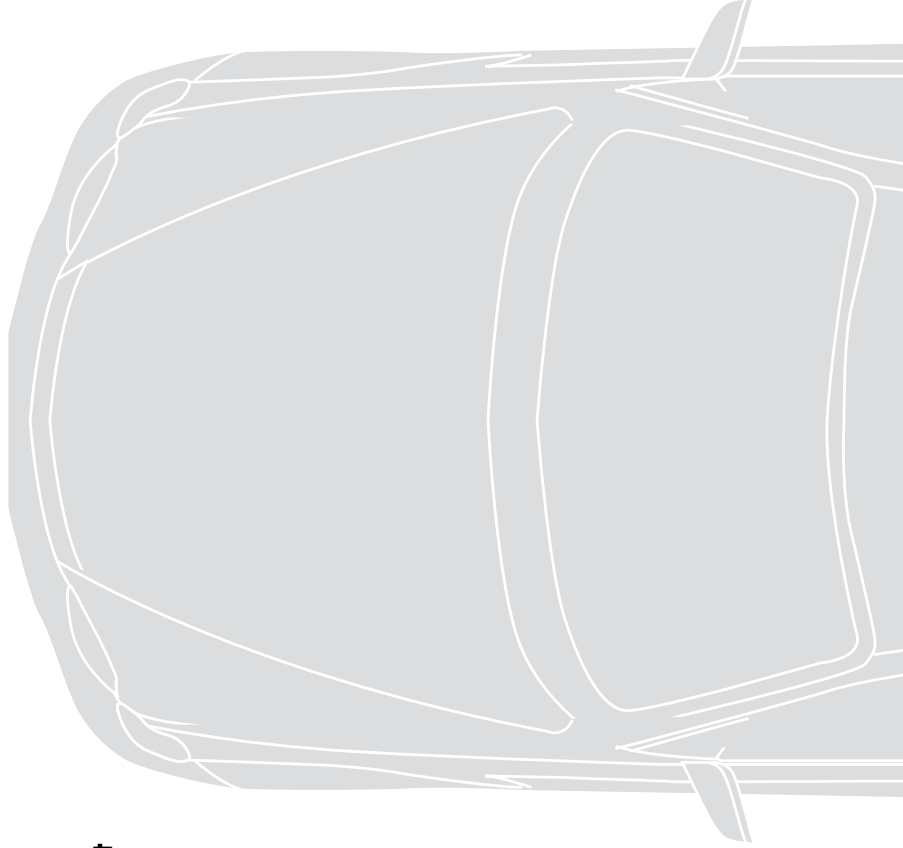
Panel Bulbs Ampoules de panneau latéral



Park/Position Bulbs Ampoules de lumières de stationnement



Side Marker Bulbs Ampoules pour feux d'encombrement



EUROPÉAN EUROPÉEN

AUTOMOTIVE BULBS AMPOULES AUTOMOTIVE

12V



Rear Turn-Signal Bulbs Ampoules pour feux clignotants arrière



Interior Bulbs

Ampoules pour lumière intérieure



License Plate Bulbs Ampoules pour lumière intérieure



Brake/Tail Bulbs Ampoules pour feux arrière/feux d'arrêt



Reversing Bulbs

Ampoules pour feux de recul



MINIATURE BULBS • AMPOULES MINIATURES

720.912000
#912720.192100
#921720.194100
#194A720.168000
#168720.194000
#194720.370000
#37720.240000
#24720.189500
#1895720.530000
#53720.744010
#7440A720.744300
#7443720.744000
#7440720.906000
#906720.115710
#1157A720.100300
#1004720.100200
#1003720.500700
#5007720.670100
#67720.570000
#57720.115700
#1157720.205700
#2057720.115620
#1156I720.115600
#1156720.235700
#2357



720.27211
#2721MF



720.744400
#4157LL



720.315710
#3157A



720.315600
#3156



720.305700
#3057

HALOGEN LAMPS • LAMPES HALOGÈNES



720.641510
#H355W



720.211000
#211-2



720.900300
#9003



720.900600
#H189006



720.642110
#H11-55W



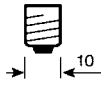
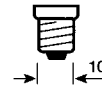
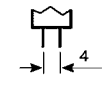
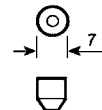
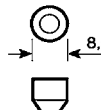
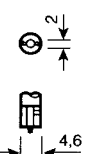
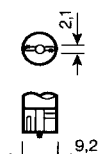
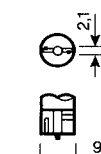
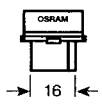
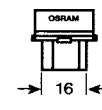
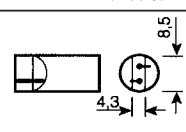
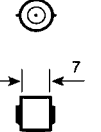
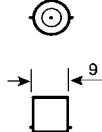
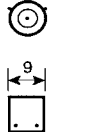
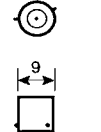

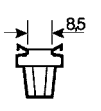
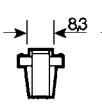
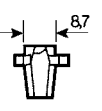
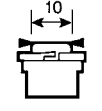
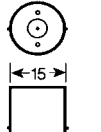
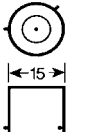
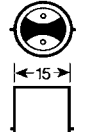
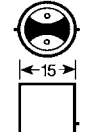
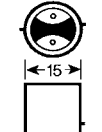
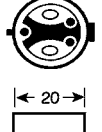
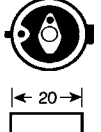
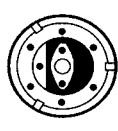
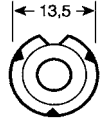
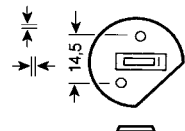
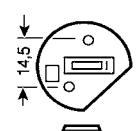


720.900500
#9005

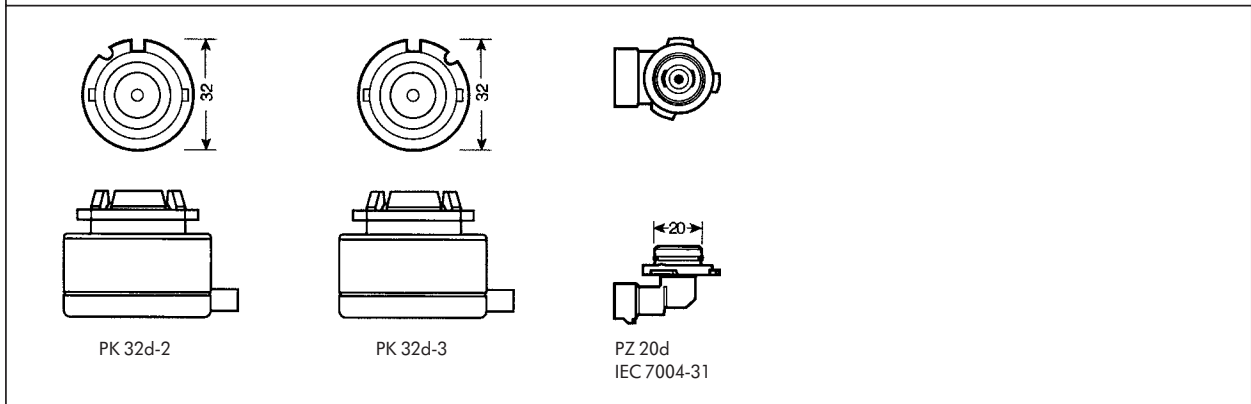
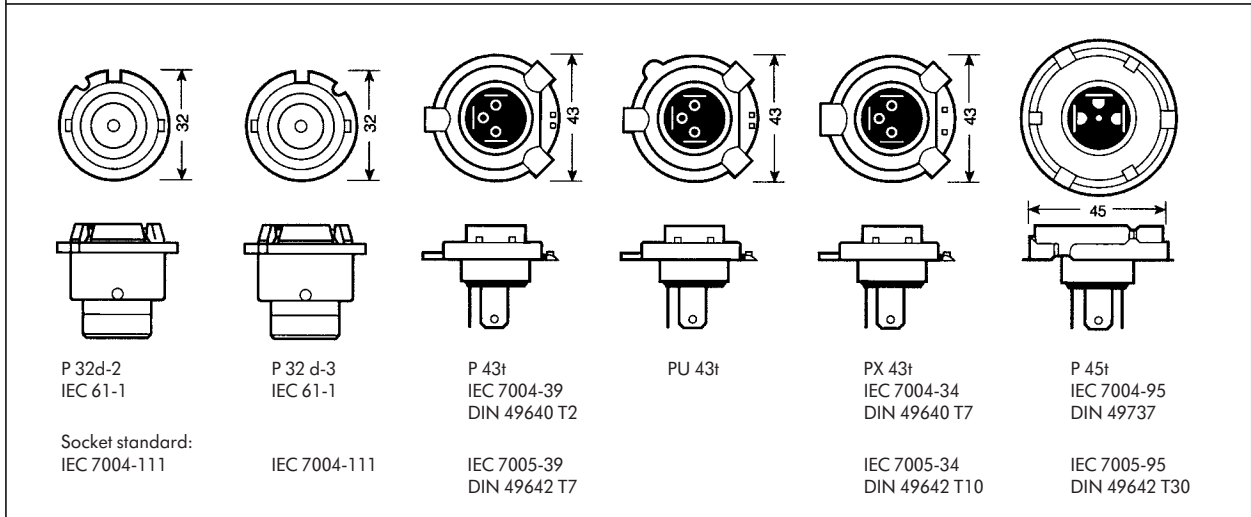
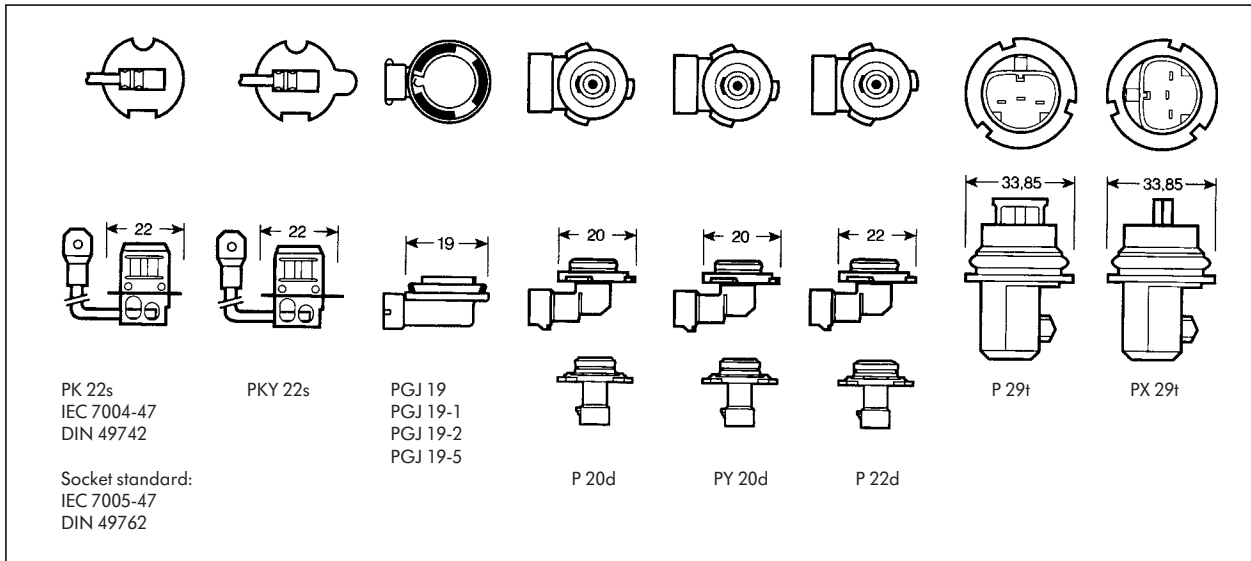


720.900700
#9007

OUR TOP PICKS • NOS MEILLEURS CHOIX

Socket Overview with Socket Standards

 <p>E 10 IEC 7004-22 DIN 49610</p> <p>Socket standard: IRC 7005-20</p>	 <p>EP 10 IEC 7004-30 DIN 49701</p> <p>Socket standard: IEC 7005-30 DIN 49642 T27</p>	 <p>G 4 IEC 7004-72 DIN 49757</p> <p>Socket standard: IEC 7005-72</p>	 <p>SV 7-8 IEC 7004-80 DIN 49705 T1</p> <p>Socket standard: IEC 7005-80 DIN 49767</p>	 <p>SV 8,5-8 IEC 7004-81 DIN 49705 T2</p> <p>Socket standard: IEC 7005-80 DIN 49767</p>				
 <p>W 2x4,6d IEC 7004-94 DIN 49632 T1</p> <p>Socket standard: IEC 7005-94 DIN 49642 T2</p>	 <p>W 2,1x9,2d</p>	 <p>W 2,1x9,5d IEC 7004-91 DIN 49632 T2</p> <p>Socket standard: IEC 7005-91 DIN 49642 T4</p>	 <p>W 2,5x1,6d</p>	 <p>W 2,5x1,6q</p>	 <p>W 4,3x8,5</p>			
 <p>BA 7s IEC 7004-15 DIN 49710</p> <p>Socket standard: IEC 7005-11 DIN 49642 T11</p>	 <p>BA 9s IEC 7004-14 DIN 49715</p> <p>Socket standard: IEC 7005-12 DIN 49642 T12</p>	 <p>BAY 9s DIN 49640</p>	 <p>BAX 9s DIN 49640</p>	 <p>B 8,4-12,5 BxB 8,4-12,5</p>	 <p>B 8,5d BX 8,5d</p>	 <p>B 8,3d</p>	 <p>B 8,7d</p>	 <p>B 10d-14,5 BX 10d-14,5</p>
 <p>BA 15s IEC 7004-13 DIN 49720 T1</p> <p>Socket standard: IEC 7005-13 DIN 49642 T6</p>	 <p>BAU 15s IEC 7004-19 DIN 49720 T5</p> <p>Socket standard: IEC 7005-13 DIN 49642 T8</p>	 <p>BA 15d IEC 7004-13 DIN 49720 T1</p> <p>Socket standard: IEC 7005-13 DIN 49642 T6</p>	 <p>BAY 15d IEC 7004-11 B DIN 49720 T2</p> <p>Socket standard: IEC 7005-13 DIN 49642 T6</p>	 <p>BAZ 15d DIN 49720 T4</p>	 <p>BA 20d IEC 7004-12 DIN 49730</p> <p>Socket standard: IEC 7005-14 DIN 49735</p>	 <p>BA 20s IEC 7004-12 DIN 49730</p> <p>Socket standard: IEC 7005-14 DIN 49735</p>		
 <p>P 26s IEC 7004-36 DIN 49727</p> <p>Socket standard: IEC 7005-36 DIN 49642 T2</p>	 <p>PX 13,5s IEC 7004-35 DIN 49640 T5</p> <p>Socket standard: IEC 7005-35 DIN 49642 T5</p>	 <p>P 14,5s IEC 7004-46 DIN 49738</p> <p>Socket standard: IEC 7005-46 DIN 49739</p>	 <p>PX 14,5s</p>	 <p>PX 26 d IEC 7004-5-1</p>	 <p>X 511 IEC 7004-99 DIN 49640 T1</p> <p>Socket standard: IEC 7005-99 DIN 49642 T2</p>			



- BA = Bayonet
- B = Plastic socket
- W = Glass socket
- s (single) = 1-pin
- d (double) = 2-pin
- t (triple) = 3-pin

BULB DESCRIPTIONS

Article Number	Bulb Number	Article Description	Pack Size	Product Weight (grams per item)	Power Rating	Nominal Voltage	Socket Designation
INDICATOR BULBS							
720.100200	1003	12.8V-12W MINI LAMP .94AMP NO.1003	10	181.43	12.03	12.8V	SC Bayonet
720.100300	1004	12.8V-12W MINI LAMP .94AMP NO.1004	10	181.43	12.032	12.8V	DC Bayonet
720.315600	3156	12.8V-26W MINI LAMP 2.1AMP NO.3156(P27W)	10	136.07	26.88	12.8V	SF Plastic Wedge
720.744000	7440	12V-21W MINI LAMP 1.75AMP NO.7440(W21W)	10	181.43	21	12.00V	Wedge (T 6 1/2)
720.744010	7440A	12V-21W AMBER MINI LAMP 1.75AMP NO.7440A	10	181.43	21	12.00V	Wedge (T 6 1/2)
BRAKE/TAIL BULBS							
720.001610	161	14V-2.66W WEDGE T-3.25 .19AMP NO.161	10	45.35	2.66	14.00V	Wedge T 3 1/4
720.099160	916	13.5V-7.29W WEDGE T-5 .54 AMP NO.916	10	90.71	7.29	13.5V	Wedge T5
720.099161	916NA	13.5V-7W MINI WEDGE AMBER-T-5 NO.916NA	10	90.71	7.29	13.5V	Wedge T5
720.192100	921	12.8V-17.92W WEDGE T5 1.40A NO.921(11W6W)	10	90.71	17.92	12.8V	Wedge T5
720.099220	922	12.8V-12.54W WEDGE T-5 0.98AMP NO.922	10	90.71	12.544	12.8V	Wedge T5
720.103400	1034	12.8V-23/8W DC INDEX S8 1.8/.59A NO.1034	10	181.43	23/8.59	12.8/14V	DC Index (BAY 15d)
720.114100	1141	12.8V-18.4W MINI LAMP S8 1.44AMP NO.1141	10	181.43	18.4	12.8V	SC Bayonet (BA 15s)
720.115400	1154	6.3V-16.5/5W DCINDEX S8 2.63/.75A NO1154	10	181.43	16.57/5.25	6.3/7V	DC Index (BAY 15d)
720.115600	1156	12.8V-26.88W MINI LAMP S8 2.10AMP N.1156	10	181.43	26.88	12.8V	SC Bayonet (BA 15s)
720.305700	3057	12.8V-26.88W WEDGE S8 D.F. 2.1AMP NO3057	10	136.07	26.88/6.72	12.8/14V	DF Plastic Wedge
720.500700	5007	12V-5W MINI LAMP T6 SC .41A NO.5007(R5W)	10	90.71	5	12V	SC Bayonet (BA 15s)
720.722500	7225	12V-28W INDEX DC S8 1.75A NO7225(P21/4W)	10	181.43	28.80/3.96	12.8/12V	DC Index (BAZ15d)
720.744300	7443	21V-21/5W WEDGE T6.5 1.75 NO7443(W21/5W)	10	181.43	21/5	12.00V	Wedge T-6 1/2
720.975060	7506	12V-21W MINI LAMP S8 1.75AM NO7506(P21W)	10	181.43	21	12.00V	SC Bayonet (BA 15s)
720.750700	7507	12V-21W AMBER MINI S8 1.75A NO7507(P21W)	10	181.43	21	12.00V	SC Bayonet (BAU15s)
720.752800	7528	12.8V-21W INDEXDCS8 1.75A NO7528(P21/5W)	10	181.43	21/5	12.8/12V	DC Index (BAY 15d)
720.115610	1156A	12.8V-26.88W AMBER MINI S8 2.10A NO1156A	10	181.43	26.88	12.8V	SC Bayonet (BA15s)
720.115620	1156I	12.8V-26.88W MINI LAMP S8 2.10AMP N.1156I	10	181.43	26.88	12.8V	SC Bayonet (BA15s)
720.405700	4057LL	12.8V-28.5W WEDGE S8 2.23AMP NO.4057LL	10	136.07	28.5/6.72	12.8/14V	DF Plastic Wedge
720.941140	4114LL	14V-31.2W WEDGE S8 DF 2.23AMP NO.4114LL	10	136.07	31.2/8.26	14/14V	DF Plastic Wedge
720.744400	4157LL	12.8V-28.54W WEDGE S8 DF 2.1AMP NO4157LL	10	136.07	28.54/8.26	12.8/14V	DF Plastic Wedge
720.744500	7444NA	12.8V-28W AMBER WEDG T6.5 2.23A NO7444NA	10	181.43	28/8	12.8/14V	Wedge T 6 1/2
HALOGEN BULBS							
720.900300	9003	12V-67/61W HALOGEN T4 5/8 5.2/4.7A N9003	1	36.28	67 High/ 61 Low	12.00V	P43t
720.900400	9004	12V-65/45W HALO T4 5/8 5.08/3.51A N9004	1	49.89	65 High/ 45 Low	12.00V	Axial Prefocus (P29t)
720.900500	9005	12V-65W HALOGEN T4 5.08AMP NO.9005	1	36.28	65	12.00V	Right Angle Prefocus P20d
720.900600	9006	12W-55W HALOGEN T4 5/8 4.3AMP NO.9006	1	36.28	55	12.00V	P22d
720.900700	9007	12V-65/55W HALO T4 5/8 5.08/4.29A N9007	1	49.89	65 High/ 55 Low	12.00V	PX29t
720.914000	9140	12V-40W HALOGEN T4 3.13 AMP NO.9140	1	36.28	40	12.00V	P20d-40A
720.914500	9145	12V-45W HALOGEN T4 3.75AMP NO.9145	1	36.28	45	12.00V	Right Angle Prefocus P20d
720.641100	64111	12V-5W HALOGEN T2 3/4 .42AM NO64111(H5W)	1	9.07	5	12.00V	Miniature Bayonet (BA9s)
720.641150	64115	13.5V-22.5W HAL T23/4 1.6A NO64115(H20W)	1	9.07	22.5	13.5V	Miniature Bayonet (BA9s)
720.641362	64136	13.5V-26.25W HA T2 3/4 1.5A N64136(H21W)	1	9.07	26.25	13.5V	Miniature Bayonet (BAY9s)
720.990043	9004 100/80W	12W-100/80W H T45/8 7.82A N9004 100/80W	1	49.89	100 High/ 80 Low	12.00V	Axial Prefocus (P29t)
720.990060	9006XS	12V-55W HALOGEN T4 5/8 4.3AMP NO.9006XS	1	36.28	55	12.00V	P22d Straight
720.900800	9008 (H13)	12V-60/55W H T5 1/4 4.69/4.2A N9008(H13)	1	49.59	60 High/ 55 Low	12.00V	P26.4t
720.880120	9012LL	12V-60W HALOGEN T4 LONGLIFE NO.9012LL	1	36.28	60	12.00V	PX22d
720.906020	D1R	85V-35W HALOGEN T3 .412AMP NO.D1R	1	49.89	35	85.00V	PK32d3
720.906010	D1S	85V-35W HALOGEN T3 .412AMP NO.D1S	1	99.79	35	85.00V	PK32d3
720.906030	D2R	85V-35W HALOGEN T3 .412AMP NO.D2R	1	49.89	35	85.00V	PK32d2
720.963710	D3R	42V-35W HALOGEN T3 .83AMP NO.D3R	1	99.79	35	42.00V	PK32d6
720.963720	D3S	42V-35W HALOGEN T3 .833AMP NO.D3S	1	99.79	35	42.00V	PK32d6
720.906050	D4S	42V-35W HALOGEN T3 .833AMP NO.D4S	1	49.89	35	42.00V	P32d5
720.641520	H1 100W	13V-85W HALOGEN T 2 1/2 8.33A NO.H1 100W	1	9.07	85	13.00V	P14.5s
720.641500	H1 55W	12V-65W HALOGEN T2 1/2 4.58AMP NO.H1 55W	1	9.07	65	12.00V	P14.5s
720.642110	H11 55W	12V-65W HALOGEN T2 1/2 4.58AMP N.H11 55W	1	36.28	55	12.00V	PGJ19-2
720.642410	H3 100W	12V-55W HALOGEN T3 1/2 4.58AMP NO. H11B	1	36.28	55	12.00V	PGJ19-2
720.641530	H11B	12V-100W HALOGEN T3 1/2 8.33AMP N.H3100W	1	9.07	100	12.00V	PK22s
720.641510	H3 55W	13V-68W HALOGEN T3 1/4 4.58AMP N.H3 55W	1	9.07	68	13.00V	PK22s
720.912590	H4 100/55W	13V-100/55W H T4 5/8 8.3/4.58A N.4100/55W	1	36.28	100 High/ 55 Low	13.00V	P43t
720.641300	H4 60/55W	13.2V-60/55W H T4 5/8 5/4.58A N.H460/55W	1	36.28	60 High/ 55 Low	13.2V	P43t
720.642152	H7 70W 24V	24V-70W HALOGEN T3 1/2 2.92A NO.H724V70W	1	18.14	70	24.00V	PX26d
720642101	H7 55W	12V-55W HALOGEN PX26d-4.58A NO.H7 55W	1	18	56	12.00V	PX26d
720.642120	H8 35W	12V-35W HALOGEN T4 2.91AMP NO. H8 35W	1	36.28	35	12.00V	PGJ19-1
720.642130	H9 65W	12.8V-70W HALOGEN T4 5.41AMP NO.H9 65W	1	36.28	70	12.8V	PGJ19-5
720.641950	HIB9003	12.8V-64/61W HALOGEN 5.5/5A NO.HIB9003	1	36.28	60/55	12.00V	P43t
720.900600	9006	12V-55W HALOGEN T4 5/8 4.3AMP NO.HIB9006	1	36.28	55	12.00V	P22d

BULB DESCRIPTIONS

Article Number	Bulb Number	Article Description	Pack Size	Product Weight (grams per item)	Power Rating	Nominal Voltage	Socket Designation
HEADLIGHT BULBS							
720.880000	880	V12-27W HALOGEN T3 1/4 2.1AMP NO.880	1	18.14	27	12.00V	Axial (PG13)
720.881000	881	V12-27W HALOGEN T 1/4 2.1AMP NO.881	1	18.14	27	12.00V	Right Angle Prefocus (PGJ13)
720.886000	886	V12-50W HALOGEN T3 1/4 3.9AMP NO.886	1	18.14	50	12.00V	Right Angle Prefocus (PGJ13)
720.889000	889	V12-27W HALOGEN T3 1/4 2.1AMP NO.889	1	18.14	27	12.00V	Right Angle Prefocus (PGJ13)
720.189300	891	12V08W HALOGEN T3 .63AMP NO.891	1	18.14	8	12.00V	G4 Bi-Pin
720.893000	893	12V-37.5W HALOGEN T3 1/4 2.93AMP NO.896	1	18.14	37.5	12.00V	Axial (PG13)
720.896000	896	12V-37.5W HALOGEN T3 1/4 2.93AMP NO.896	1	18.14	37.5	12.00V	Right Angle Prefocus (PGJ13)
720.989900	899	12V-37.5W HALOGEN T3 1/4 2.93AMP NO.899	1	18.14	37.5	12.00V	Axial (PG13)
720.925040	2504	12V-24W HALOGEN G6 2AMP NO.2504	1	18.14	24	12.00V	C-8Z
720.952020	5202	12V-24W HALOGEN G6 2AMP NO.5205	1	18.14	24	12.00V	PG20-3
FESTOON BULBS							
720.934260	3423	12V-5W FESTOON CAP T4 .42AMP NO.3423	10	90.71	5	12.00V	Festoon Cap
720.934250	3425	12V-10W FESTOON T4 .83AMP NO.3425	10	90.71	10	12.00V	Festoon Cap
720.646100	6461	12V-10W FESTOON T3 1/4 .83AMP NO.6461	10	90.71	10	12.00V	Festoon Cap
PARKING/LIGHT BULBS							
720.107300	1073	12.8W-23.04W MINI LAMP S8 SC 1.8AMP NO.1073	10	181.43	23.04	12.8V	SC Bayonet (BA 15s)
720.115700	1157	12.8/14V-26/8W MINI S8 DC 2.1/.59A N1157	10	181.43	26.88/8.26	12.8/14V	DC Index (BAY15d)
720.204000	2040	12.8W-8W HALOGEN WEDGE T2 1/4 .63A N2040	1	90.71	8	12.8V	Wedge (T 2 1/4)
720.205700	2057	12.8/14V-26/6W S8 DC INDEX 2.1A N2057	10	181.43	26.88/6.72	12.8/14V	DC Index (BAY15d)
720.235700	2357	12.8/14V-28/8W S8DC INDEX 2.2/.59A N2357	10	181.43	28.16/8.26	12.8/14V	DC Index (BAY15d)
720.282500	2825	12V4.8W WEDGE T 3 1/4 .40A NO.2825(W5W)	10	45.35	4.8	12V	Wedge (T3 1/4)
720.315700	3157	12.8/14V-26/8W WEDGE S8DF 2.1/.59A N3157	10	136.07	26.88/8.26	12.8/14V	DF Plastic Wedge
720.335700	3457	12.8/14V-28/6W WEDGE S8DF 2.2/.59A N3457	10	136.07	28.16/8.26	12.8/14V	DF Plastic Wedge
720.934960	3496	12.8/14V-25.2/8W T6 DCIND 2.1/.59A N3496	10	136.07	25.2/8.26	12.8/14V	DC Index (BAY15d)
720.934970	3497	12.8V-26.4W MINI T6 SC 2.20AMPS NO.3497	10	136.07	26.4	12V	SC Bayonet (BA 15s)
720.365200	3652	13.5V-4.99W T3 1/4 WEDGE .37AMP N.3652	1	45.35	4.995	13.5V	Wedge (T 3 1/4)
720.950080	5008	12V-10W MINI T6 SC .83 AMP NO.5008(R10W)	10	90.71	10	12V	SC Bayonet (BA 15s)
720.115710	1157A	12.8/14V-26/8W AM SCDC IND 2.1/.59A N1157A	10	181.43	26.88/8.26	12.8/14V	DC Index (BAY15d)
720.115720	1157J	12.8/14V-26/8W MINI S8 DC 2.1/.59A N1157	10	181.43	26.88/8.26	12.8/14V	DC Index (BAY15d)
720.194100	194A	14V-3.78W AMBER T3 1/4 WEDGE .27AMP 194A	10	45.35	3.78	14V	Wedge (T 3 1/4)
720.241000	24NA	14V-3.36W AMBER T2 3/4 WEDGE 0.24A N24NA	10	45.35	3.36	14V	Wedge (T2 3/4)
720.315710	3157A	12.8/14V-26/8W AMB S8DF WED 2/.59A 3157A	10	136.07	26.88/8.26	12.8/14V	D.F. Plastic Wedge
720.335720	3457NA	12.8/14V-26/8W AM S8DF WED 2/.59A 3157NA	10	136.07	28.16/8.26	12.8/14V	D.F. Plastic Wedge
720.375700	3757NALL	12.8/14V-26/8W AM S8DF WE 2/.59A 3157NALL	10	136.07	26.88/8.26	12.8/14V	D.F. Plastic Wedge
720.415720	4157NALL	12.8/14-28/8W AM S8DF WED 2/.59A 4157NALL	10	136.07	28.54/8.26	12.8/14V	D.F. Plastic Wedge
720.957020	5702NAK	12.8/14V-28/8W S8 WEDGE 2.2/.59A 5702NAK	10	181.43	28.54/8.26	12.8/14V	D.F. Plastic Wedge
ACCESSORY BULBS							
720.240000	24	14V-3.36W MINI T2 3/4 WEDGE .24AMP NO.24	10	45.35	3.36	14V	Wedge (T 2 3/4)
720.370000	37	14V-1.26W MINI T1 3/4 WEDGE .09AMP NO.37	10	45.35	1.26	14V	Wedge (T1 3/4)
720.530000	53	14V-1.728W MINI LAMP G3 1/2 .12AMP NO.53	10	90.71	1.728	14.4V	Miniature Bayonet (BA9s)
720.570000	57	14V-3.36V MINI LAMP G4 1/2 .24AMP NO.57	10	90.71	3.36	14V	Miniature Bayonet (BA9s)
720.670000	63	7V-4.41W MINI LAMP G6 SC .63AMP NO.63	10	90.71	4.41	7V	SC Bayonet (BA15s)
720.670100	67	13.5V-9.97W MINI LAMP G6 SC .59AMP NO.67	10	90.71	7.97	13.5V	SC Bayonet (BA15s)
720.642150	70	14V-2.1W MINI T1 3/4 WEDGE .15A NO.70	10	45.35	2.1	14V	Wedge (T 1 3/4)
720.730000	73	14V-1.12W MINI T1 3/4 WEDGE .08AMP NO.70	10	45.35	1.12	14V	Wedge (T 1 3/4)
720.740000	74	14V-1.4W MINI T1 3/4 WEDGE .1AMP NO.74	10	45.35	1.4	14V	Wedge (T 1 3/4)
720.891000	89	13V-7.54W MINI LAMP G6 SC 0.58AMP NO.89	10	90.71	7.54	13V	SC Bayonet (BA15s)
720.900000	90	13V-7.54W MINI LAMP G6 DC 0.58AMP NO.90	10	90.71	7.54	13V	DC Bayonet (BA15d)
720.930000	93	12.8V-13.312W MINI S8 GC 1.04AMP NO.93	10	181.43	13.312	12.8V	SC Bayonet (BA15s)
720.970000	97	13.5V-9.3W MINI LAMP G6 SC .69AMP NO.97	10	90.71	9.3	13.5V	SC Bayonet (BA15s)
720.158000	158	14V-3.36W MINI T3 1/2 WEDGE .24AMP N.158	10	45.35	3.36	14V	Wedge (T 3 1/4)
720.168000	168	14V-4.9W MINI T3 1/4 WEDGE .35AMP NO.168	10	45.35	4.9	14V	Wedge (T 3 1/4)
720.194000	194	14V-3.78W MINI T3 1/4 WEDGE .27AMP N.194	10	45.35	3.78	14V	Wedge (T 3 1/4)
720.561000	561	12.8V-12.416W MINI T3 RIG LOP .97A N.561	10	90.71	12.416	12.8V	Rigid Loop
720.904000	904	13.5V-9.315W MINI T5 WEDGE .69AMP N.904	10	90.71	9.315	13.5V	Wedge T5
720.906000	906	13.5V-9.315W MINI T5 WEDGE .69AMP NO.906	10	90.71	9.315	13.5V	Wedge T5
720.912000	912	12.8V-12.8W MINI T5 WEDGE 1.00AMP NO.912	10	90.71	12.8	12.8V	Wedge T5
720.917000	917	12V-14.4W MINI T5 WEDGE 1.20AMP NO.917	10	90.71	14.4	12V	Wedge T5
720.920000	920	12.8V-15.36W MINI T5 WEDGE 1.20AMP N.920	10	90.71	15.36	12.8V	Wedge T5
720.107600	1076	12.8V-23W MINI LAMP S8 DC 1.80 AMP NO.1076	10	181.43	23.04	12.8V	DC Bayonet (BA15d)
720.181600	1816	13V-4.29W MINI LAMP T3 1/4 .33AMP N.1816	10	45.35	4.29	13V	Miniature Bayonet (BA9s)
720.186600	1866	6.3V-1.575W MINI T3 1/4 M .25AMP NO.1866	10	45.35	1.575	6.3V	Miniature Bayonet (BA9s)
720.189100	1891	14V-3.36W MINI T3 1/4 M .24AMP NO.1891	10	45.35	3.36	14V	Miniature Bayonet (BA9s)
720.918930	1893	14V-4.62W MINI LAMP T3 1/4 .33AMP N.1893	10	45.35	4.62	14V	Miniature Bayonet (BA9s)
720.189500	1895	14V-3.78W MINI LAMP G4 1/2 .27AMP N.1895	10	45.35	3.78	14V	Miniature Bayonet (BA9s)
720.203300	2033	13.5V-3W MINI LAMP T2 1/2 .22AMP NO.2033	1	45.35	3	13.5V	Printed Circuit

BULB DESCRIPTIONS

Article Number	Bulb Number	Article Description	Pack Size	Product Weight (grams per item)	Power Rating	Nominal Voltage	Socket Designation
ACCESSORY BULBS - CONTINUED							
720.928210	2821	12V-3W MINI T3 1/4 WEDG .25A N.2821(W3W)	10	45.35	3	12V	Wedge T 3 1/4
720.930210	3021	12V-3W MINI T2 1/2 FESTOON.25 AM N.3021	10	45.35	3	12V	Festoon Cap
720.930220	3022	13V-5W T2 1/4 FESSTOON CAP .38A N.3022	10	45.35	5	13V	Festoon Cap
720.931750	3175	12V-10W MINI T3 FESTOON .83AMP NO.3175	10	45.35	10	12V	Festoon Cap
720.938930	3893	12V-4W MINI LAMP T2 3/4 BA9 .36AM N.3893	10	45.35	4	12V	Miniature Bayonet (BA9s)
720.938980	3898	12V-2.04W MINI LAMP T2 .17AMP NO.3898	10	45.35	2.04	12V	BA7s
720.970140	12272NA	13.5V-24W HiPerE18 AMBER 1.78A N.12272NA	1	18.14	24	13.5V	PU20d-6
720.205710	2057A	12.8/14V-26/6W S8 DCIND AMB 2/.48A N2057A	10	18.14	26.88/6.72	12.8/14V	DC Index (BAY15d)
720.211000	211-2	12.8V-12.416W T3 D END CAP .97A N.211-2	10	90.71	12.416	12.8V	Miniature Cap
720.235719	2357A	12.8/14V-26/6W S8 DCIND AM 2/.59 N2357A	10	181.43	28.16/8.26	12.8/14V	DC Index (BAY15d)
720.272111	2721MF	12V-1.2W T1 1/2 W/SOCKET .1AMP N.2721MF	10	45.35	1.2	12V	T 1 1/2 Socket
720.305710	3057A	12.8/14V-26/6W S8 DF WE AM 2/.48A N3057A	10	136.07	26.88/6.72	12.8/14V	DF Plastic Wedge
720.315500	3155LL - N/A	12.8V-20.48W S8 PL WEDGE 1.6AMP N.3155LL	10	136.07	20.48	12.8V	SF Plastic Wedge
OTHER BULBS							
720.94656	H4656	12V-35/35W HALOGEN HIGH/LOW BEAM N.H4656	1	748.42	35/35	12.8	TYPE 2A1
720.96054	H6054	12V-65/35W HALOGEN HIGH/LOW BEAM N.H6054	1	830.07	60/35	12.8	TYPE 2B1
720.94651	H4651	12V-50W HALOGEN SEALED BEAM NO.H4651	1	226.79	50	12.8	TYPE 1A1
720.92827	2827	12V-4.8W WEDGE T3-1/4 0.40AMP NO.2827	10	31.75	4.8	12	Wedge T3 1/4
720.90899	899BP	12V-37W HALOGEN HIGH MT NO.899BP	1	18.144	37.5	12	Axial (PG13)
720.903496	3496BP	12V-14/8W T6 DC NO.3496	1	27.215	25.2/8.26	12.8/14.00	D.C Index (BAY15d)
720.91638	1638	28V-28W MINI S8 DC BA15d 1.02AMP.N.1638	1	136.07	28.56	28	D.C Bayonet (BA15d)
720.91203	1203	28V-19W MINI S8 DC BAY 0.71AMP.N.1203	10	136.07	19.88	28	S.C Bayonet (BA15s)
720.91662	1662	28V-25W MIN S8 DC INDBAY15d .9AMP.N.1662	10	136.07	25.2/9.52	28/28	D.C Index (BAY15d)
720.91204	1204	28V-19W MINI S8 DC BAY 0.71AMP-NO.1204	10	136.07	19.88	28	D.C. Bayonet (BA15d)
720.91638	1638	28V-28W MINI S8 SC BA15s 1.02AMP-NO.1683	1	136.07	28.56	28	S.C. Bayonet (BA15s)
720.91525	1252	28V-6W MINI G6 DC BAY 0.23AMP-NO.1252	10	136.07	6.44	28	D.C. Bayonet (BA15d)
720.91691	1691	28V-17W MINI S8 SC BA15s 061AMP-NO.1691	10	136.07	17.08	28	S.C. Bayonet (BA15s)
720.91820	1820	28V-2.8W MINI T3 1/4 MBAY-0.10AMP.N.1820	10	45.35	2.8	28	Mini Bayonet (BA9s)
720.91873	1873	28V-5W MINI T3 1/4 MBAY-0.20AMP.N.1873	10	45.35	5.6	28	Mini Bayonet (BA9s)
720.92741	2741MF	24V-1.2W MIN T1 1/2 W/SCK .05AMP.N2741MF	10	45.35	1.2	24	T1 1/2 Socket
720.91424	H3 70W/24V	24V-70W HALO T3 1/4 PK22s-2.92A-N.H3 70W	1	9.071	84	28	PK22s
720.191001	RSB50	130V-50W A19 IF, RSB50 ROUGH SER BULB	6	225	50	130	A-19
720.191002	RSB75	130V-75W A19 IF, RSB75 ROUGH SER BULB	6	225	50	130	A-19
720.191003	RSB100	130V-100W A19 IF, RSB100 ROUGH SER BULB	6	225	50	130	A-19

LED LAMPS



Advantages of LED Technology

- Long service life, as maintenance-free
- No bulb change necessary
- Very low power consumption
- Hermetically sealed
- Resists road dirt, dust and moisture
- Solid state circuit boards
- LEDs provide 100,000 hour lifetime rating
- Meets or exceeds DOT FMVSS 108 & MOT CMVSS108
- Will fit Grote grommets

Oval LED lamps

- Polycarbonate body and lens
- Zinc plated steel contacts
- Epoxy encapsulated circuit board

Grommets: 812.420244 open back or 812.420245 closed back

Pigtails: 812.420251 & 812.420250 right angle plug

LED Colour	Lens Colour	# of Diodes	Dimensions L x W x H	Mounting Clearance	Function	Voltage	Amp Draw	SAE	Art. No.	Qty.
Amber	Amber	10	6-1/2 x 2-1/4 x 1-1/8"	1-7/8" Depth	Signal/ Park	12 V	30 mA - 210 mA	I6P	812.420232	1
Red	Red				Stop/ Turn/ Tail		20 mA - 110 mA	S2T2I6	812.420231	
Clear	Clear				Back-up		18 mA	R2	812.420233	
Amber	Amber	24	6 1/2 x 2 1/4 x 1"		Turn/ Tail/ Park		10 mA - 160 mA	IP	812.120228	
Red	Red				Stop/ Turn/ Tail/ Park		10 mA - 200 mA	STIP	812.120229	
Clear	Clear				Back-up		90 mA	R2	812.420234	
Red	Clear	10	6-1/2 x 2-1/4 x 1-1/8"		Stop/ Turn/ Tail		20 mA - 110 mA	S2T2I6	812.461040	
Amber		24	6 1/2 x 2 1/4 x 1"		Turn/ Tail/ Park		10 mA - 160 mA	IP	812.461031	
Red		24	6 1/2 x 2 1/4 x 1"		Stop/ Turn/ Tail/ Park		10 mA - 170 mA	STIP	812.461030	

LED LAMPS



Round LED Lamps

- Polycarbonate body and lens
- Zinc plated steel contacts
- Epoxy coated circuit board

Grommets: 812.420246 open back or 812.420247 closed back

Pigtails: 812.420251 straight plug or 812.420250 right angle plug

LED Colour	Lens Colour	# of Diodes	Dimensions	Mounting Clearance	Function	Voltage	Amp Draw	SAE	Art. No	Qty.
Amber	Amber	10	4-1/4" ø 7/8" H	1-7/8" Depth	Signal/ Park	12 V	36 mA/290 mA	I6P	812.420225	1
Red	Red				Stop/ Turn/ Tail		22 mA/147 mA	S2T2I6	812.420226	
Clear	Clear				Back-up		0.29	R2	812.420227	
Amber	Amber	24	4-1/4" ø 1" H	1-3/8" Depth	Signal/ Park	12 V	23 mA /400 mA	IP	812.420223	1
Red	Red				Stop/ Turn/ Tail		18 mA/272 mA	STI	812.420224	
Clear	Clear				Back-up		0.23 AMP	IP	812.420220	
Red	Clear	24	4-1/4" x 1" H	1-3/8" Depth	Stop/ Turn/ Tail	18 mA/212 mA	STI	812.461011		

LED LAMPS WITH SILVER SURFACE MOUNT



Advantages of LED Technology

- Long service life, as maintenance-free
- No bulb change necessary
- Very low power consumption
- Hermetically sealed
- Resists road dirt, dust and moisture
- Solid state circuit boards
- LEDs provide 100,000 hour lifetime rating
- Meets or exceeds DOT FMVSS 108
- Will fit Grote grommets

Oval LED lamps

- Polycarbonate body and lens
- Zinc plated steel contacts
- Epoxy encapsulated circuit board

Surface mount installation eliminates the need to cut mounting hole and does not require grommets & pigtailed.

LED Colour	# of Diodes	Dimensions L x W x H	Mounting Hole Size	Mounting Centre	Function	Voltage	Amp Draw	SAE	Art. No.	Qty.
Amber with Chrome Bezel	10	7-9/16" x 3-5/16" x 7/8"	3/16"	6-11/16"	Signal/Park	12V	26 mA / 217 mA	16P	812.461051	1
Red with Chrome Bezel				2-11/16"	Stop/Turn/Tail		29 mA / 119 mA			

ROUND LED CLEARANCE MARKER LAMPS



- Polycarbonate body and lens
- Zinc plated steel contacts
- Epoxy encapsulated circuit board
- * Epoxy coated circuit board

LED Colour	# of Diodes	Dimensions	Function	Voltage	Amp Draw	SAE	Art. No.	Qty.					
Amber	4	2" ø 1" H	Clearance Marker	12 V	92.6 mA	P2	812.420208 *	1					
Red					90.7 mA		812.420207 *						
Amber	10 Star Pattern				90.7 mA		812.420206						
Red					90.7 mA		812.420205						
Amber with clear lens	10				90.7 mA		812.420195						
Red with clear lens					90.7 mA		812.420198						
Amber	4				2-1/2" ø 1" H		Clearance Marker		12 V	87.3 mA	P2	812.420204 *	1
Red										89.5 mA		812.420203 *	
Amber	13 Star Pattern									107.7 mA		812.420202	
Red										107.7 mA		812.420201	

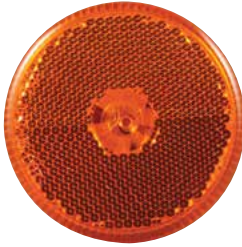
SEALED LAMPS WITH DECORATIVE CHROME BEZELS



- LED lamps with chrome on ABS bezels and 2 wires
- Surface mount installation without grommet & pigtailed
- Hard wired contacts
- Polycarbonate lens and body
- Epoxy coated circuit board

LED Colour	# of Diodes	Dimensions L x W x H	Mounting	Function	Voltage	Amp Draw	SAE	Art. No.	Qty.
Amber	6	6-5/8 x 2-1/8 x 7/8"	4" centre	Clearance marker	12 V	89.6 mA	P2	812.420222	1
Red						88.5 mA		812.420221	

LED CLEARANCE MARKER LAMPS - REFLECTIVE



- Contacts: Zinc plated steel
- Epoxy encapsulated circuit board
- Polycarbonate lens & body

Colour	# of Diodes	Dimensions	Function	Voltage	Amp Draw	SAE	Art. No.	Qty.
Amber	4	2-1/2" \varnothing	Clearance marker/ reflector	12 V	107.7 mA	AP2	812.420252	1
Red		3/4" depth			63.2 mA		812.420253	

LED MARKER LAMPS



4 Diode Series

- Come with base mount, hotwire and built-in ground.
- Quick installation without pigtail.
- Polycarbonate lens and body.
- Epoxy encapsulated circuit board.
- Zinc plated steel contacts.
- 12V applications.

Dimensions (LxWxH)	Colour	Super Flux diodes	Function	Amp draw	SAE	Art. No.	Qty.
4" x 1-1/2" x 7/8"	Red	4	Clearance marker	0.07 Amp	P2PC	812.420717	1
	Amber					812.420866	

* Alternatives to 12-diode marker lamps 812.420254 and 812.42055.

SEALED LAMPS



- Base mount, hotwire and built-in ground
- Quick installation without pigtail
- Base mount: ABS
- Contacts: Zinc plated steel
- Polycarbonate lens & body
- Epoxy coated circuit board

Colour	# of Diodes	Dimensions L x W x H	Function	Voltage	Amp Draw	SAE	Art. No.	Qty.
Amber	12	3-7/8 x 1-1/4 x 7/8"	Clearance marker	12 V	153.8 mA	P2	812.420254	1
Red					156 mA		812.420255	

LED LICENSE LAMP



- Lens: PMMA
- Body: ABS
- Contacts: Hard wired
- Circuit board: epoxy coated

Colour	# of Diodes	Dimensions	Mounting	Function	Voltage	Amp Draw	SAE	Art. No.	Qty.
White	12	4 x 1 7/8 x 2 1/8"	2" centre	License	12 V	165.9 mA	L	812.420210	1

MID-TURN SIGNAL LAMP



- Contacts: Zinc plated steel
- Circuit board: epoxy coated
- Polycarbonate lens & body

Colour	# of Diodes	Dimensions L x W x D	Mounting Clearance	Function	Voltage	Amp Draw	SAE	Art. No.	Qty.
Amber	9	6 1/2 x 2 1/2 x 2 3/4"	2 3/4" depth	Mid-turn reflector, Clearance marker	12 V	87 mA / 157 mA	AE2P2	812.420230	1

MOUNTING ACCESSORIES



Contact Pigtails

- Zinc plated copper contacts

Description	Style	Length	Wire Gauge	End	Art. No.	Qty.
Right PVC Angle Plug	Double Contact Pigtail	9"	16 GA	1 #10 Ring Terminal	812.420250	10
Straight PVC Plug					812.420251	
Right PVC Angle Plug	Single Contact Pigtail	6"			812.420249	



PVC Grommets

Style	For lamp size	Type	Dimensions	Sugg. Hole. Dim.	Art. No.	Qty.
Round	4"	Open back	5 1/4" ø	4 1/2" ø	812.420246	10
		Closed back			812.420247	
	2.5"	Open back	3 3/8" ø	2 25/32" ø	812.420240	
		Closed back			812.420241	
	2"	Open back	2 7/8" ø	2 5/16" ø	812.420242	
		Closed back			812.420243	
Oval	N/A	Open back	7 3/8 L x 3 1/8" W	6 1/2 L x 2 1/2" W	812.420244	
		Closed back			812.420245	

RUBBER-LIKE WORK LAMPS



Sealed beam with housing work lamp

- Work lamp housing made from high-impact synthetic rubber-like resin.
- These have the feel and shock absorbing characteristics of rubber but are UV resistant (colour will not fade or crack) and stand up to road contaminants that deteriorate rubber lamp housings.
- Mounting hardware is steel with zinc plating.
- 12V application.

Dia.	Dimensions (height x depth)	Mounting stud size	Function	Light Pattern	Watts	Candlepower	Art. No.	Qty.
5"	5-7/8" H x 3" D	5/16"	Off-road work lamp	Trap/Work*	35	3000	812.450201	1

* In a trap/work design, light is dispersed in a trapezoidal shape, unlike a spotlight

HALOGEN WORK LAMP



Double halogen bulb work lamp

- Work lamp housings are made from rugged high-impact nylon housing.
- Twin replaceable halogen high output bulbs (H3).
- Operates with one or two bulbs lit.
- Bracket is powder-coated steel with adjustable mounting hardware.
- 12V applications.

Recommended:
Replacement Bulb **Art. No. 720.641510**

Dimensions (LxWxH)	Mounting stud size	Function	Light Pattern	Watts	Art. No.	Qty.
6-1/4" x 4-3/4" x 4-1/8"	10 mm	Off-road work lamp	Flood	110 (2 @ 55 W ea.)	812.450200	1

LED WORK LAMP



Work lamp with high output LEDs

- High light output with 8 high output LED diodes.
- Low amp draw.
- Emits clear white light, with an optimum working distance up to 300 ft.
- Stylish compact aluminum housing with black powder coating, polycarbonate lens and stainless steel adjustable mounting hardware.
- Epoxy encapsulated circuit board.
- 9V-36V applications.
- 840 Lumens/5600 CP

Dimensions (LxWxH)	Mounting stud size	Function	High output diodes	Amp draw	Art. No.	Qty.
4-3/8" x 4-7/8" x 1-7/8"	5/16"	Off-road work lamp	8	0.8 Amp	812.450400	1

INCANDESCENT SEALED LAMPS



Round sealed lamps

- Polycarbonate lens and body.
- Hermetically sealed to resist road dirt, dust and moisture.
- Zinc plated steel contacts.
- Contacts are compatible with industry standard pigtails.
- Meets all DOT FMVSS108 & MOT CMVSS108 safety standards.
- 12V applications.

Description	Dimensions (Dia. x H)	Colour	Function	Amp draw	SAE	Grommet	Pigtail	Art. No.	Qty.
Round sealed	2" x 3/4"	Amber	Clearance marker	0.35 Amp	P2	• •	•	812.420862	1
Round sealed		Red	Clearance marker	0.35 Amp	P2	• •	•	812.420714	
Round sealed	2-1/2" x 3/4"	Amber	Clearance marker	0.35 Amp	P2	• •	•	812.420863	
Round sealed		Red	Clearance marker	0.35 Amp	P2	• •	•	812.420715	
Round sealed with reflective lens		Amber	Clearance marker/reflector	0.35 Amp	AP2	• •	•	812.420861	
Round sealed with reflective lens		Red	Clearance marker/reflector	0.35 Amp	AP2	• •	•	812.420713	
Round sealed, shock mounted	4-1/4" x 2"	Amber	Signal/park	0.6-2.5 Amps	IP	• •	• •	812.420710	
Round sealed, shock mounted		Red	Stop/turn/tail/park	0.6-2.5 Amps	STIP	• •	• •	812.420711	
Round sealed with reflective lens		Red	Stop/turn/tail/rear reflector/clearance marker	0.6/2.5 Amps	AIP2ST	• •	• •	812.420865	
Round back up lamp		White	Back-up	2.2 Amps	R	• •	• •	812.420660	

• • • Refer to legend below

Oval sealed lamps



- Polycarbonate lens and body.
- Hermetically sealed to resist road dirt, dust and moisture.
- Zinc plated steel contacts.
- Meets all DOT FMVSS108 & MOT CMVSS108 safety standards.
- 12V applications.

Dimensions (LxWxH)	Colour	Function	Amp draw	SAE	Grommet	Pigtail	Art. No.	Qty.
6-1/2" x 2-1/4" x 2-3/8"	Amber	Signal/park	0.6/2.5 Amps	STIPP2	• •	• •	812.420860	1
	Red	Stop/turn/tail/park	0.6/2.5 Amps	STIPP2	• •	• •	812.420712	
	White	Back up	2.22 Amps	R	• •	• •	812.420650	

• • • Refer to legend below

Accessories Guide

Grommets				
Style	Lamp Size	Type	Art. No.	Colour Code
Round	2"	Open back	812.420242	•
	2"	Closed back	812.420243	•
	2.5"	Open back	812.420240	•
	2.5"	Closed back	812.420241	•
	4"	Open back	812.420246	•
	4"	Closed back	812.420247	•
Oval		Open back	812.420244	•
		Closed back	812.420245	•
Pigtails				
Description	Style	Art. No.	Colour code	
Right angle plug	Double contact	812.420250	•	
Straight plug	Double contact	812.420251	•	
Right angle plug	Single contact	812.42049	•	

INCANDESCENT SEALED LAMPS



Dimensions (LxWxH)	Colour	Function	Amp draw	SAE	Art. No.	Qty.
4" x 1-1/4" x 7/8"	Amber	Clearance marker	0.7 Amp	P2PC	812.420864	1
4" x 1-1/4" x 7/8"	Red	Clearance marker	0.7 Amp	P2PC	812.420716	

1" x 4" Sealed lamps

- Come with base mount, hotwire and built-in ground.
- Quick installation without pigtail.
- Polycarbonate lens and body.
- Hermetically sealed to resist road dirt, dust and moisture.
- Zinc plated steel contacts.
- Meets all DOT FMVSS108 & MOT CMVSS108 safety standards.
- 12V applications.

INCANDESCENT LICENSE LAMPS



In polycarbonate housing

- License lamp kit with sealed lamp and pigtail.
- Polycarbonate lens and body (gray).
- Zinc plated steel contacts.
- Pigtail: Right PVS angle plus with 16 GA wire.
- Mounting: 2" centre.
- 12V applications.

Dimensions (LxWxH)	Function	Amp draw	SAE	Art. No.	Qty.
3-1/2" x 2-1/2" x 2-1/4"	License	0.35 Amp	L	812.420610	1



Chrome plated steel housing

- Mounting: 2" centre.
- 12V applications.

Dimensions (LxWxH)	Function	Amp draw	SAE	Art. No.	P. Qty.	Replacement bulb	Qty.
2-3/4" x 1-1/2" x 2"	License	0.6 Amp	L	812.420611	1	Art. No. 720.670100	10

INCANDESCENT BULLSEYE MARKER LAMPS



In polycarbonate housing

- High impact molded bodies with replaceable snap-on lens.
- Meet all FMVSS108 DOT and MOT CMVSS108 safety standards.
- White ABS body.
- Acrylic lens.
- Mounting: 3" centre.
- 12V applications.

Dimensions (LxWxH)	Colour	Function	Amp draw	SAE	Art. No.	Qty.	Replacement lens	Qty.	Replacement bulb	Qty.
4" x 2" x 1"	Amber	Clearance marker	0.7 Amp	P3	812.420869	1		1	720.194000	10
4" x 2" x 1"	Red	Clearance marker	0.7 Amp	P3	812.420720	1	812.420721	1	720.194000	10

LED POCKET LIGHT



Art. No. 827.500071

Features:

- COB (circuit on board) LED lighting system
- Magnetic base for convenient positioning
- Batteries Included
- Pocket clip for easy access
- Durable plastic housing with weather resistant button

Technical Data	
Light source	COB LED
Battery	3 AAA alkaline batteries (included)
Light out-put	150 lumens
Run time	Up to 7 hours

UV LED POCKET LIGHT



Art. No. 827.500072

UV LED Lamp for Leak Detection

Features:

- COB (circuit on board) LED lighting system
- Magnetic base for convenient positioning
- Batteries Included
- Pocket clip for easy access
- Durable plastic ABS housing with weather resistant button

Benefits:

- Works with all types of UV leak detection dyes
- Convenient pocket size
- Compact design easily gets into tight, cramped spaces

Technical Data	
Light Source	1.5W COB LED 100,000hr COB lifespan
Battery	3 AAA Alkaline batteries (included)
Light Output	440 - 450 nm UV
Run Time	Up to 24 hours

EXTENDABLE U/V POCKET LIGHT



Art. No. 764.1

- High powered (395 nm peak, 400 nm dominate) true U/V LED.
- Rated for over 50,000 hours of use.
- Perfect for close-up inspections.
- Pocket sized, extendable (5.51 ~ 7.09 inches).
- Includes adjustable service mirror for those hard to see areas.

ERGO POWER POCKET PEN LIGHT



Art. No. 827.500023

Rechargeable LED Pen Light

Features:

- Exclusive Würth design
- Durable aluminum slim housing design
- 6 + 1 COB LED light
- High power flood and spot light options
- Rechargeable with Micro USB
- Strong magnet on pocket clip

Benefits:

- Extremely high output and intensity
- Wide flood light angle
- Better visibility and coverage
- Longer-lasting rechargeable battery
- Convenient and easy to use

Technical Data	
Main Light	150 lumen
Spot Light	70 lumen
Bulb: Main Light	5W COB LED, 6000K, CRI=70
Bulb: Spot Light	1W LED, 6000K, CRI=70
Battery	3.7V, 800 mAh Li-ion
Switch Mode	Top light – Main light – OFF
Operation/Storage Temperature	-10° to +40°C
Charging Time	Approx. 2.5 hrs
Discharging Time	Approx. 3 hrs (main light); Approx. 6 hrs (spot light)

ERGLIGHT MINI



Art. No. 827.940370

Durable Mini Rechargeable Work Light

Features:

- Exclusive Würth design
- 2 component housing with rubber grip
- Strong magnet base
- Adjustable working base
- 4 front COB LED light + 1 power LED spot light
- 360 degree rotatable hook for hanging convenience
- Wrist strap
- Rechargeable with Micro USB

Benefits:

- Extremely high output and intensity
- Wide flood light angle
- Better visibility and coverage
- Longer-lasting rechargeable battery
- Convenient and easy to use

Technical Data		
Main Light	Luminous flux	250 lumen
	Light intensity @ 0.5 meter	1300 lux
Spot Light	Light intensity @ 0.5 meter	1500 lux
Battery	Polymer Lithium 1200mAh	
Illumination Angle	180°	
Charing Time	Approx. 3.5 hrs	
Discharging Time	Approx. 4 hrs (main light); Approx. 2.5 hrs (Spot Light)	
Operation/Storage Temperature	- 10 ° – +40 °C	
Grade of Protection	IP20	

ERGO POWER BOOST

Art. No. 827.940451 - P. Qty. 1

Rechargeable Powerful Hand Light

Features:

- Exclusive Würth design
- 1000 Lumens at boost mode
- 8+ 1 COB LED lights
- 150 Lumen Spot light with real flash light effect
- Rechargeable with USB
- 3 Strong magnets
- USB cable, AC adapter & car adapter included.

Benefits:

- Extremely high output and intensity
- Wide flood light angle
- Better visibility and coverage
- Flashlight function
- Longer-lasting rechargeable battery
- Convenient and easy to use

Technical Data	
Main light	500 lumen
Boost light	1000 lumen
Spot light	150 lumen
Battery	3.6V, 4200 mAh Li-ion
Switch mode	Top light - Main light - OFF
Operation/Storage temperature	-10° to +40°c
Charging time	approx. 2.5 hrs
Discharging time	approx. 3 hrs (main light); approx : 6 hrs (Spot Light)
Protection Class	IP65
Weight	450g



WÜRTH TACTICAL FLASH LIGHT

Powerful, Rugged, Dual LED Tactical Flashlight

The Würth Tactical Flashlight is a dual LED flashlight. It combines a powerful spot light for long distance and a wide angle flood light for close range area lighting. These two LED's increase your overall visibility.

Benefits:

- The WTL can be used for a wide array of activities including camping, hunting, hiking, police, military, workshop repair, and daily use.
- It eliminates the tunnel vision you get with a traditional flashlight and allows you to utilize your peripheral vision.
- The broader range of light greatly increases your field of view by illuminating objects, or even dangerous situations, that otherwise would have been left in the shadows.

Features:

- Spotlight & wide angle flood/area light
- 6 Modes - including strobe & S.O.S
- Tactical grip and tap to change tail switch
- Made from aircraft-grade aluminum
- Long-lasting hard anodized anti-abrasive finish
- Reverse polarity protection - guards against improper battery installation
- Tactical style bludgeon tip for self-defense
- Waterproof design
- Pocket clip included
- Anti-roll body design
- Deep knurling for proper gripping



Description	Length	Head Size	Body Diameter	Weight	Lumens	Battery	Battery Life	Modes	Art. No.	P. Qty.
4.0 Würth Tactical Light	129 mm	35 mm	30 mm	113 g (battery excluded)	400 on high	AAA (3)	10 Hours	<ul style="list-style-type: none"> • Spot/flood light • Spot high • Flood high • Flood low • Strobe • S.O.S 	827.559140	1
8.0 Würth Tactical Light					800 on high	AAA (3) + mAh 18650 rechargeable Li-ion battery & sleeve	11 Hours		827.559180	

RECHARGEABLE METAL LED FLASHLIGHT



Technical Information	
Items	Description
LED Light	LED CREE 1W
Luminous level	135 lumen (@700mA)
Battery	Lithium ion 19670
Battery charge duration	4 hrs; afterwards, the luminance level decreases to 10% in the "Power Light" mode
Electric protection	IP X6, according to IEC 60529, Section 14.2.6
Dimensions	35mm x 150mm (lamp head in) 57mm (lamp head out)
Weight	156g (without battery)
Accessories	Lithium ion battery 19670, car charger, mains charger, hand strap

Art. No. 827.805300

Extremely light-weight, aircraft aluminum LED flashlight with adjustable focusing options.

Applications:

- With CREE P4 1-watt high performance LED
- One-hand sliding carriage focusing mechanism
- Lithium battery pack, 2200 MAH, 3.7V
- Charging with 110 V power supply unit or 12-24 V DC adaptor
- Microcontroller-controlled charging technology
- Charging time for fully drained battery is approx. 4 h
- Lighting duration of up to 12 h (lamp brightness does not begin to slowly decrease until after approx. 4 h)
- Protection against water and dust, IP X6
- Overcharging protection
- Multifunction light beam: **High-light** → **Low-light** → **Flash** → **SOS**
- Dimension: 35mm × 157mm
- Weight: about 200 g

Package contents:

- 1 × battery pack, 1 × user manual
- 1 × metal torch with 1-watt high-performance LED
- 1 × 12-24 V DC vehicle adaptor and 1 × 110 V charger
- 1 × charging socket cover
- 1 × pouch for metal torch

Recommended tools:

Replacement battery **Art. No. 827.805301**

WORK LIGHT WITH 40' REEL



Art. No. 828.826

- Clear lens and bumper provides maximum light protection.
- On/off switch in handle protected from dirt and moisture.
- Outer tube and magnifying lens made of tough polycarbonate.
- 40' reel with 16 GA cord.
- Light produces 900 lumens.
- UL and C-UL listed.
- Black reel case.
- Optional wall or ceiling mount.

Recommended:

Replacement items for Art. No. 828.826



Retractable Safety Light Replacement Lens & Ballast **Art. No. 827.9639** P. Qty: 1



Replacement Lens Kit **Art. No. 827.2000** P. Qty: 1



Replacement Bulb **Art. No. 720.3009** P. Qty: 1

ROUGH SERVICE BULB



Art No.	720.191001	720.191003
Bulb Shape	A-19	A-19
Average rated life (hrs)	2500	2500
Base Style	Medium Screw (E26)	Medium Screw (E26)
Filament	C-9	C-9
Glass Diameter (mm)	60	60
Overall Length (mm)	108	108
Amps	0.38	0.77
Voltage	130	130
Wattage	50	100
Package Qty	6	6

TUFF SKIN ROUGH SERVICE BULB



Art No.	720.191007	720.191005
Bulb Shape	A-19	A-19
Average rated life (hrs)	2500	2500
Base Style	Medium Screw (E26)	Medium Screw (E26)
Filament	C-9	C-9
Glass Diameter (mm)	60	60
Overall Length (mm)	108	108
Amps	0.577	0.770
Voltage	130	130
Wattage	75	100
Package Qty	6	6

11 LUBRICANTS & GREASES

- 2** HHS Products
- 7** Premium Quality Chemical Assortment
- 7** Cutting Oils & Gels
- 10** Lubricants
- 17** Greases
- 21** Silicone Sprays
- 23** Anti-Seizes

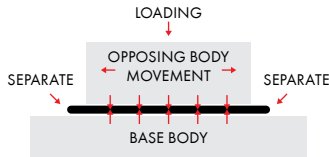


HHS 2000



Contents	Colour	Art. No.
330 g	Amber	893.106

Pressure resistance under high pressure loads



Highly adhesive penetrating synthetic lubricating oil

High lubrication power

- Prevention of noises
- Vibration and impact dampening properties
- Long lasting lubrication effectiveness

High capillary action

- The product's capillary action enables it to penetrate into inaccessible areas
- Effective creeping ability means that it does not require dismantling of parts when lubricating

Highly adhesive

- No splattering of the lubricant with turning and rotating parts

Material compatibility

- Compatible with O-Rings, X-Rings, plastic, metal, painted surfaces, etc.

Protects of the surfaces against corrosion

Resistant to salt-water spray, withstands weak acids and alkaline solutions.

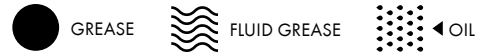
Contains no silicone, resin or acid

Operating temperature range:

-35 °C to +180 °C (-31 °F to +356 °F), temporarily: +200 °C (+392 °F)

Areas of Application:

Universal lubricating agent for parts under high pressure (e.g. shift, throttle and clutch linkages, bowden cables, hinges, deflection levers, etc.). Can be exposed to fresh and saltwater influence, and ideal for hard to reach areas and hidden lubrication points.



Capillary Action	High Pressure Resistance	Temperature Resistance	Corrosion Protection	Adhesive Strength	Durability	Material Compatibility	Dirt Repellent	Solid Lubricant
●●	●●●●	●●	●●	●●	●●	●●	●	None

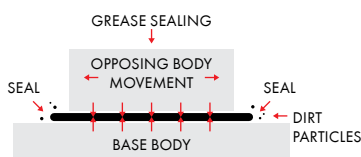
Despite high pressure loads and the shear movement of the base body, the lubricating film of the HHS 2000 remains active and does not tear off. Separates the opposing body from the base body, ensuring optimum wear protection under high pressure loads. This is possible only with a dirt-free surface!

HHS GREASE



Contents	Colour	Art. No.
312 g	Bright White	893.1067

Sealing behaviour against dirt and splash water



High-performance, long-term maintenance grease with PTFE.

Long life lubricating features

Excellent sealing behaviour against moisture and dirt. Therefore, top oxidation stability and extension of lubricating intervals. High corrosion protection abilities included.

Outstanding material compatibility

- Excellent compatibility (plastic variants)
- Behaves neutrally toward painted surfaces

Solid lubricant with PTFE

- After grease film tears off, PTFE takes over lubrication (emergency running property)
- High thermal stability

With special white pigmentation

Optimum recognition of lubrication points during maintenance and inspection

Resistant to salt-water spray, withstands weak acids and alkaline solutions

Contains no silicone, resin or acid

Operating temperature range:

-15 °C to +130 °C (5 °F to +266 °F), temporarily: +200 °C (+392 °F)

Areas of Application:

Suitable for lubrication during maintenance and inspection work, e.g. hinges, joints, slide rails etc.



Capillary Action	High Pressure Resistance	Temperature Resistance	Corrosion Protection	Adhesive Strength	Durability	Material Compatibility	Dirt Repellent	Solid Lubricant
●	●●	●	●●	●●	●●●	●●●	●●●	PTFE

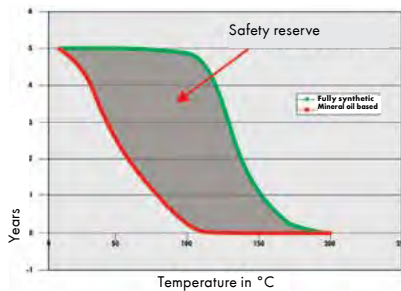
The grease forms a sealing "grease collar" against moisture and dirt particles between the opposing body and the base body. The dirt cannot reach the lubricating point, ensuring long-term lubrication. The lubricating intervals extended in this way are only possible with good pre-cleaning of the lubricating point.

HHS 5000



Contents	Colour	Art. No.
430 g	Transparent	893.1063

Operating Temperature/Service Life Graph



High-performance fully synthetic oil lubricant with PTFE and extreme thermal stability.

Durable lubrication and wear resistance with PTFE

- Long term noise prevention
- After lubricating film wears off, the PTFE takes over lubrication (emergency running property)
- Maintenance of the gliding film under high thermal loads
- Vibration and impact dampening properties

High creeping capacity

- Very high migrating capacity
- Suitable for reaching hidden lubrication points

Highly adhesive

No splattering of the lubricant with turning and rotating parts

Material compatibility

Compatible with O-Rings, X-Rings, plastic, metal, painted surfaces, etc.

Safety due to long-term effect

- Provides reliable, long-term protection against corrosion
- No oxidation (gumming) up to +200 °C (392 °F). Briefly up to +250 °C (482 °F).
- No coking residues

Prevents carbon residue buildup

Splash and saltwater-resistant, withstands weak acids and alkaline solutions

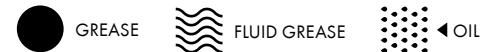
Contains no silicone, resin or acid

Operating temperature range:

-20 °C to +200 °C (Temporarily: +250 °C)

Areas of Application:

Suitable for lubrication with the smallest tolerances and high temperature loading, e.g. throttle valve joints, inside bearings, thermally loaded chains and slide rails, etc.



Capillary Action	High Pressure Resistance	Temperature Resistance	Corrosion Protection	Adhesive Strength	Durability	Material Compatibility	Dirt Repellent	Solid Lubricant
●●●	●●	●●●	●●	●	●●	●●●	●	PTFE

Where lubricating film made from ordinary mineral-oil based lubricants tears (e.g. at +120 °C red curve), our HHS 5000 offers a longer lubricating condition (green curve). This allows considerable saving of lubricant.

HHS FOODSTUFFS



Quantity	Colour	Art. No.
350g (12.3oz)	Colourless	893.1076

The specialized food grade adhesive lubricant from our HHS range with NSF H1 certification.

- Adhesive penetrating lubricant especially made for food related industries.
- HHS Foodstuffs is a fully synthetic lubricant formula suited for precise applications where substrate compatibility and long lasting lubrication is essential.
- HHS Foodstuffs is also suitable for other areas of application such chains, linkages, joints, levers, bearing, sliding points, cables, open drives and hinges.

Characteristics:

- Great capillary action and adherence allows the lubricant to access hard-to-reach areas.
- NSF H1 registered.
- Provides long lasting protection against corrosion.
- Water resistant
- Free of silicone, acid, resin and AOX.
- Temperature tolerance - long term -25 °C to 180 °C (-13 °F to 356 °F) and short term up to 220 °C (428 °F).
- Compatible with O-rings/X-rings.

Areas of Applications:

- Shake the can well before use.
- The substrates need to be cleaned of grease and soil before being treated with HHS Foodstuffs for optimal results.
- When used as a corrosion protection film for food contact surfaces, completely remove all lubricant before restarting the device.

Capillary Action	High Pressure Resistance	Temperature Resistance	Corrosion Protection	Adhesive Strength	Durability	Material Compatibility	Dirt Repellent	Solid Lubricant
●●	●●	●●	●●	●●	●●	●●●	●	None

HHS LUBE



Extreme pressure adhesive grease. Long lasting sprayable grease with OMC₂ technology.

Minimizes wearing and substance loss of lubricated surfaces

- Improves lubricity due to thermoplastic surface smoothing (OMC₂ technology)
- Reduces friction temperature, resulting in longer lubricating effect
- Low wear

Low dust and dirt adhesion

- Suitable especially for outdoor applications exposed to dust and dirt
- Long-term lubrication of the parts

Resistant against salt-water spray, as well as weak acids and alkaline solutions

- No rinsing off of the grease due to rain, splashes, cleaning solutions, etc.
- High corrosion protection properties

High pressure parts can be lubricated

- Resistant to high pressure loads due to extreme pressure additives
- Excellent noise and vibration damping properties

Material compatibility

Compatible with plastic, metal, painted surfaces, etc.

Contains no silicone, resin or acid

Operating temperature range:

-25 °C to +150 °C (-13 °F to +302 °F), temporarily: +170 °C (+338 °F)

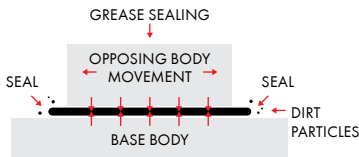
Areas of Application:

Suitable for lubrication applications with high dirt and weathering influence, e.g. gearwheels, wire cables, chains, spring tensioners, anti-friction bearings, etc.



Contents	Colour	Art. No.
390 g	Opal Green	893.1065

Sealing behaviour against dirt and splash water:



Capillary Action	High Pressure Resistance	Temperature Resistance	Corrosion Protection	Adhesive Strength	Durability	Material Compatibility	Dirt Repellent	Solid Lubricant
●	●●	●●	●●●	●●●	●●●	●●	●●●	OMC ₂

The grease forms a sealing "grease collar" against moisture and dirt particles between the opposing body and the base body. The dirt cannot reach the lubricating point, ensuring long-term lubrication. The lubricating intervals extended in this way are only possible with good pre-cleaning of the lubricating point.

Manner of operation of OMC₂ technology

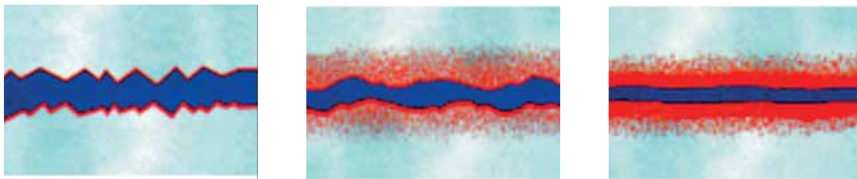


Fig. 2

Fig. 3

From a microscopic standpoint, all metal surfaces are rough (Fig. 1) and are subject to constant wear and substance loss when subjected to friction. HHS Lube with OMC₂ technology smoothes the metal surfaces by means of thermoplastic flow deformation (Fig. 2-3), ensuring the longer life of the components.

HHS RED LUBE



Extreme pressure resistant long-term sprayable grease with OMC₂ technology.

Minimizes wearing and substance loss of lubricated surfaces

- Improves lubricity due to thermoplastic surface smoothing (OMC₂ technology)
- Reduces friction temperature, resulting in longer lubricating effect
- Low wear

Low dust and dirt adhesion

- Suitable especially for lubrication of open parts outside
- Long-term lubrication of the parts

Resistant against salt-water spray, as well as weak acids and alkaline solutions

- No rinsing off of the grease due to rain, splashes, cleaning solutions, etc.
- High corrosion protection property

High pressure points can be lubricated

- Resistant to high pressure loads
- Excellent noise and vibration damping properties

Material compatibility

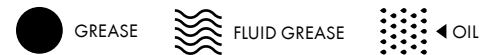
- Compatible with a wide range of plastic, metal, painted surfaces, etc.

Contains no silicone, resin or acid

Operating temperature range: -35 °C to +180 °C (-31 °F to +356 °F), temporarily: +200 °C (392 °F)

Areas of Application:

Suitable for lubricating points with high dirt and weathering influence, e.g. gearwheels, wire cables, chains, spring tensioners, anti-friction bearings etc.



Contents	Colour	Art. No.
390 g	Red	893.10651

Capillary Action	High Pressure Resistance	Temperature Resistance	Corrosion Protection	Adhesive Strength	Durability	Material Compatibility	Dirt Repellent	Solid Lubricant
●	●●	●●	●●●	●●●	●●●	●●	●●●	OMC ₂

Sealing behaviour against dirt and water/salt-water spray

The grease forms a sealing “grease collar” against moisture and dirt particles between the opposing body and the base body. The dirt cannot reach the lubricating point, ensuring long-term lubrication. The lubricating intervals extended in this way are only possible with good pre-cleaning of the lubricating point.

Manner of operation of OMC₂ technology

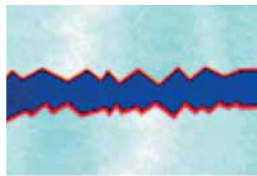


Fig. 1

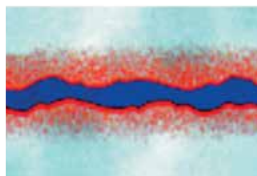


Fig. 2

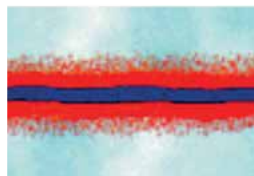


Fig. 3

From a microscopic standpoint, all metal surfaces are rough (Fig. 1) and are subject to constant wear substance loss when subjected to friction. HHS Lube with OMC₂ technology smoothes the metal surfaces by means of thermoplastic flow deformation (Fig. 2-3), ensuring the longer life of the components.

HHS FLUID



Contents	Colour	Art. No.
386 g	Yellowish	893.1064

Adhesive fluid grease, resistant to centrifugal force.

When spraying on - oil

Excellent creep capacity

- Good gap penetration behaviour
- Protects against corrosion
- Reaches everywhere, where ordinary grease can't

After flashing off - grease

Extremely active adhesive effect

- Remains in the point to be lubricated
- No throwing off/splashing
- Good long-term effect

Outstanding pressure resistance

- Extraordinary tear-resistant lubricating film for high-pressure loads
- Outstanding noise and vibration dampening properties

Good material compatibility

- O-ring and X-ring compatible
- Compatible with plastic
- Behaves neutrally toward painted surfaces

Resistant to salt-water spray, withstands weak acids and alkaline solutions

Contains no silicone, resin or acid

Operating temperature range:

-25 °C to +170 °C (-13 °F to +338 °F)

Temporarily:

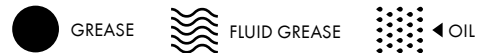
+200 °C (392 °F)

Colour:

yellowish

Application:

Suitable for lubricating difficult re-lubrication points with performing maintenance and repair work, e.g. inside bearings, wire cables, joints, shafts, rolling bearings, etc.



Capillary Action	High Pressure Resistance	Temperature Resistance	Corrosion Protection	Adhesive Strength	Durability	Material Compatibility	Dirt Repellent	Solid Lubricant
●●	●●●●	●●	●●	●●●●	●●	●●	●●	None

The DUO Effect

When sprayed, has an oil-like consistency

When flashed off, a high-pressure resistant grease

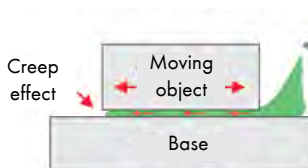


Fig. 1.1

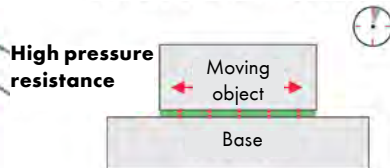


Fig. 1.2

Excellent creep behaviour directly after spraying on (**Fig. 1.1**). Penetrates between parts with close tolerances. Following brief flashing off of the active ingredient-solvent mixture, a high-viscosity grease is left behind exactly at the point to be lubricated (**Fig. 1.2**). At the same time, the creep point is wetted and protected against corrosion.

With the new DUO Effect creep properties as with an oil.
Has active adhesive and is pressure-resistant like grease.

ASSORTMENTS

Art. No. 965.890



Premium Quality Chemical Assortment

Contents:

- 1 x Aerosol Cabinet
- 6 x Brake & Parts Cleaner
- 2 x Rost Off
- 2 x HHS 2000
- 3 x White Lithium Grease
- 3 x Gloss Black Spray Paint
- 3 x Flat Black Spray Paint
- 1 x Copper Anti Seize CU 1100
- 1 x RTV-Sensor Safe Silicone
- 1 x RTV-Hi-Temperature Silicone
- 1 x D.O.S Super glue
- 1 x Medium Thread lock (Blue)

CUT+COOL ULTRA - CONCENTRATED COOLING LUBRICANT

Art. No. 893.050030 5 L



Partly synthetic all-purpose lubricant with an outstanding cooling effect and excellent chip removal

Features:

- Low-foaming formulation makes it ideal to be used with soft-water
- Excellent corrosion protection for tools and workpieces
- Excellent lubricating capacities allowing for increased operating speeds and less friction

Areas of application:

- Light-to-medium weight steel, cast iron, aluminum alloys and non-ferrous metal chips
- All lathes, grinders, and machining center equipment

Note: Boron-free, amine-free, chlorine-free, and formaldehyde-free

Usage	Dilution Ratio
Grinding of steels and non-ferrous metals	4 - 6%
Machining of steels and non-ferrous metals	6 - 10%
Refractometer factor:	2.3

CUT+COOL ECO - BIODEGRADABLE CUTTING OIL

Art. No. 893.050012 5 L



A biodegradable, ecologically-sound cutting oil with uncompromising performance.

Features:

- Odour-free
- Free of chlorine, sulphur, phosphor, silicone, resin and mineral oil
- Free of Paint-Wetting Impairment Substances (PWIS)
- Non-conductive

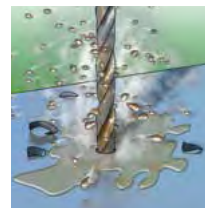
Benefits:

- Easy to use
- No cleaning of metals prior to assembly or further treatment required (e.g. welding) with low use concentrations
- Can be used on delicate surfaces, such as marble, plastic, and electrical components
- Minimal smoking

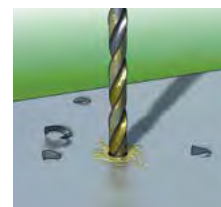
Areas of application:

For local use and with loss in lubrication systems. Optimum use with flat pressing between workpiece and tool, as well as for all difficult machining work.

Ordinary Oil



Cutting Oil Eco



Due to adherence of oil particles on machining tool, an optimum, long-term lubricating action is achieved.

CUT+COOL - CUTTING AND DRILLING OIL



Art. No. 893.050004 355 g

Multi-functional cutting oil used in a variety of applications from light to medium heavy machine work.

Features:

- Aerosol container
- Universal use
- Free of silicone, chlorine, resin and acid
- Free of Paint Wetting Impairment Substances (PWIS)
- Spray cools on contact
- Protects tools
- Good creeping properties
- Excellent corrosion protection
- Dissolves sticky residues & deposits
- Good material compatibility

Benefits:

- Creeps into tight spaces
- Prevents welding of small material particles to cutting edge
- Provides lasting protection against further formation of rust and corrosion
- No re-treatment or preservation necessary
- Gumming up of chips is prevented

Areas of application:

For drilling, thread tapping, thread forming, turning, counter-sinking, reaming and sawing. Optimal for stainless steel, but also high-alloy & construction steel, non-ferrous and precious metals. Can be used as a preservative agent for semi-finished and finished parts, machine parts, and as gun oil.

CUT+COOL - CUTTING AND DRILLING OIL PERFECT



Art. No. 893.050008 334 g

High-performance cutting oil for heavy-duty machining and high cutting speeds

Features:

- Aerosol container
- Free of chlorine, sulphur, phosphor, silicone and resin
- Free of Paint Wetting Impairment Substances (PWIS)
- Dual use as a lubricant and paste for heavy-duty machining
- Great corrosion protection
- Extremely resistant to high pressure

Benefits:

- Horizontal and overhead applications can be executed with ease
- Provides excellent results and safety for all materials and applications
- Can be welded without cleaning when smaller quantities are used
- Extends the life of tools
- Easy machining of hard steels with maximum strength

Areas of application:

Optimum use for all machining of all materials such as steel, high-alloy steel, aluminum, non-ferrous metals, titanium, hard metals, cast iron, etc.

CUT + COOL - CUTTING AND DRILLING FOAM



Highly activated high-performance cutting foam for all machining applications

Features:

- **Suitable for overhead applications**
Results in a well-adhering oil foam on the work piece
- **No de-greasing work with cleaners necessary**
Can be washed off with clean water
- **Very good cooling effect, strongly adhesive**
Low consumption; can be used as a minimal-quantity lubricant
- **High performance thanks to high cutting speed and minimal tool wear**

- **Sulfur, mineral oil, heavy metal, and resin free**
- **Does not contain volatile chlorinated hydrocarbons**
- **Free of substances which interfere with wetting of paint**

Areas of Use:

- For all ferrous and non-ferrous metals
- Steel: alloy and non-alloy
- All casting types: cast steel, malleable cast iron, die casting etc.
- Copper and its alloys: cast brass, red brass etc.
- All chrome-nickel alloys
- Aluminum and aluminum alloys

Applications:

Well-suited toward all machining applications, such as: thread cutting, thread drilling, centering, stripping, reaming, drilling and milling.

Container	Contents	Art. No.	P. Qty.
Aerosol	432 g	893.050007	1

APPLICATION TABLE

	Cutting and Drilling Oil	Cutting and Drilling Oil Perfect	Cutting and Drilling Oil Eco	Cooling Lubricant
Materials				
Steel, alloyed steel	••	•••	•••	••
High-alloy steel	••	•••	•••	••
Cast iron, grey cast iron	••	•••	••	••
Carbide	••	•••	••	•
Non-ferrous metal (copper, brass, etc.)	••	•••	•••	•
Titanium	•	•••	••	•
Magnesium	•	•••	••	•
Aluminum, aluminum alloys	•	•••	••	••
Machining processes				
Turning, automatic lathe	••	•••	•	••
Drilling, countersinking, reaming	••	•••	•••	••
Deep drilling	•	•••	••	•
Sawing	••	•••	••	••
Thread tapping	••	•••	•••	••
Thread forming, rolling	••	•••	•••	•
Milling	•	•••	••	••
Grinding	•	•••	•	••
Forming, rolling, bending	•	•••	•••	•
Punching, fine punching	•	••	••	•
Broaching, tooth cutting	•	•••	••	•
Characteristics				
Basis	Mineral oil	Mineral oil with synth. ester	Synth. ester	Mineral oil
Viscosity (mm ² /s)	12	25	35	175
Minimal quantity lubrication		✓	✓	
Free from mandatory warning symbols			✓	✓
Suitable for overhead applications				
Biodegradable/appr. for use in food pros. & storage			✓	
Very high lubricating performance		✓	✓	
Very long tool life		✓	✓	✓
Minimal smoking		✓	✓	✓
Extremely low consumption			✓	
Good creep properties	✓			
Low-foaming				✓
Very high microbial stability				✓
Water hazard class	1	1	1	2

TECHNICAL INFORMATION

Product	Cutting and Drilling Oil	Cutting and Drilling Oil Perfect	Eco Cutting and Drilling Oil	Cooling Lubricant Concentrate
Art. No.	893.050004	893.050008	893.050012	893.050030
Container	Aerosol, 400 mL	Aerosol, 400 mL	Canister, 5 L	Canister, 5 L
Type	Multi-functional oil for many applications	High-pressure resistant high-performance cutting oil for excellent results with all materials	Biodegradable, harmless cutting oil	Universal cooling lubricant with high corrosion protection
Properties	For universal use Extremely good creep capacity Already cools while spraying on Dissolves sticky residues and deposits Good material compatibility Gumming up of chips is prevented	Can be used as minimal quantity lubricant High separating effect between friction partners workpiece and tool Outstanding results for all machining work Very good high pressure resistance Weldable without prior cleaning (with low use concentrations) Top dimensional accuracy and quality	Can be used in areas in which food is processed or stored Suitable for loss lubrication No reaction on contact with sensitive materials Very good high-pressure resistance Outstanding corrosion protection Further processing (e.g. welding) possible without washing off (with low use concentrations) 100% biodegradable Odour-free	Multi-functionally suitable for all machining equipment Suitable for a broad range of materials Free from mandatory warning symbols High corrosion protection Extremely hypoallergenic Low-foaming No gumming up of measuring sensors, etc.
Base	Mineral Oil	Mineral oil with synth. ester	Synth. ester	Mineral oil
Colour	Brown-yellow	Yellow	Light yellow	Brown (concent.); Semi-transparent emulsion
Flash point (oil)	~ 190 °C (374 °F)	~ 170 °C (338 °F)	~ 275 °C (527 °F)	-
Viscosity, mm²/sec	12	25	35	66
Density at 20 °C, g/cm³	0.889	0.835	0.77	0.989
Water hazard class	1	1	1	1
pH value	-	-	-	8.9 (emulsion)
Refractive index	-	-	-	-
Loadability, wear protection, service life*	-	-	-	26 mm ² (steel ¹) 25 mm ² (steel ²) 20 mm ² (aluminum ³)
Brugger Test, N/mm² (DIN 51347)	22	113	22	-
Shelf life, months	12 (+5 to +40 °C) (+41 to +104 °F)	12 (-10 to +50 °C) (+14 to +122 °F)	12 (-10 to +60 °C) (+14 to +140 °F)	12 (+5 to +40 °C) (+41 to +104 °F)

WOOD GLIDE



Art. No. 893.070 5 L

Wood Glide is great for neutralizing resin, preventing wood shavings and wood dust from sticking to and clogging machinery

Features:

- Cleans adjustment wheels, hand spindles and dimensional stops
- Prevents corrosion on bare or polished machine tables
- Behaves neutrally on post-treatment with paints, stains or varnishes
- Repels moisture
- Silicone-free

Areas of application:

- Can be used on all wood-working machines

Recommended:

Use with Spray Pump Bottle (1L) **Art. No. 893.070-P**

Note: Wood Glide must not be applied directly to the workpiece surface. Preliminary testing is required for painted parts.

WÜRTH FILM



Art. No. 893.3300 340 g

Würth Film is a non-conductive long-term penetrant lubricant that protects against rust and corrosion

- Ideal product to use for the protection of all metal surfaces
- The penetrating and coating action ensures moisture is displaced and further moisture intrusion is prevented
- Will not dry up and flake off
- The aerosol format provides ease of application, especially in hard-to-reach areas
- Provides lubrication to sliding surfaces, to prevent

binding and squeaking

- Penetrates through rust, stopping all metal deterioration on contact
- Solvent free, non-toxic, non-conductive, silicone free and environmentally friendlier
- Temperature range: -10 °C to +60 °C (+14 °F to +140 °F)

Application:

- Automotive and Trucking: battery terminals, brake cables, door hinges, hood & trunk mechanisms, all nuts, bolts & studs, throttle cables, tools, wheel lugs, trailer attachments

- Agriculture: applicators and transfer pumps handling liquid fertilizers, balers, blades/cutters, combines, cultivators, tractors, winches, fertilizer spreaders, irrigation fittings, pruning shears & saws, control cables
- Boating: battery terminals, boat trailers, outboard engines against salt spray, electronic equipment, fishing reels, pulleys
- Manufacturing / Industrial: chain falls, conveyor belt rollers, cranes, exposed gears & machined surfaces, mould release agent, snow ploughs

COGWHEEL GREASE



Art. No. 893.1055 296 g

Black, shear-resistant, high-pressure resistant special lubricant.

- High-pressure resistant.
- Reliable wear protection, even under high pressure loads.
- Noise and vibration-damping.
- Shear-resistant.
- Excellent lubrication, even with quickly rotating lubricating points.
- Addition of solid lubricants. Features good emergency running properties.*
- Contains corrosion protection additives. Gets under moisture and protects against corrosion.
- O-ring compatible.
- Resistant to sprayed salt-water spray, as well as to weak acids and caustic solutions.
- Silicone and bitumen-free.

- Temperature range from -30°C to +180°C (-22°F to +356°F).

Areas of application:

For long-term lubrication of open lubricating points, heavily loaded gearwheels, rapidly turning chains and for lubricating turning gears, toothed racks, fifth-wheel pick-up plates, leaf springs, etc. both indoors and outdoors.

* Emergency running property: The solid lubricant prevents extreme wear in the critical phases of lubricating film tear-off.

HSP 1400



Art. No. 893.123 292 g

Metal-free, grey-coloured high-temperature lubricating paste which reduces wear, promotes separation and protects against corrosion.

Features:

- Universal application
- Supple & highly adherent
- Contains no metal-pigments
- Free of graphite, MOS_2 and additives containing sulfur
- Silicone free
- Non-toxic
- Carries NSF Certification

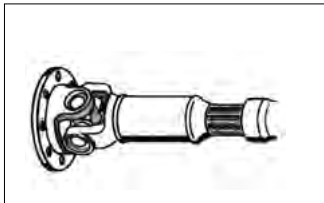
Industry use information:

- Machine tools of all kinds
- Vehicles, construction & agricultural machines
- Conveyor technology, pipeline construction, assembly/maintenance/repair departments
- Tool manufacturing
- Mechanical workshops

Technical Data	
Base	Synthetic mineral oil mixture with organic thickener and solid lubricant combination
Temperature range	-40°C to +1,400°C (temperature range of solid lubricants)
Test data	Tests in mixed friction area Four-Ball Tester Acceptable Load/ Welding Load 3,800/4,000 N, DIN 51350,4 SRV (cylinder/plate; 450 N, 1,000 µm, 50 Hz.2h) - Friction coefficient: 0.10 - 0.13 - Wear depth: 0.3 µm Corrosion-protection test Salt-spray test > 500 h, DIN 50 021t

Note: Product is not suitable for bearing lubrication.

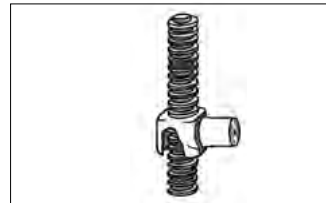
Areas of application:



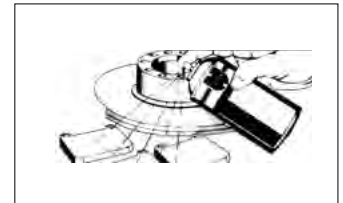
Splined shafts and joints of all kinds.
• High pressure resistance ensures smooth movement and minimal wear



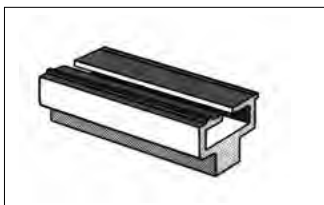
Slide and roller bearings, fly wheels and runners.
• Non-destructive pressing in and out



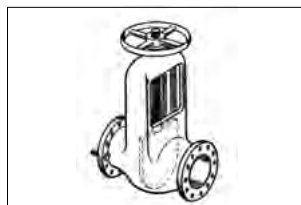
• Operational readiness
• Protection of the edges from wear and seizing



Brake pads
• Prevents corrosion, seizing up and sticking on disk brake pads.
• Prevents squeaking and wear



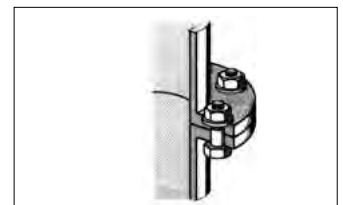
Press fittings on slide bearings, bed tracks and column guides
• Smooth, jerk-free movements, even at low speeds.
• Emergency lubrication for additional lubrication with greases or oils.
• Protection against edge pressing



Heavy-duty stroke spindles
Shut-off valves, taps, slide valves
• Smooth movement of adjustment spindles.
• Uniform tightening torques and non-destructive dismantling of screw connection.



Brake parts, clamping chucks, heavy clamped connections
• Ensures high clamping forces.
• Ensures uniform tightening and loosening.
• Adhesive, water-resistant lubricating film.



Flange connections, pins, screws, bolts and nuts
• Ensures even tightening torques thanks to the minimum friction coefficient distribution.
• Non-destructive dismantling, even after long effects of heat exposure.
• Prevents seizing up, e.g. with stainless-steel bolts.

LMS-FLUID



Contents	Colour	Art. No.
344 g	Colourless	893.107001

Food grade lubricant. Physiologically safe special lubricant on a paraffin oil base.

- Can be used in areas in which food is processed or stored.
- NSF H1 Certified
- In this context, the product may come into contact with foodstuffs for occasional, technically unavoidable reasons.

Viscous, colourless special lubricant

- Reduction of wear and friction
- Excellent corrosion protection

Can be applied exactly where needed

- Optimum, precise lubrication at defined lubrication points
- Economical and sparing

Safer Experience

- Especially user-friendly and secure handling
- Improved workplace safety and health protection
- Free from mandatory warning symbols

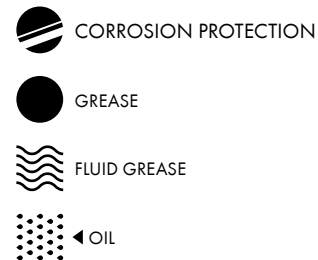
Tasteless and odourless

AOX and silicone-free

Areas of Application:

For oil lubricating points on machines, conveying systems, gearboxes, plain bearings and anti-friction bearings as well as for use as a release agent and lubricant and for corrosion protection in the food, pharmaceutical, printing and paper industries. For the care and maintenance of stainless steel in breweries, bakeries, meat factories, industrial kitchens and hospitals.

Technical Data	
Chemical basis	Medicinal white oil according to DAB 102
Density at 20 °C	0.86 g/cm ³
Temperature range	-20 °C to +145 °C (-4 °F to +293 °F)
Basic oil viscosity at 40 °C	70 mm ² /s



PTFE DRY FILM LUBRICANT



Art. No. 893.550 180 g

Transparent, non-soiling dry lubricant

Remedies squeaking, creaking and jamming

Provides long-term protection against wear

Dry lubrication

Does not attract dirt and dust

Film thickness 10 µm

Can also be used with extremely close tolerances in fine machinery

Very high resistance

- Thermally stable from -180 °C to +260 °C (temporary)
- Permanently resistant to water acids and alkaline solution

Silicone-free

Mineral oil-free

Areas of application:

Suitable for dry lubrication of sliding points. For cases of minimal and medium exposure, can be used for metals, plastic, rubber, etc. Ideal for sliding-roof and seat rails, door hinges and locks, sliding doors, tilt window mechanisms, window locks, furniture hinges, drawers, runners, ball bearings, electrical switches, etc. Also ideal as a release agent if used sparingly.

DRY GRAPHITE LUBRICANT



Art. No. 893.555001 397 g

Professional quality, fast dry film. Ozone Friendly.

A fast drying graphite lubricant that reduces friction and noise. It is effective under heavy pressures and continuously high temperatures. This oil free formulation resists water and alkalis.

Applications:

Door locks, engine assembly pre-lube, key barrels, power antennas, bearings, gaskets, hinges, rubber moldings, anti-seize thread lubricant, etc.

Application Temperature:

50°F to 90°F (10°C to 32°C). Can withstand temperatures up to 400°F (204°C)

Note: Caution! Do not spray on paint work. If material comes in contact with paint finish, remove immediately.

WIRE CABLE SPRAY



Art. No. 893.1058 387 g

Protective wax with OMC₂ for lubrication and conservation

Does not melt off when at hot temperatures

Ideal for areas subjected to direct sunlight

Optimal creep properties

- Good penetration of the lubricating wax in the smallest crevices
- Lubrication in hard to reach places

Outstanding water resistance

- Ideal for outdoor use
- Protects against moisture
- Excellent corrosion protection

Contains additives with OMC₂ technology

- Improved lubricating film
- Extended corrosion protection
- Low wear
- Extended service life

Free of AOX and silicone

Free from resin and acid

Free of solid lubricants

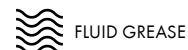
Does not inhibit sealing properties of elastomers Viton and Perbunan

Areas of Application:

Lubricates and conserves wire ropes on winches, lifts, conveyors as well as carrier and sling ropes.

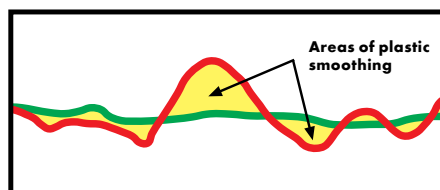
Technical Data:

Base	Synthetic wax oxidation base
Colour	brown
Water resistance (DIN 51807, Part 1)	0 - 90
Corrosion protection (DIN 51802)	No rust spots after 7 cycles
Temperature Range	-40 °C to +120 °C (-40 °F to +248 °F)



Function principle of OMC₂ technology:

Viewed under a microscope, all metal surfaces are rough and are subject to continual wear and loss of substance due to friction. OMC₂ additives render metal surfaces smoother due to thermoplastic flow deformation through organo-metallic compounds. The flow deformation is controlled individually, depending on the load the metal surface is subjected to.



original surface smoothed surface

- Improves surface quality due to metal surface sealing
- Improves lubricating film quality
- Reduces thermal loading
- Less friction (up to 50% in mixed friction area)
- Reduces loss of substance
- Reduces wearing
- Extended service life

TIRE AND RUBBER LUBRICANT



Art. No. 890.12500 440 g

A special spray lubricant that facilitates the assembly and disassembly of rubber parts.

Features :

- Spray lubricant with a foam like texture that evaporates without leaving a residue or dirty grease.
- Will not attack aluminum, rubber, varnish or paint.
- Application temperature 10°C–35°C.
- Ideal for lubricating tires for easy mounting on rims, particularly for low profile or run flat tires.
- Can be used to reduce friction/resistance when pulling cables through pipe, ducts or conduit.
- Suitable for assembly of hoses, rubber plugs, door rubbers, rubber covers, silent blocs, etc.

MAINTENANCE SPRAY



Highly effective wear protection additives ensure excellent friction reduction

Prevents freezing in winter, as no moisture can accumulate

Outstanding creeping and cleaning performance

- Keeps door and window hinges running smoothly
- Lubricates and protects all precision mechanical devices

Resin and acid-free

- Sensitive surface components are not attacked

Silicone-free

Also suitable for use as a gun oil

Use:

For lubricating hinges, tool and machine holders, etc.

Temperature Resistant from -15°C to 150°C

Designation	Contents	Art. No.
Aerosol Can	107 g	893.051

 CORROSION PROTECTION

 GREASE

 FLUID GREASE

 OIL

LOCK CYLINDER SPRAY



Excellent creeping properties ensure very good moisture displacement

Prevents freezing in winter, as no moisture can accumulate

Contains corrosion protection additives

Provides permanent protection of locking mechanisms

Resin and acid-free

Sensitive components are not attacked

Silicone-free

Use:

For the care of all types of locks.

Designation	Contents	Art. No.
Aerosol Can	35 g	893.052

MULTI FUNCTION SPRAY



Versatile multi-function spray.

Rust penetrating agent

- Excellent creeping properties ensure quick rust and corrosion penetration

Lubricant

- Very good lubrication properties
- Remedies creaks and squeaks
- Reduces friction and wear

Cleaner

Great cleaning power is ensured thanks to penetration under dirt, grease and oil residue

Corrosion protection

Best possible cling to metals. A thin, viscous protective film prevents moisture on even the smallest uneven spots and protects against rust and corrosion.

Contact spray

Water- and moisture-displacing properties and excellent creeping properties improve electrical conductivity and remedy leakage current.

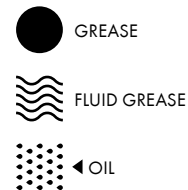
Resin, acid, and silicone free

Does not attack rubber, paint or plastics

Use:

- Loosens rusted bolts, pipe fittings, screws, nuts, joints, bowden cables, shafts, locks
- Lubricates closures, hinges, bushings, chains, door locks
- Stops squeaking and creaking and frees up movement of stuck or jammed parts
- Cleans and cares for plastic and metal parts such as coverings and housings
- Prevents corrosion of metals and electrical modules, cable connections, relays, plugs, couplings, etc.
- Prevents icing of cylinder locks and closures
- Penetrates and displaces moisture in electrical and electronic applications

5 in 1 A universal product for five different areas of use



Spray Nozzle	Contents	Art. No.
Cobra (pictured)	318 g	893.055400
Classic	255 g	893.05540

Technical Data	
Colour	Transparent bright yellow
Density	0.790 g/ml
Temperature range	-30 °C to +130 °C (-22 °F to +266 °F)
Base oil viscosity	30 cst at 40 °C



MULTI-PLUS



Contents	Art. No.
332 g	893.056

Technical Data	
Chemical basis	Synthetic oil with multi-functional additive combination
Density at 20 °C (active substance)	0.83 g/cm ³
Temperature range	-50 °C to +210 °C
Basic oil viscosity at 40 °C	32 mm ² /s

Synthetic, physiologically safe multi-function spray with high-end properties for universal use

Can be used in areas in which food is processed or stored. NSF H1¹

- In this context, the product may come into contact with foodstuffs for occasional, technically unavoidable reasons.

A product for a wide spectrum of applications

- Rust penetrating agent with creeping properties
- Wear reducing lubricant
- Good long-term corrosion protection
- Reliable release agent

No danger symbols such as Xi, Xn, F, F+ or N

- Suitable for use in physiologically and ecologically sensitive areas
- Low danger potential
- Safe working

A product for a wide spectrum of applications

- Rust penetrating agent with creeping properties
- Wear reducing lubricant
- Good long-term corrosion protection
- Reliable release agent

Colourless, non-discolouring

- Can be used on bright backgrounds
- No discolouration in the case of occasional contact with the product

Free from white oil / mineral oil

Good material compatibility

Resin-, acid- and silicone-free

Colourless, non-discolouring

- Can be used on bright backgrounds
- No discolouration in the case of occasional contact with the product

Areas of Application:

For the lubrication and maintenance of connecting joints, chains, seals and moving parts in automotive engineering, as well as in critical areas of the food, pharmaceutical, printing and paper industries. As a release agent, for corrosion protection and for all applications in which the use of conventional products on a mineral oil basis or of critical additives and solvents is not desired.



MULTI-PURPOSE GREASE II



Contents	Art. No.
400 g	893.8711

Lithium saponified, high-pressure resistant graphite grease with EP additives

- High pressure resistant thanks to EP additive
- Excellent anti-seizing properties thanks to graphite
- Good sealing effect and corrosion protection
- Very good dust, dirt and water-repellent properties
- Silicone- and resin-free
- Comes in practical "pull off" cartridge

Application:

For average- and heavy-load anti-friction, slide, ball and roller bearings, shafts, rotary joints and assemblies, sideways and guides, spline shafts, joint rods, hinges, hydraulic units, etc.

Recommended:

Hand-Lever Grease Gun **Art. No. 986.00**

Note:

Greases are delivered in plastic cartridges! The plastic cartridges improve storage (they prevent the grease from oozing out in high temperature conditions). Store cartridges upright in a cool, dry place! The operating instructions of the vehicle, machinery and aggregate manufacturers must be observed!

Technical Data:	
Soap base	Lithium 12 hydroxystearate
Colour	Grey black
NLGI Class (DIN 51818)	2
Temperature range	-20 °C to +130 °C (-4 °F to +266 °F)
Basic oil viscosity at 40 °C	60 mm ² /s
Drop point (DIN ISO 2176)	190 °C
Worked penetration (DIN ISO 2137)	280
Corrosion protection (SKF Emcor Test, DIN 51802)	0
VKA welding load (51350)	2400 N
Designation pursuant to DIN 51502	KPF 2K-30

MULTI-PURPOSE GREASE III



Art. No. 893.107002 400 g

Physiologically safe, colourless grease with multi-functional additive combination

- Can be used in areas in which food is processed or stored. NSF H1
- In this context, the product may come into contact with foodstuffs for occasional, technically unavoidable reasons.

Good adhesive properties

Stable against pressure and oxidation-resistant

Supports quality of seals

Dust and water-repellent

Resin, acid and silicone-free

Safety product

- Especially user-friendly and secure handling
- Improved workplace safety and health protection
- Free from mandatory warning symbols

Recommended:

Hand-Lever Grease Gun **Art. No. 986.00**

Note:

Greases are delivered in plastic cartridges! The plastic cartridges improve storage (they prevent the grease from oozing out in high temperature conditions). Store cartridges upright in a cool, dry place! The operating instructions of the vehicle, machinery and aggregate manufacturers must be observed! For further information see the technical information leaflet.

Application:

For the lubrication and care of machines, plain bearings and anti-friction bearings, for long term lubrication in wet rooms and areas as well as in critical areas in the food, pharmaceutical, printing and paper industries.

Technical Data:	
Soap base	Anorganic
Colour	Transparent
NLGI Class (DIN 51818)	2
Temperature range	-20 °C to +150 °C (-4 °F to +302 °F)
Basic oil viscosity at 40 °C	100 mm ² /s
Drop point (DIN ISO 2176)	None
Worked penetration (DIN ISO 2137)	285
Corrosion protection (SKF Emcor Test, DIN 51802)	0
VKA welding load (51350)	1800 N
Designation pursuant to DIN 51502	KP2N-20-30

HIGH-PERFORMANCE GREASE



Art. No. 893.8804 25 kg

Lithium-complex lubricating grease with semi-synthetic oil base

Meets specifications MAN 284, MB 265.1 and exceeds MB 267

- Highest quality through compliance with specifications of leading vehicle manufacturers

Wide range of applications

- One single lubricant for most lubricating points, resulting in simpler stock-keeping and highest degree of application safety

Very high pressure absorption capacity

Good corrosion protection

Water resistant

Free from silicone, acids and resins

Areas of application:

For lubricating points on commercial vehicles subject to medium or high loads, such as wheel bearings (axle bearings), driveshaft bearings, axle drives, trailer couplings, loading tailgates, wheel hubs, universal joints, steering knuckles, wheel suspensions, lifting gear, hand brake linkages, tipper bearings, semi-trailers, etc.

Note: Store in a cool, dry place!

- The operating instructions of the aggregate and vehicle manufacturers must be observed! For further information please refer to Technical Information booklet!
- Not suitable for lubricating points, such as tie rod yokes, for which lubricants with solid lubricant content are specified.

Technical Data	
Saponification base	Lithium complex
Colour	light yellow
NLGI class (DIN 51818)	2
Temperature range	-30 °C to +150 °C (-22 °F to +302 °F)
Permanent lubrication	+200 °C (392 °F)
Short period	
Basic oil viscosity at 40 °C	100 mm ² /s
Drop point (DIN ISO 2176)	above 260 °C (500 °F)
Worked penetration (DIN ISO 2137)	265 to 295
Water resistance (DIN 51 807 T1)	1-90
Corrosion protection (DIN 51 802)	Corrosion grade 0
Meets specifications	MAN 284, MB 265.1 and exceeds MB 267
Designation according to DIN 51 502	KP 2P-30

SIG 3000



Super impact grease for fleets and heavy equipment.

- Multi-purpose grease fortified with special additives enabling it to withstand the heavy impact and pounding pressures common to heavy equipment
- Special additive package allows the grease to stay in place and not to spatter or pound out of the bearing or grease fitting
- Long-lasting under extreme pressure and heavy impact
- 65,000 psi/65 Timken load*
- Temperature resistance to 285 °C (545 °F)
- Superior water resistance and resists most acids, dirt, salt spray, steam, dust, dirt and weather
- Contains extra rust, corrosion and oxidation inhibitors
- Synthetic formula will not burn grass on golf courses

* Timken load is a qualitative measure that indicates the possible performance of extreme pressure additives (EP). A measure of 35 or higher indicates the presence of extreme pressure additives. EP additives are especially beneficial in applications that experience high axial or thrust loads. EP additives are also shown to reduce fatigue on bearings.

Application:

Recommended for heavy equipment and fleets. As well, any application where high heat and/or pressure is present, ie: food plant steam room*, mining operations, etc. Also excellent for motorcycle and snowmobiles as it won't fling off important parts.

Note: Greases are delivered in plastic cartridges! The plastic cartridges improve storage (they prevent the grease from oozing out in high temperature conditions). Store cartridges upright in a cool, dry place! The operating instructions of the vehicle, machinery and aggregate manufacturers must be observed! For further information see the technical information leaflet.

Recommended:

Hand-Lever Grease Gun **Art. No. 986.00**

Technical Data	
Colour	Green
Thickener	Clay
Penetration (ASTM D-217)	245-265 mm
*NL GI Grade	2.5
Dropping Point (ASTM D-556)	+288 °C (+550 °F)
Timken OK Load (ASTM D-2509)	65 lbs
Water resistance	Excellent
Acid resistance	Excellent
Rust resistance	Excellent
Base oil viscosity	
SUS @100°F	800
cSt @ 40°C	66
SUS @ 210°F	151
cSt @ 100°C	11.7

Contents	Art. No.
397 g	890.401000
20.4 kg (45 lbs)	890.401001

LOW TEMPERATURE SYNTHETIC GREASE



A synthetic heavy-duty, multi-purpose lubricant with PTFE micro powder.

Features:

- Product carries a synthetic base with added PTFE micro powder to make a lubricant with long lasting protection against friction, wear, rust and corrosion.
- Stable under extreme temperature conditions (from -43°C/-45°F up to 232°C/450°F). It will not melt, evaporate, separate or form gummy deposits due to temperature changes.
- Impervious to salt water.
- Dielectric and compatible with most other greases.
- Does not contain silicone. Safe to be used in body shop environments.
- NSF H1 registered food grade lubricant.
- Environmentally friendly and biodegradable.
- Carries the Kosher certification.

Application:

Can be used in hubs, axles, chassis, shocks, springs, wheel bearings, fifth wheels, trailer and buddy bearings. Suitable for caliper assembly and as a bearing grease. Designed to be used in food processing equipment, dielectric applications as a battery protector, weight and fitness equipment, lawn movers, garage doors, snow blowers, sewing machines, garden and farm equipment

Colour	Contents	Art. No.
Translucent White	397 g	890.602

PREMIUM MOLY GREASE



Non-melt grey coloured lubricant containing molybdenum disulphide.

- Fortified to provide anti-wear and low friction performance through a wide temperature range.
- The molybdenum disulfide enables reduction of friction and protects against excessive wear from extreme loads, galling and seizing.
- The protective mechanism of Würth Premium Moly Grease, acts by plating the metal surfaces, imparting extra protection and extending the lubrication cycle.
- Exceptionally resistant to most acids, salt spray, steam, dirt, dust, water, oxidation and weather.
- Has excellent adhesive and cohesive properties, as well as high shock protection.
- Protects equipment indoors or outdoors, even under high temperatures and heavy loads.

Technical Data

- Moly for Extra EP Ability.
- 288°C (550°F) Dropping Point
- Non-melt grease
- 65 Timken OK Load
- Weather Resistant
- Excellent lubricity and a low coefficient of friction

Areas of Application:

Construction equipment, farm equipment, cotton gins, bottling plants, automotive, marine, steel mills, industrial plants, oil field equipments, paper mills, asphalt plants, trucking industry

Colour	Contents	Art. No.
Dark Grey	397 g	890.603

PREMIUM WHITE LITHIUM GREASE



Art. No. 893.10411 396 g

All purpose white spray lubricant

- Lubricates and protects against corrosion
- Reduces friction and wear on all moving parts
- Safe on paints and plastics
- Water resistant
- Withstands moisture and high heat
- Good resistance to washout
- Stainless and non-toxic
- Temperature range: -5 °C to +110 °C (23 F to +230 °F)

Application:

Lubrication of door hinges hood latches, trunk latches, hatchback struts, seat tracks, jacks, winches, gear shift mechanisms, steering linkages, garage door and delivery truck door tracks. Ideal for all types of metal to metal lubrication.

WHITE LITHIUM GREASE



Adherent lubricating white grease

- Displaces water
- Anti-corrosive
- Will not run on vertical surfaces
- Temperature range: -10 °C to +120 °C (14 °F to 248 °F)

Applications:

Door strikers, door locks and hinges, brake parts, safety check straps on doors, switching mechanisms, hood strikers, hood hinges, truck strikers

Description	Art. No.
300 g Spray Can	893.870300
200 g Tube	893.870200

TRUE GLIDE



Heavy-duty, multipurpose synthetic grease with PTFE

Features:

- A synthetic lubricant that provides long-life protection against friction, wear, rust, and corrosion
- Compatible with most other lubricants and will not run, drip, evaporate or form gummy deposits
- Will not melt or separate
- It is an excellent dielectric and operates over a temperature range from -42 to 232 °C (-45 to 450 °F)
- NSF approved for incidental food contact (H-1). NLGI grade 2
- Compatible with most rubbers and plastics
- Silicone-free

Applications:

- Ideal for use on plain, anti-friction, ball, roller and wheel bearings, cams, slides, valves, conveyors, chains, hubs, axles, shocks, springs, etc.

Directions:

- Clean and dry area to be treated. When using on bearings, wipe clean before pumping grease to avoid contamination. Do not over-grease, as excessive heating may result. Periodically clean and repack bearings with fresh grease. For best results, purge other greases before use. Re-apply as necessary.

Container	Contents	Art. No.	P. Qty.
Tube	150 g	893.899	1

SILICONE SPRAY GREASE



Art. No. 893.223 447 g

White coloured, water-displacing and insulating silicone grease

- Outstanding sliding capability on almost all surfaces
- Extremely high water-displacing properties
- Very high electrical resistance, thus very good insulating properties (= 14.7 kV/mm)
- Temperature resistance range from -40 °C to +300 °C (-40 °F to +572 °F)
- Colour: transparent when sprayed, after application a white film of lubricant remains on the treated surface

Application Areas:

Suitable for lubricating door bolts, glide rails, door and furniture hinges and drawers, etc. Also suitable for protection against moisture and corrosion in electrical components and wiring. Also ideal for lubricating switches.

SILICONE SPRAY



- The useful temperature range of the lubricant film of Würth Silicone spray is approximately: -20C to 150C
- Anti-static
- Ozone friendly
- Will not stain
- Also serves as a lubricant
- Leaves high shine to plastic parts such as bumpers, radiator grills, spoilers, lining strips, vinyl roofs, etc.
- Prevents these parts from becoming porous

- Maintains rubber parts such as door and hood rubber sealings, rubber buffers, bumper strips, radiator tubes, etc.
- Ideal for suppressing squeaks on internal trims
- Protects electrical contacts against dampness
- Ensures easy sliding of sun-roofs, seat rails and belt rollers, etc.
- Serves as an assembly aid for tube connectors

Description	Contents	Art. No.
German	305 g	893.221
Domestic	320 g	893.221320

PREMIUM SILICONE SPRAY



Art. No. 893.92211 276 g

Excellent lubricant made out of 100% pure viscosity silicone and release agent.

For use in the automotive, industrial and household areas

Automotive:

- Lubricates and prevents squeaks of rubber parts around windows, doors, trunk lids, mounts and contact points on hoods
- Prevents rubber from freezing and sticking to metal and keeps it flexible
- Waterproofs electrical and ignition systems
- Spray and buff to rust-proof chrome and other metals

Industrial:

- Adds longer life to cutting blades
- Lubricates, waterproofs and rustproofs machinery
- Use on conveyor belts and as a release agent for heat sealing equipment

Household:

- Lubricates garage doors, windows, doors, drawers and cabinets
- Rustproofs tools and barbecues

FOOD GRADE SILICONE SPRAY



Art. No. 893.221001 386 g

High quality, physiologically safe anti-friction and release agent.

Can be used in areas in which food is processed or stored. In this context, the product may come into contact with foodstuffs for occasional, technically unavoidable reasons.

Contains highly concentrated high-quality silicone oils

- Optimum anti-frictional and lubricating properties
- Prevents sticking
- Eliminates unpleasant squealing noises
- Prevents wear

Extremely good temperature resistance from -40 °C to +232 °C (-40 °F to +450 °F)

Wide field of application, also in the field of high temperatures and as a mould release agent

Colourless, non-colouring

- Can be used on bright backgrounds
- No discolouration in the case of occasional contact with the product

Safety product

- Non-toxic
- Non-chlorinated
- Especially user-friendly and safe handling
- Improved workplace safety and health protection
- Reduced marking with danger symbols

Good material compatibility

Moisture repellent, protects e.g. rubber parts against frost

Application:

As an anti-friction agent and for the lubrication of all moving parts of machines, especially in the field of plastics, in automotive engineering, in the food, pharmaceutical, printing and paper industries. Also as a mould release agent in the plastics processing industry and for the protection and care of surfaces.

Chemical basis	Silicone
Colour	Clear
Temperature range	-40 °C to +232 °C (-40 °F to +450 °F)
Odour	Mild odour
Specific Gravity	0.726

SILICONE LUBRICATING COMPOUND



Art. No. 890.2211 226 g

100% Silicone Lubricating Compound

- Excellent general rubber and plastic lubricant
- Provides a moisture barrier
- Will not cause rubber brake components to swell
- Ideal for lubricating rubber parts in brake system, as well as slider pins during assembly
- Shelf life: 12 months
- Temperature range: -56 °C to +230 °C (-69 °F to +446 °F)
- NSF Certified

CU 800



Resistant to high temperature and pressures, highly adhesive copper lubricating, release and corrosion protection paste

Very high resistance

- Temperature range from -40 °C to +1200 °C (-40 °F to +2192 °F)
- Resistant to water, alkaline solutions and acids

Great, long-lasting lubricating effect

- Provides long-term protection against burning-on and seizing, cold welding, wear, corrosion and frictional corrosion

Silicone-free

Use:

Brakes:

- Back sides of disc brake pads (prevents squeaking), fastening and individual parts

Battery terminals:

- Contact protection, nozzles of arc welding torches (prevents formation of welding beads)

Seals:

- Prevents baking on of solid seals

Miscellaneous:

- Screw connections (exhaust manifold screws, spark plug threads, etc.), bearings, pivot points, joints, sliding surfaces

Consistency	Art. No.	Qty.
CU 800 Anti-Seize Spray	893.800	198 g
CU 800 Anti-Seize Paste	893.8001	100 g
CU 800 Anti-Seize Paste	893.8002	1 kg
CU Copper Paste	893.8003	300 g
Anti-Seize Copper Paste with brush	890.920284	283 g

AL 1100



High temperature aluminum paste with excellent adhesive lubricating properties and corrosion protection

- Temperature resistant from -80 °C to +1100 °C (-112 °F to +2012 °F)
- Aluminum copper based high performance anti-seize lubricant
- Resistant to water, alkalis and acids
- Prevents seizing, fusing, wear and corrosion

Applications:

- Brakes
- Batteries
- Battery terminal posts
- Gaskets
- Screw connections
- Exhaust

Consistency	Art. No.	Qty.
Aluminum Anti-Seize Spray	893.1100	249 g
Aluminum Anti-Seize Paste	893.11010	1 kg

MOLY 50S



High performance extreme pressure lubricant

Features:

- Smooth, non-separating and non-hardening formulation, provides extreme pressure lubricating properties
- Temperature resistance up to 343 °C (650 °F)
- Free from lead, copper, and halogenated compounds
- NLGI grade 1
- Withstands pressures up to 500,000 psi
- Meets requirements of MIL-T-83483

Application:

To prevent corrosion, galling, seizing and galvanic pitting between metal parts such as nuts and bolts, valve assemblies, boom guides, chain drives, shafts, taps and drills, press assemblies, metal fittings, pipe fittings, pump mountings, and gaskets.

Container	Contents	Art. No.	P. Qty
Canister with brush	284 g	893.923290	1

12 **ADHESIVES** & **TAPES**

2 Adhesives
9 Tapes



COLD WOOD GLUE



Art. No. 892.10015 28 kg

For gluing all types of wood (hard, soft, and exotic woods and particle boards). Ideal for door and window construction, and for exterior gluing work

Features:

- Highly resistant to water
- Tested D3 and D4 quality according to DIN EN 204. Tested by Institute for Window Technology (Test Report No. 50524485)
- Universal use
- Transparent hardening with no visible glue joints
- Glue tap for convenient pouring

Areas of application:

- Indoor doors
- Stairs and handrails
- Living room, kitchen, and bathroom furniture
- Stationary edge coating with veneers and solid-wood strips
- Assembly, surface, board joints and block gluing
- Indoors with short-term exposure to flow-off or condensed water
- Outdoors protected against weathering

PLASTIC WELD GLUE KIT



Ideal for use with plastic repair systems. Great for fibreglass repairs.

Glue:

- A medium-low viscosity, one part cyanoacrylate performance adhesive that polymerizes very rapidly when pressed into a thin-film between parts
- Can be used on many substrates including plastic, rubber, and some metals - highly resistant to aging and weathering

Accelerator:

- A non-flammable, general purpose solvent-based speedset for cyanoacrylate adhesives
- It is recommended for use when: a fast cure is needed when bead of adhesive must be cured, bonding porous material, gap filling is required, or bonding parts where acidic residue is on the surface
- Flash-off is quick so that the cyanoacrylate adhesive can be applied almost instantaneously over treated areas
- The solvent will not affect most common materials, but will attack polycarbonate and some other plastics.

Description	Contents	Art. No.
Weld Kit	2 pcs.	893.910121
Glue	19 mL	893.910122
Spray Accelerator	59 mL	893.910123

REARVIEW MIRROR ADHESIVE



Art. No. 893.40

- Initial bonding time: 10 seconds only
- 60 % of final bonding strength reached after 15 to 20 minutes, 100 % after 24 hours
- Bonded parts can be handled after 6-3 minutes
- Suitable for bonding e.g. interior mirror to the windshield, window catches and hinges to hinged windows
- Not suitable for plastic holding devices
- Solvent free
- Excellent chemical resistance
- Produces a shock-resistant waterproof and flexible joint
- Content: 5 applications per 2 part bonding kit

"CLASSIC PLUS" WINDSHIELD ADHESIVE



Art. No. 890.023701 310 mL

Elastic 1-component windshield adhesive with very good stability.

Features:

- Universal application for common vehicles
- Suitable for antennas; non-conductive
- Prevents contact corrosion
- Suitable for use on aluminum, magnesium and hybrid vehicle bodies (e.g. Audi A8, Jaguar XJ etc.)
- Safety tested
- Drive-away time confirmed via crash testing and TÜV certificate pursuant to FMVSS208/212!
- Meets OEM requirements (motorvehicle manufacturers)

Areas of application:

- Replacement windshields of cars & utility vehicles, as well as buses, transport vehicles, agricultural & construction machines

Recommended:

Würth Varioprimer **Art. No. 890.024021**

W-Sol Residue Remover

Liquid **Art. No. 890.113**; Aerosol **Art. No. 890.1130**

Glass Cleaner Premium **Art. No. 890.9026**

Technical Data	
Chemical basis	1K polyurethane (moisture hardening)
Colour	Black
Application Temperature	+5°C to +35°C
Processing time	15 min*
Storage temperature	+5°C to +25°C
Drive-away time w/o airbag	1 h*
Drive-away time w/ airbag	2 h*

*Measured at 23°C/50% relative humidity.

WINDSHIELD ADHESIVE DAUBER



Art. No. 891.610

- Wool dauber with a 3 1/2" metal ring handle
- Pack qty.: 6
- Multi-purpose; can be used for other applications as well

VARIOPRIMER



Art. No. 890.024020 20 mL

Features:

- Black, moisture-hardening primer for promoting adhesion of the windshield adhesive on glass, ceramic silkscreen printing, lacquer and various metals.
- Corrosion protection for bare metal surfaces.
- Activator for beads and PU/PVC pre-coated windscreens.
- UV-protection for windscreen adhesive.

Basic Information	Classic Plus
Colour	Black
Application Temperature	+10°C to +35°C
Flash-off times when used as:	
• Primer	15 min*
• Corrosion Protection	15 min*
• Activator	15 min*

*Measured at 23°C/50% relative humidity.

KLEBFIX SUPER GLUE



- For extremely fast connection of any combination of rubber, plastic and metal parts to one another
- Contains no solvents but contact with skin and eyes should be avoided because of instant adhesion
- NSF Certified

Application Information:

Excess liquid adhesive can be removed with acetone or nitromethane. Dried adhesive can only be removed mechanically, under application of heat of 200 °C to 250 °C (392 °F to 482 °F) and with gasket remover Art. No. 893.1000. Before application of gasket remover please check surface for compatibility.

Safety Precautions:

Caution! Prevent any contact to skin and eyes. Contains cyanoacrylate which ensures immediate adhesion. In case of contact with eyes or internal organs, consult a medical doctor. When using super fast glue, ensure that rooms are well ventilated. Keep out of reach of children.

Contents	Art. No.
19 mL	893.09
50 g	893.090

KLEBFIX SUPER GLUE - GEL FORM



- Cyanoacrylate engineered adhesive for smooth and porous materials
- For bonding of metal, cork, cardboard, glass, wood, leather, rubber, plastics (e.g. PVC, ABS, polystyrene), porcelain and ceramics
- Does not run off vertical surfaces
- Temperature resistant from -60 °C to +80 °C (-76 °F to +176 °F)

- Very good chemical resistance
- Economical in use

Safety Precautions:

The thinner the layer of adhesive the higher the strength of the bond.

Contents	Art. No.
3 g	893.403
20 g	893.4031

KLEBFIX EASY PEN



Art. No. 893.090030 30 g

In the innovative, patented Easy Pen design

- Even easier, more practical handling
- Fits ergonomically in your hand
- The base of the Easy Pen provides stable, secure support
- The lever permits easy, problem-free use without great force
- High-precision work possible
- Requires less effort from the user
- Allows the user to work longer without fatigue
- The lever presses into the softest part of the bottle, allowing the bottle to be made of hard material, to help prevent moist air from penetrating the bottle and causing the adhesive to harden

Patented special closure

- One-hand application possible without problem.
- The adhesive can be measured precisely.
- The nozzle does not become clogged

Joins in seconds

- Joined parts can be further processed immediately.
- Simple designs are possible without additional attaching parts.
- High curing temperatures are usually not necessary.
- Outstanding suitability for quick repairs.

Contains 50% more glue than our regular Art. No. 893.09

Note:

It is recommended to wear protective gloves and goggles.

ADHESIVE REMOVER - KLEBFIX DEBONDER 2.0



Art. No. 893.099220 20 mL

Assists in the removal of cured cyanoacrylate adhesives

Features:

- Innovative DOS-system cap allows for problem-free one handed use and precise dosing

Benefits:

- Easy disassembly of joints, and removal of excess adhesive
- Slow evaporating for longer reacting times

KLEBFIX FLEX



Art. No. 893.092 20 g

Tough and flexible black cyanoacrylate with excellent thermal stability

High impact and peel resistance

Increased moisture resistance

For the adhesion of metal, plastic, and rubber parts with and to each other

Patented special cap

- Problem-free, one-handed use
- Precise dosing
- The tips do not clog

Bonds in seconds

- Immediate further processing possible
- Fast repairs
- Simple designs without additional fastening materials possible
- Increased temperature usually not necessary

Solvent-free

Properties:

This special product toughened with rubber is excellent for all applications under thermal/climatic conditions, such as heat and humidity. Excellent resistance against dynamic loads like impacts or vibrations.

High impact and peel resistance. Because of its short term temperature resistance up to +140 °C (284 °F), it is also suitable for SMD technique (surface-mount devices), where a soldering bath is used. The black colour is also excellent for use in loudspeaker assembly.

Note:

It is recommended to wear protective gloves and goggles.

Technical Data	
Colour	Black
Chemical base	Cyanoacrylicacid-ethylester
Physical Properties (liquid)	
Viscosity	200-400 mPas at 25 °C
Density	1.06g/cm ³ , DIN 51757
Flashpoint	87 °C (189 °F) DIN 55213
Temperature Range	-55 °C to +120 °C (-67 °F to +248 °F)
Final strength	24 hours
Physical Properties (cured film)	
Tensile shear strength on aluminum	16 N/mm ² , DIN EN 1465
Shore D hardness	65 - 75
Elongation	> 8%
Melting point	+165 °C (329 °F)
Temperature Range	-55 °C to +120 °C (-67 °F to +248 °F)
Curing time on:	
Aluminum	25-45 seconds
SBR	10-15 seconds
EPDM	< 60 seconds

PLASTOBOND



Art. No. 893.091 20 g

For bonding of difficult plastic materials, such as PA, PBT, PET, PI, POM, TPE, TPO, filled elastomers and natural rubber.

Patented special closure
One-hand application possible without problem. The adhesive can be measured precisely. The nozzle does not become clogged

Joins in seconds
Joined parts can be further processed immediately. Simple designs are possible without additional attaching parts. High curing temperatures are usually not necessary. Outstanding suitability for quick repairs.

Solvent-free

Caution: It is recommended to wear protective gloves and goggles.

TECHNICAL DATA

Physical properties

	Klebfix	Plastobond	Klebfix Flex
Chemical	Cyanoacr. acid ethyl ester	Cyanoacr. acid ethyl ester	Cyanoacr. acid ethyl ester
Colour	colourless	colourless	black
Viscosity in mPa.s	20 - 40	500 - 700	200 - 400
Density in g/cm ³	1.06	1.04	1.06
Elongation	< 2%	< 3%	< 4%
Max. bonding gap in mm	0.10	0.15	0.20
Temperature range	-30°C to +80°C	-55°C to +105°C	-55°C to +120°C
Shelf life	12 months	12 months	12 months

Typical bonding times (sec)

	Klebfix	Plastobond	Klebfix Flex
Steel	60 - 90	30 - 40	90 - 120
Aluminum	60 - 90	30 - 40	40 - 60
PA	20 - 30	30 - 40	45 - 90
PVC	20 - 30	30 - 40	45 - 90
Polycarbonate	10 - 15	10 - 20	60 - 100
POM	30 - 40	30 - 40	60 - 90
EPDM	5 - 9	10 - 20	10 - 30
Neoprene	3 - 5	10 - 20	10 - 30

Typical combined tensile and shear strength values (N/mm²)

	Klebfix	Plastobond	Klebfix Flex
Steel	> 22	> 22	> 25
Aluminum	> 16	> 17	> 19
PA	8 - 12	10 - 30	15 - 20
PVC	10 - 20*	10 - 20*	15 - 20*
Polycarbonate	10 - 20*	10 - 20*	4 - 6*
POM	-	7 - 12	1 - 2
EPDM	> 10*	> 10*	> 10*
Neoprene	> 10*	> 10*	> 10*

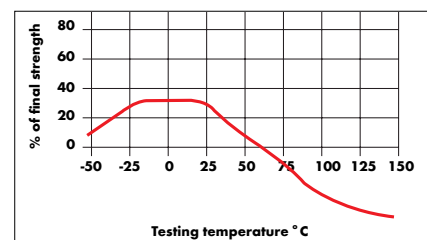
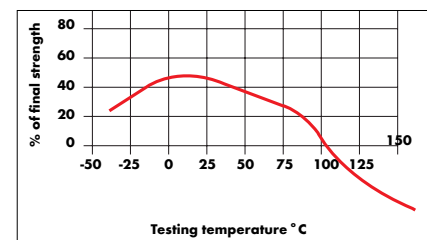
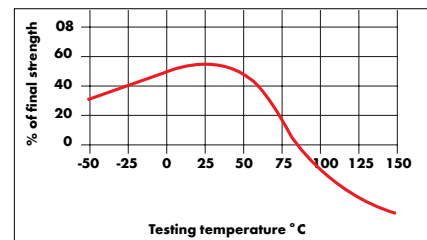
The surfaces to be glued must be clean and free of grease

* Material breakage

Combined tensile and shear strength in accordance with DIN EN 1465 (testing temperature after 24 hours)

With this information we want to advise you to the best of our knowledge based on our tests and experience. However, we shall assume no liability for the application results in individual cases caused by large numbers of applications and storage and application conditions which lie outside the scope of our influence. This also applies to the use of the non-binding technical and commercial customer service we provide. We always recommend that you conduct your own tests. We guarantee the consistent quality of our products. We reserve the right to make technical changes and carry out further development.

* Material breakage



MOULDING ADHESION PROMOTER



Art. No. 893.990029 220 mL

- Should be used on plastics to improve the adhesion of acrylic foam tapes to exterior and interior trims involving injection moulded and plastic parts
- Should be used on TPO, PPO, PG, PC and ABS and any other plastics having adhesion problems
- Improves adhesion
- Easy application
- Dries fast

RUBBER PROFILE ADHESIVE



Rubber based glue for universal application.

- Fast drying adhesive to work on many different substrates such as rubber profiles (solid, foam, natural), leather, linen, rigid PVC, plastics, wood, metals (bare, primed, painted), cork, cardboard and paper.
- Can be used to glue door and window rubbers, gaskets, insulation mats and cladding in cars, caravans and boats.

Characteristics:

- Fast drying.
- Resistant to water, gasoline, sea water, weak acids and alkali.
- Colorless after drying.
- Easy application with the brush included.

Applications:

- The substrates must be dry and free of grease and dust. The applicator brush included with the tin can be used to apply the glue.
- Adhesive must be applied at room temperature. Cooled product must be brought up to room temperature before application and the product should not be used below 18°C.
- When applying the product, the glue needs to be applied evenly on the intended surfaces.
- Once the bonding substrates make contact apply pressure on the surface for 8 to 15 seconds. The pressure that needs to be applied on the surfaces for bonding depends on the hardness of the material.

THIS PRODUCT IS NOT DESIGNED FOR LAYING CARPETS.

Colour	Quantity	Art. No.	P. Qty.
Amber	250ml	890.100014	1

SPRAY ADHESIVE



Art. No. 890.910055 340 g

Fast drying adhesive for a variety of materials

- Long lasting adhesion of plastic, felt material, foamed material, cork, foil and paper
- Moisture resistant
- Temperature resistance from -30 °C - +70 °C (-22 °F to +158 °F)
- Drying time: 10-20 minutes depending on surface
- Adjustable nozzle

SPRAY ADHESIVE - HIGH STRENGTH



Art. No. 890.100056 294 g

Extra strong instantly effective film adhesive. Especially for adhesion of porous surfaces, i.e. felt, cloth, foam material and fabrics

- The adhesion properties are specially designed for requirements in vehicles, i.e. for adhesion of noise suppression pads
- Temperature resistant up to 70 °C
- Drying time 10-20 minutes depending on surface
- Adjustable nozzle
- Remove with W-Sol (Art. No. 890.113/890.1130)

SELF-VULCANIZING SHRINK TAPE



Ideal for applications where heat shrink tubing cannot be applied. i.e. branchings, housings, etc.

- For the sealing of wiring, cables, etc. also used for the emergency sealing of radiator hoses
- Temperature resistant from -40 °C to +90 °C (-40 °F to +194 °F)
- Spec. through resistance: 10 ohms

Length (ft.)	Width (in.)	Art. No.	P. Qty
33 ft.	3/4 in.	985.0771	1
	1 1/2 in.	985.0772	

VINYL ELECTRICAL TAPE



- 7 mil thick (0.18 mm)
- General all purpose black vinyl insulating tape
- Temperature range from -10 °C to +80 °C (14 °F to 176 °F)
- UL Listed and CSA Certified

Length (ft)	Width (in)	Colour	Art. No.	P. Qty
60 ft.	3/4 in	Black	894.1219	10
		Yellow	894.1218	
		Orange	894.1217	

BRUSHABLE ELECTRICAL TAPE



Art. No. 893.198010 118 mL

- Excellent for use in hard to reach areas, where the use of electrical tape or heat shrink tubing is impossible
- Insulates, seals and coats all in one step
- Coating will remain flexible and is waterproof
- Protection of vehicle wiring from corrosive influences such as street salt or calcium
- Colour: Black
- Temperature exposure range: -30 °C to +120 °C (-22 °F to +248 °F)
- Tacks up in 5 minutes/cures in 30 minutes

Note: Shake well for minimum 5 minutes.

ELECTRICAL INSULATING TAPES



VDE approved, DIN 40631-K 10

For insulation in the electrical installation sector

- Soft PVC-foil
- Approved acc. to VDE 0340 part 1/5.75
- Breakdown voltage up to 9 kV
- Thermal stability: +0 °C to +90 °C (+0 °F to +194 °F)
- High flexibility and good adhesive properties
- Resistant to wear and tear
- Resistant against thinned acids and alkalis
- Keeps good material characteristics after assembly even at high temperature differences

Colour	Width mm	Thickn. mm	Length per roll	Art. No.
Black	15	0.15	10 m	985.101
White				985.102
Red				985.103
Blue				985.105
Yellow				985.107
Green/Yellow				985.109

PVC ELECTRICAL INSULATING TAPE



Art. No. 985.201 19mm x 18.3m

985.201 is an economical grade electrical tape. The tape consists of a backing of plasticized polyvinyl chloride film, coated on one side with aggressive Rubber-Resin adhesive with good aging characteristics. No flagging or deterioration even with temperatures as high as 80° C.

UL Listed and CSA certified.

Application:

- For use as electrical insulation on joints and splices in wires and cable in accordance with the National Electrical Code.

Properties	Unit	Average Test Values
Total Thickness +/- 10%	mm (mil)	0.17
Adhesion to Steel	kg/25mm (oz/1")	>0.45
Tensile Strength	kg/25mm (lb/1")	>7
Elongation	%	>100
Dielectric breakdown	kv	>7
Colour	Matte Black	
Test Method	ASTM D-1000	
Shelf Life	12 months when stored in original carton at 73 F (23 C) and 65% relative humidity.	

CELLULAR RUBBER EPDM SEALING TAPE



Weather and ageing-resistant sealing tape for permanent sealing. For more demanding requirements in both indoor and outdoor usages.

Features:

- Closed-cell foam for best possible freedom from leaks
- High material flexibility
- Excellent resistance against weathering, aging, UV and temperature
- Excellent material compatibility; solvent-free
- Very good abrasion resistance

Areas of application:

- High-quality motor vehicle seals
- Plumbing, ventilation, and air-conditioning
- Sheet-metal, steel and glass structures
- Housing industry
- Areas requiring insulating, impact dampening and sound deadening

Recommended:

Use with Safety Knife **Art. No. 715.66013**

Directions: Apply cellular rubber EPDM sealing tape to the application surface. The application surface must be dry and free of grease, dust, and chips. To achieve a strong seal, compress the tape during installation.

Featured in a 2014 Hyundai Technical Bulletin:

Length (m)	Width (mm)	Thickness (mm)	Art. No.	Qty.
10m	30mm	3mm	875.850330	1

Technical Data

Tape colour	Black
Foam material	EPDM cellular rubber
Adhesive	Acrylate dispersion, solvent-free
Application temperature	+5 °C to +30 °C
Temperature resistance	-30 °C to +100 °C
UV resistance (outdoor weathering)	Given
Shelf life at +20 °C	24 months

These notes are intended to provide our advice to the best of our knowledge, based on tests and experience. However, we cannot assume any liability for processing results in individual cases due to the wide variety of applications as well as storage and processing conditions beyond our control. This also applies in case our technical and commercial customer service is consulted free of charge and without obligation. We recommend carrying out individual tests. We guarantee the constant quality of our products. We reserve the right to make technical modifications and advanced developments.

Technical Tip: This Technical Tip provides information needed to eliminate a high pitched wind whistle noise that may be heard on some Hyundai RB Accent vehicles. The noise may be heard while driving at normal freeway speeds and is usually traced to the outside rear view mirror area. **Note:** This noise may also change in frequency with different fan blower speeds.

Applicable vehicles:

2012 Hyundai Accent (RB)

Repair: Wind noise from outside rear view mirror area



ELECTRICAL TAPE



Rubber Splicing Tape

Art. No. 894.1221 - 3/4" x 22 ft.

- Conformable self-fusing rubber electrical insulating tape
- Designed for low voltage electrical insulating and moisture sealing applications (up to 600 V)
- Rated up to 80 °C (176 °F)
- Excellent corrosion resistance to aluminum or copper conductors
- Compatible with solid dielectric cable insulations
- To be used on bolted connections, service drops, lightning connections, ground rod connections, motor leads, etc.



Super 33 + Vinyl Electrical Tape

Art. No. 894.1220 - 3/4" x 20 m (66 ft.)

- Premium grade, 7 mil thick (0.18 mm)
- Designed to perform continuously in temperatures from -18 °C to +105 °C (0 °F to +220 °F)
- Excellent resistance to flame, abrasion, moisture, alkalis, acids, corrosion and weather conditions (including ultraviolet exposure)
- Underwriters' Laboratories Listed and Canadian Standards Association Certified



Electrical Moisture Sealing Tape

Art. No. 894.1222 - 2 1/2" x 10 ft.

- 7 mil thick (0.18 mm)
- Flexible over wide range of temperatures from -18 °C to +38 °C (0 °F to +100 °F)
- Excellent resistance to abrasion, moisture, alkalis, acid copper corrosion and various weather conditions
- Highly resistant to ultraviolet light
- Insulates and seals all connections up to 600 V

WOVEN ROT PROOF TAPE



Art. No. 894.1230 3/4" x 25 m

PET cloth wire harness tape for high abrasion protection and high temperature resistance in 150°C areas.

This tape is the cost efficient solution for very high abrasion and high temperature areas on cable harnesses in the engine compartment. Its new-generation acrylic adhesive is compatible with new halogen-free cable jacketing materials (PE/PP) and provides enhanced durability. It is optimized for manual and automatic application.

Features:

- High abrasion resistance
- High temperature resistance 150°C/3000h
- Oil and fuel resistant
- UV resistant
- Flame retardant
- Moisture resistant
- Excellent compatibility with PVC-, PE- and PP-cable insulation
- Stable unwind strength
- Resistant to ageing
- Rot-proof
- Tear resistant
- Strong adhesion
- Flexible and smooth

Technical Data	
Backing material	PET cloth
Type of adhesive	Acrylic
Total thickness	260 µm
Adhesion to steel	5,5 N/cm
Elongation at break	40%
Tensile strength	275 N/cm
Temperature resistance	150 °C
Unwind force (roll width ≤ 9mm)	5 N/roll (30 m/min)
Unwind force (roll width > 9mm)	11 N/roll (30 m/min)
Abrasion resistance (strokes)	Class D (acc. to LV312)

Properties	
Automatic application	Yes
Compatibility with PVC-, PE- and PP-wire jacketing material	Good
Resistance to oil, fuel and chemicals	Good
Halogen free	Yes
Fogging	Medium
Rot proof	Yes
Self-extinguishing	Yes
Temperature resistance	Very Good
Abrasion resistance	Very Good

ADHESIVE TRIM TAPE



Width	Length	Thickness	Art. No.	P. Qty.
4 mm (5/32")	10 m (32.8')	0.8 mm (1/32")	894.9104	1
12 mm (1/2")			894.910	
19 mm (3/4")			894.9100	
24 mm (15/16")			894.9101	

Technical Data	
Adhesive base	Acrylate adhesive
Carrier	Polyethylene (anthracite)
Adhesive strength	19 N / 25 mm
Elongation at rupture	> 300%
Application temperature	+5 °C to +40 °C (+41 °F to +104 °F) applies to surface and adhesive tape
Temperature stability	-40 °C to +95 °C (-40 °F to +203 °F)
Shelf life (at approx. +20 °C (68 °F) and 50% humidity)	12 months
UV resistance	Yes
Moisture resistance	Yes

High strength double-sided adhesive tape with polyethylene carrier and acrylate adhesive.

- Very strong adhesion. The tape provides outstanding adhesion immediately after installation of the trim. A high level of final adhesive strength is achieved after a curing time of 24 hours. Very strong adhesion also on rough and slightly uneven surfaces.
- Foam carrier. The tape has a vibration-damping effect and compensates for the expansion properties of two different materials.
- High temperature, UV and weather resistance. The tape can be used indoors as well as outdoors. Does not lose adhesion at higher temperatures.

Instructions for use:

- The surfaces to be joined must be dry and free from dust, grease and silicon.
- In order to assure perfect adhesion, sufficient pressure must be applied to the tape during installation.
- Optimal final adhesive strength is reached after 24 hours.
- In case of sensitive surface finishes (e.g. PP, PE, rubber) and porous surfaces (e.g. wood or stone), carry out a preliminary application test.
- In case of plastic materials to be joined containing plasticizer additives, these additives may change the adhesive layer and impair the strength of the adhesive (perform preliminary test).

Areas of application:

- Trim and functional metal strips, logos, emblems, screens and holding brackets in the automotive industry.
- Attachment of name plates on machines.
- For attachment of spoilers in connection with mechanical elements.

DOUBLE SIDED EMBLEM TAPE



Applications:

- Mounting of ABS plastic parts in the car industry
- Self-adhesive mounting of rubber/EPDM profiles

Art. No. 894.9102 - 3/8" width
Art. No. 894.9103 - 3/4" width

- Double coated adhesive transparent tape consisting of polyester film with release liner
- Adhesive system is especially resistant to plasticizers
- Offers secure bond even at elevated temperatures
- 8 mil thick, 180 ft. long
- Temperature range: from -50 °C (-58 °F) Short term: 200 °C (392 °F) Long term: 80 °C (176 °F)

MASKING TAPE



Art. No. 894.5524 - 24mm x 55 m

General purpose masking tape

- Made from a crepe paper coated with a quality natural rubber adhesive
- Suitable for masking of surfaces like walls, floors, furnitures, etc.
- Good adhesion on concrete, paint, wood, metal, plastic, glass, etc.
- Tape thickness: 0.14mm
- Temperature resistance: 90 °C (194 °F) for 60 min. approx.
- Colour: light yellow
- Qty: 36/box - 9/per sleeve

For automotive masking applications please use Art. No.'s 992.0019 - 992.0050

Note:

- Suitable only for indoor applications
- Avoid exposure to direct sunlight
- Remove the masking tape after max. 24/48 hours
- Store in a cool, dry place

WÜRTH MASKING TAPE



Width in inches	Width in mm	Length in m	Thickness in mm	Art. No.	P. Qty.
3/4	19	50	0.13	992.0019	16
1 1/2	38	50	0.13	992.0038	8
2	50	50	0.13	992.0050	6

Technical Data	
Adhesive base	Natural rubber
Carrier	paper, crème-white
Adhesive strength	7.5 N / 25 mm
Elongation at rupture	10%
Application temperature	+5°C to +40°C
Temperature stability	-5°C to +80°C
Shelf life (at approx. +20°C and 50% humidity)	12 months
UV resistant	No
Moisture resistant	Yes

Paper masking tape for general masking applications.

Heat-resistant to +80 °C.

- The tape is also very well suited for painting work requiring baking.

Very good adhesion on smooth and painted surfaces.

Very good adhesion on all smooth surfaces in construction or automotive applications, e. g. painted metal, glass, chrome-plated parts or rubber. The tape can be removed immediately after painting without leaving any residue.

Moisture and solvent resistant.

- The tape is suitable for all painting work with all commonly available solvent-containing and water based paint and enamel systems.
- Also very well suited for wet sanding.

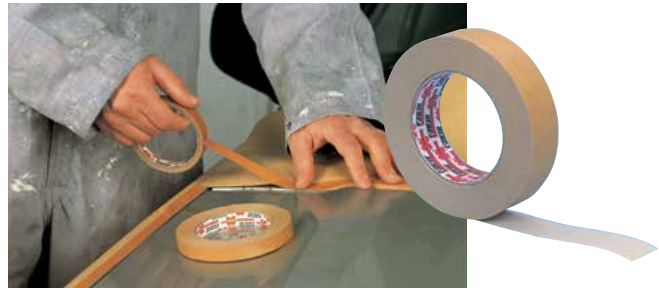
Instructions for use

- To assure residue-free removal, the tape must be removed immediately after drying of the paint or enamel.
- The masking tape is not UV-resistant and therefore not suitable for outdoor applications.

Areas of application:

- Painting and enamelling of automobiles requiring baking.
- Masking for house painting jobs, attachment of masking paper.
- Marking of cartons and cans.

HEAT RESISTANT MASKING TAPE



Width in inches	Width in mm	Length in m	Thickness in mm	Art. No.	P. Qty.
3/4	19	50	0.18	992.619	16
1 1/2	38	50	0.18	992.638	8
2	50	50	0.18	992.650	6

Technical Data	
Adhesive base	Rubber-resin adhesive
Carrier	Latex-impregnated crepe paper (brown)
Adhesive strength	10.5 N / 25 mm
Elongation at rupture	10.5%
Application temperature	+15°C to +40°C
Temperature stability	-20°C to +110°C
Shelf life (at approx. +20°C and 50% humidity)	Up to 6 months
UV resistant	No
Moisture resistant	Yes

High-quality masking tape for professional painting.

Heat-resistant to +110 °C.

- The tape is also very well suited for painting work requiring baking.

Latex-impregnated paper carrier.

- The tape is suitable for all painting work with all commonly available solvent-containing and water based paint and enamel systems.
- Also very well suited for wet sanding.

Very good adhesion and adaptability.

- Very good adhesion is assured on all smooth surfaces in construction or automotive applications, e.g. painted metal, glass, chrome-plated parts or rubber. The tape can be removed immediately after painting without leaving any residue.
- Even after wet sanding or oven baking, the tape still adheres very well to the masked surface.

Suitable for lettering.

The tape can be used for marking of cartons, cans, etc.

Instructions for use

- To assure residue-free removal, the tape must be removed immediately after drying of the paint or enamel.
- The masking tape is not UV-resistant and therefore not suitable for outdoor applications.

Areas of application:

- Painting and enamelling of automobiles requiring baking.
- Masking for house painting jobs.
- Attachment of masking paper.
- Marking of cartons and cans.

GOLD MASKING TAPE



Special paper tape for most demanding requirements for masking work in motor vehicle, metal and painting sectors.

- Extremely thin, adaptable, high quality special paper.
- Special paper is excellently suited for both solvent and water-based paint systems.
- Enables extremely exact masking work.
- Especially fine paint edges without paint running behind.

Special acrylate adhesive for especially gentle masking on sensitive surfaces.

Good adhesion and residue-free removal even on sensitive surfaces in motor vehicle and construction sector, e.g. on chrome strips, wallpaper and furniture.

Outstanding UV resistance of up to 6 months.

Maximum safety even for masking outdoors.

Heat-resistant up to +100° C.

Excellently suited for painting work for which oven drying is required.

Areas of application:

- Covering work for painting in motor vehicle and metalworking sector, especially with sensitive surfaces. Excellently suited for oven drying.
- Covering work in painting sector, especially with sensitive surfaces and masking outdoors.
- Covering in glazing technology.
- Fastening of cover paper.

Width in inches	Width in mm	Length in m	Thickness in mm	Art. No	P. Qty.
3/4	19	50	0.08	992.000319	1
1 1/2	38			992.000338	

Technical Data	
Adhesive basis	Acrylate
Substrate	Japanese rice paper, yellow
Bonding strength	5 N/25 mm
Elongation at tear	4%
Processing temperature	+5°C to +40°C
Temperature resistance	Up to +100°C
UV resistance (outdoor weathering)	Up to 6 months
Moisture resistance	Given
Shelf life at +20°C and 50% humidity	24 months

Note: Tape must be pulled off when dry.



1 Ordinary masking tape:

Paint running behind can result in rough paint edges.

2 Precision masking tape:

Especially fine paint edges.

FIBRE REINFORCING TAPE

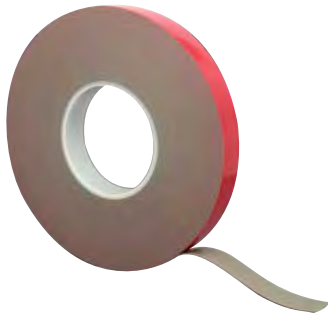


Art. No. 893.91015

O.E.M. recommended product for reinforcing all types of automotive plastic repairs - 20m roll (2" width)

- Contributes 35 % more strength to the structural repair
- Criss-crossing the tape application over the repair will add strength to high stress areas
- Sands evenly with filler

WÜRTH DOUBLE SIDED ACRYLIC TAPE



- High performance two way acrylic foam tape designed for bonding larger moldings and accessories
- High strength acrylic adhesive that provides superior adhesion to various types of plastics, metals, glass, wood and painted vehicle surfaces
- Instant pressure sensitive bonding
- Good initial, and cold temperature adhesion
- Will not absorb moisture
- Conforms to irregular surfaces
- Resists stress

Roll Length	Width	Thickness	Art. No.
18 m	6 mm	1.14 mm	894.9106
	12 mm		894.9112
	22 mm		894.9122

HOOK AND LOOP SELF-ADHESIVE TAPE



Description	Material	Colour	Width (mm)	Length (m)	Art. No.
Hooks	Polyamide 6.6	Black	20	10	894.811
Loops	(Nylon)				894.821

Areas of Application

- Attaching samples, components, coverings and closures for doors, suitcases and lids.
- Automobile, furniture, electronics and textile industry for decoration or advertising purposes.
- Adheres to smooth as well as rough surfaces.

Instructions for Use:

- Simply stick, rivet, nail or staple both elements in place.
- The mounting surfaces must be clean, dry, free from dust, grease, oil, parting agents or solvents.

- The elements can be washed at 60 °C (140 °F), chemically cleaned and ironed in closed condition.

Characteristics:

- Thickness of closure: Following DIN 53370, at closing pressure of 0.14+/-0.04 N/cm²=2.0 to 4.0 mm.
- Temperature stability range from -30 °C to +85 °C (-22 °F to +185 °F).
- Type of adhesive: melt-adhesive on rubber base.

Hooks	Peeling strength	Shearing Strength
After 1 x closing and opening	2.3 (1.3) N/cm ² band width	10.0 (6.0) N/cm ²
After 10,000 x closing and opening	Minimum 0.65 N/cm ² band width	Minimum 3.0 N/cm ²



Adhesive element
Hooks

Connecting element
Loops



POLYPROPYLENE CARTON SEALING TAPE



- 1.8 mil thick.
- 2" wide x 118' length.
- Temperature resistance up to 70 °C (160 °F).
- Very good adhesion and shear resistance on most carton surfaces.
- For use with Tape Dispenser Gun, Art. No. 894.100.

Colour	Art. No.	P. Qty.
Clear	894.102	6

Use Polypropylene Carton Sealing Tape with:

Tape Dispenser Gun.
Art. No. 894.100



DUCT TAPE



Art. No. 894.260

Features:

- Offers easy tear and conformability.
- Meets UL 723, HUD, and BOCA codes.
- Low tack roll edges (48 mm) so edges stay cleaner for less surface contamination and less waste.
- Individual roll wrap (48 mm) that preserves integrity of the roll for less waste.
- Polyethylene coated cloth scrim that resists moisture to prolong tape bond.
- Good tensile strength for tough applications.
- Rubber adhesive that adheres aggressively to most surfaces for good holding power and a tight seal.

Application:

- Hanging polyethylene drapes for containment activities, industrial masking and sandblast overspray protection.
- Patching, reinforcing, bundling, moisture proofing, sealing, splicing, temporary repair.

- Taping and splicing insulation.
- Useful in the convention industry for holding and seaming carpet padding, taping down cords and hinging poster board panels.

Technical Data	
Adhesion to steel	55 oz./in. width (60 N/100 mm)
Tensile strength	25 lbs./in. width (438 N/100 mm)
Elongation at break	17%
Thickness	9.0 mils (0.23 mm)
Temperature use range	Up to 200°F (93°C)
Flammability	Meets UL 723 (Flame spread 0, Smoke developed 30)
Backing	Waterproof polyethylene film over
Adhesive	Rubber
Colors	Silver
Standard roll length	60 yds. (54.8 m)
Shelf life	1 year from date of manufacture

ALUMINUM FOIL TAPE



Art. No. 894.3311

Features:

- Aluminum alloy foil with a pressure-sensitive adhesive and paper liner.
- The aggressive rubber adhesive sticks well to most surfaces and the paper liner makes for convenient and reliable use.
- UL 723 rated for flame and smoke characteristics.
- Can be used under all weather conditions.
- Matches aluminum foil-faced duct systems and insulation.
- Designed for maximum adhesion over clean, dry surfaces. For best results, always use an application squeegee.
- Resists water vapour, odour and smoke transmission.
- Acts as a vapour barrier to insure the integrity of the insulation system.

Application:

- Ideal for sealing aluminum faced insulation seams and joints.
- General repair and maintenance.
- Temporary and emergency repair of metal surfaces.

Technical Data	
Adhesion to steel	90 oz./in. width (98 N/100 mm)
Tensile strength	17 lbs./in. width (298 N/100 mm)
Elongation at break	3%
Total thickness (no liner)	3.6 mils (0.09 mm)
Flame spread index	10
Smoke developed index	5
Temperature use range	-10 °F to +180 °F (-12.2 °C to
Backing	2 mil aluminum alloy foil
Adhesive	Rubber
Color	Silver
Standard roll length	10 & 50 yds. (9.14 & 45.7 m)
Shelf life	1 year from date of manufacture

PTFE TAPE



For sealing threaded connections

- Resistant to all aggressive media
- Temperature stability* -240 °C to +240 °C (-400 °F to +464 °F)
- Pressure resistant* to 25 bar (362.6 psi)
- No sticking or swelling, thus preventing seizing of the threaded connections
- Alignment of the threaded connection, including a limited amount of reversing, is permissible

* Since temperature and pressure are interrelated, a simultaneous load of maximum values is not possible. In addition, the specifications depend on the respective medium. Therefore, due to the wide variety of possible applications, this information can only serve as a guideline.

Width (mm)	Thickness (mm)	Length (m/ft)	Surface-related mass g/m ²	Art. No.
12	0.08	12 m/39 ft	25	985.030165
	0.1		60	985.030160

TESA COATED CLOTH TAPE



Technical Data	
Backing material	Acrylic-coated cloth
Total thickness	290 µm
Type of adhesive	Natural rubber
Adhesion to steel	4.6 N/cm
Elongation at break	7.5%
Tensile strength	105 N/cm
Temperature resistance (30 min)	180°C
Mesh	145 count per square

Colour	Dimensions	Art. No.	Qty.
Grey	30 mm x 50 m	894.4657	1 Roll

Temperature resistant acrylic coated cloth tape

Features & Benefits:

- Removable without residues even after high temperature exposure
- Very ageing-resistant (allowing for permanent applications)
- High resistance to paint solvents

Applications:

- Heat resistant masking during the production of vehicles and machines
- Window flange masking
- Even repeated oven drying possible
- Permanent interior and exterior hold covering
- Covering of screw tap holes and drainage boreholes
- Partial masking during treatment with impregnating agents
- Fastening of flat cables e.g. on roof linings, door panels, mirrors
- Masking during electrostatic powder coating

TEFLON® THREAD SEALANT TAPE



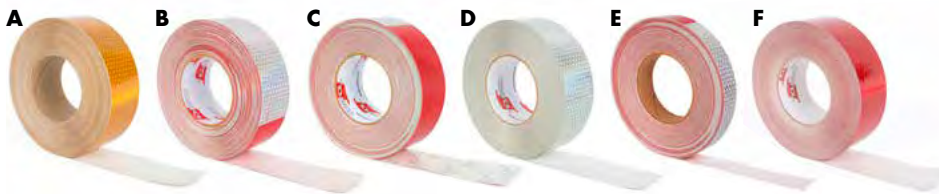
High density industrial sealant tape

- The ideal sealant for pipe thread connections
- Non-toxic and will not contaminate fluids or gases
- Chemically inert, it resists corrosive action of acids, alkalies and solvents
- Temperature range -268 °C to +260 °C (-450 °F to +500 °F)

© Registered Dupont trade name

Width (inches)	Thickness (inches)	Length/Roll(inches)	Art. No.
1/2"	0.004	540" (45 ft)	884.121-M8PIN

CONSPICUITY TAPE



Studies in the USA, Canada and Europe prove that early recognition of trucks and trailers at night can reduce the number of accidents by up to 41%! This reduces the risk for driver and vehicle, as well as keeping periods of downtime and costs to a minimum. Especially recommended for vehicles transporting dangerous goods.

If your vehicles are equipped with retroreflective prismatic foil complying with the ECE regulation, then you have performed a safety retrofit. Have a word with your insurance company about sharing the cost, and reap the benefits once more!

Colour/Pattern	Application	Areas of Application	Length	Width	Kiss Cut	Art. No.
A Yellow	Rear and side of trailers, rigid surfaces, tarpaulins	Trucks and trailers, special-purpose vehicles, rescue services, fire brigades	150 Feet	2"	Not Kiss Cut	894.4471
B Red 6"/White 6"				2"	24"	894.4473
C Red 11"/White 7"				2"	18"	894.4474
D White				2"	12"	894.4475
E White 11"/Red 7"				1"		894.44620
F Red				2"		894.44630

Powerful protection against collisions

- Highly visible retro-reflective tape for trucks, trailers, etc.
- Proven to reduce night-time accidents involving trucks by up to 21%, and day time accidents up to 16% (Vector Study 1985)
- The NHTSA reports a reduction of night-time side and rear impacts into marked trailers ranging between 29 % and 41 %
- The NHTSA also reports a reduction in fatal and injury accidents of 44 % in dark conditions
- DOT certified and guaranteed to meet and exceed NHTSA requirements
- Aggressive pressure sensitive adhesive
- High brightness
- Wide angularity by up to almost 90 ° from perpendicular
- Pre-sealed edges
- Non-metallic construction to prevent corrosion
- Reflective even under wet conditions
- 7 year lifespan
- * Würth branded, 3 year lifespan

Note: Remove tape with our DBS 3600 Metal Blaster, **Art. No. 703.3600**

SILICONE TAPE



Highly resistant, self-welding silicone tape for instant repairs and sealing applications

Features and Benefits:

- Very versatile
- Simple and fast application, making it ideal for use in breakdown & emergency service
- Water & air-tight seal in seconds
- Functions on damp or oily surfaces under water
- Can be removed without residue
- Permanently elastic

Areas of application:

- Boat & RV Hook Up
- Boat riggings
- Sport grips
- Wrapping tool handles
- Sealing and repair of piping and rubber/garden hoses up to a pressure of 8 bar (with 1" dia.)
- Sealing and repair of heating pipes, cooling lines, radiator hoses, fittings, water pipes, oil lines, garden hoses, pneumatic systems
- Wire bundles
- Air & dryer vents
- Seals electrical connections
- Protects against corrosion
- Clamps & holds glue parts

Colour	Length (m)	Width (mm)	Thickness (mm)	Art. No.
Black	3m	25mm	0.5mm	985.077200

Technical Data	
Adhesive	No adhesive, Self-fusing
Continuous operating temperature	-45°C to 200°C (-50°F to 400°F)
Intermittent operating temperature	-65°C to 260°C (-80°F to 500°F)
Cold brittle point temperature	-54°C (-65°F) (ASTM D2137)
Insulation	Up to 8,000 volts per layer
Tensile strength	700 PSI
Stretch	300%
Shelf life	Minimum 5 years

Performance Properties	Performance Level
Moisture resistance, UV resistance, Ozone resistance, Corrosion prevention, Electrical insulation, Resilience, High temperatures	Excellent
Solvent resistance, Flame resistance, Abrasion resistance, Tear resistance	Good
Acid resistance, Oil resistance, Hydrocarbon resistance	Good - Fair

SOFT MASK EASY FOAM MASKING TAPE



Quick, efficient way to seal door jambs, hood and trunk openings, fuel filler doors, sunroofs and other openings when painting or refinishing.

- Eliminates hard paint edges caused by flat masking tape.
- Protects vehicle interior against paint mist, dust and dirt during painting.
- Seals off moving parts such as doors, trunks, hoods, sun roofs, fuel filler doors, etc.
- Works well with water-based paints.

Features:

- Hand tearable
- Repositionable
- Highly flexible
- Withstands paint booth bake cycles
- Oval profile
- Easy-to-dispense carton
- Single sided adhesive removes easily and is residue-free

Colour	Length	Width	Art. No.	P. Qty.
White	50 m	20 mm	818.300050	1

13 SEALANTS & O-RINGS

- 2** Foam & Foam Guns
- 6** Weatherstrip & Accessories
- 8** O-Rings & Assortments
- 16** Sealants & Silicones
- 24** Threadlockers



PURLOGIC® XPRESS



Art. No. 891.1524

For professional application of 1-component gun foams

- Low intrinsic weight
- Easy, effortless handling
- Ergonomic handle shape
- Fits securely and comfortably in your hand
- Optimized sealing system
- A seal combination eliminates the need for readjustment of the needle seal
- Dosable outflow of foam
- Foam outflow quantity is variable adjustable - clean spraying pattern

Application:

A polyurethane foam can should always be screwed onto the PURlogic guns. The gun should be cleaned with PURlogic Clean (**Art. No. 892.160**) at regular intervals. Please read instructions carefully.

Note:

Suitable for use with Würth PURlogic TOP foam (Art. No. 892.142). When used with other polyurethane foam cans, the function should be tested beforehand.

PURLOGIC® PREMIUM PRESS GUN



Art. No. 891.152600

High-quality, PTFE coated metal gun for applying 1-component expanding foams

New, Improved & Completely Redesigned

- Comfortable, rubberised handle for firm hand grip
- Rugged gun body with PTFE-coated needle and threaded basket.
- Foam dispensing quantity can be adjusted for a clean spraying pattern
- Optimized sealing system
- Dosable outflow of foam
- Trusted high-quality foam gun
- Unique Würth design
- Lock button
- Ideal for slim joints and hard to reach areas
- Ergonomic design
- Long service life



Extension Nozzle: Art. No. 891.152601

Pack of 50 pieces

PURLOGIC® TOP



1K-Premium Foam for use with an extrusion gun

Small can, large yield

Foam yield up to 50 litres, freely foaming from a user-friendly, handy can.

Adapted to winter

Can be used even at environmental and subsurface temperatures of -5 °C (23 °F)

Tested product quality

Seam sound damping

Reduces disturbance from noise.

RST, w = 59 dB according to DIN 52210, tested by the Rosenheim Institute for Manufacturing Technology.

Heat conductivity

Reduces heat loss by 0.039 W/(mK) according to DIN 52612, as tested by the Materials Testing Institute of Hannover.

Air permeability

Prevents drafts. Tested according to EN 1026 by the Rosenheim Institute for Manufacturing Technology.

Water vapour permeability

Tested according to DIN EN ISO 12572, by the Rosenheim Institute for Manufacturing Technology.

Energy savings according to the Energy Saving Regulations

9 % savings in heating costs, as tested by the Fraunhofer Institute, according to DIN 18055 / EN204.

General Construction Site Inspection Test Certificate

Corresponding to Construction Material Class B 2, according to DIN 4102, Part 1, tested by the Materials Testing Institute of Hannover.

Other advantages:

- Fine-celled and even foam structure
- High dispensing speed
- High residual utilization
- Resistant to aging
- The "light ivory" colour is especially suited for the restoration of old buildings

Areas of application:

High-grade, secure sealer, filler and insulator for window joints, window sill gaps, pipe ducts, splices, wall joints, plaster cracks and cavities. Optical application verification (made possible by) the concrete grey colour.

Note:

Adheres to concrete, stone, hard PVC, metal and wood. No adherence to polyethylene, silicones, PTFE and grease.

Contents	Colour	Art. No.
475 g	Concrete Grey	892.142

Technical Data	
Apparent density*	12 kg/m ³
Cell size*	Medium fine
Non-adhering after about*	6 min.
Can be cut after approx.*	14 min.
Processing temperature*	5 °C to 25 °C (41 °F to 77 °F)
Processing temperature of the environment and subsurface	-5 °C (23 °F)
Tensile strength according to DIN 53 430	ca. 8 N/cm ²
Elongation at rupture according to DIN 53 430	ca. 18 %
Shearing resistance according to DIN 53 427	ca. 3 N/cm ²
Compressive stress at 10 % compression strain according to DIN 53 421	ca. 2 N/cm ²
Assessed seam sound damping measurement	RST,w = 59 dB
Water absorption according to DIN 53 433	ca. 0,3 Vol-%
Thermal conductivity	0,039 W/mK
Temperature resistance	-40°C to +80°C (-40°F to 176°F)
Shelf life	12 months

PURLOGIC® CLEAN



For the removal of fresh PU foam

Highly effective

Dissolves all fresh foam contaminations quickly and easily

Optimized for use with PU foam guns

The 500-ml can is particularly well suited for cleaning of Würth Purlogic foam guns (Art. No. 891.1522)

Further advantages:

Also suitable for many guns by competitors. The 500 mL can comes with an additional spray head for exterior cleaning of foam guns and other surfaces

Note: Cleans and removes fresh excess PU foam from wood, metals and many types of garments. Not suitable for fully cured PU foam residue. May etch surfaces such as paintwork and plastics. Textiles may become lighter in colour or etched.

Contents	Colour	Art. No.
390 g	Transparent	892.160

PURLOGIC® EASY



1-component installation foam for easy application.

Small can, high yield (high expansion)

The user-friendly, handy can yields up to 35 litres of foam.

Winter-proof

Usable at surface and ambient temperatures as low as -5 °C (23 °F).

Certified product characteristics

Suitable for wells and civil engineering applications

Suitable as foaming adhesive for joining and filling of joints between well elements according to DIN 4034, Part 2, certified by State Trade Authority Bavaria.

Joint sound insulation

Reduces noise according to DIN 52210, as tested by ift Rosenheim.

Thermal conductivity

Reduces heat loss at 0.033 W/(mK) according to DIN 52612, as tested by MPA Hanover.

Air permeability

Prevents air drafts, as tested according to EN 1026 by ift Rosenheim.

Water vapour permeability

Tested according to DIN EN ISO 1257 by ift Rosenheim.

Energy saving according to EnEV

Heating costs savings of 9%, in comparison to stuffing materials, as tested by Fraunhofer Institute following DIN 18055/EN 204.

General approval certificate by building authority

Conforms with building material class B2 according to DIN 4102, Part 1, as tested by MPA Hanover.

Other advantages:

- Fine cellular and even foam structure
- Low amount of residue left in can
- Resistant to aging

Areas of application:

High-quality and secure insulating and filling of hollow spaces such as pipe lead-throughs, joints, wall connections and masonry openings. Sealing and gluing of well rings and molded concrete parts. Visual proof of installation by ice blue colour of the foam.

Note:

Adheres to concrete, stone, hard PVC, metal and wood.
No adherence to polyethylene, silicones, PTFE and grease.

Contents	Colour	Art. No.
553 g	Ice Blue	892.143

Technical Data	
Apparent density*	18 kg/m ³
Cellularity*	medium fine
Non-tacky after approx.*	9 min.
Can be cut after approx.*	15 min
Processing temperature for can	5 °C to 25 °C (41 °F to 77 °F)
Processing temperature for surroundings and surface	-5 °C (23 °F)
Tensile strength according to DIN 53 430	approx. 6.9 N/cm ²
Elongation at tear following DIN 53430	20.5 %
Shearing strength following DIN 53427	approx. 3.2 N/cm ²
Compressive strain at 10% compression following DIN 53421	approx. 1.9 N/cm ²
Water absorption according to DIN 53433	approx. 0.3 Vol.-%
Thermal conductivity	0.038 W/mK
Temperature stability	-40°C to +80°C (-40°F to +176°F)
Shelf life	12 months

PURLOGIC® FLEX



Recommended by experts and leading window manufacturers!

1-component premium foam for elastic joint insulation

Extremely high elasticity

- Highly flexible, and therefore clearly prevents danger of foam tear-off. (approx. 3X flexibility compared to commonly available PU foams)
- Prevents heat bridges

Suitable for use in winter

- Down to -15°C application-surface and ambient temperature
- Down to 0°C can temperature
- Still elastic even at temperatures below freezing

Tried-and-tested product features*

- Component test
- Joint sound insulation
- Thermal conductivity
- Air-permeability
- Water vapour permeability
- Tested energy savings
- General construction test certificate.
- Emicode-certified



Additional advantages:

- Fine-celled, uniform foam structure
- Resistant to aging (not UV-resistant)
- High-degree of residual emptying



Areas of use:

For insulating and filling window connections, pipe ducts, wall openings, wall connections, hollow spaces, cooling carts, walk-in refrigerators, roof finishing, roller shutter boxes and window sills.

Notes:

Adheres on concrete, stone, hard PVC, metal and wood. Does not adhere to polyethylene, silicone, PTFE and grease. PURLOGIC® FLEX can be applied with PURLOGIC® Xpress and PURLOGIC® COMBIpress. A primer should be applied in the case of porous and absorbent surfaces. Unhardened foam may not come into contact with wet adhesive!

Colour	Content	Art. No.	P. Qty.
Pebble Gray	450 g	892.1428	1

Technical Data:	
Unfinished density	Approx. 24 kg/m ³
Non-sticky surface*	Approx. 6 minutes
Cutttable*	Approx. 20 minutes
Application-surface and ambient temperature	-15°C to +25°C
Can temperature	Up to 0°C
Released-foam yield*	Up to 18 liters
Construction material class according to DIN 4102 Part 1	B2
Shelf life	12 months

* Measured at 23°C and 50% humidity

Additional articles:

PURLOGIC® Xpress/COMBIpress
Art. No. 891.1524/891.1522

PURLOGIC® Clean
Art. No. 892.160

Würth Pump Spray Bottle
Art. No. 891.501



Due to building movements and longitudinal expansions in case of temperature fluctuations, increasing foam tear-off results with commonly available PU foam, especially with dark-colored windows.

- Danger of heat bridges resulting. The leaky building connection joint resulting from this can be made visible with thermography – see red areas.

With this information we want to advise you to the best of our knowledge based on our tests and experience. Preliminary testing required! For further information, see the Technical Data Sheet.

ADHESIVE NEOPRENE SPONGE WEATHER-STRIP



Features:

- Light weight closed cell sponge material
- Peel-back for easy application
- Permanent weatherproof seal
- No cement or tacking required
- Reduces wind noise

Applications:

- Surface must be clean and dry before application
- Automobiles and boats
- Any place where a weatherproof seal is required: trunks, sunroofs, firewalls

Thickness	Width (inches)	Roll Size (feet)	Art. No.
5/16	5/8	10	894.4807
5/32			894.4802
5/32	3/8	50	894.4850
	1/2		894.4851
	3/4		894.4852
5/16	1/2	50	894.4855
	3/4		894.4856
	1		894.4857



WEATHERSTRIPPING ADHESIVE



Art. No. 893.100095 142 mL

An adhesive for rubber profiles on rough, pretreated, or painted metal surfaces

- Will not harm fresh paint
- Temperature resistant up to approximately 100 °C
- Must be applied to both surfaces to be bonded
- Let both surfaces skin before bonding to ensure proper adhesion
- Ideal for sunroof rubber and trim
- Ideal for door rubber, to body sealing applications
- Excess glue can be removed easily with W-SOL Residue Remover, Art. No. 890.113/890.1130
- Colour: Black

WEATHERSTRIPPING REPAIR COMPOUND



Art. No. 893.850385 150 mL

A single part compound designed to provide a quick, permanent method of repair to damaged weatherstripping

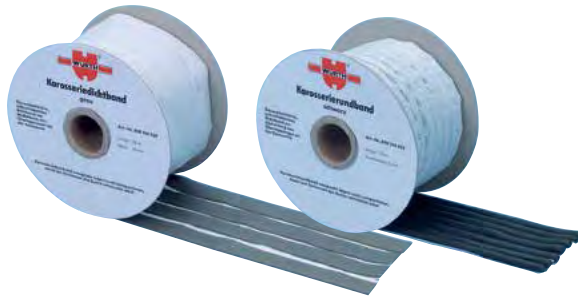
- Effective bonding of rubber to rubber or rubber to metal
- Excellent for attaching trim or weatherstrip section
- Can be applied to lacquered or acrylic and enamel surfaces
- Set-up time allows for repositioning after initial contact

Application:

Spread a thin coat of product over damaged or repaired areas and smooth out with appropriate tool. After the mastic has formed a skin, coat lightly with a silicone. This will provide long lasting weathering and keep the area pliable.

Note: If it is necessary to close door or other area containing repair immediately following the repair, place a piece of polyethylene over repaired area and remove after curing takes place.

CAR BODY SEALING TAPE / ROUND SEALING STRIP



Instructions for use:

- The surfaces to be sealed must be dry, stable and free from grease and dust.
- The application temperature must not be below +5 °C (+41 °F).
- Absorbent and porous surfaces must be sealed before use.
- The car body sealing tape or round sealing strip must be pressed down carefully against the surface. Press the sealing surfaces together firmly to achieve an effective seal.
- Also suitable for general sealing jobs to protect against dust, moisture and vibrations in electrical, machinery and construction applications as well as heating, ventilation and air conditioning, for example, between screw connected parts, in seams, joints, housings of all types and pipe lead-throughs.
- Butyl has a tendency towards "cold flow" (distortion or deformation of a material under continual load at temperatures within the working range). Therefore, butyl products should always be attached mechanically, i.e. with screwing components together or use of a contact profile.
- Applying excessive pressure to the profile will cause "squeezing out" of the sealing compound. Never compress butyl products to their zero point.

Designation	Colour	Width	Thickness	Length	Art. No.	P. Qty.
Car body sealing tape	Grey	20 mm (25/32")	2 mm (5/64")	26 m (4 x 6.5m) 85.3' (4 x 21.3')	890.100030	1/4
Car body round sealing strip	Black	ø 8 mm ø 5/16"		17.5 m (7 x 2.5m) 57.4' (7 x 8.2')	890.100033	

Permanently plastic, self-adhesive sealing tape or round strip for sealing of overlapping car body panels.

- Very good adhesive properties. The tape offers very good adhesion as well as permanent bonding on various different surfaces, e.g. metal, plastic, wood, stone, etc.
- Good UV, weather and water resistance. Also suitable for outdoor use, resistance to rain and other weather influences (not for use in submerged condition).
- Resistant to ageing and high temperatures. Provided the tape is used expertly, adhesion and sealing is assured over a number of years. Also suitable for high-temperature applications, for example, sealing of car bodies.
- Steam diffusion layer. The sealing tape or round strip enable watertight sealing and prevent the penetration of moisture into the car body.

Other features:

- Noise and vibration damping.
- Self-fusing.
- Free of solvents and silicone.
- Immediately ready for use.

Areas of application:

- Universal use for sealing of overlaps and screw connections in the automotive industry, container and motor home construction, for example: between fender and body; at brake and rear lights (particularly round sealing strip); at trim parts and sunroofs.

Technical Data	
Material base	Butyl rubber
Fire protection class	B2
Application temperature	+5 °C to +40 °C (41 °F to +104 °F)
Temperature stability	-30 °C to +100 °C (-22 °F to +212 °F)
Shelf life (at approx +20 °C and 50% humidity)	24 months (store dry, lying flat and dust-free)

LEAK TRACING POWDER



Art. No. 8861.02712 212 g

An aerosolized tracing powder & solvent solution used to locate wind noise, dust & water leaks in areas around door or hatchback caused by gaps or incomplete contact of weatherstrip. Also it can be used as a fast method of locating oil and transmission fluid leaks.

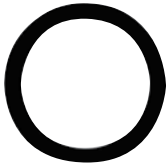
Features:

- Locates: wind, water and dust leaks easily
- Finds leaks around glass, doors, trunks, hatchbacks, body seams, transmissions, engines, etc.
- Safe on painted surfaces
- Safe on rubber and vinyl

• Extension Tube for hard to reach areas
Can be used to locate leaks on:

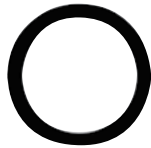
- Doors
- Sunroofs
- Fixed Glass
- Body Seams
- T-Tops
- Trunks
- Hatchbacks
- Convertible Top
- Transmissions
- Engine Blocks
- Power Steering
- Housing
- Radiators
- Engine Covers
- Oil Pans

O-RINGS



**Metric O-Rings
Prefix 468**

(See the blue pages for the full range)
Rubber: 75 Durometer



**Standard O-Rings
Prefix 469**

(See the blue pages for the full range)
Rubber: 75 Durometer



**Blue Neoprene A/C O-Ring
Prefix 469**

(See the blue pages for the full range)
For use with R134A refrigerant



**Green Neoprene A/C O-Ring
Prefix 469**

(See the blue pages for the full line)

O-RINGS



- Made of perbutan N (nitril-rubber)
PN 70 70 ± 5
- Temperature resistant from approx. -35 °C to +120 °C (-31 °F to +248 °F)
- Space saving, easily installed, reliable sealing elements
- For sealing moving and stationary machine components
- Resistant to all kinds of mineral oil, grease, hot water, steam, compressed air, weak acids, etc.

Metric			
Inner dia. metric	Material thickness mm	Art. No.	P. Qty.
3.0	2.0	468.00320	100
4.0		468.00420	
5.0		468.00520	
7.0		468.00720	
8.0		468.00820	
10.0	2.5	468.01020	50
12.0		468.01220	
10.0		468.01025	
12.0		468.01225	
14.0		468.01425	
15.0	468.01525		
17.0	468.01725		
19.0	468.01925		
18.0	3.0	468.01830	
20.0		468.02030	
22.0		468.02230	
24.0		468.02430	
42.0		468.04230	

Imperial					
Inner dia.		Material thickness mm	International Code	Art. No.	P. Qty.
mm	inches	inches			
2.90	1/8	1.78 0.070	AS-006	468.290	50
3.69	5/32		AS-007	468.369	
4.47	3/16		AS-008	468.447	
5.28	7/32		AS-009	468.528	
6.07	1/4		AS-010	468.607	
7.66	5/16	AS-011	468.766		
9.25	3/8	AS-012	468.925		
9.19	3/8	AS-110	468.919		
10.78	7/16	AS-111	468.1078		
12.37	1/2	AS-112	468.1237		
13.95	9/16	2.62 0.103	AS-113	468.1395	
15.54	5/8	AS-114	468.1554		
17.13	11/16	AS-115	468.1713		
18.72	3/4	AS-116	468.1872		
20.22	13/16	3.53 0.139	AS-211	468.2022	
21.82	7/8		AS-212	468.2182	
23.40	15/16		AS-213	468.2340	
25.00	1		AS-214	468.2500	
26.57	1 1/16		AS-215	468.2657	
28.17	1 1/8		AS-216	468.2817	
31.34	1 1/4		AS-218	468.3134	
34.52	1 3/8		AS-220	468.3452	
36.10	1 7/16		AS-221	468.3610	

RUBBER O-RINGS - METRIC – PREFIX 468

Temperature Resistance: -35 C - +120 C



BLACK STANDARD O-RINGS – PREFIX 469


Art. No. 469.327

ID: 1-3/4" | 44.45mm
 OD: 2-1/8" | 53.975mm
 Thickness: 13/64" | 5.159mm


Art. No. 469.222

ID: 1-1/2" | 38.1mm
 OD: 1-3/4" | 44.45mm
 Thickness: 1/8" | 3.175mm


Art. No. 469.220

ID: 1-3/8" | 34.925mm
 OD: 1-5/8" | 41.275mm
 Thickness: 1/8" | 3.175mm


Art. No. 469.219

ID: 1-5/16" | 33.338mm
 OD: 1-9/16" | 39.688mm
 Thickness: 1/8" | 3.175mm


Art. No. 469.218

ID: 1-1/4" | 31.75mm
 OD: 1-1/2" | 38.1mm
 Thickness: 1/8" | 3.175mm


Art. No. 469.217

ID: 1-3/16" | 30.163mm
 OD: 1-7/16" | 36.513mm
 Thickness: 1/8" | 3.175mm


Art. No. 469.216

ID: 1-1/8" | 28.575mm
 OD: 1-3/8" | 34.925mm
 Thickness: 1/8" | 3.175mm


Art. No. 469.215

ID: 1-1/16" | 26.988mm
 OD: 1-5/16" | 33.338mm
 Thickness: 1/8" | 3.175mm


Art. No. 469.214

ID: 1" | 25.4mm
 OD: 1-1/4" | 31.75mm
 Thickness: 1/8" | 3.175mm

ID = Interior Diameter
 OD = Outer Diameter

BLACK STANDARD O-RINGS – PREFIX 469



Art. No. 469.213
 ID: 15/16" | 23.813mm
 OD: 1-3/16" | 30.163mm
 Thickness: 1/8" | 3.175mm



Art. No. 469.212
 ID: 7/8" | 22.225mm
 OD: 1-1/8" | 28.575mm
 Thickness: 1/8" | 3.175mm



Art. No. 469.211
 ID: 13/16" | 20.638mm
 OD: 1-1/16" | 26.988mm
 Thickness: 1/8" | 3.175mm



Art. No. 469.210
 ID: 3/4" | 19.05mm
 OD: 1" | 25.4mm
 Thickness: 1/8" | 3.175mm



Art. No. 469.116
 ID: 3/4" | 19.05mm
 OD: 15/16" | 23.813mm
 Thickness: 3/32" | 2.381mm



Art. No. 469.115
 ID: 11/16" | 17.463mm
 OD: 7/8" | 22.225mm
 Thickness: 3/32" | 2.381mm



Art. No. 469.114
 ID: 5/8" | 15.875mm
 OD: 13/16" | 20.638mm
 Thickness: 3/32" | 2.381mm



Art. No. 469.113
 ID: 9/16" | 14.288mm
 OD: 3/4" | 19.05mm
 Thickness: 3/32" | 2.381mm



Art. No. 469.112
 ID: 1/2" | 12.7mm
 OD: 11/16" | 17.463mm
 Thickness: 3/32" | 2.381mm



Art. No. 469.111
 ID: 7/16" | 11.113mm
 OD: 5/8" | 15.875mm
 Thickness: 3/32" | 2.381mm



Art. No. 469.110
 ID: 3/8" | 9.525mm
 OD: 9/16" | 14.288mm
 Thickness: 3/32" | 2.381mm



Art. No. 469.012
 ID: 3/8" | 9.525mm
 OD: 1/2" | 12.7mm
 Thickness: 1/16" | 1.588mm



Art. No. 469.011
 ID: 5/16" | 7.938mm
 OD: 7/16" | 11.113mm
 Thickness: 1/16" | 1.588mm



Art. No. 469.010
 ID: 1/4" | 6.35mm
 OD: 3/8" | 9.525mm
 Thickness: 1/16" | 1.588mm



Art. No. 469.009
 ID: 7/32" | 5.556mm
 OD: 11/32" | 8.731mm
 Thickness: 1/16" | 1.588mm



Art. No. 469.008
 ID: 3/16" | 4.763mm
 OD: 5/16" | 7.938mm
 Thickness: 1/16" | 1.588mm



Art. No. 469.007
 ID: 5/32" | 3.969mm
 OD: 9/32" | 7.144mm
 Thickness: 1/16" | 1.588mm



Art. No. 469.006
 ID: 1/8" | 3.175mm
 OD: 1/4" | 6.35mm
 Thickness: 1/16" | 1.588mm

ID = Interior Diameter
 OD = Outer Diameter

GREEN AIR CONDITIONING O-RINGS – PREFIX 469



Art. No. 469.09211
 ID: 0.796" | 20.22mm
 OD: 1.072" | 27.24mm
 Thickness: 0.139" | 3.53mm



Art. No. 469.09118
 ID: 0.862" | 21.90mm
 OD: 1.059" | 26.89mm
 Thickness: 0.103" | 2.62mm



Art. No. 469.09018
 ID: 0.739" | 18.77mm
 OD: 0.857" | 21.76mm
 Thickness: 0.07" | 1.78mm



Art. No. 469.09175
 ID: 0.797" | 20.24mm
 OD: 0.974" | 24.75mm
 Thickness: 0.098" | 2.5mm



Art. No. 469.09016
 ID: 0.614" | 15.60mm
 OD: 0.739" | 18.78mm
 Thickness: 0.07" | 1.78mm



Art. No. 469.09015
 ID: 0.551" | 14mm
 OD: 0.691" | 17.56mm
 Thickness: 0.067" | 1.7mm



Art. No. 469.0901555
 ID: 0.51" | 12.95mm
 OD: 0.655" | 16.63mm
 Thickness: 0.071" | 1.8mm



Art. No. 469.902110
 ID: 0.551" | 14mm
 OD: 0.724" | 18.38mm
 Thickness: 0.09" | 2.29mm



Art. No. 469.09014
 ID: 0.489" | 12.42mm
 OD: 0.629" | 15.98mm
 Thickness: 0.07" | 1.79mm



Art. No. 469.92121
 ID: 0.394" | 10mm
 OD: 0.591" | 15mm
 Thickness: 0.098" | 2.5mm



Art. No. 469.09013
 ID: 0.426" | 10.82mm
 OD: 0.566" | 14.38mm
 Thickness: 0.066" | 1.68mm



Art. No. 469.09012
 ID: 0.364" | 9.25mm
 OD: 0.504" | 12.8mm
 Thickness: 0.067" | 1.7mm



Art. No. 469.09011
 ID: 0.301" | 7.65mm
 OD: 0.316" | 8.03mm
 Thickness: 0.071" | 1.8mm



Art. No. 469.09108
 ID: 0.236" | 6mm
 OD: 0.433" | 11mm
 Thickness: 0.103" | 2.62mm



Art. No. 469.09903
 ID: 0.301" | 7.65mm
 OD: 0.42" | 10.67mm
 Thickness: 0.064" | 1.63mm



Art. No. 469.091155
 ID: 0.291" | 7.38mm
 OD: 0.435" | 11.04mm
 Thickness: 0.071" | 1.8mm



Art. No. 469.92103
 ID: 0.26" | 6.6mm
 OD: 0.417" | 10.6mm
 Thickness: 0.07" | 1.78mm



Art. No. 469.09022
 ID: 0.276" | 7mm
 OD: 0.394" | 10mm
 Thickness: 0.058" | 1.47mm



Art. No. 469.09901
 ID: 0.185" | 4.7mm
 OD: 0.291" | 7.4mm
 Thickness: 0.056" | 1.42mm



Art. No. 469.09008
 ID: 0.176" | 4.47mm
 OD: 0.441" | 11.21mm
 Thickness: 0.071" | 1.8mm

GREEN AIR CONDITIONING O-RINGS – PREFIX 469



Art. No. 469.09010
ID: 0.239" | 6.07mm
OD: 0.379" | 9.63mm
Thickness: 0.07" | 1.78mm



Art. No. 469.09568905
ID: 0.414" | 10.52mm
OD: 0.546" | 13.88mm
Thickness: 0.072" | 1.83mm



Art. No. 469.09568110
ID: 0.362" | 9.19mm
OD: 0.56" | 14.22mm
Thickness: 0.103" | 2.62mm



Art. No. 469.09111
ID: 0.424" | 10.77mm
OD: 0.623" | 15.83mm
Thickness: 0.103" | 2.62mm



Art. No. 469.09568906
ID: 0.473" | 12.01mm
OD: 0.614" | 15.60mm
Thickness: 0.074" | 1.88mm



Art. No. 469.09568113
ID: 0.549" | 13.95mm
OD: 0.74" | 18.8mm
Thickness: 0.103" | 2.62mm



Art. No. 469.09568114
ID: 0.612" | 15.54mm
OD: 0.787" | 20mm
Thickness: 0.103" | 2.62mm



Art. No. 469.09017
ID: 0.676" | 17.17mm
OD: 0.816" | 20.73mm
Thickness: 0.066" | 1.68mm

BLUE AIR CONDITIONING O-RINGS – PREFIX 469



Art. No. 469.18543
ID: 11/16" | 17.463mm
OD: 13/16" | 20.638mm
Thickness: 1/16" | 1.588mm



Art. No. 469.18540
ID: 9/16" | 14.288mm
OD: 11/16" | 17.463mm
Thickness: 1/16" | 1.588mm



Art. No. 469.18539
ID: 1/2" | 12.7mm
OD: 11/16" | 17.463mm
Thickness: 3/32" | 2.381mm



Art. No. 469.18537
ID: 7/16" | 11.113mm
OD: 9/16" | 14.288mm
Thickness: 1/16" | 1.588mm



Art. No. 469.18536
ID: 3/8" | 9.525mm
OD: 9/16" | 14.288mm
Thickness: 3/32" | 2.381mm







Art. No. 469.18534
ID: 5/16" | 7.938mm
OD: 7/16" | 11.113mm
Thickness: 1/16" | 1.588mm



Art. No. 469.18533
ID: 1/4" | 6.35mm
OD: 7/16" | 11.113mm
Thickness: 3/32" | 2.381mm

ALUMINUM O-RINGS FOR A/C SYSTEMS

Helps prevent leaking from the hose manifold at the joint where it attaches to the compressor

Image	Size	OEM #	Application	Art. No.	P. Qty.
	5/8"	GM: 52757910	GM Compressor Manifold Sealing Washer - Thick	469.09638	10
	5/8"	GM: 52455752	GM Compressor Manifold Sealing Washer - Thin	469.09639	10
	3/4"	GM: 52455756	GM Compressor Manifold Sealing Washer - Thin	469.09640	10
	8 mm	GM: 15-31054 / 5247087	GM Block Fitting Sealing Washer - Slim Line	469.09887	10
	11 mm	GM: 15-31055 / 52474373 Chrysler: 5012980AA	Block Fitting Sealing Washer - Slim Line	469.09888	10
	15 mm	GM: 15-30817 / 2724952 Chrysler: 5012979AA	Block Fitting Sealing Washer - Slim Line	469.09889	10
	17 mm	GM: 27249661 / 52474375 AC Delco: 15-31056 / 15-31101	Block Fitting Sealing Washer - Slim Line	469.09890	10

O-RING ASSORTMENTS



Art. No. 964.468

Metric Rubber O-Ring Assortment

Contents (440 Pieces):
From dia 5.28 - 36.1 mm



Art. No. 964.4681

Metric Rubber O-Ring Assortment

Contents (1050 Pieces):
From dia 3.0 - 24.0 mm



Art. No. 964.4685

Metric Rubber O-Ring Assortment

Contents (1050 Pieces):
18 Assorted sizes, Size range
2.9 mm-23.40 mm



Art. No. 964.4686

Metric Rubber O-Ring Assortment

Contents (330 Pieces):
12 Assorted sizes, Size range
25 mm - 43.8 mm

A/C ASSORTMENTS



Art. No. 965.469

Air Conditioning O-Ring Assortment

Contents (105 Pieces):
Size range 1/4"-5/8"



Art. No. 469.7771

Air Conditioning O-Ring Assortment

Contents (207 Pieces):
Highly saturated nitrile rubber
o-rings

MAKE YOUR OWN O-RING ASSORTMENT



Art. No. 964.4683

- Case fits into ORSY 100 shelf
- Allows you to make required O-Rings of any size at any time by yourself
- No delay of repair work
- This assortment allows you to make O-Rings of 5 different diameters and any size

Application Areas:

Shipyards, machine making, automotive repair workshops, agricultural and motorcycle repair, bus fleet operators, etc.

Assortment Contents:	
Description	Art. No.
1 Superschnell Glue (20 g)	893.09
1 Knife	715.6606
1 Cutting Jig	468.100*
1 m O-Ring band, ø 1.6 mm	468.1116
1 m O-Ring band, ø 2.4 mm	468.1124
1 m O-Ring band, ø 3.0 mm	468.1130
1 m O-Ring band, ø 5.7 mm	468.1157
1 m O-Ring band, ø 8.4 mm	468.1184

*available through Special Orders

O-RING HOOK REMOVAL ASSORTMENT



Art. No. 715.55330 - P. Qty. 4 pcs

Pick & Hook set for removal of O-rings and Seals

Features:

- For the removal and replacement of seals and O-rings,
- Perfect for hard to reach places
- Chrome-vanadium steel with a Chrome-plated surface
- 4 hook pieces - Straight pick, 90 degree, full hook and offset hook pick
- Comfortable 2K handle design
- L -240mm

A/C O-RING CONDITIONER



Art. No. 892.764301 113 g

Conditions and renews O-Rings

- Contains O-Ring conditioners, Ester Oil, R134A and U/V dye
- Specifically designed to condition all types of O-Rings and rubber components including hoses and seals, while helping to prevent leaks
- Polymer free
- Will not harm A/C System components, reclamation or recovery machines or clog orifice tubes
- 1 can treats one vehicle
- Installs easily using charging hose, **Art. No. 892.764305**

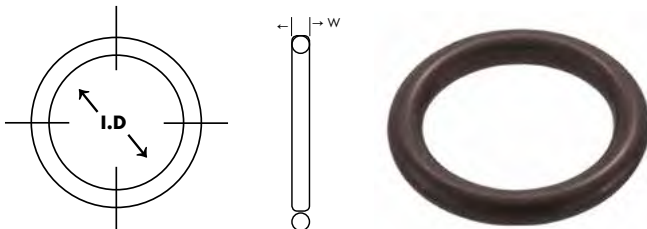
SILICONE O-RING LUBRICANT



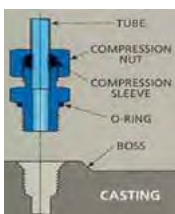
Art. No. 893.764311 118 mL

- Extends O-ring life
- Resists wash-away and moisture
- Withstands high temperatures
- 10000 cSt viscosity lubricant
- Easy to apply light weight oil comes in convenient 4 oz. squeeze tip bottle

STRAIGHT THREAD O-RINGS FOR BOSS SEALS



Boss Seals:



The standard sizes for o-rings include 20 sizes used to seal straight-thread tube fittings on a boss. A boss is cylindrical projection on a casting or forging. The end of that projection is machined to provide a flat, smooth surface for dealing. Straight threads used with an O-ring provide a better seal than tapered threads used alone.

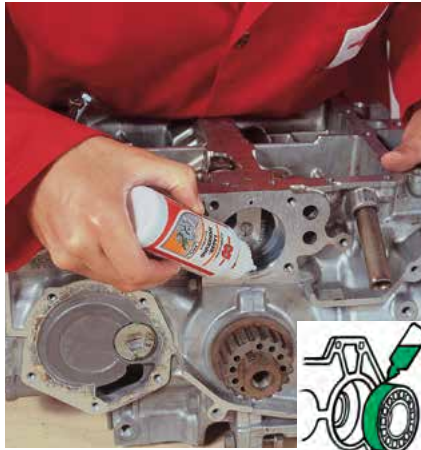
The 900 series of dash numbers identifies the 20 sizes of boss seals. Except for the size -901, the digits after the 9 identify the nominal tube size -901 in 16ths of an inch. The tube size is its outside diameter (OD). For example, size -903 is intended for use with 3/16-inch tube. The one exception, size -901, is intended for use with 3/32-inch. 1/16-inch tube is not common in aircraft use.

- Durometer hardness 90 ± 5
- Temperature Range - 30°C to +125°C for petroleum based fluids.
- Material: Nitrile (Buna-N-90)
- Standard o-ring complies with S.A.E. specification S.A.E. J515 Type CH

Port Size	Width	Inner Diameter	Art. No.	P. Qty	Qty. in Kit
1/16	.058	.185	468.99116	1	0
1/8	.064	.239	468.9918	10	10
3/16	.064	.301	468.99316	10	10
1/4	.072	.351	468.9914	10	10
5/16	.072	.414	468.99516	10	10
3/8	.078	.468	468.9938	10	10
7/16	.082	.530	468.99716	1	3
1/2	.087	.644	468.9912	5	5
5/8	.097	.755	468.9958	10	10
3/4	.116	.924	468.9934	10	10
7/8	.116	1.048	468.9978	1	3
1	.116	1.171	468.99100	10	10
1-1/4	.118	1.475	468.99114	10	0
1-1/2	.118	1.720	468.99112	10	0
2	.118	2.337	468.99200	5	0

Available as a Kit: Art No. 965.46805 in a 16cmt drawer (955.916)

RETAINING COMPOUND



For high-strength assembly of bushings, sleeves, geared wheels, bolts, shaft and hub connections and bearings exposed to high loads

Dependable curing at low temperatures around 0 °C
A dependable aid in winter

Can be applied to slightly oily surfaces
No need for time-consuming degreasing of bearings

Max. gap filling of 0.15 mm
Even large deviations can be corrected economically

Prevents frictional corrosion
Prevents seizing of bearings providing easy disassembly

Contents	Art. No.
23 mL	893.603025
46 mL	893.603050

Physical Properties (Liquid State)	
Chemical description	Dimethylacrylate
Colour	Green
Viscosity (spindle 4/20 rpm) 25 °C Brookfield (RVT)	100-150 mPas (spindle rpm: 1/2 Density)
Density	1.07 g/cm ³
Max. thread diameter	M12
Max. gap filling capacity	0.15 mm
Flash point	> 90 °C (> 194 °F)
Shelf life	1 year at room temperature

Physical Properties (Cured State)	
Hand-tight after	5-10 minutes
Usable after	30-40 minutes
Final strength after	3-6 hours
Initial breakaway torque	N/A
Continuing torque	N/A
Pressure shearing strength (DIN 54452)	8-26 N/mm ²
Operating temperature range	-55 °C to +150 °C (-67 °F to +302 °F)

PIPE SEALANT



Seals conical/cylindrical threaded pipe connections up to R3", e.g. sprinkler systems, gas and liquid tight.

Seals immediately under low pressure loads

- Pipes can be pressurized immediately
- up to approx. 5 bar, after final curing
- up to 300 bar

Also cures at temperatures below 0 °C
Can be used in cold weather

High resistance to chemicals

- Will not react with most industrial liquids and gases

Description	Contents	Art. No.
Pipe Sealant	47 mL	893.577050

Physical Properties (Liquid State)	
Chemical description	Dimethylacrylate
Colour	Fluorescent yellow
Viscosity 25 °C Brookfield (RVT)	60,000-80,000 mPas (spindle rpm: 6/2.5) 20,000-30,000 mPas (spindle rpm: 6/20)
Density	1.05 g/cm ³
Max. thread diameter	R 3" (M 80)
Max. gap filling capacity	0.50 mm
Flash point	> 100 °C (212 °F)
Shelf life	1 year at room temperature

Physical Properties (Cured State)	
Hand-tight after	15-30 minutes
Usable after	1-3 hours
Final strength after	3-6 hours
Initial breakaway torque	15-20 Nm (M10)
Continuing torque	10-15 Nm (M10)
Pressure shearing strength	6-13 N/mm ²
Operating temperature range	-55 °C to +150 °C (-67 °F to +302 °F)

PIPE SEALANT WITH PTFE



Seals all metal pipe connections and fittings with conical/cylindrical threads, according to DIN 2999 against most industrial liquids and gases. Replaces PTFE tape or hemp. Certified by DVGW* according to DIN 30661. Cured sealing compounds for threaded pipe connections in fittings and gas appliances. This product may not be used for domestic gas or water installations, according to DIN 30660.

Can be subjected to loads up to 200 bar (2900 psi)

Suitable for high pressure systems. Can be subjected to loads up to the bursting pressure of the pipes after full curing and with correctly tightened connections.

Completely compensates for thread play as well as surface roughness

Forms an excellent reliable connection

Neutral and insulating behaviour with metals

Prevents corrosion of the threads

Easy application

Secure and quick assembly

Solvent-free

Significantly reduced health hazards

Highly viscous

Sealant will not run off the thread

Easy disassembly

- No special tools required

* DVGW - German Technical and Scientific Association for Gas and Water

Physical Properties (Liquid State)	
Chemical description	Dimethylacrylate
Colour	White
Viscosity 25 °C Brookfield (RVT)	300,000-500,000 mPas (spindle rpm: 7/2)
Density	1.1 g/cm ³
Max. thread diameter	R 3" (M 80)
Max. gap filling capacity	0.50 mm
Flash point	> 100 °C
Shelf life	1 year at room temperature

Physical Properties (Cured State)	
Hand-tight after	10-20 minutes
Usable after	1-3 minutes
Final strength after	24 hours
Initial breakaway torque	4-6 Nm (M10)
Continuing torque	1-3 Nm (M10)
Pressure shearing strength (DIN 54452)	2-6 N/mm ² (DIN 54452)
Operating temperature range	-55 °C to +150 °C [-67 °F to +302 °F]

Resistance to Chemicals- DIN 53287 test similar to DIN 53	
Rel. strength in %	500 h
Water/ glycol at 87 °C	100
Engine oil MIL-L16 152 at 125 °C	100
Gasoline, leaded, at 22 °C	60
Gasoline, unleaded, at 22 °C	60
Trichloroethane at 22 °C	50

Contents	Art. No.
50 mL	893.51 1050
250 mL	893.51 1250

HYDRAULIC SEALANT



For sealing screw connections in pneumatic and hydraulic systems under high loads up to the bursting pressure of the pipe or hose

Can be applied to slightly oily surfaces

No need for time-consuming degreasing

Excellent resistance to all hydraulic fluids and fuels

High degree of safety, since impairments due to dissolving are prevented

Quick curing, even at low temperatures: hand-tight after 40 minutes, usable after 2 to 3 hours.

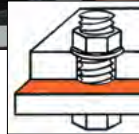
Minimized down times of your vehicles

Contents	Art. No.
41 mL	893.545050

Physical Properties (Liquid State)	
Chemical description	Dimethylacrylate
Colour	Violet
Viscosity 25 °C Brookfield RVT	1,500-2,000 mPas (spindle rom: 5/2.5)
Density	1.20 g/cm ³
Max. thread diameter	R 3/4"
Max. gap filling capacity	0.15 mm
Flash point	> 100 °C
Shelf life	1 year at room temperature

Physical Properties (Cured State)	
Hand-tight after	30-40 minutes
Usable after	2-3 hours
Final strength after	12-24 hours
Initial breakaway torque	2-3 Nm (M10)
Continuing torque	1-2 Nm (M10)
Pressure shearing strength	1-3 N/mm ²
Operating temperature range	-55 °C to +150 °C (-67 °F to +302 °F)

FLANGE SEALANT NON DRIPPING



For sealing of flanges and surfaces with a large gap. Non-drip product.

Non-drip, viscous product

No dripping or running of the material, thus ideal for working an overhead and vertical surfaces. The material stays where it is needed!

Slight flexibility up to 120 °C (248 °F)

Compensates for heat expansion differences of up to 30% between materials

Seals immediately under low pressure loads

Test pressure can be applied immediately. No waiting time required.

Also suitable for passive metals

Aluminum flanges can also be sealed. Only one product required for several materials.

Quick curing: usable after 30 minutes

Short down times for your vehicles

Contents	Art. No.
44 mL	893.518050

Physical Properties (Liquid State)	
Chemical description	Dimethylacrylate
Colour	Red
Viscosity 25 °C Brookfield (RVT/RVT/HB)	80,000-1,000,000 mPas (TP spindle rpm: 0.5) 200,000-300,000 mPas (TP spindle rp: 5.0)
Density	1.1 g/cm ³
Flash point	> 100 °C
Shelf life	1 year at room temperature

Physical Properties (Cured State)	
Usable after	1-3 hours
Final strength after	24-72 hours
Initial breakaway torque	6-9 Nm (M10)
Continuing torque	5-7 Nm (M10)
Pressure shearing strength (DIN 54452)	7-10 N/mm ²
Tensile strength	4-12 N/mm ² (DIN 53288)
Impact shearing strength	-
Operating temperature range	-55 °C to +150 °C (-67 °F to +302 °F)

SUPER RTV SILICONE



High-grade adhesive and sealing compound for use with motor vehicles.

Very good resistance to chemicals.

Suitable for use in critical areas, in which the seal may temporarily be in contact with several fluids. The product shows an excellent resistance against motor and gear oils, refrigerants, and anti-freeze.

Acid-free hardening system.

Non-corrosive, therefore no negative effects on electronic components or Lambda sensors.

High temperature stability.

- Utilization in the temperature range on machinery and engines possible.
- Sealant in a compressed air spray can.

Easy dosage without auxiliary devices.

Optimum handling, which means that an even product application using fine beads is possible.



Application:

Optimal adhesion is achieved on clean and dry surfaces. Old sealing materials must be removed completely from the sealing surface.

Technical Data	
Chemical basis	Modified oxime silicone
State	Thixotrope paste
Skin forming time (ASTM-D-4678)	5 minutes
Time to dry surface	Within 3 - 4 minutes
Full hardening speed approx.	2 mm/24 h (23°C/50% r.h.)
Shore hardness A (ASTM-D-676)	40
Tensile strength (ASTM-D-412)	Approx. 2.2 N/mm ²
Elongation at rupture (ASTM-D-412)	270 - 300%
Thermal conductivity (ASTM D-2214/70)	0.002 Jcm ⁻¹ s ⁻¹ K ⁻¹
Coefficient of thermal expansion (ASTM EB-31)	20 x10 ⁻⁵ K ⁻¹
Dielectric strength (ASTM D-149)	16 kV/mm
Relative permittivity @ 1MHz (ASTM D-150)	2.8
Dielectric loss factor @ 1MHz (ASTM D-150)	0.002
Electrical volume resistance (ASTM D-257)	1x 10 ¹⁵ /cm

Colour	Contents	Temperature Range	Application Area	According to Specifications	Art. No.
Black	232 g, Pack Qty. 1/6	-60°C to +260°C (briefly up to +315°C)	Water pumps, oil pumps, front covers, cam shaft bearing covers, thermostat bodies, oil pans, transmission cases, power axle covers, sun roof, doors	GM 1052751, 1052917 Ford D6AZ-19562-B Chrysler 4318025 Fiat 9.55720/B	893.3211
Red	256 g, Pack Qty. 1/6	-60°C to +315°C (briefly up to +370°C)	Engine covers and flanges		893.3212
Blue	256 g, Pack Qty. 1/6	-60°C to +260°C (briefly up to +315°C)	Valve covers, differential gear housings, rear axle bodies, oil pan, crankshaft housing, intake air distributor		893.3213
Transparent	256 g, Pack Qty. 1/6	-60°C to 260°C (briefly up to +315°C)	Lamp bodies, sealing and encasing of electrical connections, sealing of coach work parts		893.3214
Grey	232 g, Pack Qty. 1/6	-60°C to 260°C (briefly up to +315°C)	Water pumps, oil pumps, front covers, cam shaft bearing covers, thermostat bodies, oil pans, transmission cases, power axle covers	Toyota 00295-00102, 00295-01281, 00295-01208 Mitsubishi MD997740, MD997110 Nissan 999MPA-7007 Honda 08718-5500040E, HC2963817, 0095Z-POA Hyundai 4C116-21000, 21451-33A01	893.3216

RTV-SILICONE GASKET



This low volatile, one component neutral-cure silicone rubber is virtually unaffected by temperature and weather extremes, chemicals and aging

- This material seals or replaces a wide range of cork, paper, asbestos, felt and metal gaskets
- 100 % Silicone Rubber
- Non-Corrosive
- Permanently Flexible
- Fast Cure

O2 Sensor Safe		
Colour	Quantity	Art. No.
Blue	300 mL	890.00004
Black	226 g	890.913
Clear	226 g	890.914
Temperature range -62 to 210°C (-80 to 410°F)		

Applications:

Oil Pans, Water Pumps, Valve/Axle Covers, Crank Cases, Thermostat Housing, Transmission Pans

Recommended:

Replacement Nozzle **Art. No. 890.9131**

Caution:

Do not use on head gaskets or carburetor base gaskets.

Red High Temperature		
Colour	Contents	Art. No.
Red	300 mL	890.0005
Red	226 g	890.9102 Working time: 5-10 minutes Tack-free time: 10-20 minutes Full cure time: 72 hours
Temperature range -62 to 260°C (-80 to 500°F), intermittently to 315°C/600°F		

GENERAL PURPOSE SILICONE



Room temperature vulcanizing (RTV) adhesive agent

- Temperature resistance -46 °C to +232°C (-50 °F to +450°F)
- Ozone and weather resistant
- Resistant to moisture and vibration
- NSF/ANSI51 listed

Applications:

For sealing various materials

Recommended:

Replacement Nozzle **Art. No. 892.3700**

Compatible with:

360 Rotating Nozzle **Art. No. 891.6533**



Colour	Contents	Art. No.
Almond	300 mL	892.56020
White		892.56022
Black		892.56023
Clear		892.56024
Grey		892.56025

360° ROTATING NOZZLE + EXTENSION



Benefits:

- Dynamic and flexible nozzle which will ease the finishing of unreachable joints remarkably.
- 360 degree rotation.
- Easy to use in hard-to-reach surfaces.
- Fits a number of articles.
- The nozzle can be extended with multiple extensions to reach the desired length.

360° Rotating Nozzle Features:

- Length: 11cm
- Color: Transparent

Nozzle Extension Features:

- Length: 11cm
- Color: Transparent
- Several extensions can be combined

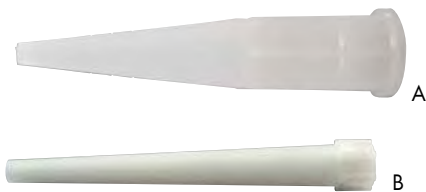
Nozzle Compatibility Chart

Item Description	Art. No.
RTV High Temp Red Silicone 300 mL	890.0005
Glue And Seal White 310 mL	890.1001
Glue And Seal Grey 310 mL	890.1002
Glue And Seal Black 310 mL	890.1003
General Purpose Silicone Almond 300 mL	892.56020
General Purpose Silicone White 300 mL	892.56022
General Purpose Silicone Black 300 mL	892.56023
General Purpose Silicone Clear 300 mL	892.56024
General Purpose Silicone Grey 300 mL	892.56025
Sprayable Seam Seal Black 290 mL	893.910400
Sprayable Seam Seal White 290 mL	893.910401
Sprayable Seam Seal Grey 290 mL	893.910402
Sprayable Seam Seal Beige 290 mL	893.910403

Item Description	Art. No.	P. Qty
A 360° Rotating Nozzle	891.6533	10
B Extension for application Nozzle 360°	891.65331	



REPLACEMENT NOZZLES



Nozzle	For use with Art. No.'s	Art. No.
A	892.56020, 892.56022, 892.56023, 892.56024, 892.56025	892.3700
B	890.00004, 890.913, 890.914, 890.00005, 890.9102	890.9131

RTV SILICONE - SCHOOL BUS YELLOW



Art. No. 892.5717 300 mL

School Bus Yellow Silicone is a flexible, durable, RTV adhesive with a wide variety of sealing and bonding use. It will adhere to metal, wood, glass, porcelain, plastic, painted surfaces, ceramic and rubber.

Suitable For:

Sealing leaks and drafts in windshields, body side window, rear windows and doors. Seals flashing and warning light signals. Use as a body seam sealer, seal internal and external body patches, seal wiring harnesses. Insulates electrical components.

Note: Do not use for head gaskets. Product is not paintable. Not suitable for use below waterline marine applications.

QUICK SEAL



Art. No. 890.95900 283 g

- Non-corrosive oxime cure
- Product is tack-free in 5 minutes and cures in 2-6 hours, depending on thickness and atmospheric conditions
- Gets vehicles back in operation immediately with less down time
- Rapid onset of adhesion
- Fast R.T. cure
- Allows handling of the assembly within an hour
- Thixotropic paste
- 1-part silicone
- Excellent unprimed adhesion to many plastics, metal and glass
- High temperature resistance
- Temperature range: -40 °C to +315 °C (-40 °F to +600 °F) (intermittently to +343 °C/ 650 °F)
- Meets and/or exceeds GM (998-5675; 998-5990), Ford (WSE-M4 6323-A6) & Chrysler (GF-44A) specifications
- Meets and/or exceeds volatility requirements for oxygen sensor equipped engines
- High resistance to oils, gasoline fluids and coolant solutions

Applications:

Form in place gaskets, Adhesive sealant, Industrial bonding, Adheres to glass, plastic and most metals

GLUE AND SEAL



Elastic polyurethane adhesive and sealant with a wide range of material applications such as metal, painted surfaces, wood, stone, concrete and plastic (polyester and hard PVC).

Features:

- Universal use
- High-elasticity
- Long skin formation time
- Can be mechanically machined and painted over (following skin formation) without surface activation
- Can adhere same and different materials
- Silicone free
- Nearly odourless
- Non-corrosive

Benefits:

- Outstanding adhesive strength on a wide range of materials and surfaces
- Dampens vibrations and noise
- Compensates expansion of different materials
- Enables bonding and/or sealing of complicated and very large components
- Joint parts can be repositioned
- Does not present any health hazard when cured

Note: Do not bring into contact with alkyd-resin paint systems. Not suitable for glass groove sealing in areas in which UV back reflection can occur. Direct exposure to sunlight can lead to slight surface yellowing. Not suitable for PE, PP, PTFE, silicone rubber, expanded polystyrene and softened plastics. Preliminary testing should be done to determine compatibility with paint.

Colour	Contents	Art. No.
White	310 mL	890.1001
Grey		890.1002
Black		890.1003

Technical Data

Chemical basis	1- component polyurethane
Density (DIN 53479) (before hardening)	approx. 1.25 kg/l
Application temperature	+5°C to +35°C (=41°F to +95°F)
Skin formation time*	45-60 min.
Hardening speed*	Dry in 1-2 hours; fully cured in 2.5-24 hrs
Volume change (DIN 52451)	approx. -5%
Shore A hardness (DIN 53505)	approx. 40
Tensile strength (DIN 53504)	1.5 N/mm ²
Elongation at tear (DIN 53504)	approx. 500%
Resistance to further tearing (DIN 53515)	approx. 6 N/mm
Elongation, compression during use	10%
Volume resistivity (DIN 53482)	approx. 10 ¹⁰ W cm
Glass transition temperature (DIN 53445)	approx. -45°C (-49°F)
Temperature resistance	-40°C to +90°C (-40°F to +194°F) 8 hr at ±120°C (248°F)
Resistant to	Water, seawater and limy water, public waste water, weak acidic and alkaline solutions.
Briefly resistant to	Fuels, mineral oils, vegetable and animal fats and oils
Shelf life	12 months at +10°C to +25°C (+50°F to +77°F)

Additional tools:

Beading Nozzle **Art. No. 891.653**

360° Rotating Nozzle **Art. No. 891.6533**

Areas of application:

Door skin adhesive, body moulding kits, bolted fender joints and fenders, front and rear spoilers, welded joints. Seam sealing/joints, (e.g. overlapping chassis seams, container seals, step-by-step welding seams, housing seals, expansion joints, gap seals). Visible joints, (e.g. connection joints). Area adhesion, (e.g. bumper plates, bed plates, corrugated sheet metal and steps of carrier plates, corner and edge protection plates). Seam adhesion/point adhesion, (e.g. sheet metal overlaps, angle profiles, lorry side panels, mounts, frame adhesions, sign and board mounting). Adhesion of automotive accessories, (e.g. spoilers). External tractor/trailer, (e.g. sealing overlapping seams, FRP adhesion, e.g. windscreens and roof sheeting). Internal tractor/trailer, (e.g. sealing of floor group--usually metal/wood, agricultural machines. Visual joints in folds, welded and overlapping seams). Interior bus (e.g. joint sealing of floor group).

THREADLOCKER-HIGH STRENGTH (RED)



Screw retaining and sealing compound - hardly removable.
For securing, attaching and sealing of screws, studs, bolts, nuts, threaded inserts and plugs, which are not required to be removed under normal circumstances.

Particularly well-suited for heavy duty screw connections

- No additional securing devices required

Removable only after heating to 300 °C!

- Under normal conditions only removable with special tools and/or heating

Outstanding resistance to chemicals and heat

- Universal product with a wide range of applications

Prevents loosening caused by, for instance, vibrations or impact

- No safety problems, unlike, for instance, with mechanical screw retainers
- NSF Certified

Contents	Art. No.
9 mL	893.271010
44 mL	893.271050
225 mL	893.271250

Physical Properties (Cured State)	
Hand-tight after	10 - 20 minutes
Usable after	1 - 3 hours
Final strength after	5 - 10 hours
Initial breakaway torque	> 30 Nm (M10)
Continuing torque	> 45 Nm (M10)
Pressure shearing strength (DIN 54452)	12 - 15 N/mm ²
Operating temperature range	-55 °C to +150 °C (-67 °F to +302 °F)

Physical Properties (Liquid State)	
Chemical description	Dimethylacrylate
Colour	Red
Viscosity - 25 °C Brookfield (RVT)	400 - 600 mPas (spindle rpm: 2/20)
Density	1.11 g/cm ³
Max. thread diameter	M25
Max. gap filling capacity	0.15 mm
Flash point	> 100 °C (> 212 °F)
Shelf life	1 year at room temperature

THREADLOCKER-MEDIUM STRENGTH (BLUE)



Screw retaining and sealing compound - removable

Provides medium strength connections

- Can be disassembled using normal tools

Curing is assured even on untreated parts

- Can be used with uncleaned parts (e.g. as delivered)

Can also be applied to stainless steel and passive surfaces

- No "accelerators" or "activators" required

Outstanding resistance to chemicals and heat

- Universal product with a wide range of applications

Prevents loosening caused by, for instance, vibrations or impact

- No safety problems, unlike, for instance, with mechanical screw retainers
- NSF Certified

Contents	Art. No.
9 mL	893.243010
45 mL	893.243050
223 mL	893.243250

Physical Properties (Cured State)	
Hand-tight after	5-15 minutes
Usable after	0.5-1 hour
Final strength after	1-3 hours
Initial breakaway torque	~ 21 Nm
Continuing torque	~ 10 Nm
Pressure shearing strength (DIN 54452)	8-12 N/mm ²
Operating temperature range	-55 °C to +150 °C (-67 °F to +302 °F)

Physical Properties (Liquid State)	
Chemical description	Dimethylacrylate
Colour	Fluorescent blue
Viscosity - 25 °C Brookfield (RVT)	5,000-7,000 mPas (spindle rpm: 1/20) 1,500-2,500 mPas (spindle rpm: 3/20)
Density	1.12 g/cm ³
Max. thread diameter	M36
Max. gap filling capacity	0.25 mm
Flash point	> 100 °C (> 212 °F)
Shelf life	1 year at room temperature

14 RUST RELEASE & PROTECTION

- 2** Rost Off Gold
- 2** Rost Off Plus
- 3** Rost Off Ice
- 4** Rost Off
- 5** Corrosion Protection Spray
- 6** Anti-Rust Coating
- 6** Rust Converter
- 7** Rust-Stop Quattro
- 8** Rust-Stop Primer
- 8** Zinc 300



ROST OFF GOLD



Highly-active foaming rust release agent

Long-lasting penetrating foam

- A highly focused foam that adheres to the surface as it penetrates through rust and corrosion. The penetrating action remains where you spray it.

2-in-1 rust releasing capability

- This unique formula creates an ice effect that instantly drops the temperature and helps crack heavily rusted surfaces, while the active substance continues to loosen firmly-stuck threads.

Low-consumption and anti-corrosion properties

- Provides a foaming action that reduces run-off, provides excellent moisture displacement and long-lasting protection against further corrosion.

Suitable for all work surfaces

- Produces highly-adherent no-drip foam on the work piece that clings to the surface and creeps into hard to reach areas.

Resin and acid-free

Silicone-free

Compatible with rubber and seals

Designation	Contents	Art. No.
Aerosol	215 g	890.20011

ROST OFF PLUS



High-performance rust dissolving agent with additional lubricating properties through OMC₂ technology.

Strong capillary action

- Optimal creep properties guarantee outstanding penetration and removal of rust

Contains liquid, highly effective molybdenum compound OMC₂

- In contrast to products containing solid lubricants, e.g. MOS₂, OMC₂ does not separate in larger containers
- Friction is reduced
- Best possible lubricating effect by smoothing of metal surfaces
- Compounds permanently retain gliding capability

Optimal corrosion protection owing to corrosion protection additives

Lasting protection against further corrosion

Material compatibility

Contains no silicone, resin or acid

Operating temperature range: -10 °C to +140 °C

Areas of Application:

Loosening of extremely corroded and oxidized screws, bolts, nut connections, etc. on automobiles, trucks or construction equipment, machineries and other equipment.

Designation	Contents	Art. No.
Aerosol	233 g	890.200

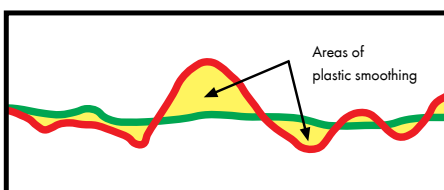
Technical Data	
Basis	Mineral oil
Solid lubricant	OMC ₂ additive
Colour	Light-yellow transparent
Density at 20 °C (active substance)	7.78 g/cm ³
Temperature range	-10 °C to +140 °C (+14 °F to +284 °F)
Flash point of active substance	200 °C (392 °F)
Base oil viscosity	16.5 mm ² /s

CORROSION PROTECTION

GREASE

FLUID GREASE

OIL



Original surface Smoothed surface

Function principle of OMC₂ technology:

Viewed under a microscope, all metal surfaces are rough and are subject to continual wear and loss of substance due to friction. OMC₂ additives render metal surfaces smoother due to thermoplastic flow deformation through organo-metallic compounds. The flow deformation is controlled individually, depending on the load the metal surface is subjected to.

- Improved surface quality due to metal surface sealing
- Improved lubricating film
- Reduced thermal loading
- Less friction (up to 50% in mixed friction area)
- Reduced loss of substance
- Reduced wearing
- Longer service life

ROST OFF ICE



High-grade rust releasing agent with new freezing micro-crack technology and an excellent creeping action

Cracking effect

When the surface of the material, e.g. that of a threaded bolt, is cooled down to -40°C , microscopic cracks appear in the layer of corrosion at the joints, and these cracks break up the rust and therefore ensure better penetration by the active substance

Phenomenal capillary action

Superior creeping properties combined with the cracking effect ensure excellent penetration of rust

Ideal rust removing capability

- Penetrates rapidly underneath rust and loosens bolts that have seized up
- Extreme firmly rusted-up screw connections can be easily loosened without damaging the bolts

Ideal corrosion protection properties thanks to corrosion protection additives

Long-term protection against subsequent corrosion

Free from resins and acids

Silicone-free

No damage to rubber and seals

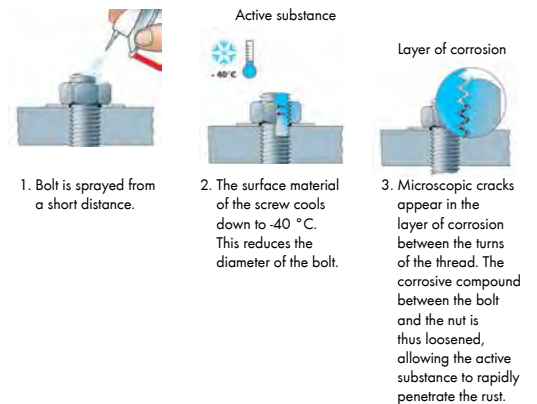
Areas of Application:

Makes it easy to loosen badly rusted-on and oxidized screw connections on cars, commercial vehicles, agricultural and construction machinery, auxiliary equipment and appliances.

Designation	Contents	Art. No.
Aerosol	292 g	893.240

Technical Data	
Basis	Petroleum
Colour	Pale yellow transparent
Density at 20°C (active substance)	0.78 g/cm^3
Temperature range	-10°C to $+40^{\circ}\text{C}$
Base oil viscosity	$< 5 \text{ mpa/s}$

How the crack effect happens



ROST OFF



High-quality rust releaser

High capillary action

- Optimal creep properties result in high level of rust penetration, i.e. even stubbornly rusted-on screw connections are released

Optimally dissolves rust

- Gets under rust and loosens seized screws and bolts

Excellent water displacement

- Displaces and gets under moisture, e.g. in case of contact difficulties

Optimum corrosion protection due to addition of corrosion protection additives

- Provides lasting protection against further corrosion

Resin and acid-free

Silicone-free

Compatible with rubber and seals

Areas of Application:

For releasing rusty and oxidized screw connections on passenger cars, trucks, agricultural and construction machines, equipment and devices.

Designation	Contents	Art. No.
Aerosol	233 g	890.2
Canister	5 L	890.3

Technical Data	
Basis	Mineral oil
Colour	Light-yellow transparent
Density at 20 °C (active substance)	7.78 g/cm ³
Temperature range	-10 °C to +140 °C (+14 °F to +284 °F)
Flash point of active substance	200 °C (392 °F)
Base oil viscosity	16.5 mm ² /s



CORROSION PROTECTION SPRAY



Creeping, colourless special fluid

Low-viscosity special oil with outstanding creeping properties

- Provides protection even in hard-to-reach areas
- Stops the spread of corrosion

Very good material compatibility on a wide range of surfaces including e.g. painted surfaces, metals and plastics

- Multi-purpose

Self-sealing, non-drying protective film

- Scratches, chips, etc. are sealed with no additional effort
- No corroding surfaces for liquids to attack

Economical: only a little required

- Save time and money

Outstanding salt-water-resistance complying with DIN 50021

- Provides excellent protection even in the toughest conditions

Areas of Application:

For the preservation of tools, machines and vehicle components, e.g. snow chain, roof racks, snowblower, forklifts, scalpels etc. Suitable for warehouse and garage door frames. Can be used in hard-to-reach areas in the engine compartment, on body flanges and in wheelhouses. Excellent protection for motorcycles and bicycles, especially during winter storage. Ideally suited for use on any surfaces and superstructures that are exposed to a high concentration of salt, e.g. by the coast, or at sea. Superb protection for boat engines/superstructures.

Recommended:

Würth Brake and Parts Cleaner

Art. No. 890.9107

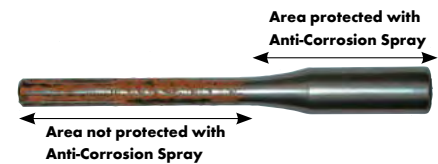
Cleaning Towels

Art. No. 899.800653

Disposable Gloves

Prefix 899

Colour	Contents	Art. No.
Transparent	217 g	893.15



ANTIRUST COATING



Art. No. 890.180900 946 mL

Super hard non-porous coating that kills rust and permanently seals out moisture, rust and corrosion. Excellent on rusted or new metal.

- Can be used to paint directly over rust.
- Seals rust permanently.
- No need to remove rust before applying.
- Dries to a perfect satin gloss and is used on exterior surfaces before final painting.
- For use on all ferrous metals.
- Can be applied over bare metal.
- Provides a thick scratch and chemical resistant coating.
- Fantastic anti-chip property.
- Colour: Black

For best results:

- Rusty and painted surfaces should have paint removed.
- Dry, flaking rust should be removed with a wire brush.
- Wipe clean with W-Sol, Art. No. 890.113 to remove grease or dirt.
- Ensure surface is dry.
- Apply a second coat to completely seal the first. Allow to dry thoroughly before applying a second coat.

RUST CONVERTER



Art. No. 893.110 1 L

Dispersion based Rust Converter. Rust Converter neutralizes the corrosion process by converting rust and ferrous oxides into a stable and insoluble, blue-black Metallo-organic complex.

Features:

- May be painted over and filled after the reaction time (3 hours)
- Not harmful to the environment
- After the reaction time of 3 hours, the surface may be over painted with any commercial paint systems or with the underbody protection systems
- May also be filled with polyester fillers

Applications:

Trunks, wheel wells, pillars, pinch welds. Contains a creeping agent ideal for hard to reach areas of contamination

RUST-STOP QUATTRO



Fast-drying universal primer with a broad range of applications.

4 in 1

- Primer
- Adhesion agent
- Corrosion protection
- Welding primer

Priming

- Reliably prevents further rusting with anti-oxidation formula

Adhesion agent

- Good application surface structure for further painting work.
- Suitable for use in conjunction with PU and MS polymer sealing compounds.

Corrosion protection

- Excellent long-term protection against oxidation.
- Outstanding resistance to splashed and salt water

Welding primer

Can be welded through both wet and dry

Very high thermal stability up to

- 300 °C (572 °F), and briefly up to 500 °C (932 °F)

VOC*- compliant

- Solvent reduced.
- Complies with the VOC minimum content specified in the VOC Directive (1999/13/EC)

* Volatile Organic Compound

Properties:

Unique combination of primer, adhesion agent, corrosion protection and welding primer in one product.

Applications:

Freight forwarding companies, transport companies, commercial-vehicle repair workshops, vehicle construction, building crafts, concrete mixing plants, agriculture, forestry, communities, etc.

Colour	Contents	Art. No.
Silver Grey	300 g	893.2141



Note: Turn can upside down and spray until valve is empty after use.

RUST STOP PRIMER



Active corrosion protection for metallic surfaces

Good adhesive properties

- Adheres to aluminum, bare and galvanized metal sheets, steel, old paint, etc.

Quick drying

- Depending on layer thickness, can already be painted over after 10-15 min.

Thermally stable up to 80 °C, and briefly up to 140 °C

Can be sanded well

VOC*-conformant

- Solvent reduced.
- Complies with VOC maximum content specified in the VOC Directive (1999/13/EC)

*Volatile Organic Compound

Properties:

Active corrosion protection and adhesive primer with good adhesive properties on a wide variety of surfaces, including in conjunction with PU and MS polymer sealing compounds.

Applications:

Vehicle construction, ship building, metal and steel construction, tool manufacturing, bridge building, tank construction, pipeline construction, container construction, agriculture and forestry, municipal management, construction machines, etc.

Colour	Contents	Art. No.
White - Grey	332 g	893.2101

Note: Turn can upside down and spray until valve is empty after use.

ZINC 300



Art. No. 892.200 – 500 mL

- Provides good protection against corrosion from atmospheric influences
- Resistance up to approximately 300 °C
- Visually identical to hot galvanizing
- Two or three coats on the repaired surface will provide the required layer of thickness according to D.I.N. 50976
- Fast drying (dust dry after approximately 15 minutes; fully dry after approximately 6-3 days)
- Surface has to be dust, grease, and rust free according to D.I.N. 55928, up to the derusting degree SA 2.5 and must also be dry

Application:

- The layer thickness of the repair film should be 1.5 times that of hot galvanizing
- The repair coat should overlap the hot galvanizing area by at least 1 cm
- Can be welded through
- Can be applied with a paint gun, airless, or with a brush
- Cannot be over-painted

Application area:

- Steel construction, ship building, forging, locksmiths, and vehicle building

15 **CLEANING & DETAILING**



- 2 Metal Cleaning**
- 5 Graffiti Removers**
- 6 Eco Dilution System**
- 6 Deodorizer & Odour Eliminator**
- 7 Glass Cleaners**
- 10 Hand Cleaner & Skin Protection**
- 14 Floor & Workshop Cleaners**
- 15 Scale & Residue Cleaners**
- 17 Degreasers & Disinfectants**
- 21 Vehicle Cleaning**
 - 21 Interior Vehicle Cleaning
 - 24 Exterior Vehicle Cleaning
 - 26 Polishes & Accessories
- 33 Specialty Cleaners**
- 42 Cloths & Brushes**
 - 42 Cloths
 - 44 Swabs
- 45 Absorbents, Towels, & Wipes**

STAINLESS STEEL CARE SPRAY



Art. No. 893.121 342 g

Cleaning and care emulsion for metallic surfaces

Gentle, creamy emulsion with cleaning effect

- Dirt, polishing and wiping streaks, as well as oily fingerprints are removed thoroughly
- Suitable for use on vertical surfaces

AOX- and silicone-free

Directions:

Spray on a dry surface, polish with a soft cloth and wipe thoroughly.

Note: Do not spray onto hot surfaces and do not apply in direct sunlight.

STAINLESS STEEL POWER CLEANER



Art. No. 893.1212 500 mL

Special cleaning fluid for preliminary cleaning of metal surfaces

Powerful removal of oil and grease

- Contaminations such as boring or cutting oil and other processing residue are removed thoroughly
- Optimal preparation for further refinishing, cleaning and care
- Very economical

Certified for use near foodstuffs

- Recognized as safe for use in food processing, such as catering kitchens, cafeterias, slaughterhouses, food transports, etc.

Contains no phosphates, organic solvents or caustic substances

- Reduces danger potential in daily handling
- Minimizes burden on the environment
- Meet local waste water regulations
- Not subject to identification under Dangerous Substance Decree
- NSF A1 Certified

Biological degradability > 95%

Colourless and odourless

pH value undiluted: 9.0 - 9.5

AOX- and silicone-free

Areas of Application:

For stainless steel, chrome, brass, anodized and enamelled surfaces, as well as light and non-ferrous metals on vehicles, boats and other applications, in household and in the food processing industry.

Note: Avoid direct contact with foodstuffs.

METAL RESTORER



Talc	1
Gypsum	2
Apatite	5
Quartz	7
Alumina (abrasive)	8
Sapphire	9
Diamond	10

*Mohs' hardness scale

Art. No. 893.1211 286 mL

Metal grinding paste for removal of the most stubborn contaminations from metal

Contains activated citric acid

- Stubborn contaminations, such as metal oxidation, rust film, verdigris, lime and boiler scale are removed thoroughly and gently

Use of natural alumina as abrasive substance

- Supports effective cleaning due to different grain sizes
- Spherical shape and hardness* of alumina assure gentle, mild yet powerful cleaning

Protective additives with re-greasing characteristics

- Creation of a smooth and water-repellent surface finish
- Renewed dirt deposits are effectively prevented

Highly viscous

- No run-off from vertical surfaces
- Easier to work on vertical surfaces
- NSF A1 Certified

Tested for usability in food processing

- Safe for use in food processing plants, such as canteens, cafeterias, slaughterhouses, food transports, etc.

Not subject to mandatory labelling according to harmful substance decree

Made with natural raw materials

pH value: 1.6

Density: 1.4 kg/l

Areas of Application:

Metal surfaces of stainless steel, chromium, brass, copper, aluminum, gold and silver. Suitable for use in vehicles, in technical equipment, in the household and in food processing. Also suitable for glass and glass ceramics.

Directions:

Apply sparingly to the surface to be cleaned. Polish with a damp/wet sponge or cloth in circular motions. Rinse thoroughly with water, making sure no residue is left behind.

Recommendation:

Pre-clean with Stainless Steel Power Cleaner, **Art. No. 893.1212.**

Note: Avoid direct contact with food. Do not use on anodized aluminum and galvanized or enamelled surfaces.

ECO-LUSTRE METAL POLISHER



Art. No. 893.15460 500 mL

Restores original lustre to a variety of metal surfaces

Made from sustainable resources

- A better choice for your health and for the environment

No chlorinated solvents

- No VOCs
- Creates absolutely no harsh vapours
- Gentle on materials and surface finishes

Easy to use

- Spray on, wipe off
- Cleans and shines without abrasives or heavy creams
- Leaves a preservative coating to help prevent fingerprints or marks from appearing

Areas of Application:

Automotive and Trucking

- For use on chrome bumpers, aluminum wheels, brass and stainless steel parts and also on copper, zinc and mild steel

Metal and Maintenance industries

Cleans and polishes stainless steel appliances, aluminum, brass, copper, zinc and mild steel, fixtures, elevator doors, drinking fountains, paper receptacles, etc.

Recommended:

Replacement Sprayer for 500 mL & 1 L Eco Products Bottle **Art. No. 891.502200**

ECO ALUMINUM BRIGHTENER



A powerful, biodegradable aluminum cleaner that removes stains, discoloration and oxidation from aluminum

Features:

- Provides a safe and effective alternative to acid cleaners without producing corrosive fumes or vapors
- Non-caustic and non-corrosive
- Safe for use on all metals, including stainless steel
- Free of VOC's

Applications:

Ideal for cleaning trailers, RV's, motorcycles, auto parts, trim, carts, tables, stainless steel, pontoons, aluminum boats, masts, booms, outriggers and fishing towers.

Directions:

Spray directly on surface to be cleaned. Allow to remain for 1 to 3 minutes for maximum effect, then clean the area and follow with a thorough rinsing. Do not let product dry on finishes. Mist with water or reapply product to keep wet.



Contents	Dilution	Art. No.	P. Qty.
1 L	Ready-to-use	893.162810	1

GRAFFITI REMOVER



Art. No. 890.9902 453 g

- A cleaning gel formulated to remove graffiti, stains and vandalism marks from almost any non-porous surface including masonry.
- Thick gel will not run or drip.
- Removes: lipstick, ballpoint pen ink, crayon, marker ink, black rubber marks, pencil, mimeo ink, scuff marks, masking tape, adhesives, road tar and any other marks.
- An essential product for schools, municipalities, hospitals, bars, restaurants and mass transportation.
- Does not contain any chlorinated solvents.

Application:

Ideal for use on fibreglass, brick, concrete, glazed and unglazed tile, marble, Formica, enamelled surfaces, aluminum, steel, brass, glass, chrome, enamels, restroom stalls, metal partitions, road signs, fences, bridges, desk tops, furniture, walls, corridors, doors and other surfaces exposed to the public. Care should be exercised when used on synthetic surfaces which are susceptible to solvent damage (asphalt, tile, rubber, some paints and some plastics).

Not recommended on flat or semi-gloss painted surfaces.

ECO GRAFFITI REMOVER



Art. No. 893.13550 500 mL

A safer environmentally friendly vandalism mark remover

Eco-Logo certified

- Completely biodegradable
- Made from 100% sustainable resources
- VOC free
- A better choice for your health and for the environment

A highly effective natural solvent

- Removes marks caused by crayons, marker pens, ballpoint pen, spray paint, carbon paper, adhesives, lipstick, masking tape and mimeo ink

Safe and easy-to-use

- No harsh fumes
- Pleasant odour
- Does not contain ingredients that are harmful to your health, like solvents
- Ready-to-use dilution

Areas of Application:

- Ideal for brick, concrete, tiles, marble, enamelled surfaces, restroom stalls, road signs, fences, bridges, desktops, furniture, walls, doors and other surfaces exposed to the public.
- Ideal for workplace or bar washrooms, school desks and lockers, parking meters, puck marks on arena boards and municipalities for graffiti on overpasses and buildings, etc.

Note:

Do not use on Plexiglass surfaces.

This 500ml bottle is equivalent to two aerosol cans of regular Graffiti Remover!

Note:

Use with Nitrile Gloves,
Art. No. 899.44010+size
Softex Sheets
Art. No. 899.800901

DEODORIZER SPRAY



Art. No. 893.13920 500 mL

Suitable for almost all textiles

- Universal usage
- Leaves no residue behind
- No specking
- Colourless

Specially selected combination of raw materials

- Fast and long-lasting effect
- Odour molecules are not covered as with air freshener products, but are removed completely in a natural way

Fine-mist hand-spray bottle

- Fine and even spray covering the entire surface without soaking it
- Very short drying time
- Quick application

AOX-free

Areas of Application:

Neutralizes all unpleasant odours, such as cigarette smoke, sweat, animal, mould and cooking odours, which may occur in a vehicle interior, driver's cabs, on upholstery, carpets, curtains and clothing.

Note: Water-sensitive textiles (e.g. silk) must be tested before use. Not suitable for leather or suede.

ECO CHEMICAL DISPENSER/DILUTER



Art. No 891.030100

The Würth chemical dispenser mixes water with concentrated cleaning chemicals and dispenses these solutions.

- It is set up to dispense 2 chemicals, one at high flow thanks to a 4 gpm valve (for pails and buckets), and one at low flow thanks to a 1 gpm valve (specially designed to fill bottles and avoid too much foaming).
- The dispensing unit comes with 14 different colour-coded metering tips, each offering a different dilution ratio.
- The dispenser is equipped with ASSE 1055B approved back flow devices.

Water supply requirements: min. 20psi (1.38 bars) and max. 125psi (8.62 bars)

Water temperature: max. 65.5°C (150°F)

What comes with the dispensing unit:

- 2 X vacuuming hoses (1/4" ID X 8" length)
- 1 X dispensing hose (1/2" ID X 6" length)
- 1 X 14 metering tips (for dilution ratios)
- 2 X ceramic weights (to keep hoses at the bottom of the chemicals containers)
- 1 X set of chemical identification labels
- 1 X set of 4 screws and 4 plastic anchors (to fix dispenser on wall)

6' water supply hose available separately: **Art. No. 891.030101**

Note: Refer to the appliance manual for more information (see our e-shop for details).

ECO ODOUR ELIMINATOR



Recommended:

Replacement Sprayer for 500 mL & 1 L Eco Products Bottle **Art. No. 891.502200**

Environmentally friendly permanent odour eliminator and deodorizer.

Highly effective odour eliminator and deodorizer

- Permanently eliminates even the toughest and rankest smells.
- Won't absorb the good smells, so your room stays smelling fresh!
- Not affected by high temperatures.

Rapidly binds to bad odour molecules.

- Completely eliminates the odour at the source.
- Fast, effective and long-lasting odour control.
- Won't release the malodour back into the air even when it dries.

Long lasting effect.

- Continues to absorb odours as long as the active ingredient has not been used up by the odour, even when dry.
- Reactivate it simply by wetting.
- Works on both soft and hard

surfaces, and in the air.

Environmentally friendly product.

- Completely biodegradable.
- Made from 100% sustainable resources.
- VOC free.
- Completely soluble in water.
- Phosphate-free.
- A better choice for your health and for the environment.

Areas of Application:

Both soft and hard surfaces. Kitchen and bathrooms, waste collection and recycling, garbage collection areas and containers, carpets and upholstery, vehicle interiors, kennels, sewage treatment, etc. Anywhere odours are a problem!

Scent	Content	Art. No.	P. Qty.
Kiwi-Mango	500 mL	893.139401	1/12
	4 L	893.139404	1/4
Spring	500 mL	893.139402	1/12
	4 L	893.139403	1/4

BIOLOGICAL ODOUR ELIMINATOR



Biologically active odour eliminator and deep cleaner.

Highly effective odour eliminator and deep cleaner.

Eliminates even the toughest and rankest smells.

Rapidly breaks down bad odour molecules.

Completely eliminates the odour at the source. Fast, effective and long-lasting odour control.

Works on both soft and hard surfaces.

One product for multiple applications.

EcoLogo certified

- Completely biodegradable.
- Made from 100% sustainable resources.
- VOC free.
- Completely soluble in water.
- Phosphate-free.
- A better choice for your health and for the environment.

Safe to use in food processing plants.

Areas of Application:

Both soft and hard surfaces. Vehicle interiors, public transportation, garbage collection areas and containers, urinals, fitness facilities, pet stores, upholstery and carpets.

Recommended:

Replacement Sprayer for 500 mL & 1 L Eco Products Bottle
Art. No. 891.502200

Scent	Content	Art. No.	P. Qty.
Neutral	500 mL	893.139301	1/12
	4 L	893.139308	1/4

GLASS CLEANER



Alcohol and ammonia free formula, 0% VOC

Features:

The Würth Glass Cleaner does not contain any alcohol, ammonia, phosphate or volatile organic compounds; its water-based formula makes it completely safe for the user, the surface treated and the environment. Quickly and efficiently cleans dirt, grime, smoke and road film. Does not leave any streaks, haze or film on the surface. Completely safe for tinted windows, plastic windows, plexiglass and computer screens. Perfect for general cleaning and vehicle detailing.

Areas of Application:

Glass and windows, windshields, mirrors, plexiglass, chrome and stainless steel.

Recommended: Tap for the 20 L pail **Art. No. 891.302.03**

Description	Contents	Art. No.
Glass Cleaner Concentrate	4 L	893.012104
	20 L	893.012120

ECO GLASS CLEANER



Recommended:

Replacement Sprayer for 500 mL & 1 L Eco Products Bottle **Art. No. 891.502200**

Biodegradable streak, haze and film-free glass cleaner

Eco-Logo certified

- Completely biodegradable
- Made from 100% sustainable resources
- VOC free
- Completely soluble in water
- A better choice for your health and for the environment

Powerful cleaning

- No abrasives that could scratch the finish
- Easily dissolves smudges, film, grime, bugs, etc.
- Active ingredients loosen and suspend dirt so that it can easily be wiped off

Safe and easy-to-use

- Odourless
- Alcohol and ammonia free
- Biodegradable
- pH: 8.0
- Spray on and wipe off



Areas of Application:

- Würth Eco Window and Glass Cleaner is ideal for every glass surface
- Brightens and cleans windows, mirrors and all hard surfaces.
- Because it is free of solvents, it is also safe for use on LCD screens (computer monitors, etc.)

Contents	Colour	Art. No.
1 L	Blue	893.012610
4 L		893.012611
1 L	Empty Bottle	891.501212

Dilutions	
Formulation	Dilution
1 L Spray	Ready-to-use formula
4 L Concentrate	Dilute 1 part concentrate with 10 parts water

CLEAN AND REPEL GLASS CLEANER



Art. No. 890.22050 500 g

- Cleans effectively and coats glass with an invisible layer of protection that repels water
- Streak-free cleaning
- Repels rain by causing water to bead up and roll away
- Helps prevent bugs, road spray, ice and snow from sticking to glass
- Increases wiper blade life
- Improves wet weather driving visibility
- Ammonia-free
- VOC compliant
- Biodegradable
- Not suitable for polycarbonate glass ("bulletproof" glass)

PREMIUM GLASS CLEANER



Art. No. 890.9026 517 g

- Removes stubborn dirt, grease, grime, road salt, light paint over-spray, smoke, haze and bugs
- Streak free: Will never smear, haze or leave a film
- Ammonia fortified, silicone free and special non-detergent formula
- Will work on surfaces such as glass, tile, porcelain, stainless steel, chrome and vinyl
- Shake can well before use

Note: Use in well-ventilated areas.

ACTIVE GLASS CLEANER



Art. No. 890.25 445 g

Cleaning foam for glass and smooth surfaces

Stable cleaning foam

- No run off from vertical surfaces

Extremely active cleaning foam

- Upon bursting of the foam bubbles, highly concentrated, active cleaning agents are released to directly attack the dirt
- Outstanding dirt dissolving power

A little product goes a long way

- Cost savings
- Reduced work effort

Gentle on material

- Non-aggressive on paint, rubber and plastic

Silicone and AOX-free

Areas of Application:

- Dissolves insects, bird droppings and road dust, nicotine deposits, grease, silicone and rubber residue from glass surfaces, mirrors and paintwork.

Use:

For optimal foaming, shake can vigorously prior to use.

Note: Do not apply to hot surfaces or in direct sunlight. Not suitable for polycarbonate glass.

GLASS CLEANER



Art. No. 890.9025 525g

Features:

- Removes insects, bird droppings, smoke deposits, grease, silicone, adhesive residue, etc
- Also cleans painted surfaces such as radiator grills, hoods, as well as porcelain, ceramic and tiles
- Must clean with a paper cloth to obtain a streak-free finish
- Does not attack rubber, paint or plastics
- Spray surfaces evenly and leave for 30 seconds to allow active ingredients to work
- Does not run on vertical surfaces
- 500 mL

Note: Use in well ventilated areas

PX3 PLUS SPECIAL HAND CLEANER



Hi-tech professional hand cleaner with micro-grain scrubbers specially formulated for the effective removal of paints, inks, adhesives, lacquers, putty and sealants.

Features & Benefits:

- Contains special ingredients to clean extreme soils such as paints, inks, adhesives, lacquers and sealants

- Contains Pro-vitamin B5, Vitamin C and Vitamin E
- Solvent free and silicone free
- Environmentally friendly formula
- Skin-friendly formula

Fragrance:

- Lavender

pH Value:

- Approx. 6.5

Colour	Content	Art. No.
Grey/Purple	444 mL	893.901001

HAND CLEANERS FOR DISPENSERS



Hand Cleaner Industrial Strength

Features:

- Powerful citrus hand cleansing gel.
- Increased cleaning power because of skin friendly micrograins.
- Extra powerful because of active citrus ingredients.
- Effective for removing heavy soils such as tar, paint, glue and lacquer.
- Available in 3 liter cartridge.

Hand Cleaner with Walnut Scrub

Features:

- Contains natural walnut shell scrubbers to safely and effectively remove dirt, grease, lubricants, diesel, brake fluid, cement, rust and many other hard to remove soils.
- Fortified with skin care ingredients.
- Leaves no greasy residue behind
- Solvent free and silicone free
- Biodegradable environmentally friendly formula
- Free of VOCs and NPEs (Nonylphenol ethoxylates)

Fragrance:

- Lavender

pH Value:

- Approx. 6 - 6.5

Hand Cleaner Solvent Free

Features:

- Solvent-free, heavy-duty hand cleansing paste.
- Extra active because of skin friendly micrograins.
- Use on wet hands.
- Effective for removing medium-to-heavy soils such as lubricants, diesel, brake fluid, cement and rust.
- Available in 3 liter cartridge.

***Note:** Soil types are general. Actual results may vary.

Description	Contents	Art. No.	P. Qty.
Hand Cleaner Solvent Free	3L	893.93402	1
Hand Cleaner Industrial Strength		893.93401	
Hand Cleaner with Walnut Scrub		893.934040	

For use with: Automatic Hand Cleaner Dispenser **Art. No. 891.935**
and Manual Hand Cleaner Dispenser **Art. No. 891.9351**

HAND CLEANER DISPENSERS



For use with:

Hand Cleaner Solvent Free **Art. No. 893.93402**
 Hand Cleaner Industrial Strength **Art. No. 893.93401**
 Hand Cleaner with Walnut Scrub **Art. No. 893.934040**

Automatic Hand Cleaner Dispenser

Art. No. 891.935

Unique, touch-free dispensing system for optimal hygiene.

Automatic, touch-free dispensing

Improves hygiene and dramatically reduces product consumption.

Quantity control guarantees economical use

The metered 5 mL output provides up to 600 applications per 3 litre container.

Accurate dosage

Infra-red sensor assures dose only when hand is in position

Permanently sealed

No access to the product in cartridge except through dispenser.

No waste

Disposable cartridge empties 100%.

Secure, convenient, no-mess

Easy reloading with cartridge locked in place.

Professional-quality product

Made of high quality, robust and strong components.

Includes wall mounting bracket

Requires 8 "AA" batteries (included)



For use with:

Hand Cleaner Solvent Free **Art. No. 893.93402**
 Hand Cleaner Industrial Strength **Art. No. 893.93401**
 Hand Cleaner with Walnut Scrub **Art. No. 893.934040**

Manual Hand Cleaner Dispenser

Art. No. 891.9351

Quantity control guarantees economical use

The metered 5 mL output provides up to 600 applications per 3 litre container.

Accurate dosage

Permanently sealed

No access to the product in cartridge except through dispenser.

No waste.

Disposable cartridge empties 100%.

Secure, convenient, no-mess.

Easy reloading with cartridge locked in place.

Professional-quality product.

Made of high quality, robust and strong components.

Includes wall mounting bracket.

APPLE SEED SCRUB HAND CLEANER



Art. No. 890.600640 - 4 L

Solvent free, environmentally friendly hand cleaner that cleans, moisturizes and promotes healthy skin with abrasive apple seed technology.

Features & Benefits:

- Natural apple seed pumice
- 100% solvent & petroleum free
- Biodegradable
- Effectively cleans tough grease and grime
- Prevents and heals dry, cracking skin
- Gentle on sensitive skin types such as dermatitis prone skin
- Hand pump included

HAND CLEANER WITH PERLITE SCRUB



A hand cleaner containing natural perlite mineral as a scrubbing agent to remove medium to heavy soiling.

Features & Benefits:

- Contains natural perlite as the scrubbing agent to remove dirt without harming the skin.
- Contains moisturizing agents that help protect the skin.
- Removes soiling such as pollution, oil, grease, printing inks, fat, tar, bitumen, lubricants, dust, soot and graphite.
- Free of silicone, alkali and soap.

Size	Scent	Colour	Art. No.
3 L	Citrus	White	893.900001

HAND CLEANER WITH OLIVE SCRUB

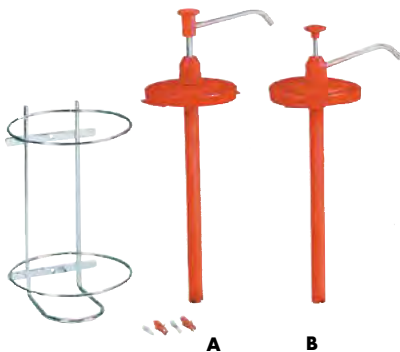


A mild solvent free hand cleaner with a pleasant smell that can remove a wide range of industrial soils.

- Contains skin compatible raw materials with soft, natural olive based abrasives.
- Suitable for daily use without any negative effect on the skin.
- Free of silicone and solvents.
- Works to remove stubborn and ingrained dirt like oil, grease, tar, printing or duplication inks.
- Can be used in applications such as industrial manufacturing, garages and body repair shops.
- Can be used on dry or wet hands.
- Appearance - viscous gel
- Odour - fresh citrus scent
- pH Value - approx. 6.5

Colour	Contents	Art. No.	P. Qty.
Red/Orange	3 L	893.905001	1

HAND CLEANER PUMPS



Use with Art. No. 893.900001 & Art. No. 893.905001

Item	Contents	Art. No.	P. Qty
A	1 suction pump, 1 wall mount with screws and plugs	891.900	1
B	1 Suction Pump	891.9011	

HAND CLEANER SOIL CHART

TYPE OF SOIL	INDUSTRIAL STRENGTH 893.93401	SOLVENT-FREE 893.93402	WALNUT SCRUB 893.934040	APPLE SEED SCRUB 890.600640	PERLITE SCRUB 893.900001	OLIVE SCRUB 893.905001	PX3 PLUS 893.901001
ADHESIVES - WATER SOLUBLE		•	•	•	•	•	•
ANIMAL FATS		•	•	•	•	•	
ASPHALT	•	•		•			
BATTERY ACID		•	•	•		•	
CARBON BLACK	•	•	•	•	•		
COAL DUST	•	•	•	•	•	•	
COAL TAR	•			•	•		
CREOSOTE	•		•		•	•	
CUTTING OIL - OIL SOLUBLE	•		•	•	•		
CUTTING OIL - WATER SOLUBLE	•	•	•	•	•	•	
DIESEL OIL	•	•	•	•	•	•	
DIRT (LIGHT DUTY)		•	•	•	•	•	
FUEL OIL	•	•	•	•	•	•	
FUEL OIL #6 (HEAVY)	•				•		
GASKET CEMENT/ SEALANT	•						•
GASOLINE	•	•	•	•	•	•	
GRAPHITE	•	•	•	•	•		
GREASE	•	•	•	•	•	•	
HOT MELT GLUE	•			•			
INK - ALCOHOL BASED	•	•		•		•	•
INK - OIL BASED	•						•
INK - WATER BASED		•	•	•	•	•	•
PAINT - LATEX	•	•	•	•		•	
PAINT - OIL BASED	•			•			•
PIPE DOPE	•	•	•				
PITCH	•			•			
RUBBER CEMENT		•	•	•			
SAP		•	•	•	•		
SILICONE SEALANTS	•						•
TAR	•						
UNDERCOATING	•						

*SOIL TYPES HAVE BEEN GENERALIZED FOR EASE OF CATEGORIZATION. ACTUAL RESULTS MAY VARY.

UNIVERSAL WORKSHOP CLEANER



Art. No. 893.124 5 L

Powerful cleaner in a pH-neutral range with extremely high capacity of dissolving dirt on floors, machinery and in plants

- Reduces ecological damage
- Reduces risk potential in daily work
- Saves raw material resources
- Avoids waste material
- Best quality for highest demands

Features:

- Biodegradable >95% (mod. OECD and closed bottle test)
- Oily-greasy dirt is not emulsified, but loosened by sub-surface penetration
- Quickly separates in waste water according to Austrian Standard test B 5105
- Gentle on skin
- Does not contain AOX or organic solvents
- Phosphate free
- Does not mobilize heavy metals in inshore waters
- Silicone free
- Can be used on all conventional surfaces

Application Areas:

Can be used manually or in high-pressure equipment for cleaning engines, machinery, tools, vehicles, floors of all kinds (except carpeting), canteen kitchens, butcher's shops and bakeries.

Concentration level when used:	
Floor cleaning machines	3 - 10%
High-pressure equipment	3 - 5%
Manual cleaning	3 - 50%

BIOLOGICAL FLOOR CLEANER CONCENTRATE



Biologically active "dirt eating" floor cleaner

Eco-Logo certified

- Completely biodegradable
- Made from 100% sustainable resources
- VOC free
- Completely soluble in water
- Phosphate-free
- A better choice for your health and for the environment

Powerful cleaning

- Highly effective immediate cleaning
- Provides long-term deep cleaning by removing embedded residual organic material found in pores, cracks, crevices and corners
- Cleans floors and grout
- Cleans without harsh chemicals

Improves the quality and cleanliness of the workplace

- Reduces slippage through the removal of grease on floors
- Improves the waste stream by creating a biofilm in drains, reducing organic build-up
- Controls malodours
- Reduces conditions that encourage pests

Safe and easy-to-use

- pH: 7.5-8.5

Application:

Works best on vegetable/animal oil and grease. Specifically designed to penetrate porous floor surfaces to degrade and eliminate grease and other organic materials that can accumulate over time. Biological Floor Cleaner produces enzymes that will break down the fatty acid components of grease. The microbes continue cleaning long after you have finished.

Dilution:

Mix 12 - 25 ml of product per litre of water

Contents	Dilution	Art. No.
4 L	Concentrate	893.117218

CONCRETE FLOOR CLEANER



Art. No. 893.117220 20 L

Non-chlorinated, non-petroleum solvent-based liquid cleaner/degreaser

- Floor Cleaner utilizes a natural citrus-based di-limonene formula with a high pH level chemistry
- Low VOC (Volatile Organic Compound) and has a pleasant citrus fragrance
- Can be diluted with water or used full-strength. Diluting will not affect pH level
- For use in garages, service bays and high-traffic areas

POWDER FLOOR CLEANER



A powerful and safe floor cleaner that removes the most stubborn grease and oil stains.

Features:

- Contains cleaning agents that penetrate, emulsify, and dissolve ground-in dirt and stains.
- Phosphate-free and biodegradable
- Safe on all metals and wood floors

Applications:

- Ideal for cleaning cement floors in garages and service pits, as well as concrete driveways.

Directions:

- **For general cleaning:** Wet floor with water and sprinkle powder on floor. Allow to stand for 5-10 minutes and then brush off. Rinse with clean water using a hose or mop.
- **For stubborn grease or oil stains:** Sprinkle powder directly on stain with a small amount of water. Allow to stand for several minutes and then rub with a stiff brush. Rinse floor with clean water using a hose or mop.
- **For the toughest cleaning jobs:** Dissolve powder in hot water at a ratio of 1/2 cup per gallon. Apply to dirty surface and scrub. Rinse thoroughly with water.

Contents	Art. No.	P. Qty.
20 kg	893.117221	1

ECO SCALE REMOVER



Biodegradable all-purpose acid replacement.

EcoLogo certified.

- Completely biodegradable.
- Made from 100% sustainable resources.
- VOC free.
- Completely soluble in water.
- Phosphate-free.
- A better choice for your health and for the environment.

A safe acid alternative.

- No abrasives that could scratch the finish.
- Cleans stubborn water scale, lime deposits, rust stains, light corrosion, mildew and mold. Creates no harsh vapours.

Safe and easy-to-use.

- Biodegradable.
- Low impact on aquatic life.
- Septic tank friendly.

Areas of Application:

Ideal for ceramic, grout, terrazzo, quarry tiles, concrete, brick, stainless steel, aluminum, copper and brass. Can also be used to clean scale deposits, moulds and algae on boat hulls.

Contents	Formulation	Art. No.	P. Qty.
1 L	Ready-to-use	893.122500	1/12
4 L		893.122504	1/4
20 L		893.122520	1
500 mL	Empty Bottle	891.12250	-



Recommended:

Replacement Sprayer for 500 mL & 1 L Eco Products Bottle
Art. No. 891.502200

ECO HF ACID REPLACEMENT



All-purpose industrial cleaner for the removal of calcium, silica, and oxidation in place of harmful hydrofluoric acid

Powerful scale remover

- Removes tough water scale, lime scale, silica scale, organic deposits, and rust stains.
- For use on stainless steel, and aluminum metals

Contents	Dilution	Art. No.
4 L	Concentrated	893.162804
20 L	Concentrated	893.162800

Safe alternative to hydrofluoric acid

- Completely biodegradable and environmentally safe
- Does not exhibit the highly hazardous properties of hydrofluoric acid
- Eliminates the need to file an OHS risk management plan
- Absolutely no corrosive fumes
- Non-corrosive to skin
- No unwanted reactions with other cleaners

TAR REMOVER



Areas of Application:

Effortlessly removes tar, oil and splashes of underbody protection and hollow cavity sealant from paint and chrome.

Use:

Spray on directly or apply to the surface to be treated with a saturated cloth, allow to soak in briefly and remove with a cloth or soft sponge.

Designation	Contents	Art. No.
Aerosol	224 g	890.26

W-SOL RESIDUE REMOVER



Solvent-based cleaner that removes dirt, grease, tar, residue, wax and silicone.

Features:

Universal solvent used for general cleaning. Safe to use on new cars, on acrylic and lucite finishes. Can be used as a thinner for adhesive sealers.

Contents	Art. No.
448 g	890.1130

INSECT REMOVER



Improved combination of active ingredients

Problem-free removal of insect remains which are harmful to the paintwork without leaving any residue

Simple and quick application

- Outstanding suitability for pre-treatment prior to automatic car wash

Gentle on material

- Non-aggressive against paintwork, chrome, plastic, rubber, etc.
- Does not emulsify with water, thus does not impair the operation of a light fluid separator (DIN 1999)

pH-value: 10.9

AOX-free

Silicone-free

Areas of Application:

Front windows, radiator grills, bumpers, head lamps, license plates and spoilers

Note: Do not apply to hot paintwork or in direct sunlight. Protects against frost.

Designation	Contents	Art. No.
Spray Bottle	500 mL	893.470
Container	5 L	893.4705

ECO SUPER SPRAY ALL



Multi-purpose cleaner and degreaser

- This powerful degreaser cuts heavy grease, oil, dirt and soil quickly and effectively.
- Can be used on most interior and exterior hard surfaces including vinyl, rubber, painted surfaces, metal, porcelain, fibreglass and plastic.
- Eco-Logo certified.
- Completely biodegradable.
- Made from 100% sustainable resources.
- VOC free.

Description	Contents	Art. No.
Eco Super Spray All	1 L	890.90901
	4 L	890.90904
	20 L	890.909020



Recommended:

Replacement Sprayer for 500 mL & 1 L Eco Products Bottle
Art. No. 891.502200
Tap for 20 L **Art. No. 891.302.03**

ECO INSTITUTIONAL HARD SURFACE CLEANER



Eco-friendly multi-purpose hard surface cleaning and degreasing agent

Features & Benefits:

- Environmentally friendly, water-based alternative to toxic, caustic and solvent based cleaning compounds
- Free of petroleum hydrocarbons and non-flammable
- Biodegradable
- Requires no special protective clothing to handle these products
- Safe and easy to use on any washable surface
- Accepted for use by the Canadian Food Inspection Agency (CFIA)

- Can be used on all hard surfaces such as floors, walls, windows, porcelain, etc.
- Removes all types of grease, oil, carbon and dirt from surfaces with easy rinsing

Applications:

- Can be used institutions such as shops, schools, recreational centers, sport centers and auditoriums, etc.
- Product can be diluted with water depending on the desired dilution and the type of soil that needs to be removed.
- Can be diluted using a dilution machine (891.030100) and used with a power washer, or by hand.

Size	Dilution	Dilution (Concentrate:Water)	Art. No.
1 L	Ready-to-use		893.117111
4 L	Concentrate	1:50 General Cleaning	893.117109
		1:10 Heavy Cleaning	
20 L	Concentrate	1:5 Very Heavy Cleaning	893.117112

INDUSTRIAL STRENGTH DEGREASER



Powerful VOC compliant ready-to-use degreaser

- Cuts through stubborn grease, grime and other hard-to-remove soils quickly
- Biodegradable (according to OECD 3028 Modified MITI Test)
- Contains no petroleum, solvents, or acids
- Non-flammable

Application:

Ideal for every cleaning job, including floors, walls, engines, heavy equipments and machinery, tools, bicycles, garden and farm equipment, condenser coils, shop machinery, garage floors, asphalt drives, etc.

Format	Art. No.	Contents
Ready-to-use, spray	893.474120	1 L
Ready-to-use, bulk	893.474121	4 L
Ready-to-use, bulk	893.474122	20 L

Tap for 201 Ready-to-Use Bulk:
Art. No. 891.302.03

ECO HEAVY DUTY DEGREASER



Powerful enough to clean the heaviest grease deposits without the need for harsh chemicals

Penetrates and breaks down heavy oil and petroleum deposits

- Highly effective on all heavy petroleum based products such as all oils, greases, waxes, and tars
- Provides a better clean than many conventional toxic products, while being safer for you and the environment

Environmentally Safe

- Safe for all metal and non-metal surfaces
- Free from heavy metals, organic solvent, halogenated compounds and phosphates
- Free rinsing, non-flammable, and no VOCs

Easy-to-use concentrated product

- 1:50 dilution - General cleaning
- 1:10 dilution - Heavy cleaning
- 1:5 dilution - Very heavy cleaning

Contents	Dilution	Art. No.
1 L	Ready-to-use	893.162500
4 L	Concentrate	893.162501
20 L	Concentrate	893.162502
210 L	Concentrate	893.162503
Replacement Sprayer		891.502200



Recommended:

Replacement Sprayer for 500 mL
& 1 L Eco Products Bottle
Art. No. 891.502200

ECO INDUSTRIAL DEGREASER & MULTI PURPOSE CLEANER



Environmentally friendly all-purpose cleaner & degreaser

Eco-Logo certified

- Completely biodegradable
- Made from 100% sustainable resources
- VOC free
- Completely soluble in water
- Phosphate-free
- A better choice for your health and for the environment

Powerful cleaning

- The most powerful water-based degreaser on the market today
- Saves time through its ready-to-use spray bottle
- Saves money through the use of the concentrate

Safe and easy-to-use

- Free rinsing
- Non-corrosive
- Non-flammable
- pH: 11.5
- Pleasant scent

Areas of Application:

Ideal for every cleaning job including floors, walls, woodwork, maintenance shops, engine shampoo, porcelain, plastic surfaces, light fixtures, venetian blinds, desks, cabinets, stainless steel, maintenance shops, cars and trucks.

Dilutions for Eco Industrial Degreaser (4 L, Art. No. 893.117103)

Application	Dilution (Concentrate: Water)
Damp mopping & light cleaning	1:40
General cleaning	1:20
Heavy duty cleaning	1:1 to 10
Same as Ready-to-use format	1:9



Contents	Dilution	Art. No.
1 L	Ready-to-use	893.47410
4 L	Concentrate	893.117103
20 L	Concentrate	893.117106
1 L	Empty bottle	891.501211

SUPER SPRAY DEGREASER



Art. No. 893.164500 20 L

This unique, powerful and biodegradable degreaser cuts heavy grease and soil quickly and effectively.

- VOC (Volatile Organic Compound) compliant
- Non-flammable, non-combustible, highly economical
- Biodegradable, contains NO petroleum or chlorinated solvents, phosphates or acids and is pleasantly scented, unlike most petroleum based degreasers
- Colour: Clear orange

Applications:

Engines - warm or cold, shop and garage floors, farm equipment and shop machinery, condenser and evaporator coils, permanent air filters, gas grills, tools, etc.

ECO MULTI-PURPOSE DISINFECTANT



Environmentally safe cleaner, deodorizer and disinfectant that stops the spread of contamination, contagious germs and micro-organisms

Disinfects and Protects:

- Effectively disinfects against most bacteria and viruses including: Salmonella, E. coli, **Influenza** and **H1N1**, among other viruses at 10 minutes contact time

Features:

- Kills 99.9% of germs
- Sanitizes all inanimate surfaces
- Won't streak or leave behind sticky residues

Applications:

- Industrial, Institutional and Food Plants
- Health Care Facilities and Dental offices

Ready to Use:

Size	Dilution	Art. No.
1 L	Ready-to-use	893.139611

Ready-to-use format includes spray nozzle.

Concentrate:

Size	Dilution	Art. No.
4 L	Concentrate	893.139614
20 L	Concentrate	893.139620*

*Available On Demand

Note that the chemical composition between the ready-to-use and concentrated formats are not 1 to 1. Please view technical data sheet for more information.

Dilution ratio 1:64 or 16ml of concentrate per liter of water

4L concentrate is equal to 250 1L Ready to use bottles

$$4L = 1L \times 250$$

ECO HEAVY MACHINERY WASH



Specially formulated to handle the toughest cleaning challenges in the oil industry

Designed for oil industry applications

- Ideal for long-haul rigs, oil rigs, on and off-shore drilling rigs and heavy equipment
- Can be used for continued maintenance of platforms, decks, derricks, racks, liners, drills, bits, and rods
- On-site usage eliminates the cost of dismantling equipment, or sending it off-site for cleaning

Highly effective and biodegradable

- Can be used for chemical cleaning of all hydrocarbon and crude oil products
- Safe on all ferrous and non-ferrous metals

Easy-to-use concentrated product

- Concentrated product can be diluted with fresh water or sea water
 - 1:20 dilution - Light cleaning
 - 1:10 dilution - Heavy cleaning

Note: Dilution rates may vary depending on the job

Contents	Dilution	Art. No.
4 L	Concentrate	890.109004
20 L	Concentrate	890.109020

ECO PARTS WASH



A safe and efficient alternative to using toxic solvents for parts washing. No system changeover needed, can be added to any wash basin.

Effective alternative to solvent-based solutions

- Can be used for difficult cleaning applications in any existing parts washer system
- Contains corrosion inhibitors
- Does not require a heated parts washer system
- Excellent for removing all types of shop oils, greases, and oil-based fluids

Contents	Dilution	Art. No.
4 L	Concentrate	893.162700
20 L	Concentrate	893.162701
210 L	Concentrate	893.162702

Added safety of a water-based cleaner

- No environmental risks: Completely biodegradable, VOC & halogen free
- Safer working environments: Non-toxic, non-corrosive, non-flammable, and non-combustible
- Safe handling and storage: No ventilation hood required, and no solvent cabinet needed

Easy-to-use concentrated product

- 1:10 dilution - Light cleaning
- 1:4 dilution - Heavy cleaning

Note: Dilution rates may vary depending on the job

ACTIVE CLEAN



Art. No. 893.472 500 g

Fruit scented intensive foam cleaner for vehicle interiors.

Perfect for plastic surfaces, vinyl, cloth, leather, and carpets.

Micro-fine active foam (vacuum effect)

- Foam remains on the surface and actively extracts the dirt by the action of foam bubbles bursting
- Outstanding dirt dissolving power
- No soaking of upholstery, thus no long drying times
- Perfect for cleaning salt stains on carpets

Gentle on material

- Suitable for all materials in the vehicle interior. The dashboard break-off points of the (passenger) air bags are not affected

20-fold yield

- 500 mL Aktiv-Clean is equal to the yield of more than 10 litres of liquid cleaner
- Economical

Does not contain phosphate or organic solvents. AOX-free.

Potential danger of daily use is reduced

- Environmentally friendly
- Meets local waste water regulations
- No hazardous substance identification required

Quickly separates in waste water according to ecological standard test B 5105

Biodegradability >95%

pH-value: 8.2

Silicone free

Note: Spray Aktiv-Clean onto a clean, dry cloth and wipe the surfaces to be treated. Then treat plastic parts with Cockpit Care (**Art. No. 893.4731**). On textile surfaces and upholstery, allow foam to soak in briefly and remove any dirt with a brush or sponge. Treat stains from the edge towards the centre. Afterwards vacuum upholstery. Protect against frost.

PLASTIC CARE



Art. No. 893.4731 500 mL

Fruit scented interior care for synthetic surfaces

High-quality Carnauba waxes, in combination with Jojoba oil, provide optimum care

- Freshens up colours and leaves a silky-smooth gloss
- Synthetic materials remain elastic - prevents creaking and squeaking noises
- Provides a well-cared for appearance

Gentle formulation

- The dashboard break-off points of the (passenger) air bags are not affected

Lasting protection against the effects of pollution

- Protects against aging and brittleness
- Prevents bleaching of cockpit surfaces

Anti-static

- Eliminates the need to constantly dust

Does not contain phosphate or organic solvents. AOX-free.

- Potential danger of daily use is reduced
- Environmentally friendly
- Meets local waste water regulations
- No hazardous substance identification required

Quickly separates in waste water according to ecological standard test B 5105

Biodegradability >95%

pH value: 8.2

Silicone free

Note: Preliminary cleaning with Activ-Clean (**Art. No. 893.472**) is recommended. Spray Cockpit Care onto a clean, dry cloth and apply to the surfaces to be treated. Protect against frost.

DASHBOARD CLEANER



Art. No. 890.2221 288 g

For cleaning and caring for the interior of passenger cars, commercial vehicles and buses. For dashboards, door linings, plastics and rubber mats.

Excellent cleaning power and gentle care in a single operation

- Less time required for treating the interior of the vehicle
- Universally applicable for all plastic parts in vehicle interiors

Ideal caring properties

- Revives colours
- Leaves behind a silky, matte shine

Has anti-static properties

Prevents the accumulation of dust

Minimal spray mist

- Simple and targeted use
- User-friendly application

Citrus-fresh fragrance

Silicone-free

AOX-free

Application:

Spray directly onto the surface to be cleaned from a distance of approx. 20 cm then wipe off using a clean, dry cloth.

Note: Do not spray onto the windscreen or side windows. Ventilate the vehicle interior for a short time following application.

ECO TEXTILE CLEANER



An activated oxygen cleaner

Eco-Logo certified

- Completely biodegradable
- Made from 100% sustainable resources
- VOC free
- Completely soluble in water
- A better choice for your health and for the environment

Non-hazardous

- Made from the world's safest all-natural sanitizer and germicide - hydrogen peroxide
- When it contacts organic material, it breaks down into oxygen and water
- Colour-safe bleaching
- Contains hydrogen peroxide, surfactants and natural degreasing agents

Effective

- Fresh citrus scent
- Eliminates odours
- Highly effective at cleaning grease, mildew, mold and in the cleaning of light corrosion and organic stains such as coffee, wine, juice, blood and pet stains

Areas of Application:

- Effectively removes stains on car and truck cloth seats, carpets, clothes, etc.
- Eliminates stubborn and strong odours on fabric and upholstery
- Excellent cleaning product for schools, hospitals, casinos, restaurants, hotels, etc.

Contents	Art. No.
1 L	893.117120
4 L	893.117121
1 L	891.501210 Empty

Dilutions	
Formulation	Dilution
1 L Spray	Ready-to-use formula
4 L Concentrate	Dilute 1 part concentrate with 10 parts water
Heavy Stains	Spray at a dilution of 1:5



Recommended:

Replacement Sprayer for 500 mL & 1 L Eco Products Bottle
Art. No. 891.502200

VINYL AND UPHOLSTERY CLEANER



Art. No. 893.033 450 g

Considerably improves the unsightly appearance of seats, vinyl dashboards, trim, roofs and carpet caused by excessive use, the elements, spills, road dirt and grime, and pollution

- Removes dirt from vinyl surfaces, including seats and vinyl trim, to restore vinyl sheen
- Leaves a protective coating that will help repel dirt and grime
- Also useful as a spot remover on vinyl, cloth, leather surfaces and carpet
- Silicone-free

LEATHER CARE



Art. No. 893.012901 500 mL

Cares for all varieties of leather and leaves behind an attractive, visual shine.

Features & Benefits:

- Cleans and provides lasting care and preservation of the surface texture of all leathers
- Use regularly to keep leather soft and supple, preventing brittleness and tearing
- Contains specially selected waxes and silicones for all kinds of smooth leather

Application

- Apply thinly, leave to dry for 20 minutes and polish with a soft brush or cloth.

QUICK-FRESH



Excellent for removing odours and returning a fresh air smell to vehicle air conditioning systems

- Specially formulated to handle the problems associated with moisture accumulation
- The powerful fragrance and odour counteractant system does not just cover up offensive odours, but effectively eliminates them at the source
- Excellent for cars, trucks, RVs, boats, etc.
- Suitable to refreshen smoked-in vehicles, older cars, trucks
- Ideal for mildew and mould smell removal
- Pocket size

Note: Occupants should remain outside the vehicle during application!



Quick Fresh P.O.P Display
Art. No. 008.QF

Description	Contents	Art. No.
New Car Scent	113 g	893.764531
Linen Scent		893.764527

RUBBER CARE STICK



Art. No. 893.0128 75 mL

Silicone-free care for rubber seals. Prevents door rubbers from freezing in winter.

Features:

- Silicone-free
- Resistant to splash and salt water
- Biologically degradable
- Resistant to diluted acids and alkaline
- Water repellent

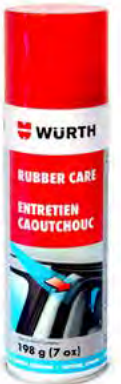
Effect:

Keeps rubber seals on doors, trunks and hoods in good condition and prevents freezing in winter

Result:

The resilience of all rubber parts is maintained, increasing service life and preventing cracking. Freezing and drying in winter are effectively prevented. Eliminates squealing and creaking noises caused by dry rubber.

RUBBER CARE



Art. No. 890.110 189 g

- Keeps rubber parts supple
- Protects against adhesion of rubber due to age and heat of rubber seals on doors, trunks and hoods
- Freshens up colour
- Will not damage paint or chrome parts
- Suitable for car tires, rubber mats, pedals, rubber parts of bumpers
- Silicone-free

PLAST-PT®



For visual improvement of vehicle plastic parts

- Solvent free
- Dispersion-based high-quality plastic dye
- Restores faded plastic to original condition
- Easy application
- Can be applied in direct sunlight

Areas of Application:

Bumpers, synthetic leather roofs, folding roofs (including cloth), interior plastic panels, rubber parts, water pipes, running boards, etc.

Note: Plastic Dye is humidity sensitive during application; therefore, ensure part to be treated is dry before application and remains dry until dye is cured. Do not store or apply at temperatures below +7°C (+44 °F).

Colour	Contents	Art. No.
Black	75 mL	893.2801

UNIVERSAL TRIM PROTECTION



Renews and protects all exterior vehicle trim

Features:

The special formula protects and instantly renews the aspect of your vehicle's trim, moulding and bumper. Surfaces look new again and will be protected against fading, oxidation and deterioration due to weather, salt, and road film. Perfect for use on vinyl, rubber and plastic surfaces. Works incredibly well on smooth and textured surfaces. Surfaces do not need to be black to obtain superior results.

Areas of Application:

- All vehicle trim, plastic side steps, plastic bumpers; can also be used as an engine dressing for plastic engine parts.

Note: This product contains silicone and is not bodyshop-safe.

Recommended:

Tap for the 20 L pail **Art. No. 891.302.03**

Contents	Art. No.
500 mL	893.477500
20 L	893.477020

RAPID WINDSHIELD CLEANER



Art. No. 892.333 32 mL

Highly concentrated windshield cleaner 1:100

Contains special cleaning substances

- Prevents streaking
- Removes reflective and lubricating films
- Ensures a crystal-clear view
- Removes stuck-on insects and other soiling

Very good material compatibility

- Polycarbonate glass is not attacked
- Gentle on paint and rubber

User-friendly 1:100 concentrate

- 32 mL makes 2.5 - 3 l washer fluid
- For cars with up to 3 l wash volume

Pleasant peach scent

WINDSHIELD WASHER FLUID CONCENTRATE



Art. No. 892.332189 18.9 L

Window cleaner with antifreeze for the windshield washer system.

Improved frost protection

Reliably and effectively prevents freezing of window and headlight washer system

Outstanding, improved cleaning performance

Crystal-clear vision with winter dirt such as road salt film and oily road dirt

Easy-to-clean effect

- The even, thin wetting of the window enables easy cleaning
- Lasting cleaning, as dirt then cannot adhere as quickly

When these recommended dilution ratios are followed the resultant fluid products will meet or exceed the federal specifications outlined by the National Standard of Canada, specifically Canadian General Standards Board (CGSB) publications CAN2-3.532-M85, titled Antifreeze, Windshield Washer, Methanol

Note: Do not use full strength! Always dilute with water!

Dilution Ratios		
Parts Water	Parts Windshield Washer Fluid Concentrate	Typical Freeze Protection (°C / °F)
1	1	-40 °C / -40 °F
3	2	-35 °C / -31 °F
2	1	-27 °C / -17 °F
3	1	-18 °C / 0 °F
4	1	-12 °C / 10 °F
5	1	-8 °C / 18 °F

WINDSHIELD WASHER TABLETS



Mix Ratios:

Normal Use - dissolve 1 tablet per 1 gallon of water. (3.78L)
Bulk Glass Cleaner - dissolve 1 tablet per 3 litres of water.

Applications:

Automotive, Commercial and Fleet uses.



Art. No. 892.3344 25 x 1 g

Each super concentrated tablet will give you up to a gallon of unbelievable cleaning power!

- Triples cleaning power. Completely removes bugs, road film, dirt and grime.
- One super-concentrated tablet makes 1 gallon (3.78L) of windshield cleaner.
- Easy to use. Just add one tablet to 1 gallon (3.78L) of water.
- Winter conditions: Anti-freeze type windshield solvents are poor cleaners. For triple cleaning power with any anti-freeze windshield solvent, add one tablet. (This product WILL freeze when NOT used with an anti-freeze type windshield washer fluid in areas with freezing temperatures.)
- Safe for rubber and paint.
- Würth Instant Windshield Washer Tablets are non-toxic and biodegradable.
- Keep millions of plastic containers out of landfills and from having to be recycled.
- Contains 25 super concentrated tablets

EMPTY DISPENSING BOTTLE FOR POLISHES



Art. No. 891.468 500 mL

POLISHING PAD CLEANING BRUSH



Art. No. 585.241 250 mm

Cleaning brush for the cleaning of polishing sponges, polishing pads and lambskins

Ideal for cleaning Top Wool Pad
Art. No. 585.300100

POLISHING PUCK



Ergonomically designed for a professional manual application of waxes or dressings.

Advantages:

- The soft premium foam allows a thin and even distribution of the sealant on the surface
- Polish like a Pro – but without the costly polishing machine

Colour	Firmness	Application	Diameter	Art. No.	P. Qty
Orange	Hard	Waxing	5.1" (130mm)	585.300125	1
Black	Soft	Dressing and Cleaning	4.9" (125mm)	585.301253	

CLAY POLISHING SERIES



Clay polishing series for removing surface soils and build-up on vehicle body-works

- Easily removes surface residue and dirt on painted substrates that cannot be removed by conventional cleaning and creates a mirror-like finish
- Particularly gentle in cleaning power due to the absence of aggressive cleaning agents and low heat generation
- Saves time, energy and the cost of application
- Works on residues such as paint spray, resin, tar, insect residue, and on new and used vehicle body paint

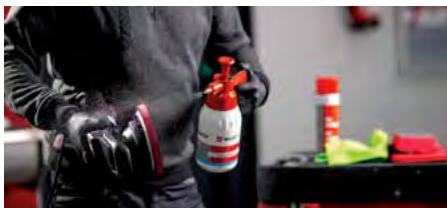
Features:

- Washable and reusable
- Easy to use and simple application

Application:

- Rinse the surface with water or pH neutral shampoo before starting the cleaning process with the clay polishing article
- The rinsed surface can then be treated with the clay polishing article making sure that the it and the surface are sprayed with water to maintain moisture on both substrates
- After cleaning, the remaining residue can easily be removed with a micro-fiber cloth before polishing or sealing the surface
- Can be used on lacquered surfaces, glass and chrome among other substrates
- Recommended initial testing in an inconspicuous area to test for substrate compatibility and to acquire optimal results

Description	Colour	Length	Width	Art. No.	P. Qty.
Clay Polishing Sponge	Red/Black	110 mm	70 mm	585.300110	1
Clay Polishing Mitt		210 mm	140 mm	585.300210	
Clay Polishing Pad		150 mm Diameter		585.300150	



WÜRTH ZEBRA FINISH



Art. No. 893.99100 473 mL

Contains an optical brightener, to give your car a "Show Room" shine!

- Its unique properties were designed to provide a safe and effective luster to prevent any swirls and scratches and leaving a high gloss look
- Perfect for removing all residue after buffing
- It allows washing without water, retrieving the natural finish on "Show Room" cars and other refinished vehicles
- Zebra Finish may be used safely on all paint finishes, chrome, wood veneer, trim and plastic parts

CLAY BAR



Art. No. 893.1571 210 g

Synthetic clay bar used for the removal of paint spray mist and soil buildup.

Features:

- Contains synthetic polymers without abrasives
- Solvent and chemical free

Benefits:

- Gentle particle removal without grinding or repolishing
- Deep cleaning of all smooth surfaces
- Stays soft, does not become brittle
- Safe for use on paints and delicate surfaces

Areas of application:

- Removal of paint spray mist and resin, tar and insect remains, especially in the detailing of new and used vehicles

POLISH START-UP KIT - BODYSHOPS



Art. No. 008.POLISH10

Description	Contents	Art. No.
Würth Canvas Bag with logo	1 pcs.	715.93610
P10 Fast Grinding Polish Plus	1 kg	893.150910
P30 Anti-Hologram Polish Plus	1 kg	893.150930
Spider Polishing Pad (7.5"/190 mm)	1 pcs.	585.307100
Soft Foam Pad (7.5"/190 mm)	1 pcs.	585.305100
Large Ultrasoft Microfiber Cloth, Grey (40 cm x 40 cm)	1 pcs.	899.900108

POLISH START-UP KIT FOR DETAILING SHOPS



Art. No. 008.POLISH55

Description	Contents	Art. No.
Würth Canvas Bag with logo	1 pcs.	715.93610
P55 Combination Polish Plus	1 kg	893.150955
P30 Anti-Hologram Polish Plus	1 kg	893.150930
Spider Polishing Pad (7.5"/190 mm)	1 pcs.	585.307100
Soft Foam Pad (7.5"/190 mm)	1 pcs.	585.305100
Large Ultrasoft Microfiber Cloth, Grey (40 cm x 40 cm)	1 pcs.	899.900108

P10 PLUS CUTTING COMPOUND



Art. No. 893.150910 1.25 L

Field of application:

- A very abrasive high-gloss polish for fast removal of imperfections in freshly painted repairs, hardened top-coats and old paint work.
- This rubbing compound gets rid of deep scratches, dust particles, orange peel and paint runs, thanks to its P1500 abrasive grain.

Properties:

Due to the Intelligent Powder Technology (IPT), paint imperfections both in scratch-resistant and in traditional paints can be polished out efficiently bringing the top finish to a high level of shine never before attained with old system polishes.

Pad recommendation:

Spider Pad Art No. 585.307100
Top Wool Pad Art. No. 585.300100



In combination with the spider pad, the P10 can be used for headlight restoration.



In combination with the polishing puck, the P10 can help remove nail scratches in the door handle area.



For an extra heavy cut, we recommend to use the P10 with the wool pad.



For a heavy cut and a high gloss in one step, we recommend to use the P10 with the spider pad.

P30 PLUS ANTI-HOLOGRAM POLISH



Art. No. 893.150930 990 mL

Suitable for:

For permanent removal of hazes, swirls and holograms on dark vehicle paintwork. Efficiently removes fine flatting marks P3000 (4µm) and slight paint imperfections on old and new paintwork. Excellent as a paint-finishing polish when the paintwork has previously been treated with a coarser grades of polish.

Properties:

- The Intelligent Powder Technology (IPT) enables a mirror-like finish unmatched by conventional polishes.
- Minimal dust creation

Pad recommendation:

Black Soft Pad Art No. 585.305100

For swirls and holograms removal, the best combination is P30 and soft foam pad.

P55 PLUS UNIVERSAL POLISH



Art. No. 893.150955 1.05 L

Suitable for:

- For use on paint-work both old and new.
- Recommended for any paint type, with the exception of matte finishes. P55 makes it possible to treat and seal the paint in only one working step. The polish has an outstanding cut and high level of gloss when polished out.

Properties:

- Removes mechanical car-wash scratches, and other imperfections in the paint easily and quickly.
- Gives the paint-work an intense depth of shine and forms a long lasting protection against environmental influences.

Pad recommendation:

Spider Pad Art No. 585.307100

Top Wool Pad Art. No. 585.300100

PINK WAX



Art. No. 893.01901 1 kg

Suitable for:

- Pink Wax is a high-gloss premium paint sealant for the fast and efficient conservation of car paints.

Properties:

- The Intelligent Powder Technology (IPT) combined with the natural carnauba wax, synthetic waxes and highly cross-linked polymers provide durable protection against the elements and ensure a rich durable gloss.
- Fine wax particles embed within the micro-crevices of the painted surface, creating a glass like finish and a brilliant depth of color.

- Easy application and removal even on hot paint surfaces without streaking.
- Leaves no microscratches behind in comparison to many waxes and sealants.

Recommended:

Polishing Puck Art. No. 585.300125

Ultra Soft Microfiber Cloth Art. No. 899.900108

Note:

The best way to apply the pink wax is manually with the polishing puck.

POSITIVE-DRIVE ORBITAL POLISHER MACHINE

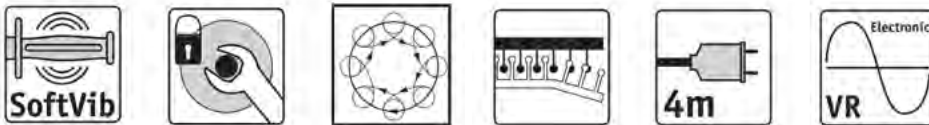
Art. No. 702.990120 - P. Qty. 1



Compact and high-performance motor. Ideally suited for hologram-free polishing.

Features:

- Compact & ergonomic
- Low weight for easy handling
- Low noise emissions
- Extremely smooth running with equalising weight
- VR microprocessor control: with tachogenerator constant speed control, soft start, continuous speed control trigger, restart protection after power failure, over-load protection, temperature monitoring and speed selection
- A tachometer generator ensures that the speed remains constant, even under loads
- Continuously adjustable speed
- Speed pre-selection for easily adjusted polishing speed
- 5/16" orbit for high efficiency
- Straightforward attachment of polishing pad
- Fatigue-free and comfortable work
- Spindle lock
- High level of user safety and motor protection
- Soft start for slow, careful start of the machine without jerking or spraying polish
- Prevents unintentional start-ups after power cuts.
- Overload protection - Increases the machine's service life
- Temperature monitoring
- Ideal for heat-sensitive finishes
- Low surface heat generation
- 10' power cord
- 1 Year Warranty on manufacturing and material defects (Flex Warranty)
- Excluded are damages caused by improper use, overloading or failure to observe the operating instructions
- Backing pad not included



SPECIFICATIONS	
Max. back-up pad diameter	7"
Velcro pad	5.5"
Speed without load	160-480 rpm
Orbit	5/16"
Orbit rate, without load	3200-9600 rpm
Power input	10.9 amp
Power output	590 watt
Weight	5.7 lbs

Speed without load	RPM
1	160/min
2	210/min
3	270/min
4	330/min
5	400/min
6	480/min



Applications:

- Vehicle detailing
- Hologram-free polishing of paintwork damage and sealing of paintwork thanks to eccentric movements and large stroke
- Removal of existing holograms and polishing smears, including on dark paintwork
- Ideally suited to removing damage from weathered paintwork with minor scratches, traces of use, smears, hairline cracks and for high-gloss polishing



Recommended:
7" Backing Pad
 Prefix: 585.30...

3" AIR COMPOSITE POLISHING KIT WITH PADS



Art. No. 703.999012K

A high quality, ergonomically designed, lightweight and compact mini polisher made out of a durable composite material. Perfect for polishing hard to reach areas and headlights.

Features:

- Compact lightweight tool permits polishing in hard to reach areas
- Ergonomically designed pistol grip handle provides extra control of movement and user comfort
- Composite body is durable and helps resist chemicals
- Blow molded case for easy storage and transport

Kit includes:

- 3" Air Composite Polisher
- 3" Hook & Loop Backing Pad
- 3" Top Wool Pad - White (Art. No. 585.2485)
- 3" Spider Pad - White (Art. No. 585.2985)
- 3" Soft Foam Pad - Black (Art. No. 585.3085)
- Spanner Wrench

Technical Information	
Spindle size	5/16 po-24T
Free Speed	2100 RPM
Air Hose I.D. Size	3/8" (10mm)
Air Pressure	90-120 psi
Avg. Air Consumption	3.5 cfm
Length	135 mm (5.3")
Net Weight	0.77 kg (1.7 lbs)



Recommended:

3" Backing Pad Art. No. 703.999112

TOP WOOL PAD



Top Wool Pads are made of twisted wool (100% wool); each strand of high grade wool fibre is tightly twisted. This allows our pad to stay at a consistent level of aggression for longer periods of operation. Thanks to the quicker and long-lasting cutting performance working with our Top Wool Pads guarantees a very efficient and time saving way of polishing.

After each use clean with Polishing Pad Cleaning Brush Art. No. 585.241

Description	Diameter (in)	Diameter (mm)	Art. No.	P. Qty.
Top Wool Pad	3"	85mm	585.2485	5
	7"	195mm	585.300100	1

SPIDER PAD



Its calibrated three-dimensional surface results in increased surface contact, a higher cut and better efficiency of abrasive particles. Polishing can be done more directly and with higher pressure and the cutting performance is absolutely consistent during the whole application

Calibrated Surface:

- Increased surface Contact
- Higher cutting rate and more spreading distance of the abrasive particles

In addition, the open foam surface results in a higher air circulation while polishing:

- Less heat is generated on the paint surface
- Higher rotational speeds are possible and a significant reduction in the polishing time

Description	Diameter (in)	Diameter (mm)	Art. No.	P. Qty.
Spider Pad	3"	85mm	585.2985	5
	7"	190mm	585.307100	1

BLACK SOFT FOAM PAD



The Black Soft Foam Pad was especially designed for the finishing process of polishing. Thanks to the product features, holograms and micro scratches can be removed safely and efficiently.

Description	Diameter (in)	Diameter (mm)	Art. No.	P. Qty.
Black Soft Foam Pad	3"	85mm	585.3085	5
	7"	190mm	585.305100	1

PREMIUM LIQUID WAX



Art. No. 893.01903 500 mL

Polymer-based speed wax that creates a perfect finish in seconds. Used in almost all smooth surfaces including paint, plastics, glass, rims and more

Features:

- State-of-the-art polymer technology
- Cleaners and glass enhancers that work in harmony
- No Silicone and non-abrasive
- Hydrocarbon free

Benefits:

- Brilliant mirror-like gloss in seconds on all smooth surfaces
- No Polishing needed: just spray-on; evenly distribute; and done!
- Lasting elimination of micro-scratches
- Durable sealing persists for weeks

GREAT FOR



PAINT

GLASS

CHROME

PLASTIC

Recommended:

Microfiber Cloth – **Art. No. 899.900107**

WASH & WAX CONCENTRATE



A super concentrated liquid Wash & Wax formulated to quickly and efficiently clean all finishes without scratching.

Features:

The Würth Wash & Wax has a unique foaming action that helps detach the dirt and road film from the surface of the vehicle. The foaming action combined with the wax lubricate the surface to help prevent unwanted scratches.

The water-based formula and balanced pH make the product safe for all types of surfaces including paint, chrome, glass, rubber, plastic and vinyl. Contains wax that intensifies shine and increases beading action. Bodyshop safe, VOC compliant and phosphate free.

Recommended: Tap for the 20L pail **Art. No. 891.302.03**

Note: Do not wash vehicle in direct sunlight. Mix as directed. Over concentration can lead to unwanted streaking.

Contents	Art. No.
4 L	893.010004
20 L	893.010020

ECO CAR WASH ULTRA CONCENTRATED



Environmentally-friendly light vehicle wash and road film remover.

Features:

- EcoLogo certified & completely biodegradable.
- VOC and phosphate free
- Highly concentrated and effective
- Removes stubborn film, exhaust deposits, and bug residues on cars
- Breaks magnetized bond attaching dirt to surfaces
- Non-streaking

Benefits:

- High concentration saves you time and energy
- Water sheets off to minimize spotting and dry time, leaving a streak-free shine

Areas of Application:

Ideal for cleaning cars, SUVs, motorcycles, and any other types of light vehicles.

Contents	Art. No.
4 L	893.030104
20 L	893.030120
210 L	893.030122

ECO CARGO WASH ULTRA CONCENTRATED



Environmentally-friendly heavy duty vehicle wash and road film remover. Eco Cargo Wash breaks the magnetized bond holding dirt to the surface.

Features:

- EcoLogo certified & completely biodegradable.
- VOC and phosphate free

- Powerful washing and quick cleaning
- Removes stubborn film, exhaust deposits, and bug residues on truck cabs and trailers
- Breaks magnetized bond attaching dirt to surfaces

Benefits:

Powerful washing and quick cleaning saves you time and energy

Contents	Art. No.
4 L	893.030114
20 L	893.030130
210 L	893.030132

CARGO BASIC CLEANER



Art. No. 893.036030 30L

Alkaline foam cleaner for basic cleaning of commercial vehicles and chassis showing high degree of soiling.

30L pail can be disposed off through the Recycling system

No problems regarding disposal!

No troublesome pre-mixing by using the foaming unit, mixing the cleaner with a guaranteed optimum mixing ratio of 1:30 (not the conventional 1:10 ratio)

Saving time and material by accurate mixture!

High washing power at short reaction time of max. 5 minutes

Saving time needed for cleaning, i.e. the vehicle can be put on the road again quicker!

pH- value: 13.2



Tap for Cargo Basic Cleaner
- Art. No. **997.225191**

ECO BOAT AND SHIP WASH



Boat and ship cleaning solution with new surfactant technology that provides incredible wash and rinse-free results.

Features and Benefits:

- Easily removes dirt, grease, oil, lime scale, algae residue, mineral deposits, and road film that is magnetically bonded and is completely compatible with clear coat treated surfaces.
- This product carries a unique sudsing profile that prevents residual buildup of detergent.
- It also rinses off with no beading of water left behind that will cause spotting.
- Dries fast and leaves no hazy after-film.
- Can be diluted up to 150:1 depending on the level of soiling that needs removing.

Applications:

Safe to be used on all surfaces such as fiberglass, vinyl, metal, glass, plastic, rubber and painted surfaces.

Washing can be done by hand, by power wash, or deck brush.

Size	Version	Art. No.
20 L	Concentrate	893.030135

Technical Data	
Colour	Light Orange
pH	10.5 to 11.5
Dilution	Can dilute up to 150:1 based on requirements

TOP GUN PREMIUM CLEANING GUN



Innovative technology for less wear, economical consumption of cleaning agents and improved performance.



Use the extra cup **708.891440** to store liquid cleaners when not in use.



Spare Parts:

Front Plastic Nozzle **891.703141 *NEW!***
Red Tube Nozzle **891.703142 *NEW!***

Art. No. 891.703140

Powerful cleaning gun for interior and exterior detailing of vehicles.

Features:

- Improved technology for better performance
- Ball-bearing drive creates a vortex effect
- Air and cleaning agent supply can be manually adjusted
- Dirt is lifted by the resulting suction
- Suitable for removing dirt such as nicotine staining, footprints, road salt tide marks, dog hairs, etc., from vehicle interiors and exteriors
- Articulated connection for more flexible handling (ideal for hard-to-reach places)

Benefits:

- Cleans more thoroughly and effectively
- Micro-atomization results in effective use of cleaning agent
- Dirt is removed extremely quickly
- For use with many Würth cleaning agents

Areas of application:

Rims, door entrances and door trim panels, ventilation ducts, instrument panels, upholstery and headliners, gear shift boots, fuel tank filler necks, license plates and all hard-to-reach places, including outside the vehicle

Recommended cleaners

ECO Super Spray All

Art. No. 890.90904 (4L)

ECO Industrial Degreaser Concentrate

Art. No. 893.117103 (4L),

Art. No. 893.117106 (20L)

ECO Textile Cleaner Concentrate

Art. No. 893.117121 (4L)

Note: TOP Gun premium cleaning gun does not come with the flexible connecting adapter.



SP1 FOAM GUN



Eco Cargo Wash, 20 L
Art. No. 893.030130 P. Qty. 1

Eco Car Wash, 20 L
Art. No. 893.030120 P. Qty. 1

Engine Wash
Art. No. 893.013... P. Qty. 1

Areas of application:

Cars, trucks, buses, construction machines, land and forestry, vehicle preparation, building facade cleaning, equipment maintenance and much more.

Application:

Remove loose dirt from the surface to be treated. Fill the supply tank of the SP1 Foam Gun with cleaning agent according to the mixing specifications from the manufacturer. Screw on the appropriate diffuser, depending on the application. Connect the compressed air. Rotate the green lever to the vertical position to open access to the cleaning agent. Cover the object in foam, allow the cleaner to work in (but not dry) and then rinse thoroughly with water.

Note:

Do not use cleaning agents that contain acids, bases and/or are easily flammable. We recommend using Eco Cargo Wash, Eco Car Wash or Engine Wash. A constant air pressure of 6-8 bar (87-116 psi) is required for optimum output utilization.

Important:

After using the SP1 Foam Gun, fill the tank with water and rinse out the gun to remove cleaning agent residue from the unit. Then turn the green lever to the horizontal position and pull the trigger to remove the remaining water from the unit head.

Art. No. 891.703128 – P. Qty. 1

For intensive foam cleaning of surfaces and parts.

Non-runny, firm foam.

Great cleaning power. Loosens stubborn dirt reliably and quickly.

Highly effective.

Efficient use thanks to visible application of the cleaning agent. Optimum foam yield.

Environmentally-friendly.

Minimal waste water contamination thanks to conservative use of the cleaning agent.

Easy to use.

Ready for use in a short amount of time.

Two diffusers.

Can be used over small or large areas.

Technical Data	
Air consumption	80-100 L/min. at 6.0-9.2 bar
Pneumatic connection	R 1/4"
Working pressure	6.0-9.2 bar
Weight	950 g
Filling volume	1 L



ECO ALUMINUM WHEEL CLEANER



Powerful, non-corrosive aluminum wheel cleaner

Eco-Logo certified

- Completely biodegradable
- Made from 100% sustainable resources
- VOC free
- Completely soluble in water
- A better choice for your health and for the environment

Acid-free

- Non-caustic, non-corrosive
- Creates absolutely no harsh vapours
- Gentle on materials and surface finishes
- Particularly well suited for polished and high quality alloy wheels

Powerful cleaning

- Foaming action allows longer dwell time
- Dissolves brake dust, road salt, dirt and tar
- No abrasives that could scratch the finish

Easy to use

- Spray on and rinse off
- Ready-to-use formulations

Areas of Application:

- Automotive and Trucking
- Efficient cleaning of steel and aluminum rims, aluminum trim on trailers, trucks, etc.
- Metal and Maintenance industries
- Cleans stainless steel, terrazzo, quarry tiles, aluminum, copper, concrete and brick
- This product is also a non-corrosive all-purpose cleaner for the removal of stubborn water scale, soap scum, rust stains, grease, mildew and mold

Recommended:

Replacement Sprayer for 500 mL & 1 L Eco Products Bottle **Art. No. 891.502200**

Contents	Colour	Art. No.
500 mL	Green	890.10250
4 L		890.10204
20 L		890.102020
500 mL	Empty Bottle	891.10250

ALUMINUM WHEEL CLEANER



Art. No. 890.102 500 mL

Special acidic cleaner for light metal rims

Contains phosphoric acid

Benefits:

- Removes even the most stubborn deposits of brake dust and tar stains, and other hard-to-remove contaminants
- Saves time and money
- Regular application serves to retain the original appearance. Helps to prevent the adherence of new contaminants.

Area of application:

For the rapid cleaning of light metal rims.

pH-value: 1.0

AOX-free¹, silicone-free¹

AOX = adsorptive organic halogen compounds, such as fluor, chlorine, chlorinated hydrocarbon, tri, per, etc.

Note:

Use only on light metal rims. Do not use on hot rims or in direct sunlight. Do not spray onto vehicle paint, chrome, highly polished aluminum, plastics or other surfaces.

TIRE DRESSING



Gives tires a dark, long-lasting, clean shine

Features:

Würth Tire Dressing is a water-based, solvent-free, and VOC free formula that provides great shine for tires. Würth Tire Dressing can be easily sprayed, and has great cling to keep it on the tires. It provides great gloss that lasts several weeks. Will not attract or hold dirt.

Contents	Art. No.
500 mL	890.121500
4 L	890.121004
20 L	890.121020

Recommended: Tap for the 20L pail **Art. No. 891.302.03**

Note: This product contains silicone and is **not** bodyshop-safe. Please use our **Silicone Free Tire Shine Art. No. 890.1215** for any environment where silicone can cause problems.

TIRE SHINE



Art. No. 890.12104 4 L

Excellent cleaner and tire shine

- Water-based formula will not cause micro-cracking of the tire surfaces
- Leaves tires shiny and black, looking like new
- May also be used on other exterior rubber to improve appearance
- Contains no VOCs
- pH: 9.6
- This solvent-free formulation is a better choice for your health, and for the environment

FOAMING TIRE CLEANER



Art. No. 890.121 412 g

Maintenance product for tires

- Cleans, maintains and protects
- Prevents cracking and protects from embrittlement
- UV-protection prevents premature fading
- Improves appearance
- Anti-static
- Contains no solvents
- Does not attack aluminum rims or painted surfaces
- Contains silicone
- Can be used on wet or dry tires

Application:

- Wash off any mud or dirt from tire walls
- Spray foam evenly on tire walls and allow to dry
- No polishing needed
- Do not spray on tires for motorbikes, brake discs, drums or tire treads

SILICONE-FREE TIRE SHINE



Art. No. 890.1215 306 g

This tire shine contains no silicone, is made out of natural ingredients, is VOC compliant, biodegradable, and has a non-ozone depleting propellant.

Features:

- The Silicone Free Tire Shine from Würth doesn't contain any silicone and is not water based. It contains natural ingredients that enhance its performance.
- When applied, the ingredients seep into the pores of the tire surface, enriching, softening and deepening the black color.
- It builds and holds the shine longer, and at the same time repels inclement weather.

NON-FLAMMABLE BRAKE & PARTS CLEANER



A high quality, non-flammable and non-conductive, chlorinated hydrocarbon solvent that offers maximum degreasing performance. Removes accumulations of grease, oil and dirt with no residue.

Features:

- To clean and degrease drum and disc brake parts, as well as heavy equipment's parts.
- Also suitable for cleaning electrical equipment including: alternators, distributors, dynamos, switches, relays and regulators and small electric motors.

Benefits:

- Fast acting
- Removes grease, dirt and contaminants
- Completely evaporates and leaves no residue
- Non-conductive
- Reduces brake squeal
- No flash or fire point

Specification	
Appearance	Clear, colourless
Specific Gravity (@ 21°C, aerosol)	1.65 ± 0.02
Non-Volatile (Aerosol, % by wt)	0% (w/w)
V.O.C. (Volatile Organic Compounds) level	0% (w/w)

Description	Contents	Art. No.
Non-Flammable Brake & Parts Cleaner	18.9 L	890.108724
	525 g	893.91090

BRAKE AND PARTS CLEANER



This highly concentrated solvent blend provides maximum performance brake & parts cleaner without the use of ozone diminishing or chlorinated solvents

- Silicone free
- Lead free
- Powerful blasting spray easily removes dirt & brake dust deposits, brake fluid

Contents	Art. No.
4 L	890.108734
18.9 L	890.108729
18.9 L Refillomat	890.108718
408 g Aerosol	890.9107
20 L Refillo	890.108720

PUMP SPRAY BOTTLE FOR BRAKE & PARTS CLEANER



Art. No. 891.503002 1 L

For easy filling of products from canisters or drums.

Features:

- Easier to open, thanks to non-slip grip
- Ergonomic, robust pump spray atomizer with long handle

Benefits:

- Fatigue-free working thanks to low operating force
- Strong spray stream
- Good stability thanks to conical shape

Specifications	
Material	Polyethylene
Diameter	100mm
Height	275mm

TAP FOR BRAKE CLEANER



Art. No. 891.302.03

Tap for 18.9 litre Brake Cleaner

BRAKE SADDLE BRUSH - 9"



Art. No. 715.5526

Material: Chrome-Vanadium.

Chrome finish.

Length: 229 mm / 9"

Weight: 140 g

Benefits

- Has a narrow frame allowing it to be used in tight areas
- Heavier than normal steel bristles (chrome-vanadium) for quick removal of debris and longer life
- Hard handle makes it easy to hold even while covered in chemicals and fluids

Applications

- Excellent for cleaning debris/rust from calipers and caliper brackets/brake pad holders quickly
- Great for cleaning the tight areas around wheel hubs/wheel studs
- Good general purpose wire brush
- Great in any tight area that a regular brush won't fit

BRAKE CLEANER PLUS



Art. No. 890.10810 / 358g / P. Qty 24

Made in the Netherlands with a unique formulation designed for the safe and fast cleaning of disc and drum brakes. Can also be used for general cleaning of most surfaces where oil or grease is present.

Application:

Brake pads, clutch, shoes and linings. Oil, dirt and friction material dust. Breaks down tough products like; cavity protection, underbody seals and high performance greases.

Isopropyl alcohol based.

- Does not contain chlorhydric acids, C.F.C. or aromatics
- Provides optimum cleaning with fast evaporation
- Eliminates brake squeal and clutch slip caused by contamination

360° Spray nozzle.

- Gets into tough to reach areas
- No loss of pressure or stream when spraying at different angles

Material compatibility.

- O-rings
- Polypropylene (PP)
- Ethylene-propylene diene monomer (EPDM)
- Acrylonitrile butadiene styrene (ABS)
- Polystyrene
- NBR O-rings
- Paint / 2K Acrylic

Specifications	
Base	Mixture of Petroleum Distillates (n-heptane ~85%)
Additional	Isopropanol
Pressure	8.4 bar
Output ratio	51.4g / 10 seconds
Spray Pattern	Angled spray stream
Colour	Colourless
Odour	Mild
Density at 20°C (g/ml)	0.71
Anti-static	Yes
AOX-free	Yes
Silicone-free	Yes

Note: Check rubber and plastic parts prior to application for compatibility.

MULTICLEAN



Colour	Contents	Art. No.
Colourless	308 g	890.1096

Fluid for cleaning and temporary lubrication in physiologically and ecologically sensitive areas

- Can be used in areas in which food is processed or stored. NSF H1¹
- In this context, the product may come into contact with foodstuffs for occasional, technically unavoidable reasons.

Good cleaning and degreasing performance

- Removes oils, resin encrustations and silicone residues

No danger symbols such as F+, F, N or Xi

- Suitable for use in physiologically and ecologically sensitive areas
- Safe working

Good material compatibility

Acetone free

AOX- and silicone-free

¹NSF = Internationally recognized organization for the supervision and registration of products used in the food sector.

Areas of Application:

For residue-free cleaning and degreasing during assembly and maintenance work on machines, aggregates and tools in critical areas of the printing and paper industries as well as for applications in which the use of easily and highly inflammable cleaners is not desired.

Technical Data	
Chemical basis	Aliphatic hydrocarbons
Density at 20 °C (active substance)	0.77 g/cm ³
Flash Point	40°C

ASSEMBLY POWER CLEANER



Contents	Description	Art. No.
355 g	Aerosol	890.107

Highly effective special cleaner including solvents.

Very high cleaning performance

Extremely effective in removing oily, greasy, sooty and slightly resinous contaminants

Short flash time

- Rapid cleaning that leaves no residue
- Short downtimes for the machine parts to be treated
- No need for subsequent treatment

Good material compatibility

- No swelling of FKM and polyamide seals
- Causes no corrosion to metal surfaces or to iron, steel, stainless steel, aluminum, brass

Spray head with direct spray jet

Precise and effective cleaning of the contaminated parts

Acetone-free

AOX- and silicone-free

Areas of Application:

For the cleaning of engine and gearbox casings, brake systems and vehicle, machine and coupling parts for maintenance, repair and assembly work.

Technical Data	
Chemical base	Aliphatic hydrocarbons
Colour	Transparent
Density	0.710 g/cm ³ at 20 °C
Flash point	< 21 °C
VBF class	A1

Recommended:

O-Ring Repair Kit for Pump Bottles

Art. No. 891.599

INDUSTRY CLEANER



Contents	Description	Art. No.
370 g	Aerosol	893.140

High-quality special cleaner for industry and craft trades.

Powerful cleaning and dissolving properties.

Adhesive residues from labels and adhesive tape are removed. Stubborn soiling like wax, rubber abrasion, silicone residues, oil and grease are dissolved.

Compatible with most materials.

Unpainted surfaces like aluminum, brass, stainless steel and metallic surfaces are not attacked.

User friendly.

No unpleasant odours for user and environment. Fast, effective cleaning.

Acetone-free.

AOX- and silicone-free.

Application:

Removes adhesive tape residues, adhesive residues from paper and foil labels. Cleans machine parts, plastic parts and metallic surfaces. Dissolves various marking inks, e.g. permanent markers, on smooth, non-absorbent surfaces. Removes fingerprints following assembly work. For pre-cleaning of adhesive bonds. Also suitable for removing protective preservatives, e.g. on brake discs.

Technical Data	
Chemical basis	Special petrol with d-limonene
Flash point	< 10°C (50°F)
VBF Class	A1
Colour	Transparent

Note: Check rubber and plastic parts for compatibility in an inconspicuous location prior to treatment. Paints may be attacked

BIOLOGICAL DRAIN TREATMENT



Art. No. 893.12004 – 4 L

This ready to use biological drain opener treatment cleans and eliminates odours fast by a natural enzymatic process promoting rapid liquefaction of grease and waste buildup

Features:

- The formulation of the Würth Biological Drain Treatment provides quick liquefaction of waste deposits, followed by microorganisms that attach to drain surfaces and organic deposits like tiny magnets. Once attached, they go to work, digesting organic deposits, grow and multiply to produce billions of additional workers.
- This biological process continues to work until the job is finished. Some microorganisms migrate further down the line treating additional pipe surfaces and grease traps and assisting to treat receiving waste streams and septic systems.

Benefits:

- Specifically designed for waste and drain applications.
- Promotes fast liquefaction by a natural enzymatic process
- Eliminates odours
- Reduces drain line maintenance and grease trap cleaning.

IPA SURFACE PREP AND CLEANER



Universal isopropanol surface prep and cleaner

Features:

- A high-grade isopropyl alcohol solution used for surface preparation and as a general cleaner.
- Highly effective solvent evaporates quickly and leaves no streaks on bare metal or glass surfaces.
- Safe for most sensitive surfaces, including most plastics.

Applications:

Ideal for final preparation, cleaning and degreasing of all substrates prior to adhesive bonding, including for adhesive wheel weights. Excellent as a light general-use cleaner. Removes a wide range of contaminants, such as dust, adhesive residue, labels, fingerprints, grease, bitumen, resin, ink, solder and flux residue, as well as uncured PU foam.

Designation	Contents	Art. No.	P. Qty.
Aerosol	409 g	893.223500	1

WÜRTH SHAMMY ABSORPTION TOWEL



Art. No. 899.800205



Excellent absorption and liquid retention

Size: 16.5 x 25 in
42 x 63 cm

Characteristics:

- Absorbs 50% more fluids three times faster than typical cloths
- Made of PVA with an anti-mold solution

Application:

Indicated for any type of surface, such as cars, trucks, boats, household, for drying pets and even yourself after exercising

MICROFIBER CLOTH



Art. No. 899.900108

Grey ultra soft Microfiber cloth 40 x 40 cm

Benefits:

- Extremely fleecy micro-fibre universal cloth with excellent dirt capturing characteristics
- Ideally suited as a polishing cloth on delicate paint surfaces
- Most suited for the removal of dust from interior surfaces due to its compact fibre structure
- High absorbency thus suitable as a drying cloth on all surfaces
- Velour edges – prevents micro scratches

BLUE MICROFIBRE CLOTH



Designation	Dimensions	Art. No.	Qty.
Microfibre Cloth Blue	36 cm x 32 cm	899.900107	1

Quality laboratory-tested by various vehicle manufacturers.

Features:

Extremely high cleaning power

- Faster application
- Cleans streak and lint-free
- Attracts dust with static effect

Cleans without using cleaning agents

- Reduced costs
- Optimally suited for polishing work
- Gentle to the environment
- Protects against allergies

Extremely fine, strong fibres

- Excellent sliding properties
- Hologram-free high-gloss polishing
- Long life

Specially developed surface structure

Does not leave behind scratch marks, fluff or silicone

Easy to care for

- Simply air-dry after use
- Washable at up to 60°C (do not wash with fabric softener)

Application:

The microactive cloth is optimally suited for maintenance cleaning and vehicle detailing. When dry, the cloth attracts dust and fine deposits like a magnet thanks to its static charge. Coarse and greasy dirt is removed by moistening the cloth before use.

Technical Data	
Absorption in 10 sec.	702.50%
Max. absorption	704.30%
Total absorption time	30 sec.
Weight per square meter	35.8 g ± 0.5 g
Fibre composition	PET/PA microfibre

SOFTEX CLOTHS



- The super-soft textile cloth.
- Can be used as a polishing cloth.
- Extremely tear resistant, even when wet.
- Solvent-resistant.
- Silicone-free.
- Very absorbent.
- Washable, wringable and reusable.
- Safe for use with food items.

Design	Size in cm	Weight in g/m ²	No. of sheets	Art. No.
White, 1-ply, individual cloths	29 x 38	65	50	899.800901
			500	899.800901.BK

UNIVERSAL JUMBO SWABS ASSORTMENT



Art. No. 899.574

Can be used to lubricate, clean and apply paint on mechanical parts, fittings, tubing, threads, gaskets and much more!

- Does not lint
- Industrial grade
- High absorption
- Handles made out of strong bamboo.

Applications

Paint, oil, grease, graphite, cleaners and various chemical application and removal. Ideal for scrubbing and cleaning parts, tubes, ports, chambers and more. In addition to paints and chemicals, the swabs can also be used to clean paint guns, pneumatic tools and other equipments.

Other industry uses also include electronics repair, arcade type machines, weaponry, animals, home / kitchen, etc. The Swab set provides an inexpensive alternative to rags and small applicators.

Can be used in all industries: Automotive, Bodyshops, Detailing, Industrial, Commercial, MRO, Firearms

Length	Diameter	Contents
75 mm	5 mm	100 Swabs
150 mm	6.5 mm	100 Swabs
150 mm	10.5 mm	50 Swabs
150 mm	12 mm	25 Swabs
235 mm	15 mm	25 Swabs
235 mm	20 mm	25 Swabs

UNIVERSAL CLEANING WIPES



Art. No. 890.900900
(90 wipes)

Benefits:

- Convenient dispensing method makes clean-up quicker and more efficient
- Eliminates the need for paper towels, shop rags, or water
- Container stacks better and is easy-to-grip with one hand
- VOC-free solution, versatility and dispensing size make this environmentally friendly

Dimensions: 10" x 12"

Areas of application:

- Removes residue from hands
- Tools, equipment, and work area
- Virtually all hard surfaces

A powerful, solvent-free, durable hand cleaner & towel combination.

Features:

- Smooth, perforated, pop-up towels saturated with a unique, heavy-duty cleaning solution
- Small, sleek container
- Solvent-free
- Light Citrus fragrance
- Dissolves grease, grime, oil, lubricants, paints, tar, inks and more
- VOC-free
- Made from polypropylene material

UNIVERSAL CLEANING WIPES WITH SCRUBBER



Art. No. 890.900901
(90 wipes)

These wipes contain the same powerful hand cleaner as the Universal Cleaning Wipes, but feature a dual-textured towel with purple scrubber for deeper, faster cleaning.

Dimensions: 9" x 12"

Additional tools:

Wall Mounting Bracket **Art. No. 899.900900**

CLEANING TOWELS



- Very absorbent.
- Suitable for all common dispensers.
- In various plies and widths.
- Made from 100% recycled paper.

Design	Sheet Size	Tear off sheets	Art. No.
Industrial towel, blue, 2 ply	36 x 38 cm	1000	899.800773
Industrial towel, blue, 3 ply	36 x 38 cm	1000	899.800823
General purpose towel, white, 1 ply	Roll: 30 cm x 19 cm	865	899.800653

DISPENSING DEVICE



Art. No. 899.800606

- With wheels and garbage bag holder.
- Product not included

Width	Height	Depth	Max. roll width	Colour
50 cm	86 cm	68 cm	38 cm	Red

UNIVERSAL ABSORBENT ROLL



Universal rolls that absorb oils, coolants, solvents, water and much more!

Features & Benefits:

- Dimple bond pattern increases the physical strength of the polypropylene in every direction
- Vertically perforated providing flexibility and reduced cost-in-use
- Package in a convenient and sturdy dispenser box
- Designed for standard-use applications
- Offers great wicking and overall performance
- Disguises grime and unsightly spills - help keep your facility looking clean
- Can be used as a liner to keep shelves and tools clean and free from grime

Applications:

Automotive shops, garages, restaurants, office buildings, under machinery or vehicles to catch leaks and drips, workstations and anywhere leaks are common.

Description	Dimensions	Art. No.	Per Package	P. Qty
Universal Absorbent Roll - Medium Weight	15" x 75'	885.8919	1 Roll	1

* Replaces 885.8916*

Technical Information:	
Product Width (in.)	15"
Product Width (cm)	38 cm
Product Length (ft.)	75
Product Length (m)	25
Sheets per roll	75
Product Colour	Grey
Bonding/Embossing	Dimple
Ply Count/Layers	2
Product "Weight" / Density Weight	Medium weight
Total Absorbency (Gal)	10 Gal
Total Absorbency (L)	38 L

HIGH-VISIBILITY SAFETY UNIVERSAL ABSORBENT



Universal multi-use pad that combines an absorbent with caution/warning sign

Features:

- 2-ply construction
- 150 perforated large sheets per roll (300 half sheets)
- 1 roll = 32" x 150' ; 1 large sheet = 32" x 12" ; Half sheet = 16" x 12"
- Dimple bond
- High-visibility colour warning

Benefits:

- Absorbs most acids, caustics, solvents and common fluids including oils and water
- Instantly warns customers and visitors of any spill
- Ideal for high-traffic areas where risk for slips, trips and falls are present
- Can be used with or without a "Caution: Wet Floor" sign
- Easily cut to fit desired length

Suggested Uses:

- Automotive shops, garages, restaurants, office buildings, under machinery or vehicles to catch leaks and drips, workstations and anywhere leaks are common.

Description	Dimensions	Art. No.	Absorbency per pkg. roll
High-Visibility Roll	32" x 150'	899.900960	46 Gallons

OIL ONLY ABSORBENT PADS



Description	Dimensions	Art. No.	P. Qty
White Oil Only Pads	16" x 18"	885.8918	100 sheets = 1 box

Economical choice for OIL ONLY spills

Features & Benefits:

- Absorbs petroleum based liquids and repels water
- Oil-only sorbents are white in color, which creates a high-contrast when used with hydrocarbons and other oil-based liquids & fluids
- Packaged in a convenient and sturdy dispenser box
- Spun bond on both sides gives superior strength
- Fluids absorbed: hydrocarbons, oil, gasoline, fuel oil, diesel and lubricating oil
- Virtually lint-free
- Highly adsorbent melt blown polypropylene center for cost-effectiveness

Applications:

Automotive shops, garages, restaurants, office buildings, under machinery or vehicles to catch leaks and drips, workstations and anywhere leaks are common.

Technical Information:	
Product Width (in.)	16"
Product Width (cm)	41 cm
Product Length (in.)	18
Product Length (cm)	46
Product Colour	White
Bonding/Embossing	Dimple
Ply Count/Layers	1
Product "Weight" / Density Weight	Medium
Total Absorbency (Gal)	24 Gal
Total Absorbency (L)	91 L

UNIVERSAL ABSORBENT PAD



Description	Dimensions	Art. No.	P. Qty
Universal Absorbent Pad - Heavy Weight	16" x 18"	899.900968	100 sheets = 1 box

Universal pads that absorb oils, coolants, solvents, water and much more

Features & Benefits:

- Dimple bond pattern increases the physical strength of the polypropylene in every direction
- Vertically perforated providing flexibility and reduced cost-in-use
- Package in a convenient and sturdy dispenser box
- Designed for standard-use applications
- Offers great wicking and overall performance
- Disguises grime and unsightly spills - help keep your facility looking clean
- Can be used as a liner to keep shelves and tools clean and free from grime

Applications:

Automotive shops, garages, restaurants, office buildings, under machinery or vehicles to catch leaks and drips, workstations and anywhere leaks are common.

Technical Information:	
Product Width (in.)	16"
Product Width (cm)	41 cm
Product Length (in.)	18
Product Length (cm)	46
Product Colour	Grey
Bonding/Embossing	Dimple
Ply Count/Layers	1
Product "Weight" / Density Weight	Heavy Weight
Total Absorbency (Gal)	27 Gal
Total Absorbency (L)	103 L

ECO ABSORB



Weight	Absorption	Art. No.	Equivalent
1.8 kg	10 L	890.620020	80 lbs. of Clay



Reduce waste and increase productivity.
Eco Absorb absorbs 20 times more than traditional absorbent clays and powders.

Non Toxic

100% Organic. Carcinogen-free. Silica-free.

Save Time and Money

Absorbs on contact. Eco Absorb works quickly to ensure a dry, non-slip area in seconds.

Easy Disposal

Exceeds Federal EPA Leachate Standards. Just cleanup and throw away.

Non-Abrasive

Eco Absorb will not cause scratches, so equipment or floors will never be damaged.

Dust Free

Carcinogenic clay dust is a thing of the past; Eco Absorb is dust free and will not track all over your workspace.

Improves Workplace Safety

Eco Absorb absorbs 20 times more than traditional absorbent clays and powders completely encapsulating the spill. It reduces the impact of spills and prevents further hazards from slippery residue, by leaving behind no drips or streaks.

Reusable

Eco Absorb will not leach, making it landfill safe. You can use it again and again.

Less Waste

Compared to traditional clay absorbents, Eco Absorb produces one third less waste when used due to its super absorbent qualities.

Applications:

- Brake fluid
- Motor oil
- Fuel & Diesel
- Coolant
- Antifreeze
- Solvents
- Carbon black
- Transmission fluid
- Detergents
- Degreasers
- Paint & Paint Thinners
- Household fats, oils and greases

Industries:

- Automotive
- Marine
- Oil & Gas
- Waste Management
- Food Industry
- Fleet Management
- Mining
- MRO
- Rail Industry
- Paint Industry
- Fabrication
- Hospitality
- Public Works
- Home & Health Care



SHOP ONLINE NOW!

SHOP.WURTH.CA

16 VEHICLE REPAIR & COMPONENTS

2 Wiper Blades & Windshield Repair

4 Vehicle Protection

7 Underbody Protection

12 Wheel & Tire

- 12 Wheel Hub Cleaning Tool & Discs
- 12 Stud Cleaning Tool & Brushes
- 13 Tire Mounting, Repair, & Tools
- 25 Wheel Weights, Balancing Beads, & Tools
- 41 Mount/Dismount Heads
- 41 Wheel Nut Flags & Safety Locks
- 42 Tire Valves, Valve Cores, & Tools
- 44 Air Gauges & Chucks
- 47 Tire Pressure Monitoring System (TPMS)
- 47 Tire Crayons

47 Brakes

- 47 Brake Protection
- 51 Brake Fluid Testers
- 53 Brake Line, Nuts, & Bleeder Screws

56 Engine & Exhaust

- 56 Metal Repair Epoxy
- 57 Injector Cleaners & Air Intake Cleaners
- 59 Engine Shampoos

61 Body Repair

- 64 Fillers, Putty Knives & Mixing Boards
- 68 Seam Sealers & Waterproofing
- 73 Plastic Repair
- 74 Dent Repair
- 79 Sound Deadening Pads
- 80 Amo Bag Air Wedge

80 Air Conditioning

- 80 Leak Detection Kit
- 82 High Powered UV Light
- 83 Injection Kits & Systems
- 84 Dyes & Dye Cleaners
- 85 Leak Sealants
- 85 A/C Performance Enhancer
- 86 A/C Lubricants, Oils, & Refrigerants
- 87 A/C Assortments
- 91 A/C Flush
- 93 A/C Components
- 94 A/C Tools

95 Commercial Vehicle

- 95 Circuit Testers
- 97 Glad-Hands
- 98 Tow Straps & Ratchet Assemblies
- 99 Winches & Winch Straps
- 100 Rubber Ties & Tenders
- 100 Sockets & Plugs
- 101 Air coils
- 101 Air Power Line 3 in 1
- 102 Charge Air Coolers Hose

TRADITIONAL WINDSHIELD PASSENGER WIPER BLADE



Value performance leader

Features & Benefits:

- Corrosion resistant, all metal, riveted frame structure
- Compression molded rubber with moly coating to optimize quality of wipe and durability
- Twin stainless steel flexors provide even pressure distribution between all contact points
- Universal, pre-installed adapter
- Plastic bushes at all metal-to-metal links prevent noise and excessive play

Length (in.)	Art. No.	P. Qty.
13	848.020131	2
15	848.020151	
16	848.020161	
17	848.020171	
18	848.020181	
19	848.020191	
20	848.020201	
21	848.020211	
22	848.020221	
24	848.020241	
26	848.020261	
28	848.020281	

PROCURVE WINDSHIELD PASSENGER WIPER BLADE



Designed for improved performance

Features & Benefits:

- Unmatched ease, safety, and connection profiles
- Rigid primary and flexible secondary in frame design gives even pressure distribution
- Integrated wind spoiler and wrap around shield on top and bottom of the frame
- Reduces snow clogging and icing

Length (in.)	Art. No.	P. Qty.
16	848.091161	2
17	848.091171	
18	848.091181	
19	848.091191	
20	848.091201	
21	848.091211	
22	848.091221	
24	848.091241	
26	848.091261	

WIPER BLADE WALL RACK



Art. No. 966.700008 - P. Qty. 1

Point of Purchase Display

Features & Benefits:

- Wall racks are a great way to attract new customers, keep service bays or stores clutter free, and to keep inventory organized and displayed
- 50 blade capacity
- 8 facings
- 25" across
- Assembly required
- Instructions included
- Wiper blades sold separately

NEW

WIPER BLADE FLOOR RACK



Art. No. 966.700023

Point of Purchase Display

Features & Benefits:

- Floor racks are a great way to attract new customers, keeping service bays or stores clutter free and keeping inventory organized and displayed
- 80 blade capacity
- 16 facings
- 72" x 25" x 25"
- Assembly required
- Instructions included
- Wiper blades sold separately

WINDSHIELD REPAIR KIT



Art. No. 964.893750

For use on all laminated windshield glass

- Each kit is ready to make 10 repairs

Features:

- Simple to use and maintain! Most other windshield repair systems require multiple seals and "O-rings". Our system requires only one seal.
- The bridge is equipped with a vacuum cup, others use suction cups. The vacuum cup allows complete 360 degree adjustability.
- Our kit includes a pit location device called a centering tool that ensures the injector barrel is straight over the centre (pit) of the break, without the need to view down the barrel for those hard to reach and see spots.
- No extra pumps or hoses needed in our kits.
- Kits come complete with everything needed to professionally repair all types of repairable windshield damage such as Star, Bull's-eye, Combination breaks and cracks.
- One-shot high quality repair resin

Suitable For:

- Laminated automotive glass
- Vertical repairs
- Edge repairs
- Curved glass
- For the repair of Star, Bull's-eye, Combination breaks and cracks

*** Please refer to your instruction manual more detailed information.**

*** All items in the kit are also available to order separately**

See our demo on YouTube!

*** Please keep the kit and contents out of direct sunlight***

Kit Contents

Art. No.	Description	Qty.
891.634425	LED UV LIGHT (requires 1 lithium battery, #827.805600 that comes in the kit and also available separately)	1
891.634432	LED light stand	1
899.900107	Micro fibre cloth	1
891.634420	Windshield repair Resin (one shot 5pack)	2
899.103132	Safety Glasses Trendus Clear	1
891.634423	Curing tabs - 100 pack	1 pack
891.634451	Bridge assembly	1
893.0000	Pit Polish	1
891.634422	Premium Pit Resin	1
714.70150	Scribe Steel Point	1
891.634441	Centering Tool	1
714.663200	Razor blade holder	1
715.35795	Inspection Mirror	1
899.470329	Black Nitrile Gloves Large	5 pairs
891.634438	Injector Seals - 5 pack	1 pack
690.9	Razor blades - box	1 box
715.930002	Temporary tool bag to be replaced with zippered bag 715.93610	1
827.805600	Rechargeable Lithium Battery # 18650	1
008.WRMANUAL	Instruction Manual	1
714.16160	Charger for battery	1

WINDSHIELD REPAIR ACCESSORIES

Accessories		
Art. No.	Description	Qty.
702.999051	Dremel Drill - 4.8 volt rechargeable	1
616.990001	Carbide Bur Tapered (5-pack)	1 pack
616.990002	Carbide Bur Round (5-pack)	1 pack
891.634430	UV Light - 12 Volt	1
891.634440	UV Screen	1

Uses:

- Buses
- Trucks
- Automotive
- Fleet Vehicles

Dremel Drill - 4.8


The Dremel/drill and carbide burs are necessary if the break needs to be drilled to provide an access point for the resin

Carbide Bur Tapered (5-pack)

Carbide Bur Round (5-pack)

UV Light - 12 Volt


Optional source of UV light, this lamp can be plugged into the car lighter plug.

UV Screen


When performing repairs outside, this screen is used to block the sun's UV rays to eliminate premature curing.

GUARD PROTECTION COVER


Art. No. 899.600

Protects against possible damage when repairing and servicing.

- Suitable for all types of cars.
- Material: Black artificial leather.
- The inside and contact surface is lined with a soft foamed material.
- Flexible with temperature which prevents cracking.
- Unique design with sewn-in sandbags allows the cover to form to the resting surface and prevents any damage.
- 65cm (L) x 80cm (W) (25.6" x 31.5")
Weight: 1.5kg (3.31lbs)

5-IN-1 INTERIOR PROTECTOR SET



Art. No. 899.500051

- All necessary protectors are provided on a single tear-off.
- Easy logistics, because it's just one article.
- Saves storage space and dispenser systems.
- Suitable for most passenger car interiors.
- Supports mechanics in complying with the required quality standards.
- All protectors are packed in a dust-proof dispenser carton

Seat protector and floor mat

- Perfect fit and adhesion with anti-slip underside.
- Transparent headrest area enables a clear view when driving in reverse and during test drives.
- Protection against oil, dirt and water.

Protective film for steering wheel, shift lever and handbrake

- The multilayer film is especially anti-slip and adhesive.
- High-stretch film, elastically adapts to shapes.
- Transparent material is used to recognize symbols.
- Protects the control elements against soiling.

Protective element	Length in mm	Width in mm	Thickness in mm
① Seat protector	1,400 (55")	760 (29")	0.015
② Floor mat	700 (29")	510 (20")	0.015
③ Steering wheel protector	490 (19")	150 (6")	0.025
④ Shift lever protector	150 (6")	90 (3 1/2")	0.025
⑤ Brake lever protector	150 (6")	100 (4")	0.025



Dispenser carton L x W x H in mm	Roll width in mm	Roll dia. in mm	No. of tear-offs per roll	P. Qty.
730 x 240 x 235 (28" x 9" x 9 1/4")	725 (28")	Approx. 200 (7 3/4")	200	1

Recommended: Use with Seat Cover Roll Dispenser Racks **Art. No. 899.50004 & 899.50006**

PROTECTIVE CAR FILM



Self-adhesive weather barrier plastic film that protects car interior and body.

Features:

- Blue 2.3 mil film
- Adhesive film
- Continuous 100 ft. roll

Benefits:

- Vehicle interior is protected from rain, snow, and other debris
- Adhesive does not transfer to the body of the vehicle when removed
- Leaves vehicle undamaged with no residue
- Protects vehicle up to 90 days
- Low density polyethylene which will actually begin to soften at 60°C but will retain its form and can withstand cold down to -20°C

Suggested Uses:

On-site vehicle recovery, body shops, automotive storage, equipment storage, protective covering while cleaning equipment and wrapping of items during transportation.

Note: Protective Car Film should not be used on freshly painted vehicles. Remove old Protective Car Film within 90 days and replace it with a fresh application to help prevent adhesive from transferring to the vehicle's surface. Use Rubbing or Isopropyl Alcohol or Citrus based cleaners to remove any residue. (Art. No. 893.460005)

Other names for Protective Car Film include: Crash Wrap or Collision Wrap.

Description	Dimensions	Art. No.
Blue, 2.3mil film	36" x 100'	818.77054



SEAT COVER ROLL DISPENSER RACK



Art. No. 899.50006

- For individual wall mounting or installation in ORSY® basic components
- Practical, safe storage unit removal
- The protective cover prevents soiling
- For seat protectors and tire bags
- Delivery scope without contents, however with mounting materials

Recommended:

Use with 5-In-1 Interior Protector Set

Art. No. 899.500051

Length mm	Height mm	Max. roll width mm	Max. roll diameter mm	Weight kg
820	570	700 (750*)	190 (260*)	5.0

* Without protective box

REUSABLE SEAT COVER



Art. No. 899.500090 - P. Qty. 4

- An environmentally conscious alternative to disposable plastic seat covers.
- Keeps car seat clean of oil and dirt.
- Cost effective, as they can be machine washed and re-used many times.
- Crafted with durable and long-lasting polypropylene material.
- Easy-to-use, simply hook the cover over the headrest.
- Won't slip or slide on the seat.
- Save money, as each seat cover will pay for itself after multiple uses when compared to disposable plastic covers.
- 80 cm x 150 cm (31-1/2" x 59").

UNDERBODY SEALANT



Sprayable permanent protection against corrosion and stone penetration. Made from bitumen-rubber-resin.

- Remains flexible
- Water and salt-resistant
- High temperature resistance
- If applied onto vertical surfaces in layers of 6-3 mm, it does not drip or sag
- 2 year shelf life
- Cannot be painted over

Colour	Contents	Art. No.
Black	1 L	892.072

PAINTABLE RUBBERIZED UNDERCOATING



A rubberized coating that provides soundproofing, resists abrasion, remains flexible and can be painted over with most automotive paint.

Applications:

To be applied to the wheel wells, the inside of door panels or fenders, the underside of a trunk or hood or the underside of a motor vehicle.

Directions:

Lightly sand surface to enhance bond. Surface should be clean, dry, and free of any contaminants such as wax, grease or silicone. Shake thoroughly before using. Using a siphon gun at 40-80 psi, adjust air pressure and spraying distance to match factory texture. Under normal conditions, allow 1-1/2 to 2 hours drying time. Make sure coating is fully cured before top coating. When top coating, apply a first thin coat. Allow 5 minutes flash time. Follow with a full wet coat.

Contents	Colour	Art. No.
1 L	Black	892.075210

HIGH-BUILD UNDERBODY SEALANT



Art. No. 890.90720 446 g

Permanently elastic, bitumen-free rubber-plastic combination

- Fast drying, can be painted over with spray paints after drying (about 1 to 2 h)
- Protects against flying stone
- Prevents corrosion due to water and road salt
- Seals and acts as a sound deadener
- For vehicle underbodies, wheel boxes, sill boards, spoilers, rear valances, motor hoods and trunks
- Permanently elastic, and impact, abrasion and heat resistant
- Can be sprayed without mist; does not run or drop off
- Colour: Black

GRAVEL GUARD – AEROSOL



All gravel guards supplied by Würth Canada Ltd. have basically the same principles in regards to their application and setting times.

- The aerosol is particularly suitable for inaccessible areas
- For vehicle underbody, sills and wheel wells
- Paintable when dry
- Excellent match to Ford O.E.M. finish

All panels must be primed and clean from contamination before application.

To achieve best results, spray product approximately 10-12 inches away from the surface. If this distance is closer than 10-12 inches product overload will occur i.e.; running, patchy finish, etc. Whereas if the distance is too far away, the finished product will be very coarse in finish.

The product should be applied in a flowing sideward motion, going left to right, a slight overlap is required of each motion, keeping this to a minimum, thus avoiding any unwanted build up of the product.

Any overspray should be cleaned off within a few minutes of application.

Setting times

All the gravel guards are paintable with any modern paint system after 1-2 hours (finger touch dry). If the gravel guards are left longer than 12 hours, the product will require prepping before any further work can be applied over it, (red or grey Scotchbrite is ideal). After 24 hours the product can be mechanically sanded with minimum 120 grit paper. If several layers are to be applied, DO NOT FORCE DRY, if this is done, the product's solvents will be unable to escape, leaving a hard skin on the outside and remaining soft underneath. If multiple coats are required it is important to wait 1-2 hours between coats, then apply the next layer, thus allowing the solvents to escape. Gravel guards are not designed to be used as an undercoating.

Description	Contents	Art. No.
Black / Fine grain-like texture	450 g	892.071
Beige	405 g	892.090100
Black / Thick wave-like texture	405 g	892.9071

UNDERBODY PROTECTION



A unique oil-based formula used for annual rust proofing applications.

Features:

- Dripless rust proofing is a uniquely formulated product that prevents rust and corrosion from attacking the undercarriage of your vehicle.
- It has state of the art rust inhibitors that work to protect the vehicle from the elements, as well as road salt, sand and other contaminants.
- This product protects the vehicle by displacing moisture, and by coating the surface with highly effective corrosion inhibitors.
- Non-flammable.
- Base ingredients are highly refined mineral oils.
- Does not contain any heavy metals.
- Easy to apply.
- Superior tachifiers offer superior adhesion.
- Unique No-Drip formula.
- Incredible capillary action to penetrate seams, pinch-welds and hard to reach inner cavities.
- Minimal over spray.
- Non-offensive odour.

Application:

Interior cavities, inner rocker panels, pillars, doors and frames. Can also be used on the under-side of vehicles.

Application tools:

Pneumatic Gun with Container **Art. No. 891.100**
 UBS Gun **Art. No. 891.110640**

Note: Never apply the product on rubber or plastic. Avoid applying any materials on or near catalytic converters and mufflers due to extreme heat.

Colour	Contents	Art. No.	P. Qty.
Amber	18.9 L	892.0801	1
Black		892.0802	

CAVITY PROTECTION WAX



Suitable for long term protection against corrosion in at risk bodywork cavities such as seams, hemmed and welded parts, edges and surfaces of sills, struts, door cavities, etc.

Features:

- Very efficient cavity wax protection for door pillars, door sills, inside door skins, head light recesses, fenders, trunk decks, etc.
- Can also be used as an anti-corrosion spray for any internal and external metal surfaces, as well as underbody applications
- Displaces dampness and water
- Penetrates rust and prevents further rusting
- Aerosol cavity wax can be used anywhere - no airline system needed
- Suitable for patch-up and repair work
- Extreme creep characteristics and excellent adhesion to metallic surfaces.
- Does not attack rubber and plastic components
- Compatible with top coat paints.

Note: Art. No. 893.081 is LIQUID and has an excellent creeping characteristic; therefore, it is ideal for hard-to-reach areas, corners and joints.

Art. No. 893.081150 has a THICKER texture and offers a stronger protection for exposed surfaces.

Colour	Texture	Contents	Art. No.
Beige	Thick/gel-like	405 g	893.081150
Light Beige	Liquid	345 g	893.081

WAX UNDERBODY PROTECTION - BLACK



Permanently elastic wax-based coating mass (bitumen-free), cannot be painted over, contains solvents.

Permanently elastic

- Forms a tear-resistant, closed protective film (tested in accordance with DIN 53152).
- Good stone chip protection via "self-healing effect"*

Free of bitumen

- Formula based on high-quality waxes.
- Very good corrosion protection, also with thin layers (tested in accordance with DIN 50021).

Excellent adhesive properties on a wide variety of surfaces

- No running or dripping with vertical application (depending on layer thickness).
- Paint-, rubber- and PVC-compatible.

Quick skin formation and drying times

- Skin formation after approximately 120 minutes is 400 µ.
- Minimal downtimes.

VOC- Compliant

- Solvent-reduced.
- Complies with the VOC content limit specified by the Volatile Organic Compound (VOC) Concentration Limits for Automotive Refinishing Products Regulations.
- Resistant to sprayed water and saltwater, weak acids and basis.
- Temperature resistance after thorough drying: -25°C to +80°C.

Thanks to the surface-active characteristic of the coating mass, stone chips are closed by moving of the UBS wax to fill the spot.

Areas of Application:

To enhance and treat all protective coatings on PVC, rubber resin, bitumen and wax-based underbodies. Highly suitable for untreated metal surfaces

Note: Before use, check spray pistol and nozzle for proper functioning. Turn can upside down and spray until valve is empty after use. Do not spray on joints, engines, transmissions and brake systems.

Colour	Contents	Art. No.	Qty.
Black	1L	892.0791	1/12

PNEUMATIC APPLICATION GUN PS 3



Art. No. 891.628

For application of sprayable sealing compound. Produces OEM finish.

- The cartridge inside the gun may be used for several weeks.
- Application areas: joint sealing and reconstruction of the original seam structure after repair.

Note: Gun must be stored with installed cartridge. Works with Sprayable Seam Sealer **Art. No. 893.226/227/228**

ACCESSORIES FOR PNEUMATIC APPLICATION GUN FOR GENERATION 4 GUN



Art. No. 891.660

Special Beading Nozzle

With internal threads



Art. No. 891.653

Beading Nozzle

With internal threads



Art. No. 891.6291

Canister O-Ring

Approx. 55 mm x 3 mm (2.165" x 0.12")



Art. No. 709.628402 *NEW*

Cover Cap



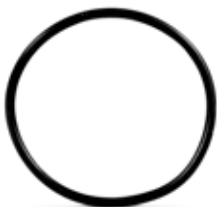
Art. No. 709.628403 *NEW*

Nozzle



Art. No. 709.628440 *NEW*

Cap



Art. No. 709.628428 *NEW*

O-Ring 28

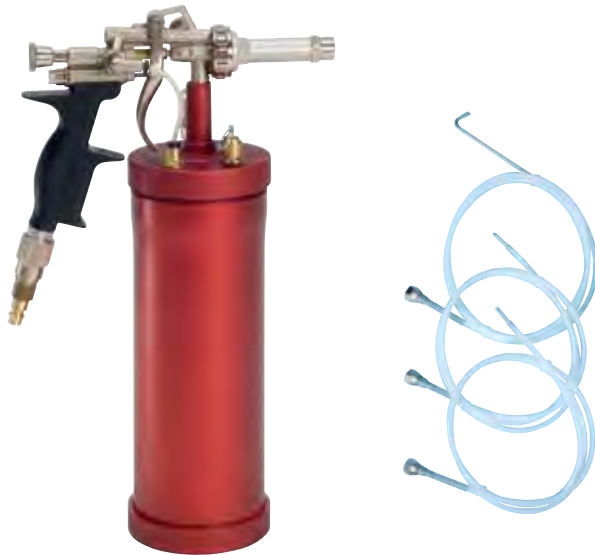


Art. No. 709.628453 *NEW*

O-Ring 53

NOTE: all other spare parts and accessory can be purchased through special orders.

UBS GUN



For the processing of gravel guards, underbody sprays, and cavity protection products.

- Many areas of application. Processing equipment for many different applications.
- For the recreation of stock-appearing finishes on the rocker panel, wheel wells, underbody, etc.
- Safe for the user. Use the depressurizing valve to make refilling the can easy.

Note: There must always remain a can containing material in the pistol. Never put pistol away empty. Working pressure 6-4 bar (30 to 60 psi).

*Does not include nylon probes.

Description	Art. No.	P. Qty.
UBS Spray Gun*	891.110640	
Nylon Probe Set (1 hooked probe, nylon probe with front exit, 1 nylon probe with side exit,) ø 6 mm, length: 1.3 m, each probe	891.110001	1

UBS SPRAY GUN "SCHUTZ GUN"



Art. No. 891.106840

- For fast application of stone-chip and underbody protection products on a plastic, bitumen and wax basis.
- With variable spray nozzle for restoring original structure on sill panels, wheel wells, floor groups, etc.
- R 1/4" connection.
- Application pressure: 3-4 bar (40-60 psi).

PNEUMATIC GUN WITH CONTAINER



Art. No. 891.100

- For a quick application of Underbody Seal **Art. No. 892.0791**
- Contains 2 nylon probes.
- With quick-change-coupling.
- 1 Litre container.
- Nylon probes with 8 mm diameter and 1.3 m in length.
- The nylon probe has an offset end, anti-bending spring and 4 mm nozzle.
- Diameter: 6 mm, Length: 735 mm

WHEEL HUB CLEANING TOOL

Art. No. 585.1905



Designed to clean rust, corrosion and other build up from the base of the wheel stud, wheel drums and tire rims

Features:

- Lock-On abrasive design
- Unique design to fit 1/2" impact wrench
- Includes 1x tool & 1x 2" (50mm) disc

Benefits:

- Tool and abrasive designed with high strength material to quickly remove rust
- Unique design fits onto 1/2" drive impact wrench, the same tool used to remove lug nuts
- Tool fits easily over wheel studs and also cleans battery posts
- Helps improve proper torque of lug nuts and for easy accurate tire balancing

Size	Replacement Discs	P. Qty.	Art. No.
1" (40mm)	Hub Cleaning Disc	6	585.2001
2" (50mm)			585.2002

STUD CLEANING TOOL



Note: The Stud Cleaning Tool works best at slow speeds without forcing the tool to the bottom of the stud. Once at the bottom, stop, reverse and spin off at slow speeds as well.

- Designed to quickly and effectively remove dust and debris from wheel studs
- Cleans 10 studs in under 3 minutes
- Cleaning of nuts and studs recommended whenever a tire is serviced
- Adaptor included
- Uses air wrench or handheld drill
- 1 brush and 1 Allen key included

Stud Cleaning Tools	
Size (mm)	Art. No.
13	697.900004
22	697.900005

Additional brushes for 697.900004		
Brush size (mm)	Colour	Art. No.
12		697.9012
13		697.9013
14		697.9014
16		697.9016

Additional brushes for 697.900005		
Brush size (mm)	Colour	Art. No.
18		697.9018
20		697.9020
22		697.9022

STUD CLEANING TOOL & BRUSH KIT



Art. No. 697.900015 (12 pieces)

Kit Contents	Art No.	P. Qty.
13 mm Stud Cleaning Tool	697.900004	1
12 mm Brush	697.9012	
13 mm Brush	697.9013	
14 mm Brush	697.9014	
22 mm Stud Cleaning Tool	697.900005	1
16 mm Brush	697.9016	
18 mm Brush	697.9018	
20 mm Brush	697.9020	
22mm Brush	697.9022	
Safety Glasses	-	1
Adapter & Allen Key	-	1

LEAK DETECTION SPRAY



Art. No. 890.20 400 g

Finds leaks in compressed air and gas systems

Features:

- DVGW*-approved
- Easy and time saving way of finding leaks while the system is still working
- Suspect areas should be covered with a thin layer of Leak Detector
- Leaks will be indicated by the formation of foam
- Suitable for pneumatic brake systems, tires, hoses, valves, compressed air cylinders and compressor systems
- Also suitable for fittings containing gas as the Leak Detector is non-combustible

*DVGW: German Technical and Scientific Association for Gas and Water

Technical Data

Application temperature:	+5 °C to +50 °C (+41 °F to +122 °F) Freezes at 0 °C (+32 °F)
--------------------------	---

Note: Will not be damaged by frost. May be used after defrosting.

TIRE LEAK SEEKER



Art. No. 892.450238 238 mL

For use on tires, tubes and rims. Find the injury location fast!

Features:

- Free-rinsing
- Phosphate-free
- Biodegradable

INNER LINER SEALER



Art. No. 893.455472 472 mL

For use with all passenger, commercial, truck, farm service and O.T.R. tires

- A butyl-based sealer
- Non-flammable
- Colour: applies grey, dries black
- Can be used on both radial and bias-ply tires

TIRE FITTING LUBRICANT



Art. No. 890.1221 5 kg

For fitting of car, truck and motorcycle tires

Excellent lubrication

- Low force required for quick fitting of the tire
- Reduced wear of tire fitting equipment
- Gentle on tire bead and rim
- Better centering of the tire on the rim

Pressure-resistant, transparent fitting film

- Low consumption due to sparing use of material
- No splashing and soiling when the tire snaps onto the rim

Short aeration time

- Non-positive bonding between tire and rim shortly after fitting
- Reduces complaints and consequential costs for possible re-balancing
- Saves costs for unnecessary checks of balancing equipment by service technicians

Tire and rim care with "FORMULA G"

- Keeps tire rubber supple and assures permanent sealing between rim and tire bead
- Fights rust (non-corrosive)
- Prevents sticking of the tire to the rim

pH-neutral

- No aggressive effect on tire rubber or rim
- Skin and environment friendly

**Physiologically safe
Free of harmful solvents**

**Keeps tire bead supple and operable during storage in summer/winter
Silicon-free**

Technical Data	
Consistency	Creamy, solid
Colour	White
pH-value	5.5-6.0
Processing temperature	-15 °C to +50 °C (+5 °F to +122 °F)
Flash point	> 100 °C (212 °F)
Density at 20 °C	1.04 g/cm ³
Shelf life	24 months
Possible material combinations	Rubber/steel Rubber/metal Rubber/plastic

TIRE PASTE BRUSH



Art. No. 829.815561

- Convenient angled head
- Length: 20 cm (8")

TIRE LUBE



Art. No. 890.122101 3.7 L

- Tire mounting/demounting lubricant
- Ready-to-Use formula (not concentrate)

TIRE MOUNTING COMPOUND



Art. No. 890.1225 11.3 kg

This style of mounting paste has long been used to lubricate beads on truck tires by applying it around the bead with a glove. It is also being used as a packing compound to fill the void between the rim and bead to assist in the inflation of a truck tire.

Once the bead is seated, the excess material is returned to the bucket.

Can be diluted and used on passenger tires with a swab.

Features:

- Makes tire mounting/demounting easier.
- Protects tire beads from damage and helps beads to seat properly.
- This non-toxic and environmentally friendly compound also contains rust inhibitors.

BEAD SEALER



Description	Contents	Art. No.
Bead Sealer - Regular Strength	946 mL	890.122001
Bead Sealer - High Strength		890.122000

Bead Sealer is used as a positive seal between the rim and tire to prevent air pressure loss.

Bead Sealer Thick formula is perfect for sealing small air leaks between the tire bead and the wheel.



◀ Replacement brush for bead sealer
Art. No. 879.14381

TIRE PREP PRE-BUFFING CLEANER



For removing dirt, debris and mold lubricants from the repair area prior to buffing

- Used for cleaning tubes and tubeless tires before repair
- Can be used before repair work with any vulcanizing patch or plug method
- Removes silicone and soapstone

Description	Contents	Art. No.
Buffing Solution - Aerosol	453 g	893.122003
Buffing Solution	946 mL	829.490996

VULCANIZING TIRE CEMENT



Features:

- For general purpose repair - patch to tire bonding
- Use for tube patches, small radial repairs, plugs and inserts
- Recommended for Jiffy, Magicure, Patch-n-Plug and Radial Value Patches

Description	Contents	Art. No.
Tire Cement	236 mL	890.100019
	945 mL	890.100012

Note: Use with any Würth repair unit or insert.

TIRE REPAIR PRODUCTS



Jiffy Gun

Art. No. 829.241

- For temporary “on the rim” tire repairs
- Approved and used by major tire companies
- Comes with small and large nozzles
- For use with Vulcanizing Plugs

Art. No. 829.213/214



Vulcanizing Plugs

Description	Dimensions	Art. No.
Small Plug	5/16" / 8 mm	829.213
Large Plug	7/16" / 11 mm	829.214

- Chemically vulcanizes throughout the repair
- Covers all types of injuries in passenger and truck tires
- Approved and used by major tire companies
- Insert with Jiffy Gun, **Art. No. 829.241**



Pli-Seal Plug

Description	Dimensions	Art. No.
Pli-Seal Plug	2 1/4" x 3/8" (57 mm x 10 mm)	829.331

- Five-ply “bow tie”-shaped vulcanizing plug is designed for a permanent repair of the injury
- Designed for small hole and breaks
- May be used on all tubeless tires



A.



B.

Fibre Seal Insert & Rubber Vulcanizing Insert

Description	Dimensions	Art. No.
A. Fibre Seal Insert	3 3/4" (95 mm)	829.220
B. Rubber Vulcanizing Insert		829.222

- Fibre seal inserts, grey vulcanizing gum coated, wrapped in blue protective poly with a reinforcing core of fibre
- Easy insertion forcing the injury to take the shape of the insert or the insert taking the shape of the injury
- Fibre seal inserts will vulcanize chemically or in a heat curing system
- For steel belted passenger or truck radial tires
- Qty. 50/box

Caution:

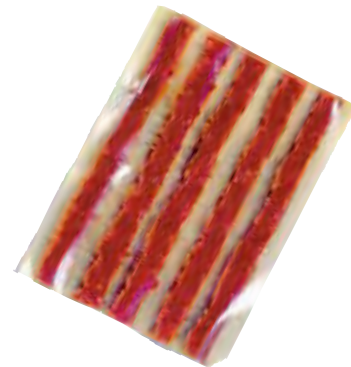
Since it is not possible to determine the extent of damage to the tubeless liner without looking inside the tire, we recommend the tire be removed from the rim and carefully inspected. It is best to fill the hole to seal out moisture and place a patch over the damaged liner to seal in the air.



Grey Gum Poly Wrapped Insert Strips

Shape	Length	Diameter	Art. No.
Round	2" / 50 mm	3/16" / 5 mm	829.334
Oval	2" / 50 mm	1/4 x 5/16" / 6 x 8 mm	829.335

- Strips seat evenly throughout the injury to completely seal the liner and broken cord end
- Vulcanizing inserts are designed to “fill the injury” and may be used in radial or bias ply tires
- Inserts will vulcanize chemically or in a heat curing system



Brown Posi-Cord String

Art. No. 829.361

- Used to fill punctured holes in radial and bias ply tires. These plugs are designed for emergency repair in passenger and light truck tires.
- May be used with a patch for a permanent repair
- Durable nylon cord is resistant to the sharp steel belts in radial tires
- The cord is coated with a tacky rubber and when installed with chemical cement will allow for partial vulcanization to occur
- 4" / 102 mm long

Precautionary Info:

Puncture repairs made “On-The-Wheel” are classified as emergency repairs. If an emergency repair is made, the tire must not be run more than 160 km/ 100 miles at a speed no greater than 80 kph/ 50 mph until the tire is removed from the rim and inspected carefully and a permanent repair is made.

TIRE PATCHES



Jiffy Patches®

- Self vulcanizing Jiffy Patches
- Wafer-thin design
- Poly back assures quick release
- Non-chafing edge
- Used on radial or bias tubeless tires
- Used for crown or sidewall repair
- Used on all tubes (designed to be twice the strength of the tube)
- Use with **Art. No. 890.100019**, Activator cement

Type	Dimensions		Max Tube Injury		Art. No.
	Inches	mm	Inches	mm	
Med. Round Patch	2 1/4	57	1	25	829.002
Large Round Patch	3 1/8	79	2	51	829.003
Med. Oblong Patch	1 7/8 x 3 3/4	48 x 98	2	51	829.005



Coi Radial Patches

- For "centre over injury" radial repair
- Heavy duty repair designed for high flexing
- Withstands high heat
- High strength compact design that requires less buffing
- Provides trouble-free repair for the life of the tire
- For crown, shoulder, or sidewall area for any radial tire
- Use with **Art. No. 890.100019**, Activator cement

Type	Dimensions		Art. No.
	(inches)	(mm)	
Small Radial 10, 1 Ply Patch	2 x 3	50 x 76	829.10
Medium Radial 12, 1 Ply Patch	2 1/4 x 4	57 x 102	829.12



Precautionary Info:

Puncture repair in HR (130 mph), VR (150+ mph) rated tire is generally limited to the centre of tread area. Other limits on the maximum number of repairs and the size may also apply. Due to product liability requirements, some manufacturers' policy is to remove the speed rating when a puncture repair has been made.



Magiure™ Ultra Thin Patches

- Self-vulcanizing
- Non-chafing
- Feather-edge and wafer-thin design, one piece moulded construction
- Flexible for use in any direction
- For radial or bias tubeless tires
- For crown or sidewall repair
- For use on all tubes, it is designed to be twice the strength of the tube
- Use with **Art. No. 890.100019**, Activator cement

Type	Dimensions		Art. No.
	inches	mm	
Med. Round Patch	2 1/8	55	829.072



Radial Value Patch

- Nail hole repair for radial tires
- Reinforced to handle the flex in radial tires
- May be used on either passenger radial tires or truck radial tire applications
- Use with **Art. No. 890.100019** Activator cement

Type	Plug Dimensions		Max Tube Injury		No. Plies	Art. No.
	(inches)	(mm)	(inches)	(mm)		
Small Patch	1 3/4 x 3	45 x 76	1/8	3	1	829.413
Medium Patch	2 1/4 x 4	57 x 102	1/4	6	1	829.414

Note: Conventional reinforced patches should not be used on radial tires due to the different flex characteristics in the radial tire.

Patch-N-Plug Radial & Bias Tire Repair

- The metal quill protects the plug from damage by the steel belts during installation and simplifies pulling it through the injury with pliers
- When the quill is removed, the stem completely fills the hole sealing out dirt and moisture
- The patch vulcanizes to the inner liner to permanently seal the air in the tire
- Can be used on the crown, shoulder, or sidewall areas
- Use with **Art. No. 890.100019**, Activator cement

Type	Patch Size		Stem Dia.		Art. No.
	(inches)	(mm)	(inches)	(mm)	
Small Stem & Patch	1 3/4	42	3/16	5	829.381
Medium Stem & Patch	2 1/4	57	5/16	8	829.382

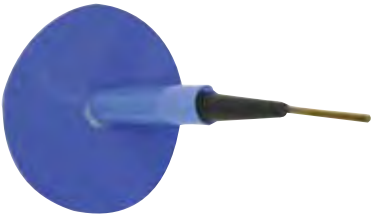
LEAD WIRE PATCHES



- Requires no special wire pulling tool
- Insert the lead wire into the injury from the inside of the tire and pull the repair through from the outside
- Both stem and the repair unit are gum coated to provide a complete bond
- Lead wire inserts will vulcanize chemically or in a heat curing system

Patch Size Dia.	Stem	Injury Size	Art. No.
1" (25mm)	1/8" (3mm)	1/16" (1.6 mm)	829.670
2" (50mm)	5/16" (8mm)	5/16" (8mm)	829.673
2" (50mm)	3/8" (10mm)	3/8" (10mm)	829.674

LEAD WIRE PATCHES - WRAPPED



- Requires no special wire pulling tool
- Use Carbide Cutter (Art. No. **887.914346** or Art. No. **887.914347**) to prepare the injury hole.
- Insert the lead wire into the injury from the inside of the tire and pull the repair through from the outside.
- Both stem and the repair unit are gum coated to provide a complete bond.
- Lead wire inserts will vulcanize chemically or in a heat curing system.

Patch Size Dia.	Stem	Injury Size	Art. No.
1 5/8"	7/32"	1/16" (1.6 mm)	879.9401
2 1/8"	5/16"	5/16" (8mm)	879.9402
2 1/8"	3/8"	3/8" (10mm)	879.9403

LEAD WIRE INSERTS - WRAPPED



- Wrapped with grey vulcanizing gum.
- For use in radial and bias ply tires
- Designed for chemical or heat vulcanization

Note: No special insert tools required. Use carbide cutter (**Art. No. 887.914346 & 887.914347**) to prepare injury channel. Install from the inside, pull through, and cut off wire.

Sizes	Art. No.	Qty.
4.5 inches, 7/32 (5.5 mm)	879.91001	1 box of 20
4.75 inches 3/8 (9.5mm)	879.91002	

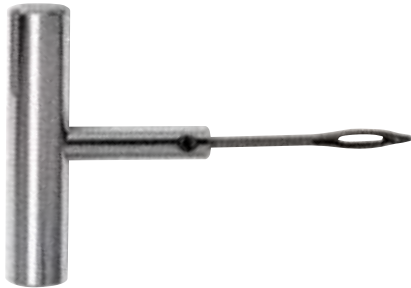
T-HANDLE SPIRAL TIRE PROBE



- For preparation of tire injury before repair.
- Also can be dipped in cement to lubricate the injury hole to prepare for insertion of the rubber filler plug.
- Chrome handle.
- Steel spiral.

Length	Width	Spiral Dia.	Art. No.	P. Qty.			
171.5 mm	6-3/4"	98.4 mm	3-7/8"	6.35 mm	1/4"	715.3453	1

CHROME HANDLE SPLIT EYE NEEDLE



Art. No. 715.3455

For use in preparation of tire injury repair particularly for installing repair inserts into the injury channel of passenger and light truck tires.

Technical Data	
Diameter of needle:	3.91 mm
Handle width:	21.95 mm
Length of tool:	145 mm
Material:	Handle = chrome; Needle = steel
Handle length:	103 mm

The overall length of the needle is 3.50"

TIRE REPAIR TOOLS



Injury Probe

Art. No. 829.911

- Used to clean punctured area for repair



Plastic T-Handled Open Eye Needle

Art. No. 829.917

- Used to insert plug after area has been probed
- Use with **Art. No. 829.331** Magicure Pli-Seal Plug, **Art. No. 829.334/335** Insert Strips, **Art. No. 829.361** Brown Posi-Cord String



Inner Liner Scraper

Art. No. 887.914315

- Hoe style inner liner scraper
- Use together with Buffing Solution, **Art. No. 829.490996** to remove dirt, debris, and mold lubricants from the tire's inner liner prior to repair
- Plastic handle, metal blade
- Total length: 6" (15 cm)
- Handle length: 3 7/8" (9.8 cm)
- Blade length: 3" (7.6 cm)



Flexible Skiving Knife

Overall length	Handle length	Blade length	Blade height	Art. No.
8" (20 cm)	4" (10.2 cm)	3 7/8" (9.8 cm)	1/2" (1.3 cm)	696.800900

- Used for cutting rubber in preparation and finishing of tire repair
- Wooden handle, metal blade

TIRE REPAIR TOOLS



Brass Tire Brush

Overall length	Brush area	Art. No.
7" (17.8 cm)	6 x 9 rows, 1 1/4" x 2 1/4" (3.2 cm x 5.7 cm)	697.9000

- Small brass sidewall tire brush
- Wooden handle



Wire Tire Brush

Art. No. 697.4



Small Cleaning Wire Brush

Art. No. 714.83111



Small Cleaning Brass Wire Brush

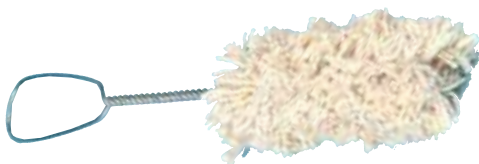
Art. No. 714.83112



Ball Bearing Stitcher

Dimensions	Art. No.
3/16" x 1 1/2"	829.914

- Used to roll on edges of the patch to ensure proper seal with the tire surface



Tire Lube Application Swab

Dimensions (length)	Art. No.
11" (280 mm)	829.81556



Tire Paste Brush

Dimensions (length)	Art. No.
8" (20 cm)	829.815561

- Wooden handled tire fitting paste brush
- Convenient angled head keeps hands clean while applying tire fitting paste to bead
- Use with Würth Tire Fitting Paste, **Art. No. 890.1221**

WHEEL & TIRE TOOLS



Valve Insertion Tool

Art. No. 715.5404

Used for tubeless tire valves

- Use to install Prefix 879 (rubber valve stems)
- Length: 280 mm (11")



Valve Core Removal Tool

Art. No. 469.715175

- For use with Schrader valves
- Length: 3"



Valve Core Removal Tool

Art. No. 715.54003

- Removes tire valve cores from standard bore tire valves
- Screwdriver-style handle
- Dimensions: 11.1 cm x 1.7 cm



Valve Core Torque Tool

Art. No. 715.54004

- 4 inch pounds
- Length: 12 cm
- Handle length: 7.5 cm
- Diameter: 2 cm



Tire Tread Depth Gauge

Art. No. 879.998

- Use to determine the remaining tread depth on passenger and light truck tires
- Indicator bar marked with both inches (1/32" increments) and millimetres
- Dimensions: 0.5" x 1" x 3 3/8"

WÜRTH VALVE INSERTION REMOVAL TOOL



Innovative Tool for Removal and Insertion of Tire Valves

Features:

- TPMS compatible
- Ergonomic design
- Lightweight aluminum handle
- Replaceable tool head
- Grooved, non marking rubber cushion

Benefits:

Würth VIRT (Valve Insertion Removal Tool) is the only tool in the market with quick coupling design to remove valve stems easily without the need to thread onto the valve

- Time saving
- Extra light aluminum handle for easy handling
- Ergonomic rubber oval shape is suitable for all types of rims and adapts to all angles
- Engineered to last 7500 cycles without wear of the tool
- Grooved rubber finish prevents damage to the rim
- Thanks to its exclusive head design, there is no need to twist the tool for a safe valve insertion into the rim.

Description	Dimensions	Art. No.	P. Qty.
Würth VIRT	L-30cm	715.5404602	1

Replacement head

715.5404603



Use Art. No. 714.6341 pin punch set to replace tool head

CARBIDE BUFFING WHEEL



- Arbor hole: 3/8" (9.5 mm)
- Buffing wheel adapter dimensions: Shank dia: 1/4", Length: 1 1/2"
- Max. RPM: 2,500

Description	Art. No.
Buffing Wheel 2 1/2"	829.320
Buffing Wheel Adapter (3/8" x 1/2")	829.3245

CARBIDE CUTTERS



- When a tire gets a puncture, the puncturing object is removed and a carbide cutter is used to “ream out” the injury channel to a round, uniform size while removing broken cables and damaged rubber
- Once the injury channel has been reamed out to this round, uniform size, the corresponding repair insert can be installed to repair the puncture, completely sealing the injury channel
- Maximum recommended operating speed: 2,500 RPM

Description	Size	Length	Photo	Art. No.
Carbide Cutter	7/32"	3"	A	887.914346
Carbide Cutter, with tri-shank	5/16"	4"	B	887.914347

ADAPTER FOR CARBIDE CUTTER



Quick change adapters

Description	Length	Photo	Art. No.
Adapter for Carbide Cutter with 1/4" (6.3 mm) shank	2"	A	614.176990
Adapter for Carbide Cutter with 5/16" (7.9 mm) shank	2"	B	614.176991

SKIVING BRUSH



- High carbon wire
- Stainless steel shaft
- Wire diameter: 0.005" (+/- 0.001")

Length	Brush Length	Brush Diameter	Shank Dia.	Max. RPM	Art. No.
3"	1"	3/8"	1/4"	2,000	879.14336
3"	1"	1/2"			879.14337

TIRE REPAIR KIT



Art. No. 829.100

Contents: 50 - 4" Fat Brown Inserts, Spiral Cement Probe, Split-Eye Insert Tool with Plastic Handle, 1 jar lubricant, 1 knife, 1 repair booklet

LEAD WHEEL WEIGHTS



EN Series (Polyester Coated)
Prefix 830.200
10g to 50g

- Applications include Mercedes, Honda and Acura (from 1980 to 1989), Audi (from 1997) and VW (from 1997)
- Also used on many aftermarket alloy wheels with thin rim flanges



MCN Series (coated) *
Prefix 830.203
1/4 oz to 3 oz

- Used on most domestic vehicles equipped with alloy rims
- Applications include many brands like Buick, Chevrolet, Chrysler, Ford, Mazda, GM



GY-Universal Steel (uncoated)
Prefix 830.5
1/4 oz to 5 oz

- Special Honda weight used on passenger car steel wheels



LHS Series (Plastic Coated)
Prefix 830.303
1/4 oz to 3 oz

- CHRYSLER LH platform (Intrepid, Concorde, LHS, 300M) Mini Van models Neon, 2001 PT Cruiser Sebring & Stratus sedans + convertible.



REG Series (uncoated) *
Prefix 830.111
.25 oz to 4 oz

- The most common weight for steel wheels. Will fit standard-width rim flange thickness passenger car steel wheels with 13" - 17" wheel size.



AWN Series (coated) *
Prefix 830.205
1/4 oz to 3 oz

- Use on domestic vehicles equipped with alloy rims that were manufactured prior to 1995.
- Applications include many brands like Acura, Buick, Chevrolet, Chrysler, Ford, Mazda, GM



IAW Series (coated) *
Prefix 830.207
5g to 60g

- Used on many new Ford models, on most European vehicles and certain Asian vehicles equipped with alloy wheels.
- Applications include many brands like Audi, BMW, Cadillac, Jaguar, KIA, Nissan, Toyota, VW and Volvo



FN Series (coated) *
Prefix 830.209
5g to 60g

- Used on most Japanese vehicles equipped with alloy wheels.
- Applications include many brands like Acura, Honda, Infiniti, Lexus, Nissan and Toyota

Note: The series denoted with * contain updated information and product photos

Note: It is very important that only the LH series weight is used on the above flanges. Other weights can cause slow tire pressure loss or fly off the wheel due to improper fit.

POLYESTER-COATED ZINC WHEEL WEIGHTS

- Lead-free alternative is environmentally friendly and poses no health risks
- Retains the familiar shape and feel of a conventional wheel weight
- Polyester coating completely encapsulates the weight, preventing premature corrosion to aluminum alloy wheels
- Attractive metallic finish

- Excellent for replacement of factory installed coated weights
- OEM approved
- Over 1500 hours of salt spray resistance



FNZS Series
Prefix 832.209
5g to 50g

- Acura, Daewood, Honda, Infiniti, Isuzu
- Lexus, Mazda, Nissan, Toyota



IAWZS Series
Prefix 832.207

- Audi, BMW, Catera, GEO, Hyundai, Jaguar up to 1996, Kia, Mitsubishi, Subaru, Suzuki, Volvo



MCZS Series
Prefix 832.203
1/4 oz to 2 oz

- Ford all from 1985, Chrysler all from 1990-1997, GM increasingly used starting in 1988.

STEEL WHEEL WEIGHTS

- Steel wheel weights offer you an environmentally responsible alternative to lead weights
- A large amount of lead weights are thrown off of wheels every year and contaminate the environment (In the state of Michigan alone, an estimated 60 metric tons of lead is deposited on the streets each year), or they are not removed at the end of a vehicle's life for recycling and contaminate the environment that way

- Lead weights have already been banned in several US states (California, Washington, Maine), and Europe
- These weights do not sacrifice retention or corrosion resistance
- Product type is displayed on the clip for easy identification
- Clips are very precise, and their exact fit to the rim allows for better weight retention
- Rounded clip end keeps the rim from being scratched
- Superior coating for corrosion resistance



TFe Series
Prefix 833.110
5 g to 60 g

- All light truck Chrysler from 1989; all Ford to 1984; all GM to 1987, some from 1988-2000



PFe Series
Prefix 833.111
1/4 oz to 3 oz

- For use on passenger car steel wheels



MCFe Series
Prefix 833.203
1/4 oz to 3 oz

- All Chrysler from 1990-1997, some from 1998; all Ford from 1985; most GM from 1988, all GM from 2000 (except C5 Corvette)

Weight (oz.)	Art. No.	P. Qty.
1/4	833.110.025	25
1/2	833.110.050	
3/4	833.110.075	
1	833.110.100	
1 1/4	833.110.125	
1 1/2	833.110.150	
1 3/4	833.110.175	
2	833.110.200	
2 1/4	833.110.225	
2 1/2	833.110.250	
2 3/4	833.110.275	
3	833.110.300	

Weight (oz.)	Art. No.	P. Qty.
1/4	833.111.025	25
1/2	833.111.050	
3/4	833.111.075	
1	833.111.100	
1 1/4	833.111.125	
1 1/2	833.111.150	
1 3/4	833.111.175	
2	833.111.200	
2 1/4	833.111.225	
2 1/2	833.111.250	
2 3/4	833.111.275	
3	833.111.300	

Weight (oz.)	Art. No.	P. Qty.
1/4	833.203.025	25
1/2	833.203.050	
3/4	833.203.075	
1	833.203.100	
1 1/4	833.203.125	
1 1/2	833.203.150	
1 3/4	833.203.175	
2	833.203.200	
2 1/4	833.203.225	
2 1/2	833.203.250	
2 3/4	833.203.275	
3	833.203.300	



AWFe Series
Prefix 833.205
1/4 oz to 3 oz

- All Chrysler to 1989; all Ford to 1984; all GM from 1987, some from 1988 to 2000



IAWFe Series
Prefix 833.207
5g to 60g

- Audi; BMW; Geo; Hyundai; Jaguar to 1996; Kia; Mitsubishi; Subaru; Suzuki; Volvo



FNFe Series
Prefix 833.209
5g to 60g

- Acura since 1990; Daewoo since 1999; Honda since 1989; Infiniti since 1990; Isuzu since 1997; Lexus since 1990; Mazda since 1990; Nissan since 1990; Toyota since 1990

Weight (oz.)	Art. No.	P. Qty.
1/4	833.205.025	25
1/2	833.205.050	
3/4	833.205.075	
1	833.205.100	
1 1/4	833.205.125	
1 1/2	833.205.150	
1 3/4	833.205.175	
2	833.205.200	
2 1/4	833.205.225	
2 1/2	833.205.250	
2 3/4	833.205.275	
3	833.205.300	

Weight (g)	Art. No.	P. Qty.
5	833.207.005	25
10	833.207.010	
15	833.207.015	
20	833.207.020	
25	833.207.025	
30	833.207.030	
35	833.207.035	
40	833.207.040	
45	833.207.045	
50	833.207.050	
55	833.207.055	
60	833.207.060	

Weight (g)	Art. No.	P. Qty.
5	833.209.005	25
10	833.209.010	
15	833.209.015	
20	833.209.020	
25	833.209.025	
30	833.209.030	
35	833.209.035	
40	833.209.040	
45	833.209.045	
50	833.209.050	
55	833.209.055	
60	833.209.060	

LIGHT TRUCK WHEEL WEIGHTS



T Series (coated) *
Prefix 830.110
.25 oz to 3 oz

- Used on most domestic light trucks equipped with decorative and larger thickness steel wheels and most light-trucks equipped with alloy wheels



I-7 Series
Prefix 831.100
2 oz to 8 oz

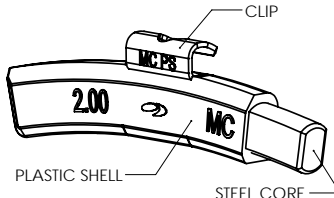
- I-7 uncoated weights for medium and heavy duty trucks equipped with tube type tires.



Tal-S Series
Prefix 831.200
2 oz to 8 oz

- Tal-S Polyester coated for heavy trucks equipped with Alcoa or Accuride tubeless alloy wheels.

PLASTEEL® WHEEL WEIGHTS



0.25 to 3 oz



5 to 60 g



Benefits:

- Plastic overmold acts as a buffer and vibration dampener, allowing for easy application without damage
- OEM recommended coating on steel core and clip surpasses stringent industry standards providing excellent corrosion resistance
- Precise fit against the wheel without gaps and gives the look of a traditional lead weight

A revolutionary steel core clip-on wheel weight encased in a plastic overmold. Lead weights are a major cause of damage to alloy wheels. The reaction, called galvanic corrosion, induced by the contact of lead with the aluminum of the wheel, causes discoloration and pitting of the alloy. This is completely eliminated with Plasteel®.

Features:

- Plastic overmold made from Polypropylene
- Steel core made of AISI 1006 Steel
- Available in six alloy series
- Meets all OEM requirements, having passed specific laboratory tests, from rim retention to chemical resistance, and meets every car manufacturers quality standards
- Fully recyclable
- Scratchless plastic overmold



AW Series
1/4 oz to 3 oz

- Chrysler (all up to 1989), Ford (all from 1984), GM (all up to 1987. Decreasingly used from 1988 to 2000)



MC Series
1/4 oz to 3 oz

- Chrysler (all from 1990 to 1997. Some models changed to LHS in 1998), Ford (all from 1985), GM (increasingly used starting in 1988. As of 2000, only C5 Corvette remains AWS)



T Series
1/4 oz to 3 oz

- Suburban, Yukon, Tahoe (from 2000), Denali & Escalade (use MCS for 2000), Ford (Expedition from 1997, F-100, F-150 from 1997), Lincoln (Navigator from 1998)

Weight (oz.)	Art. No.	P. Qty.
1/4	836.205.025	25
1/2	836.205.050	
3/4	836.205.075	
1	836.205.100	
1 1/4	836.205.125	
1 1/2	836.205.150	
1 3/4	836.205.175	
2	836.205.200	
2 1/4	836.205.225	
2 1/2	836.205.250	
2 3/4	836.205.275	
3	836.205.300	

Weight (oz.)	Art. No.	P. Qty.
1/4	836.203.025	25
1/2	836.203.050	
3/4	836.203.075	
1	836.203.100	
1 1/4	836.203.125	
1 1/2	836.203.150	
1 3/4	836.203.175	
2	836.203.200	
2 1/4	836.203.225	
2 1/2	836.203.250	
2 3/4	836.203.275	
3	836.203.300	

Weight (oz.)	Art. No.	P. Qty.
1/4	836.110.025	25
1/2	836.110.050	
3/4	836.110.075	
1	836.110.100	
1 1/4	836.110.125	
1 1/2	836.110.150	
1 3/4	836.110.175	
2	836.110.200	
2 1/4	836.110.225	
2 1/2	836.110.250	
2 3/4	836.110.275	
3	836.110.300	

PLASTEEL® WHEEL WEIGHTS



FN Series 5 g to 60 g

- Acura (since 1990), Daewoo (since 1999), Honda (since 1989), Infiniti (since 1990), Isuzu (since 1997), Lexus (since 1990), Mazda (since 1990), Nissan (since 1990), Toyota (since 1990)

Weight (g.)	Art. No.	P. Qty.
5	836.209.005	25
10	836.209.010	
15	836.209.015	
20	836.209.020	
25	836.209.025	
30	836.209.030	
35	836.209.035	
40	836.209.040	
45	836.209.045	
50	836.209.050	
55	836.209.055	
60	836.209.060	

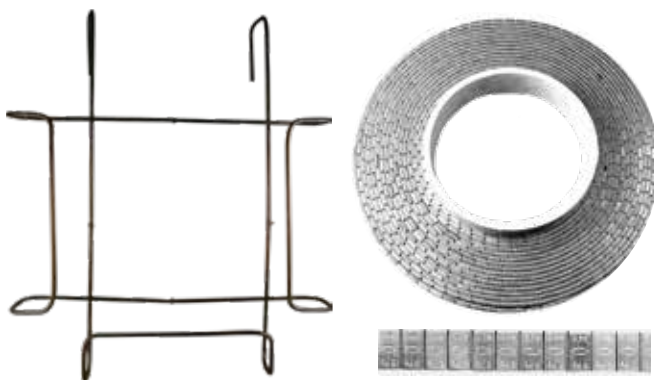


IAW Series 5 g to 60 g

- Audi, BMW Catera, Geo, Hyundai, Jaguar (up to 1996), Kia, Mitsubishi, Subaru, Suzuki, Volvo

Weight (g.)	Art. No.	P. Qty.
5	836.207.005	25
10	836.207.010	
15	836.207.015	
20	836.207.020	
25	836.207.025	
30	836.207.030	
35	836.207.035	
40	836.207.040	
45	836.207.045	
50	836.207.050	
55	836.207.055	
60	836.207.060	

STEEL WHEEL WEIGHTS ON A ROLL



Art. No.	Segment Size	Segments/Roll	Weight (lbs.)
833.14.210	5G	910	10
833.14.220	5G	1820	20
833.14.310	1/4 OZ	636	10
833.14.320	1/4 OZ	1272	20
833.14.410	1/2 OZ	320	10
833.14.420	1/2 OZ	640	20
955.1020	Hanging Rack		
955.10200	Stand		

Note: Articles in red are Special Orders only!

CW: Grey liner adhesive for cold weather.

Advantages

- Fully recyclable
- Only one SKU to carry
- No waste
- Easy to dispense (Simply rip off desired weights)
- Corrosion-tested
- Economical alternative to composite weights

Coating:

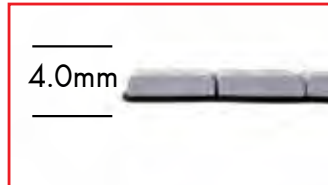
- The coating is compliant with most stringent automobile manufacturer's requirements.
- It protects against corrosion, resists discolouration from the sun and car-wash plus much more.
- In addition, to keeping your car looking good, the colour matches that of most wheels commonly use.
- Coating protects wheels
- Uncoated wheel weights are a major cause of unsightly discolouration and degradation of the wheels. Würth's coated wheel weights feature a highly resistant and durable polyester coating which completely encapsulates the weight, thus assuring the protection of the wheel surface. We strongly recommend that these weights be used as they offer continued protection.

Adhesive lining:

Well suited for any vehicle but it offers exceptional adherence in cold temperatures. No need to pre-heat the wheel. Most adhesives are inefficient below 40°F but the CW maintains an optimal bonding power at temperatures as low as 15°F. Save time and money by eliminating the need to heat the wheel when temperatures are below 40°F.

- Sticks on wheels as cold as 15°F (-10°C)
- Save time and money by eliminating the need to heat
- White liner, grey foam

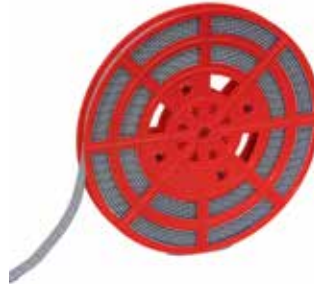
WHEEL WEIGHTS - ADHESIVE ZINC



Adhesive Zinc Wheel Weight Roll

Art. No. 830.14.735

- 1 000 5-gram segments (5 kg total weight)
- Powder-coated surface and dark adhesive tape that is thermally stable up to 180 °C (356 °F)
- Saves time, as lengthy searching and sorting of individual weights is not necessary
- Can be used with any aluminum rims
- Dimensions: 19mm x 13 mm x 4 mm (3/4" x 1/2" x 3/16")



COMPOSITE WHEEL WEIGHT SYSTEM



Features:

- Metal polymer mix lead-free adhesive weight
- Designed to have less impact on the environment
- Corrosion-free feature improves wheel and overall vehicle appearance
- Water resistant, heat resistant, chipping resistant, high pressure car wash resistant, and salt spray
- Precision cut-to-length weights improve balance and vehicle ride quality
- Flexible, conformable material that will apply to any size rim
- Cutting tool measures to exact gram.
- Low Profile - 4mm in height and 7mm in width

Description	Art. No.
Composite wheel weight - 20 lb roll	835.61405
Wheel Weight Kit	835.61400
Cutter for composite wheel weight roll	695.2000

Wheel Weight Kit will include:

- 1 Cutter
- 1 Stand
- 3 Rolls (835.61405)



ADHESIVE WHEEL WEIGHT ROLL CUTTER AND STAND



Art. No. 830.14991

Holder with cutting device for adhesive wheel weight rolls.

- Unrolling and cutting device for adhesive wheel weight rolls.
- Locking mechanism permits fast, intuitive operation.
- Easily view dispensed weights and cut through tape only.
- Holes provided for tabletop and wall mounting.
- Matte black, powder-coated design for daily workshop use.
- Cutting blade, cutting surface and cutting lever can be replaced (Special order).

Contents:

- Locking clip for rolls
- 2 cutting knives

Compatible with 5 gram Prefix 830 & 833 wheel weight rolls.

ADHESIVE WHEEL WEIGHT ROLL STAND



Art. No. 830.14990

Holder for 5-6kg/13lb adhesive wheel weight rolls.

- Suitable for table or wall-mounting.
- Compact design
 - Space-saving mounting directly at the workstation.
 - Mounting only requires 8 x 16cm area.
- Fast and uncomplicated work due to storage at the workstation.
- Store weights with or without outer carton.
- Powder-coated design for daily workshop work.
- Delivered without fastening materials




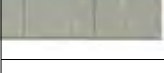
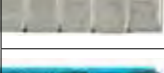

Compatible with Prefix 830 wheel weight rolls only!

ADHESIVE WHEEL WEIGHT ROLLS

Adhesive weights on a convenient roll

Features:

- With galvanized, additionally powder-coated surface and dark adhesive tape that is thermally stable up to 180°C
- Can be used with any aluminum rims
- Saves time, as lengthy searching and sorting of individual weights is not necessary
- Pull tab edge for less risk of contaminating the tape when removing the liner

Product	Roll Art. No.	Segment Size	Segment Dimension	Segment Coating	Material	Roll Size	Roll Adhesive	Roll P. Qty.
	830.905001	1/4 oz.	12mm x 19mm x 4.5mm	Clear Zinc	Steel	13 lbs.	S	1
	830.906201			Grey				
	830.906225			Black				
	830.906501	1/2 oz.	24mm x 19mm x 4.5mm	Grey		6 kg		
	830.906001	5 g	11mm x 19mm x 3.5mm	Grey				
	830.906101			Black				

Adhesive S = Cold Weather

Adhesive Weights now come in 3 easily distinguishable colours!













ADHESIVE WHEEL WEIGHT STRIPS

Adhesive weights on an easy to use strip!

Features:

- Unconnected individual weights, no cutting edges during cut-off
- With dark adhesive tape that is thermally stable up to 180°C
- A clean peel premium cold weather tape will not break apart or leave sticky residue
- Pull tab edge for less risk of contaminating the tape when removing the liner

Product	Strip Art. No.	Segment Size	Segment Dimension	Segment Coating	Material	Strip Description	Strip Adhesive	Strip P. Qty.
	830.901105	5/10 g	5g: 18mm x 19mm x 3.5mm; 10g: 26mm x 19mm x 3.5mm	Grey	Zinc	5g/10g alternating segments, 45g total strip weight		50
	830.909025	1/4 oz.	12mm x 19mm x 4.5mm	Clear Zinc	Steel	12 x 1/4 oz individual segments on a strip, 3 oz total weight	N	48
	830.911025			Grey				
	830.909125			Black				
	830.905150	1/2 oz.	24mm x 19mm x 4.5mm	Grey	Steel	6 x 1/2 oz individual segments on a strip, 3 oz total weight	N	50
	830.910150			Black				
	830.909105	5 g	11mm x 19mm x 4mm	Clear Zinc	Steel	12 x 5g individual segments on a strip, 60g total weight	N	50
	830.911105		11mm x 19mm x 3.5mm	Grey				
	830.911250		11mm x 19mm x 3.5mm	Black				
	830.906105		14mm x 19mm x 3.5mm	Grey				

Adhesive Weights now come in 3 easily distinguishable colours!



Adhesive N = Premium Cold Weather
Adhesive S = Cold Weather

ADHESIVE WHEEL WEIGHTS



- Used on all after-market sport wheels
- For passenger cars and motorcycles
- Ideal for racing and off road applications
- No cutting and pre-contouring
- Strong adhesive backing strip
- Special adhesive offers high performance in cold temperatures
- Weights can be applied to wheels in cold temperatures, down to -10 °C (15 °F).
- Save time and money by eliminating the need to heat the wheel in cool temperatures



Img.	Desc.	Material	Weight/segment	Dimensions (strip)	Dimensions (segment)	Temp. Resistance	Art. No.	P. Qty. (strips)
A	Standard, reduced middle web	Coated Lead	2 oz.	1 1/4" x 6"	1 1/4" x 7/8" x 1/4"	100 °C (225 °F)	830.14.330	15
B	Standard profile, reduced middle web	Coated Lead	1/2 oz.	6"	3/4" x 7/16" x 1/4"		830.14.315	30
C	Standard profile, reduced middle web	Coated Lead	1 oz.	6"	3/4" x 15/16" x 1/4"		830.14.320	15
D	Narrow profile, pre-cut	Coated Lead	1/4 oz.	6"	1/2"		830.014.60	30
E	Low profile, pre-cut	Coated Lead	1/4 oz. (7 g)	6"	3/16" x 3/4" x 1/2"	80 °C (175 °F)	830.14.305	30
							830.14.30552	52
F	Reduced middle web	Coated Zinc	3 x 5 g 3 x 10 g	105 x 15 x 5.5mm	1.5 x 1.2 x 0.6 cm 1.5 x 2.1 x 0.6 cm	180 °C (356 °F)	830.14.60	10
G	Low profile pre-cut, Black	Coated Lead	1/4 oz.	3/4" x 6"	3/4" x 7/16" x 1/8"	80 °C (175 °F)	830.14.3100	30
H	Low profile, pre-cut, Black	Coated Steel	5 g	5 1/2"	3/4" x 7/16" x 1/8"		830.14.30501	30
I	Low profile, pre-cut	Coated Lead	1/4 oz.	.1562" x .75"	1/2" x 11/16" x 3/32"	-30°C -100°C	830.14.3052	52
J	Low profile, pre-cut	Coated Steel	1/4 oz.	.75"	.80 x .050 x .019 cm	-30°C -100°C	833.14.3050	48
K	Low profile, pre-cut	Coated Steel	1/4 oz.	7 1/4"	3/4" x 5/8" x 1/8"	100 °C (225 °F)	830.14.3050	30

WHEEL WEIGHT - ADHESIVE



CC Series (Coated) *
Prefix 830.100
5g to 60g

- Original part of Porsche, VW, Volvo
- Low profile premium zinc adhesive wheel weight can be used where standard profile does not provide sufficient clearance area to brake and steering parts
- OEM quality coating material & highest corrosion protection
- Siliconized liner for quick removal with adhesive strength of at least 43lbs/in²



Standard Profile Premium Zinc Adhesive Weight *
Prefix 830.16
5g to 60g

- Features Grid-Bridge technology (TM) whereby the segments are connected with two narrow steps for easier and faster mounting.
- Used by OEMs like Audi, Daimler, Chrysler and Land Rover
- OEM quality coating material & highest corrosion protection
- Siliconized liner for quick removal adhesive strength of at least 43lbs/in²

PRE-SEGMENTED ADHESIVE WEIGHTS



*Not actual size

Segment Weight	Material	Finish	Adhesive	Art. No.	P. Qty.
5 g	Zinc	Silver-Grey Coated	S	830.900005	100
10 g				830.900010	
15 g				830.900015	
20 g				830.900020	
25 g				830.900025	
30 g				830.900030	50
35 g				830.900035	
40 g				830.900040	
45 g				830.900045	

Adhesive S = Cold Weather

Features:

- Unconnected individual weights
- With dark adhesive tape that is thermally stable up to 180°C
- Will fit the tightest constraints for calliper clearance: only 4mm tall
- A clean peel premium cold weather tape will not break apart or leave sticky residue
- Pull tab edge for less risk of contaminating the tape when removing the liner
- Curved

TIRE BALANCING BEADS



Internal Wheel & Tire Balancing Compound

Due to its patented electrostatic technology, Würth Balancing Beads hold the out of balance position inside the tire when the vehicle moves slowly, stops, starts and turns. Würth Balancing Beads provide a 100% true balance of not only the tire and wheel, but the entire wheel assembly.

Advantages:

- For use with all tubeless and tube-type tires
- Use on all wheel positions
- Replaces standard lead wheel weights
- Better for the environment, as lead weights often falls off
- Safer for technicians
- Continually readjusts to the balancing point of the wheel
- Reduces vibrations that result in chassis and suspension wear
- Increased tire foot traction improving handling
- Decreased tire wear
- Reduced rolling resistance leading to increased fuel efficiency
- Prolonged life of wheel assembly parts by cutting down on wear and tear due to excessive vibrations
- No dust or dust related problems
- Increased fuel economy
- Will not contaminate the bead seating area

Features:

- Glass beads are coated to resist the effects of moisture or tire lube
- Won't clump
- Contains no powders
- TPMS Compatible
- Allows the use of an Air Blaster
- Will not react with any known chemicals

*Each Bag Includes

- 1 Valve Cap &
- 1 Valve Core Stem

*Sizes can be combined to suit application needs

*Always refer to application charts



Recommended Applications	Weight	Number of Sachets per Package	Art. No.	P. Qty.	Case Art. No.	Case Qty.
Motorcycles/ATV	1 oz.w	4	822.016301	1	822.016301B	40 bags/160 sachets
	2 oz.		822.016302		822.016302B	32 bags/128 sachets
	3 oz.		822.016303		822.016303B	24 bags/96 sachets
Passenger Vehicles/ Light trucks	4 oz.	1	822.016304	1	822.016304B	92 bags/sachets
	6 oz.		822.016306		822.016306B	64 bags/sachets
	8 oz.		822.016308		822.016308B	52 bags/sachets
	10 oz.		822.016310		822.016310B	40 bags/sachets
	12 oz.		822.016312		822.016312B	36 bags/sachets
Light - Medium & Heavy Trucks	14 oz.	1	822.016314	1	822.016314B	42 bags/sachets
	16 oz.		822.016316		822.016316B	28 bags/sachets
	20 oz.		822.016320		822.016320B	24 bags/sachets

Note: For proper installation, it is recommended to install balancing beads with the Würth Injector Tool - Art. No. 822.0200

Use:

1. Open the outer bag
 2. Remove the inner bag and place the pre-measured inner bag inside the tire before inflating
 3. The pressure inside the tire will collapse the bag containing the beads, or it will break soon after inflation
 4. The beads will automatically balance the complete wheel assembly
- To reduce the possibility of a valve leak, it is recommended to use the provided Würth valve core and a self-sealing valve cap
 - For inner tube-type tires, inject the beads through the valve stem using the approved Würth Injector Tool and follow safety instructions

TIRE BALANCING BEADS

Application Chart by Tire

For Passenger Vehicles, Light and Medium Trucks

Tire Size	1/2 Ton	1 Ton +
Pass. vehicle/ Light Truck		
14"		
215/75R14	3 oz.	4 oz.
205/70R14	3 oz.	4 oz.
215/70R14	3 oz.	4 oz.
15"		
700R15		4 oz.
7.50R15		6 oz.
8.25R15		6 oz.
9R15		8 oz.
10R15		8 oz.
215/80R15	3 oz.	4 oz.
195/75R15	3 oz.	4 oz.
205/75R15	3 oz.	4 oz.
215/75R15	3 oz.	4 oz.
225/75R15	4 oz.	4 oz.
235/75R15	4 oz.	4 oz.
245/75R15	3 oz.	4 oz.
255/75R15	3 oz.	4 oz.
265/75R15	3 oz.	4 oz.
235/70R15	3 oz.	4 oz.
245/70R15	3 oz.	4 oz.
255/70R15	3 oz.	4 oz.
265/70R15	4 oz.	4 oz.
285/70R15	4 oz.	4 oz.
315/70R15	4 oz.	5 oz.
245/65R15	3 oz.	4 oz.
225/60R15	3 oz.	4 oz.
325/60R15	4 oz.	5 oz.
15.5"		
185/70R15.5	3 oz.	4 oz.
16"		
6.50R16		4 oz.
7.50R16		4 oz.
8.25R16		6 oz.
11R16		8 oz.
215/85R16	3 oz.	4 oz.
225/85R16	3 oz.	4 oz.
235/85R16	3 oz.	4 oz.
245/85R16	3 oz.	4 oz.
255/85R16	4 oz.	5 oz.
265/85R16	4 oz.	5 oz.
275/85R16	4 oz.	5 oz.
205/80R16	3 oz.	4 oz.
325/80R16	4 oz.	6 oz.
175/75R16	3 oz.	4 oz.
195/75R16	3 oz.	4 oz.
225/75R16	3 oz.	4 oz.
235/75R16	3 oz.	4 oz.

245/75R16	3 oz.	4 oz.
265/75R16	4 oz.	6 oz.
285/75R16	4 oz.	6 oz.
295/75R16	4 oz.	6 oz.
315/75R16	4 oz.	6 oz.
215/70R16	3 oz.	4 oz.
225/70R16	3 oz.	4 oz.
235/70R16	3 oz.	4 oz.
245/70R16	3 oz.	4 oz.
255/70R16	3 oz.	4 oz.
265/70R16	3 oz.	4 oz.
275/70R16	3 oz.	4 oz.
305/70R16	3 oz.	4 oz.
315/70R16	4 oz.	6 oz.
355/70R16	5 oz.	6 oz.
365/70R16	5 oz.	6 oz.
395/70R16	5 oz.	6 oz.
195/65R16	3 oz.	4 oz.
215/65R16	3 oz.	4 oz.
225/65R16	3 oz.	4 oz.
245/65R16	3 oz.	4 oz.
255/65R16	3 oz.	4 oz.
305/65R16	3 oz.	4 oz.
345/65R16	5 oz.	6 oz.
375/65R16	5 oz.	6 oz.
215/60R16	3 oz.	4 oz.
225/60R16	3 oz.	4 oz.
235/60R16	3 oz.	4 oz.
285/60R16	3 oz.	4 oz.
255/55R16	3 oz.	4 oz.
315/55R16	3 oz.	4 oz.
345/55R16	3 oz.	5 oz.
355/55R16	3 oz.	5 oz.
375/55R16	4 oz.	6 oz.
245/50R16	3 oz.	4 oz.
16.5"		
8R16.5	5 oz.	5 oz.
8.75R16.5	6 oz.	6 oz.
9.5R16.5	6 oz.	6 oz.
10R16.5	6 oz.	6 oz.
12R16.5	8 oz.	8 oz.
17"		
235/80R17	6 oz.	6 oz.
235/75R17	6 oz.	6 oz.
245/75R17	6 oz.	6 oz.
255/75R17	6 oz.	6 oz.
285/75R17	6 oz.	8 oz.
245/70R17	4 oz.	6 oz.
255/70R17	4 oz.	6 oz.
265/70R17	6 oz.	6 oz.

275/70R17	6 oz.	6 oz.
285/70R17	6 oz.	6 oz.
305/70R17	6 oz.	8 oz.
315/70R17	6 oz.	8 oz.
355/70R17	6 oz.	8 oz.
225/65R17	3 oz.	4 oz.
235/65R17	3 oz.	4 oz.
245/65R17	3 oz.	4 oz.
255/65R17	3 oz.	5 oz.
265/65R17	4 oz.	6 oz.
305/65R17	4 oz.	6 oz.
375/65R17	6 oz.	8 oz.
225/60R17	3 oz.	4 oz.
235/60R17	3 oz.	4 oz.
255/60R17	4 oz.	6 oz.
275/60R17	4 oz.	6 oz.
285/60R17	4 oz.	6 oz.
225/55R17	3 oz.	4 oz.
215/55R17	3 oz.	4 oz.
275/55R17	3 oz.	5 oz.
345/55R17	3 oz.	5 oz.
255/50R17	3 oz.	4 oz.
17.5"		
8R17.5	5 oz.	5 oz.
8.5R17.5	6 oz.	6 oz.
9R17.5	6 oz.	6 oz.
9.5R17.5	8 oz.	8 oz.
10R17.5	8 oz.	8 oz.
11R17.5	8 oz.	8 oz.
225/90R17.5	8 oz.	8 oz.
205/80R17.5	8 oz.	8 oz.
225/80R17.5	8 oz.	8 oz.
205/75R17.5	6 oz.	6 oz.
215/75R17.5	6 oz.	6 oz.
225/75R17.5	6 oz.	6 oz.
235/75R17.5	6 oz.	6 oz.
245/75R17.5	6 oz.	6 oz.
195/70R17.5	6 oz.	6 oz.
215/70R17.5	6 oz.	6 oz.
235/70R17.5	6 oz.	6 oz.
195/60R17.5	6 oz.	6 oz.
205/60R17.5	6 oz.	6 oz.
225/60R17.5	6 oz.	6 oz.
18"		
7.50R18	8 oz.	8 oz.
255/70R18	3 oz.	5 oz.
265/70R18	3 oz.	5 oz.
275/70R18	4 oz.	6 oz.
275/65R18	4 oz.	6 oz.
285/65R18	4 oz.	6 oz.

325/65R18	4 oz.	6 oz.
355/65R18	4 oz.	6 oz.
395/65R18	6 oz.	8 oz.
245/60R18	3 oz.	4 oz.
255/60R18	3 oz.	5 oz.
265/60R18	3 oz.	5 oz.
275/60R18	4 oz.	6 oz.
285/60R18	4 oz.	6 oz.
325/60R18	4 oz.	6 oz.
375/60R18	6 oz.	8 oz.
395/60R18	6 oz.	8 oz.
255/55R18	3 oz.	4 oz.
275/55R18	3 oz.	4 oz.
285/55R18	3 oz.	4 oz.
285/50R18	3 oz.	4 oz.
375/50R18	4 oz.	6 oz.
19"		
255/55R19	3 oz.	4 oz.
255/50R19	3 oz.	4 oz.
275/45R19	3 oz.	4 oz.
285/45R19	3 oz.	4 oz.
20"		
325/75R20	6 oz.	8 oz.
275/65R20	4 oz.	6 oz.
275/60R20	4 oz.	6 oz.
325/60R20	4 oz.	6 oz.
355/60R20	5 oz.	6 oz.
275/55R20	3 oz.	4 oz.
285/55R20	3 oz.	4 oz.
255/50R20	3 oz.	4 oz.
285/50R20	3 oz.	4 oz.
305/50R20	4 oz.	6 oz.
325/50R20	4 oz.	6 oz.
355/50R20	4 oz.	6 oz.
325/45R20	4 oz.	6 oz.
275/40R20	4 oz.	6 oz.
315/35R20	4 oz.	6 oz.
22"		
325/55R22	5 oz.	6 oz.
335/55R22	5 oz.	6 oz.
325/50R22	4 oz.	6 oz.
305/45R22	4 oz.	6 oz.
305/40R22	4 oz.	6 oz.
385/35R22	3 oz.	5 oz.
24"		
325/45R24	4 oz.	6 oz.

*Sizes can be combined to suit application needs
*Always refer to application charts

TIRE BALANCING BEADS

Application Chart by Tire For Light , Medium and Heavy Trucks

Tire Size	Single	Dual
Off-Road/ Deep Thread Tires		
14"		
27/8.50R14	3 oz.	
15"		
29/9.50R15	4 oz.	
30/9.50R15	4 oz.	
33/9.50R15	6 oz.	
31/10.50R15	4 oz.	
33/10.50R15	6 oz.	
31/11.50R15	4 oz.	
32/11.50R15	6 oz.	
31/12.50R15	5 oz.	
32/12.50R15	6 oz.	
33/12.50R15	6 oz.	
35/12.50R15	6 oz.	
36/12.50R15	8 oz.	
37/12.50R15	8 oz.	
35/13.50R15	8 oz.	
31/14.50R15	6 oz.	
33/14.50R15	8 oz.	
36/14.50R15	10 oz.	
38/15.50R15	10 oz.	
33/16.50R15	8 oz.	
36/16.50R15	10 oz.	
40/17B15	10 oz.	
44/18.50B15	12 oz.	
16"		
32/9.50R16	6 oz.	
35/10.50R16	6 oz.	
31/12.50R16	6 oz.	
32/12.50R16	6 oz.	
33/12.50R16	6 oz.	
34/12.50R16	6 oz.	
35/12.50R16	6 oz.	
36/12.50R16	8 oz.	
37/12.50R16	8 oz.	
33/14.50R16	8 oz.	
36/14.50R16	10 oz.	
38/15.50R16	10 oz.	

16.5"		
31/10.50R16.5	4 oz.	
33/12.50R16.5	6 oz.	
35/12.50R16.5	6 oz.	
37/12.50R16.5	8 oz.	
33/14.50R16.5	8 oz.	
35/14.50R16.5	8 oz.	
38/15.50R16.5	10 oz.	
33/16.50R16.5	8 oz.	
36/16.50R16.5	10 oz.	
40/17B16.5	10 oz.	
44/18.50B16.5	12 oz.	
33/12.50R17	6 oz.	
35/12.50R17	6 oz.	
37/12.50R17	8 oz.	
37/13.50R17	10 oz.	
40/13.50R17	10 oz.	
18"		
35/12.50R18	6 oz.	
37/12.50R18	8 oz.	
20"		
35/12.50R20	6 oz.	
37/12.50R20	8 oz.	
Medium Trucks		
19.5"		
8R19.5	6 oz.	8 oz.
9R19.5	6 oz.	8 oz.
18R19.5	14 oz.	
280/75R19.5	8 oz.	
285/75R19.5	8 oz.	
225/70R19.5	6 oz.	8 oz.
245/70R19.5	6 oz.	8 oz.
265/70R19.5	8 oz.	8 oz.
275/70R19.5	8 oz.	10 oz.
285/70R19.5	8 oz.	10 oz.
305/70R19.5	10 oz.	12 oz.
385/65R19.5	12 oz.	14 oz.
445/65R19.5	14 oz.	

20"		
7.50R20	8 oz.	10 oz.
8.25R20	8 oz.	10 oz.
9.00R20	10 oz.	12 oz.
10.00R20	10 oz.	12 oz.
11.00R20	12 oz.	14 oz.
12.00R20	12 oz.	14 oz.
12.5R20	12 oz.	14 oz.
13/80R20	12 oz.	14 oz.
14/80R20	12 oz.	14 oz.
14.00R20	16 oz.	16 oz.
365/80R20	16 oz.	16 oz.
395/80R20	16 oz.	16 oz.
20.5"		
525/65R20.5	20 oz.	
615/65R20.5	20 oz.	
22"		
10.00R22	12 oz.	
11.00R22	12 oz.	
22.5"		
9R22.5	8 oz.	10 oz.
10R22.5	8 oz.	10 oz.
11R22.5	10 oz.	12 oz.
12R22.5	12 oz.	14 oz.
13R22.5	12 oz.	
15R22.5	12 oz.	
16R22.5	14 oz.	
16.5R22.5	14 oz.	
18R22.5	16 oz.	
235/80R22.5	6 oz.	8 oz.
255/80R22.5	8 oz.	10 oz.
275/80R22.5	10 oz.	12 oz.
295/80R22.5	12 oz.	14 oz.
315/80R22.5	14 oz.	
365/80R22.5	14 oz.	
245/75R22.5	8 oz.	10 oz.
265/75R22.5	8 oz.	10 oz.
285/75R22.5	10 oz.	12 oz.
295/75R22.5	10 oz.	12 oz.

22.5"		
315/75R22.5	12 oz.	
345/75R22.5	12 oz.	
350/75R22.5	14 oz.	
235/70R22.5	6 oz.	8 oz.
255/70R22.5	8 oz.	10 oz.
11/70R22.5	8 oz.	10 oz.
265/70R22.5	8 oz.	10 oz.
275/70R22.5	10 oz.	12 oz.
305/70R22.5	10 oz.	12 oz.
315/70R22.5	10 oz.	12 oz.
365/70R22.5	12 oz.	
365/65R22.5	12 oz.	
385/65R22.5	12 oz.	
425/65R22.5	14 oz.	
445/65R22.5	16 oz.	
285/60R22.5	10 oz.	
295/60R22.5	10 oz.	
305/60R22.5	10 oz.	
315/60R22.5	10 oz.	
385/55R22.5	12 oz.	
455/55R22.5	16 oz.	
275/50R22.5	10 oz.	12 oz.
445/50R22.5	16 oz.	
24"		
11.00R24	14 oz.	
12.00R24	14 oz.	
14.00R24	16 oz.	
445/70R24	16 oz.	
495/70R24	16 oz.	
24.5"		
11R24.5	10 oz.	12 oz.
12R24.5	14 oz.	14 oz.
285/75R24.5	10 oz.	12 oz.
305/75R24.5	10 oz.	12 oz.
315/75R24.5	10 oz.	12 oz.
275/80R24.5	10 oz.	12 oz.
295/80R24.5	10 oz.	12 oz.

*Sizes can be combined to suit application needs

*Always refer to application charts

TIRE BALANCING BEADS

Weight	Tire Width - FRONT
1 oz.	80 - 120mm
2 oz.	80 - 120 mm w/spoked wheels
2 oz.	80 - 120 mm (BMW Telelever only)
2 oz.	130 mm

Weight	Tire Width - REAR
2 oz.	130 - 240 mm
3 oz.	250 - 360 mm
3 oz.	195 - 205 mm car tires on the rear

Weight	Dual Purpose / Off Road with Rim Lock
	Tire Width - FRONT
2 oz.	80 - 120mm
	Tire Width - REAR
3 oz.	130 - 230mm

Weight	Scooters
1 oz.	10" diameter wheels
2 oz.	12" & Up diameter wheels

Weight	Art. No.
1 oz.	822.016301
2 oz.	822.016302



Motorcycle Application Chart

Use:

- Always Refer to the application chart
- 1 oz., 2 oz. & 3 oz. are not drop in bags. They must be opened before installation or poured into the tire during mounting.

To achieve maximum results it is important to use the proper package size for each tire. As a rule of thumb, the amount of balancing beads required per tire is based on one ounce per thirteen pounds of tire. If you are not using an applicator and pouring the contents of the bag directly into the tire it is imperative that none of the contents of the bag ends up on the bead seating area of the tire and rim. If you are using the throw-in bag, open and discard outside bag only and throw clear inner bag containing the beads directly inside tire cavity. Würth Canada Limited does not accept any responsibility for air loss or tire damage due to improper installation or air check. In order to reduce the possibility of valve leaks, the use of a long valve core or valve core filter and a metal valve cap is recommended.

*Sizes can be combined to suit application needs

*Always refer to application charts

*For thin tires with wire spokes & tube - Please add an additional 1 oz.

BALANCING BEADS INJECTOR TOOL



Art. No. 822.0200

Offers a fast and easy way to inject Würth balancing beads into vehicle tires through the valve stem.

Features:

- Attaches to air shop supply
- 3ft braided hose
- Quality tested manufacture approved equipment
- Rated for 150PSI

Benefits:

- Fast and easy way to inject beads
- Allows injection without tire/wheel dismount
- Balances a wheel in under 3 minutes



Note: Always wear safety goggles and follow instructions

WHEEL WEIGHT TOOLS



Art. No. 695.391885

Wheel Weight Pliers

- Has cropping facility and hub cap remover
- For fixing and removing of wheel weights
- Spreading and squeezing of retaining springs



Art. No. 714.541221

Adhesive Wheel Weight Remover Tool

- Effortless removal of adhesive wheel weights and residue
- No scratching of alloy wheels due to GFK material
- Scraping blade can be resharpened
- Blade Width: 22 mm; Length: 280 mm



Art. No. 830.050

Heavy Duty Wheel Weight Installer Tool

- Strong hinge point and claw point
- Used to hammer standard weight on the rim and remove old weight
- Built in cutter can be used if the weight needs to be trimmed (ie: adhesive weights, for trimming lead weights only)
- Not recommended for coated wheel weights



Art. No. 830.025

25K Installation Tool

- Has cropping facility and hub cap remover
- For installing and removing of wheel weights
- Installation/removal of retaining clips
- Length: 9 1/2"



Art. No. 830.075

Non-Marking Heavy Duty Wheel Weight Installer Tool

- Plastic tip protects the rim during wheel weight removal
- Replaceable head protects the coating on the wheel weight during installation



Art. No. 830.0751

Replacement Tip for Art. No. 830.075

MOUNT/DEMOUNT HEADS



The mount/demount heads are uniquely shaped like a duckhead with a tapered bill, to fit next to and surround the rim of a wheel on a tire mounter.

The Duckhead mounts and demounts the tire from the wheel. The plastic mount/demount head provides a softer contact with the rim while mounting and removing tires, which helps prevent scratches and damage to expensive rims.

Description	OEM	OEM Part No.	Tire Change Model	Art. No.
Nylon Duckhead Kit with Tapered Hole	Coats	8183061	5030, 5040, 5050, 5060, 5065, 6050, 6060, 6065, 7050, 7055, 7060, 7065, 7655, 7660, 7665	W341.600079
Nylon Duckhead with Round Hole (Head Only)	All Tool Coats	G3008403 83008403	RC 1, 5, 10, 15, 20, Early 5060, 9010, 9024, APX90 All Rim Clamp (Optional Accessory) All Earlier Models Except 1550, 1620, 1625 TCX Series M39, S40, S41, S42, S43, S45, S408MAXI, S435, S436, S436TOP	W341.600080
	Corghi	450310		
	Hofmann	8314813		
	Hunter Sice	RP11-8314813 8314813		
Nylon Duckhead	Accuturn	SM102529	220A, All other models require adapter TC 250, TC 300, TC325	W341.600081
	Hunter	RP60343B		



WHEEL NUT FLAG



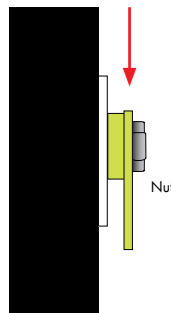
Wheel nut flag

Side View of wheel with Wheel nut flag on the nut



Front view of wheel with wheel flags on all nuts

Wheel nut flag collar



Features:

- The wheel nut flag product is a brightly coloured, flat plastic pointer shaped device that fits tightly over a vehicle wheel nut and is positioned in a uniform pattern
- It is designed to identify any movement of the nut and any excessive over heating at the wheel end
- There are two principal causes of vehicle wheel detachments, the first is the loosening of wheel nuts which would be recognized by the loose wheel nut indicator "pointer" moving out of its original set pattern
- The second cause of wheel detachment is caused by excessive heat due to brake or wheel bearing failure
- Excessive heat would cause the indicator to deform and eventually melt
- The vehicle operator can now spot "at a glance" any serious trouble that has started to develop with the vehicle wheel

Material:

- The product is manufactured from polyethylene and is UV stable

Application:

- The product is manufactured in several sizes to fit all trucks from minis to giant transports
- There are ten various sizes from 20.5 mm to 40.5 mm in width

Note: For accuracy, please check nut size with socket wrench

Metric	Standard	Art. No.	Typical Applications
20.5 mm	13/16"	879.010050	Cube vans-courier style vehicles
22 mm	7/8"	879.010051	Smaller courier units & GMC flanged cap of flat nut
31 mm	1 1/4"	879.01005355	Heavy duty trailers-spoke style wheels
33 mm	1 5/16"	879.010055	Trucks with hub-pilot wheels(Budd Uni-mount-10 stud hub piloted wheel and GM buses)
38.1 mm	1 1/2 "	879.010057	Motor wheel-8 stud hub piloted wheel & cone locknut (Transit buses and new pointed nuts)

TIRE VALVE SPECS AND MEASUREMENTS

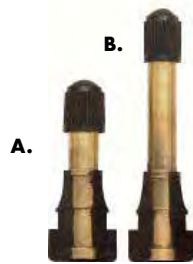
Würth's High Pressure Snap-In Valve Stems have been manufactured with a unique "collar" design at the base of the brass insert which anchors the brass into the rubber base. The collar is inside the tire, making it impossible for the brass to blow out during severe hot or cold temperatures. Würth valves are manufactured using only the highest quality materials. Made of EPDM rubber, the valve base will not crack, split, or weather due to ozone and harsh environmental conditions as do competitive products.

Competitor High Pressure Snap-In Valves



No Collar, Straight Brass Insert

Würth High Pressure Snap-In Valves



Collar at base of brass insert (inside tire)

- Will not blow out in severe heat or cold

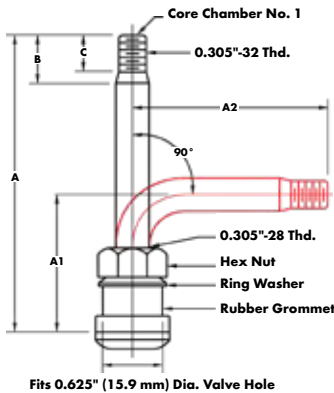
Tubeless Snap-In Type Valves For Use to 100 PSI Cold Inflation Pressure Maximum

Tire and Rim Association Standard

- Recommended maximum rim thickness at valve hole for the above snap-in type valves is 0.205". For usage beyond this limit consult valve manufacturer.
- Valve holes for the above valves must conform to standards
- Not to be used with metal valve extensions.
- Valve core: TR C1
- In the case of applications above 210 km/h (130 mph) it is recommended to use a clamp-in valve instead of snap-in valve.

	Art. No.	Valve Hole Dia.	C (Max.)	D (Ref.)	E	F (Max.)	G (Max.)
A.	879.600	0.453"	0.69"	1.27"	0.79"	0.32"	0.54"
B.	879.602	0.453"	0.69"	2.00"	1.52"	0.32"	0.54"

BRASS VALVES FOR HEAVY TRUCKS



Fits 0.625" (15.9 mm) Dia. Valve Hole

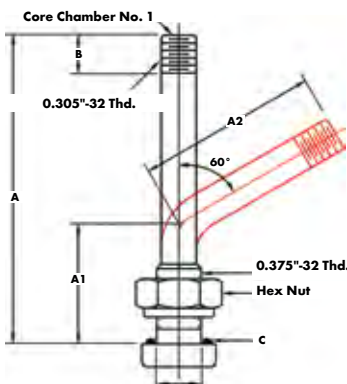


Features:

- For steel wheels with a 5/8" (15.9 mm) valve hole
- Recommended installation torque: 45 - 55 inch-pounds
- Maximum PSI: 200
- Valve core: TR-C1

Valve type	A	A1	A2	B	C	Art. No.
Straight	1.50" (38.1 mm)	N/A	N/A	0.47" (11.9 mm)	0.33" (8.4 mm) min.	879.501
Straight	3.75" (95.2 mm)	N/A	N/A	0.47" (11.9 mm)	0.33" (8.4 mm) min.	879.572

NICKEL PLATED BRASS VALVES FOR HEAVY TRUCKS



Fits 0.382" to 0.394" (9.7 mm to 10 mm) Dia. Valve Hole



Features:

- For rim thickness of 0.218" (5.6 mm) to 0.410" (10.4mm) at valve hole
- Fits 0.382" to 0.394" (9.7 mm to 10.0 mm) diameter valve hole
- Recommended installation torque: 80 - 125 inch-pounds
- Valve core: TR-C1

Valve type	A	A1	A2	B	C	Art. No.
60° Bend	N/A	0.98" (24.9 mm)	2.52" (64.0 mm)	0.33" (8.4 mm) min.	O-Ring	879.545
60° Bend	N/A	0.98" (24.9 mm)	1.88" (47.8 mm)	0.33" (8.4 mm) min.	Grommet	879.554
60° Bend	N/A	0.98" (24.9 mm)	2.52" (64.0 mm)	0.33" (8.4 mm) min.	Grommet	879.555

TIRE VALVES



Quality snap-in tire valves for everyday use

Features:

- Made of quality EPDM rubber
- High quality brass valve stem
- Shipped assembled with quality valve core and cap
- Each valve individually leak tested before shipping
- Meets TUV and ETRTO standards

TR No.	Operating Pressure	Rim Hole Diameter	Length	Art. No.	P. Qty.
413	0-65 psi	0.453"	1.25"	879.041030	50
				879.041030B	500
414		1.50"	879.041038	50	
			879.041038B	500	
415	0.625"	1.25"	879.041031	50	
418	0.453"	2.00"	879.041049	50	



Metal Bolt-In Tire Valves

Application: Passenger, Light Truck and SUV Wheels

Art. No.	Box Qty.	Sizes and Finishes	Rim Hole Dia.	Speed Rating	Operating Pressure	TR No.
879.416	25	Nickel, 1 1/2"	0.453/ 0.625"	All	0-150 psi	416
879.428	1	Chrome, 1 1/4"	0.453	All	0-150 psi	-
879.573	100	Brass, 4 3/8"	0.625"	All	0-150 psi	573



High Pressure Snap-In Tire Valves

Application: Passenger, Light Truck and SUV Wheels

Art. No.	Box Qty.	Sizes and Finishes	Rim Hole Dia.	Speed Rating	Operating Pressure	TR. No.
879.600	25	1 1/4"	0.453"	J - U	0-100 psi	600HP
879.602*	25	2"	0.453"	J - U	0-100 psi	602HP

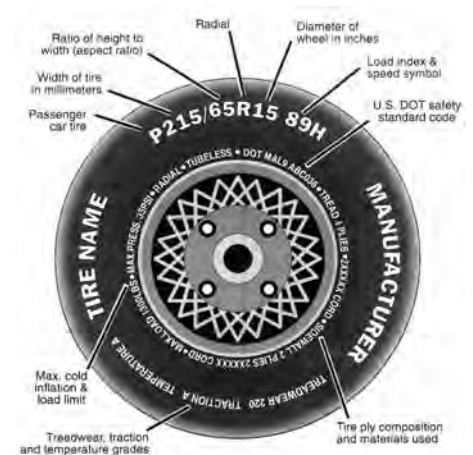
SNAP-IN TIRE VALVE



Art. No. 879.174131

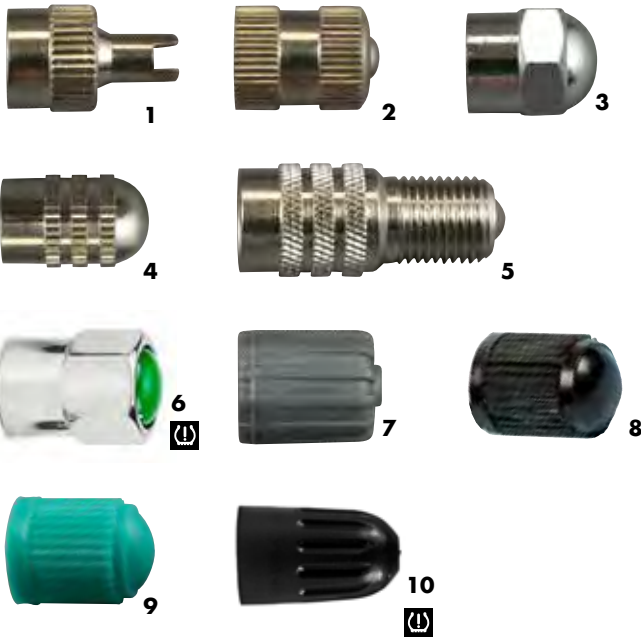
Chrome Snap In Tire Valve

- TR# 413
- 1 1/4" Valve with chrome sleeve and cap
- Use in passenger wheels with a maximum cold inflation pressure of 65 psi and maximum rim thickness of 0.156"
- Fits 0.453" valve holes



* maximum rim thickness: 0.205"

VALVE CAPS



No.	Description	TR No.	Art. No.	P. Qty.
1	Metal screwdriver cap	VC-2	879.17491	100
2	Long skirted metal dome cap with high temp. silicone gasket	VC-3	879.17492	
3	Chrome hex head valve cap with high temp. silicone gasket	-	879.17493	
4	Heavy duty metal truck dome cap with high temp. silicone gasket	-	879.17494	
5	Double seal valve cap for better air retention	-	879.17579	10
6	Chromed plastic cap green top with seal*	-	879.17495	100
7	Grey plastic cap	-	879.455	100
8	Black plastic cap	-	879.45	150
9	Green plastic cap to indicate nitrogen filled tires	-	879.451	100
10	Long skirt TPMS valve cap, black*	-	879.174921	100

* TPMS compatible

VALVE CORES



No.	Description	TR No.	Art. No.	P. Qty.
1	Replacement universal valve core - short Fits Art. No. 879.413, 414, 415, etc.	C-1	879.50	100
2	Nickel-plated valve core for TPMS	C-1	879.440	100

ECONOMY AIR GAUGES



Art. No. 715.54073

Dial Gauge for Passenger Trucks

Features:

- 0 - 160 psi
- Passenger/truck easy-to-read dial gauge with bleeder valve



Art. No. 715.54077

Dial Gauge for Passenger Trucks w/12" Hose

Features:

- 0 - 160 psi
- Passenger/truck easy-to-read dial gauge with bleeder valve and 12" whip hose

The operating temperature range for these gauges is -40°C to 70°C
Dial Gauge for cars, SUVs, light trucks and commercial truck tires.

DIGITAL TIRE INFLATOR



Art. No. 715.540061

3-in-1 Heavy-Duty Digital Inflator

Features:

- Die cast aluminum unit with rubber sleeve for Heavy Duty use
- Hose length: 6 ft (182.88 cm)
- Wire sheathed hose on flex area of hose to eliminate kinking
- Backlit LCD with 90 second auto shut-off
- Advanced digital high precision reading

- Powered by: 2x AAA batteries (included)
- Accuracy: ± 2 p.s.i.
- Units of measurement: PSI, BAR, kPa, KgF

3 in 1 function:

- Inflate
- Deflate
- Measure tire pressure

TPMS Compatible



Hose length	6 ft. with swivel
Chuck type	Clip on
Accuracy exceeds	86/217/EEC, $2 \pm$ p.s.i.
Units of measure	bar, p.s.i., kPa, kgF
Inflation range	0-12 bar 0-174 p.s.i. 1200 kPa 12 kgF
Reading accuracy (+, -)	0.1 bar 0.2 p.s.i. 1 kPa 0.01 kgF
Max. inlet air supply	16 bar 232 p.s.i. 1600 kPa 16 kgF
Inlet thread	1/4" female NPT
Dimensions	300L x 150W x 110H mm
Battery	2x AAA
Weight	2.4 lbs. (1.2 kg)

ECONOMY AIR GAUGES



Art. No. 715.54074

The operating temperature range for these gauges is **-40° C to 70° C**

Dial Gauge for cars, SUVs, light trucks and commercial truck tires.

Inflator Gauge, Heavy Duty Passenger/ Truck w/12" Hose

Features:

- 20 - 120 psi
- Heavy duty passenger/truck inflator gauge with easy to view site glass and 12" whip hose.
- Dual foot chuck for truck and bus use.

Tire pressure must be checked regularly. Maintaining proper tire inflation will increase fuel economy, increase tire life, and reduce the chance of tire failure

AIR CHUCKS



715.54092



715.54096



715.54080



715.54095



715.54083



715.54082



715.54081

Air chucks for standard bore tire valves.

Open chucks are used with tire changers and tire inflators, that can control the flow or stopping of airflow.

Closed chucks are used with live air lines where there is no other control for stopping the air from escaping. The pin inside the chuck compresses when pushed up against the tire valve to allow the air to flow.

Maximum operating pressure: 150psi

Explanation:

- Open - flow through (engaged or not)
- Closed - NON flow through (until engaged then becomes flow-thru)

Art No.	Description	Box Qty.
715.54092	Brass ball foot chuck (closed)	5
715.54095	Ball foot chuck with lock-on clip feature – Opens when applied to valve	5
715.54096	Ball foot chuck with clip (open) requires air release up the air line	5
715.54080	Air Chuck Euro Style 1/4NPT Clip Closed	5
715.54081	Air Chuck Euro Style 1/4NPT Clip Open	5
715.54083	Premium black straight-on tilt locking chuck (closed) truck, and dual wheel application	1
715.54082	Premium black dual foot chuck (inside & outside dual wheel application) Angled and tapered tip for hard to reach areas (closed)	1

TPMS SENSOR AID SYSTEM WITH OBD II



Art. No. 879.02405

Sensor AID is designed to diagnose and interact with tire pressure monitoring sensors using wireless (radio frequency) communication.

- Würth TPMS Sensor AID tool can diagnose both OEM and non-OEM sensors
- Sensor AID will verify the unique identity of each sensor mounted on wheels, display current pressures, internal tire temperature and battery condition of the sensor.
- Assist technicians in identifying fault, resetting and servicing TPMS systems.

Würth Sensor AID has a unique feature to clone OEM sensors to Würth replacement TPMS sensors.

- Reprogramming of the vehicle's computer is now **not required** when cloning OEM sensors for a second set of wheels and tires (i.e. snow tires.)
- Cloning and programming 4 OEM sensors to Würth TPMS sensors can be done in under 1 minute combined!
- Shipped blank, not preprogrammed - will not consume battery power
- Re-programmable for the same model vehicle that the sensor was first programmed for.
- Contains a medical grade German battery and electronics with G sensor technology
- All metal valve stem with plastic cap that will

Benefits of Würth TPMS sensors:

- will not corrode to the stem. These replaceable stems are fully adjustable to fit the contour of the rim it is being installed on.
- The two types of Würth TPMS sensors will work on more than 95% of vehicles made today.
- Wide-application means less product to stock.

TPMS Sensor Kit Contents:

- Sensor AID tool, OBD II Interface, power adapter, USB connector, sensor and device installation CD, TPMS owner's manual, warranty card

Note: Specific user instructions included with each TPMS Sensor AID System kit and each replacement sensor

Regular Sensors & Replacements	Art. No	Qty.
Replacement Sensor - 315 MHz	879.024050	1
Replacement Sensor - 433 MHz	879.024051	
Replacement Valve Stem for TPMS Sensor - Silver	879.08803	
Optional Valve Stem for TPMS Sensor - Black	879.08801	
Optional Valve Stem for TPMS Sensor - Chrome	879.08802	

Valve Stems (Regular Sensors Only):

Replacement Sensor - 315 MHz
Art. No. 879.024050



Replacement Sensor - 433 MHz
Art. No. 879.024051



Valve Stems (Regular Sensors Only):

Replacement Valve Stem - Silver
Art. No. 879.08803



Optional Valve Stem - Black
Art. No. 879.08801



Optional Valve Stem - Chrome
Art. No. 879.08802



Rubber Sensors & Replacements	Art. No	Qty.
TPMS Sensor - Rubber Stem - 315MHZ	879.024052	1
TPMS Sensor - Rubber Stem - 433MHZ	879.024053	
TPMS Sensor - Rubber Stem - Replacement Rubber Stem *	879.0240535	

* These replacement rubber stems are designed to fit Würth sensors and most OE sensors that need a replacement rubber valve stem. Additionally, the core of the stems are **copper**, and intended to be **self-threading** (not pre-threaded) to ensure a precision tight fit and no air leakage.

Rubber Sensor Replacements:

TPMS Sensor - Rubber Stem - 315MHZ
Art. No. 879.024052
TPMS Sensor - Rubber Stem - 433MHZ
Art. No. 879.024053



Würth TPMS replacement assemblies are located in this section a couple of pages ahead.

DUAL FREQUENCY TPMS SENSOR, SENSOR AID



Compatible with Würth's Sensor AID Tool
Art. No. 879.02405



Art. No. 879.024054

Features:

- Dual frequency sensor can be used in place of 315mhz and 433mhz sensors.
- Don't waste time looking for the right sensor for the application.
- One TPMS sensor for all applications*

Use this one sensor to reduce inventory SKUs!

**This article replaces:
879.024050, 879.024051, 879.024052, 879.024053**

*Application covers approximately 95% of OE sensors

TIRE PRESSURE MONITORING SYSTEM (TPMS) ACCESSORIES



Art. No. 879.172008

Rubber Snap-in Valve for TPMS

- Tire Pressure Monitoring System replacement valve for GM vehicles
- Length: 5.7 cm
- Diameter: 1.9 cm
- Material: EPDM rubber, brass, and plastic cap
- Includes Torx retaining screw for attachment to sensor body

Note: These valve stems **do not** work with Würth programmable or other programmable sensors.

CRAYON



- Used for marking damaged areas and valve replacement on the tire before removing from the rim

Colour	Art. No.	P. Qty.
White	829.551	12
Yellow	829.552	

PERMANENT CRAYON SWIVEL STICK



Colour	Art. No.
White	829.554
Yellow	829.555

Features:

- Swivel action dispenser
- Marking temperature range: -45 °C to +65 °C (-50 °F to +150 °F)
- Fast drying
- Marks on any surface
- Dries overnight

CRAYON STICK



Colour	Art. No.
Yellow	829.553

Features:

- Marking temperature range: -45 °C to 65 °C (-50 °F to 150 °F)
- Weather and fade resistant
- Lead free
- Fluorescent marks that glow under black light
- Marks well on oily surfaces
- High visibility colour for poorly lit areas
- Marks metal, wood, plastic, concrete, and glass

Application:

- Remove film from tip
- Marks dry overnight

BRAKE ANTI-SQUEAL SPRAY



Art. No. 890.106 230 g

Permanently eliminates disc brake squeal

Applications:

- Spray on back of pads
- Also used on battery terminals for protection

Note: Spray on new brake pads before disassembly of the old unit to allow complete drying time.

ASSORTMENTS



Standard & Metric Brake Line Nut Assortment

Art. No. 964.889

Contents (155 Pieces):
12 popular sizes, size range 3/8"-1/2"
(10 mm-12 mm)



Brake Bleeder Screw Assortment

Art. No. 965.989

Contents (144 Pieces): 21 different sizes of brake bleeder screws in both metric and standard sizes, and 2 different sized rubber caps.

BRAKE PROTECTION PASTE



Art. No. 893.920250 250 g

Extreme high-temperature and high-pressure resistant lubricating, separating and anti-corrosion paste.

Fine metallic and graphite particles in a special grease

- Does not harm sensors on brake systems
- Suitable for ABS brake systems and ASR and ESP systems

Heat-resistant up to 1100 °C

- Burning-on of parts on brake systems is effectively prevented
- Protects against carbon fusion

Great, long-lasting lubrication effect

- Prevents braking and squeaking noises
- Prevents galling on steel to stainless steel, titanium, magnesium and other hard metals

Protects parts even in corrosive environments

- Resists alkaline solutions, most chemical and acid vapours, road salt, steam, salt water, iodized water

Silicone, lead, molybdenumdisulfate, and AOX-free

High-pressure resistant

Very highly anti-corrosive

Use:

- Lubricating, separating and anti-corrosion paste for parts on vehicle brake systems, mounting aids on machines, etc. For the prevention of insertion damage and wear on bearings, sliding points and screw and plug connections.

Technical Data	
Colour	Copper
Temperature	-55 °C to +1100 °C (-67 °F to +2012 °F)
Solvent resistance	Excellent in water, salt water and ionized water
Particle size	Max 25µm
Density (g/cm ³)	1.38 - 1.42
NLGI Grade	1/2, D-217 (ASTM Method)
Worked penetration	250 - 290, D-217-A (ASTM Method)
Flash point	> 250 °C (>482 °F), D-92 (ASTM Method)
Coefficient of friction	0.065 - 0.075, Shell 4 Ball Method
Shelf Life	5 years

Note: Do not apply to brake discs and brake friction lining.

ALUMINUM ANTISEIZE PASTE



Art. No. 890.921284 284 g

Superior anti-seize and high-pressure lubricant

- Formulated to lubricate under the most adverse brake conditions, assuring that critical caliper pins, sleeves, bushings and pistons remain lubricated throughout pad life
- Graphite and fine aluminum particles in a special grease protect parts even in high-heat, high-pressure and corrosive environments
- Excellent on rolling and sliding surfaces operating in wet or dry conditions
- Compatible with internal and external brake rubber and plastic hardware
- Lid mounted brush for convenient application
- Temperature range: -185 °C to +1100 °C (-300 °F to +2000 °F)

Note: Keep lubricant off pads and rotors.

CE 1650 CERAMIC PASTE



Extremely high temperature resistance

- Temperature resistance from -46 °C to +1650 °C (-50 °F to +3000 °F)
- Non-melting

Compatible with internal and external brake rubber and plastic hardware

- Including ethylene-propylene rubber
- Can be used in many applications

100% synthetic lubricant

- Non-petroleum formulation

Silicone-free

Note:

This product is not compatible with silicone lubricants typically used to grease brake sliders; all old silicone MUST be cleaned using a solvent before the ceramic brake paste is applied. Keep lubricant off pads and rotors.

Designation	Contents	Art. No.
Canister with brush	227 g	893.923284

BRAKE PROTECTION



Art. No. 893.116010 3 g

High temperature resistant brake assembly paste

- Prevents corrosion and squeaks
- Splash and salt water resistant
- Very good permanent lubricating effect

Benefits:

- Temperature resistant up to 1400 °C (2552 °F) (prevents seizing of brake pads due to burning)
- Temperature range: -40 °C up to +1400 °C (-40 °F to 2552 °F)
- Free of metal, therefore particularly well suited for vehicles with ABS systems

Areas of application:

- Preventative disassembly aid for brake pads in motor vehicle brake systems
- Assembly work of machinery
- Prevention of running-in damages, friction and wear in bearings, glide sections, screwed and plug-in connections
- Can also be used to prevent seizing of stainless steel connections
- Comes in convenient one-time use packets; box quantity of 50

BRAKE FINISHING TREATMENT



Spray treatment designed to prevent brake noise at the source. Effective on all types of automotive brake systems

Features:

- Suitable for rotor and drum brake systems
- Noise prevention at the source
- Tacky, non-slip formula
- Durable
- Aerosol can

Recommended:

Anti-Squeak Spray **Art. No. 890.106**

Brake Protection **Art. No. 893.116010**

Brake and Parts Cleaner **Art. No. 890.9...**

Benefits

- Micro-fine aluminum particles fill and bond to grooves, irregularities and inclusions, creating a composite, metallized friction surface. This results in smooth, silent braking performance.
- Applied directly on the rotor or drum
- Formula eliminates brake squeal by dampening and absorbing pad vibration
- Protects from water and high temperatures
- Easy and fast to apply

Contents	Colour	Art. No.
255 g	Silver	8859.110009

DOT 4 BRAKE FLUID



For vehicle hydraulic brake and clutch systems that require the use of a synthetic brake fluid in accordance with DOT 4.

Features:

- Synthetic fluid that can be mixed with all synthetic brake fluids of the same quality
- Reduced formation of steam bubbles thanks to its very high dry and wet boiling points
- Excellent corrosion protection for all metal parts of the brake system
- Compatible with all hoses and seals that are present in a brake system
- Protection against wear and foam formation

Notes:

- Change the brake fluid only in accordance with the vehicle manufacturer's instructions
- Under no circumstance mix the brake fluid with automatic transmission fluids (ATF) or mineral oils
- Brake fluid has a solvent effect on paints => avoid contact with painted surfaces
- Brake fluid is hygroscopic
- Can be used with the tap 891.302.01. The tap must only be used to pour brake fluid.
- After use and during storage, always seal the canister with the original lid.

Art. No.	892.0095
Colour	Yellow/Amber
Quantity	5L
Dry Boiling Point	Min. + 265°C by DIN ISO 4925
Wet Boiling Point	Min. + 175°C by DIN ISO 4925

BRAKE FLUID TESTER



Art. No. 715.53200

Handy tester for determining brake fluid quality (DOT4).

- 5 LEDs for accurate indication of water content in the brake fluid in stages of 0%, < 1%, approx. 2%, approx. 3%, > 4%
- Robust with protective cap for professional use
- For use in car, truck and motorcycle workshops and in service areas
- Battery not included



PVF COATED BRAKE LINES



Poly Vinyl Fluoride (PVF) coated steel brake lines.

- Extends the life of brake lines.
- Provides significant protection against rock salt, sand, and the more recently used and far more corrosive liquid sodium chloride.

Tube Dia.	Length	Union		Art. No.	P. Qty.
		Thread dia.	TPI/ Thread Pitch		
3/16"	12"	3/8"	24	889.312	10
	20"	3/8"	24	889.320	
	30"	3/8"	24	889.330	
	40"	3/8"	24	889.340	
	51"	3/8"	24	889.351	
1/4"	12"	7/16"	24	889.412	
	30"	7/16"	24	889.430	
	40"	7/16"	24	889.440	
	51"	7/16"	24	889.451	
	60"	7/16"	24	889.460	
5/16"	20"	1/2"	20	889.5201	5
3/8"	20"	5/8"	18	889.620	

Tube Dia.	Length	Union		Art. No.	P. Qty.
		Thread dia.	TPI/ Thread Pitch		
3/8"	51"	5/8"	18	889.651	5
	60"	5/8"	18	889.660	
	72"	5/8"	18	889.672	
10 mm bubble	8"	10 mm	1.0 bubble flare	889.708	
	12"	10 mm	1.0 bubble flare	889.712	
	20"	10 mm	1.0 bubble flare	889.720	
	30"	10 mm	1.0 bubble flare	889.730	
	40"	10 mm	1.0 bubble flare	889.740	
10 mm invert	60"	10 mm	1.0 bubble flare	889.760	
	12"	10 mm	1.0 Invert flare	889.812	
	20"	10 mm	1.0 Invert flare	889.820	

PVF COATED BRAKE LINES



Poly Vinyl Fluoride (PVF) coated steel brake line coils.

- Extends the life of brake lines.
- Provides significant protection against rock salt, sand, and the more recently used and far more corrosive liquid sodium chloride.
- Very easy to bend and flare.

Dia.	Length	Art. No.	P. Qty.
3/16"	25'	889.7	1
1/4"	25'	889.8	
5/16"	25'	889.9	

CUPRO NICKEL BRAKE LINES



CUPRO Nickel Brake Line coils.

- Far superior quality brake line that is unaffected by the effects of liquid calcium and rock salt solutions.
- Special alloy made of 88% copper, 10% nickel and 2% iron.
- Very high resistance to sand and road debris.
- Extruded seamlessly from an ingot.
- Meets S.A.E. standard 1677 for brake lines on surface vehicles.

Dia.	Length	Art. No.	P. Qty.
3/16"	25'	889.3	1
1/4"	25'	889.4	
5/16"	25'	889.5	
3/8"	25'	889.6	

SINGLE SWIVEL CRIMPED AIR BRAKE ASSEMBLIES D.O.T.



D.O.T. approved air brake hose assemblies. One end swivels with MPT adapter, the other with rigid MPT adapter.

Hose ID	Swivel End MPT	Rigid End MPT	Length	Art. No.	P. Qty.
3/8"	1/4"	1/4"	32"	884.HAB-6-32B	2
3/8"	3/8"	3/8"	18"	884.HAB-6-18C	
3/8"	3/8"	3/8"	24"	884.HAB-6-24C	
3/8"	3/8"	3/8"	28"	884.HAB-6-28C	
3/8"	3/8"	3/8"	30"	884.HAB-6-30C	
3/8"	3/8"	3/8"	36"	884.HAB-6-36C	
3/8"	3/8"	3/8"	48"	884.HAB-6-48C	
1/2"	3/8"	3/8"	18"	884.HAB-8-18C	
1/2"	3/8"	3/8"	20"	884.HAB-8-20C	
1/2"	3/8"	3/8"	24"	884.HAB-8-24C	
1/2"	3/8"	3/8"	28"	884.HAB-8-28C	
1/2"	3/8"	3/8"	30"	884.HAB-8-30C	
1/2"	3/8"	3/8"	32"	884.HAB-8-32C	
1/2"	3/8"	3/8"	36"	884.HAB-8-36C	
1/2"	3/8"	3/8"	42"	884.HAB-8-42C	
1/2"	3/8"	3/8"	48"	884.HAB-8-48C	

STEEL BRAKE LINES



Standard		
Tube Size	Length	Art. No.
3/16	12	884.BL-3-12
	20	884.BL-3-20
	51	884.BL-3-51
	60	884.BL-3-60
	72	884.BL-3-72
1/4	20	884.BL-4-20
	60	884.BL-4-60

European Standard		
Tube Size	Length	Art. No.
3/16	12	884.BLE-3-12
	20	884.BLE-3-20
	30	884.BLE-3-30
	30	884.BLE-3-30
	60	884.BLE-3-60

Armored		
Tube Size	Length	Art. No.
3/16	12	884.BLA-3-12
	30	884.BLA-3-30
	40	884.BLA-3-40
	40	884.BLA-3-40
	60	884.BLA-3-60

Nuts are Colour Coded Green 10x1.0 mm
Thread Bubble Flare



S.A.E. - 527 steel brake line tubing			
Outside Dia.	Wall Thickness	Coil Length (ft.)	Art. No.
3/16	.028	25	884.BLT-3-25
1/4			884.BLT-4-25
5/16			884.BLT-5-25

BRAKE LINE NUT AND ADAPTER KIT



Replaces old **Art. No. 884.BLN-KIT-1**

Art. No. 964.8895

Description	Tube	Thread	Art. No.	Qty.
Union Coupling Tube to Tube	3/16		884.142-3	10
Union Coupling	1/4		884.142-4	10
Union Coupling	5/16		884.142-5	4
Union Coupling	3/16	M10 x 1.0	884.142EU-3	1
Union Coupling	3/16	M10 x 1.0	884.142JA-3	1
Steel Nut	3/16	3/8-24	884.S141-3	10
Steel Nut	3/16	7/16-24	884.S141-3716	10
Flare Invert Steel Nut	3/16	1/2-20	884.S141-31/2	10
Steel Nut	3/16	9/16-18	884.S141-3916	6
Flare Invert Steel Nut	1/4	7/16-24	884.S141-4	10
Flare Invert Steel Nut	1/4	1/2-20	884.S141-41/2	6
Steel Nut	1/4	9/16-18	884.S141-4916	6
Flare Invert. Steel Nut	5/16	1/2-20	884.S141-5	6
Specialty Nuts	3/16	M10x1.0	884.SE141-3	10
Invert. Special Nut 45°	3/16	M11x1.5	884.SE141311M	6
Invert. Special Nut 45°	3/16	M12x1.0	884.SE141312M	6
Invert. Special Nut 45°	3/16	M13x1.5	884.SE141313M	6
Adapter Tube to Tube EU	3/16	M10 x 1.0	884.SE143-3	1
Fuel line Nut GM	5/16	14mmx1.5	884.SFL514M	4
Fuel line Nut GM	3/8	16mmx1.5	884.SFL616M	4
Specialty Nuts Jap Standard	3/16	M10x1.0	884.SJ141-3	5
Adapter Tube to Tube JA	3/16	M10 x 1.0	884.SJ143-3	1
Steel Nut Long Style	3/16		884.SL141-3	10
Steel Nut Long Style	1/4		884.SL141-4	10
Steel Nut Long Style	3/16	M10x1.0	884.SLJ141-3	5

BRAKE LATHE TIPS



AMMCO Models

Art. No. 690.7311



FMC Models

Art. No. 690.7312



KWIK-WAY Models

Art. No. 690.7313

Carbide inserts maintain sharp cutting tools for optimum performance

- Fits today's most popular brake lathe machines
- Carbide construction extends cutting life
- Reduced "chattering" during cutting

BRAKE BLEEDER SCREWS



Also available:

Brake Bleeder Screw Assortment Kit **Art. No. 965.989**



- Rubber caps for bleeder screws

- Replacement brake bleeder screws
- Allows unwanted air to be purged from braking systems

Length	Outer Dia.	Collar Dia.	Inner Dia.	Art. No.	Qty.
7/8" / 22 mm	7/16" / 11 mm	1/2" / 13 mm	7/32" / 5.5 mm	989.9451	10
9/16" / 14 mm	3/8" / 10 mm	1/2" / 13 mm	3/16" / 4.7 mm	989.9450	

Thread Dia.	Thread Pitch	Length	Art. No.	P. Qty.
3/8"	3/8-24	1.36"	989.9400	6
3/8"	3/8-24	1.11"	989.9402	
5/16"	5/16-24	1.06"	989.9403	
1/4"	1/4-28	.92"	989.9404	
8 mm	M8x1.25	23.5 mm	989.9405	
10 mm	M10x1.25	27.5 mm	989.9406	
10 mm	M10x1.0	27.5 mm	989.9407	
10 mm	M10x1.0	32.75 mm	989.9409	
10 mm	M10x1.0	35.0 mm	989.9410	
7 mm	M7x1.0	32.0 mm	989.9411	
10 mm	M10x1.0	38.5 mm	989.9412	
7 mm	M7x1.0	38.55 mm	989.9413	
7/16"	7/16-20	1.27"	989.9415	
8 mm	M8x1.0	38.0 mm	989.9416	
1/4"	1/4-28	1.045"	989.9417	
10 mm	M10x1.25	33.0 mm	989.9421	
8 mm	M8x1.25	32.7 mm	989.9422	
7/16"	7/16-24	1.475"	989.9427	
8 mm	M8-1.25	36.0 mm	989.9428	
8 mm	M8-1.0	26.29 mm	989.9430	

BRAKE LINE NUTS



Art. No. 889.500

M10 x 1.0

Straight Form

Brake Line Dia.: 4.75 mm

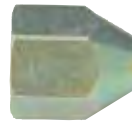


Art. No. 889.501

M10 x 1.0

V-Form

Brake Line Dia.: 4.75 mm



Art. No. 889.507

M10 x 1.0

3/8" UNF-24

Brake Line Dia.: 4.75 mm



Art. No. 889.508

M12 x 1.0

Brake Line Dia: 4.75 mm



Art. No. 889.509

M12 x 1.0

V-Form Brake Line Dia.: 6 mm



Art. No. 889.510

M10 x 1.0 (long)

Brake Line Dia.: 4.75 mm



Art. No. 889.523

M10 x 1

Brake Line Union

Actual Size Not Shown



Steel Brake Line Tubing

Outside Dia.	Wall Thickness	Art. No.
3/16	0.28	884.BLT-3-25
1/4	0.28	884.BLT-4-25
5/16	0.28	884.BLT-5-25



Art. No. 964.889

Assortment

Contents: 12 popular sizes, size range 3/8" - 1/2" (10 mm - 12 mm)

EXHAUST ASSEMBLY PASTE



Art. No. 890.100045 140 mL

- Soft paste for fast, easy and totally gas tight sealing of flanges and sleeve fittings in the exhaust system
- No welding necessary
- The paste becomes metal hard with exhaust heat
- Temperature resistance up to approx. 700 °C (1292 °F)
- Seals permanently
- Shock and vibration resistant
- No corrosion in joints, therefore easy disassembly
- No welding required! This accommodates a safe, quick, exhaust system installation

LIQUID METAL



Art. No. 893.449 178 mL

The ideal, quick repair system for fitters and workshops in the field of metalworking. Especially good for filling moulds, sealing and filling in leaks.

- Fe 1 is a high grade, two-component reaction resin system which is formulated specifically to obtain metalline characteristics.
- The ideal mixing ratio of the components (A:B = 1:1; press two strands of equal length out of the tubes) makes it practically impossible to mix the repair compound incorrectly.
- Fe 1 is specifically designed for small repair jobs which must be performed quickly.
- Fe 1 can be applied with a spatula without it running down, so it can also be used for work on a vertical plane.
- After hardening, Liquid Metal Fe 1 can be machined like metal without difficulty by turning, milling, drilling, filling or thread cutting.

Note: Works on various metals such as aluminum, copper and steel.

Application Table				
Abrasion on:	Sealing leaks in:	Shrinkage cavities in:	Running-in damage to:	Manufacture of:
Pump casings	Radiators	Grey cast iron during casting operations	Shafts	Moulds
Impellers	Tanks		Hydraulic cylinders	Holders
Propellers	Water reservoirs	Grey cast iron when machining	Engine blocks	Models
Rudders	Water pipes		Bearing seats	Guides
Heat exchangers	Oil lines		Crank cases	Prototypes
Condensers	Housings			
Dust lines				
Gravity chutes				
Hoppers				
Studs				
Torn-out threads				

Technical Information	
Mixing Ratio	Component A: Component B = 1:1
Initial setting time	7-12 min. (room temperature)
Full hardening time	4-24 h (room temperature)
Pot life	5 min. / 20 g (room temperature)
Consistency	Cannot run down
Spec. gravity	2.80 with Components A and B mixed
Compressive strength	70 N/mm ²
Tensile strength	12.5 N/mm ²
Shear tensile strength	14.5 N/mm ²
Thermal stability	0.7 Kcal/mh°C, -60°C to +120°C
Dimensional stability / Martens	+40°C
Coefficient of thermal expansion	+40x10-6/1°C
Malleable	up to +120°C/1h
Storage stability	Min. 2 years



Repair of small-size engine cover



Bearing seats, repaired and then reworked

METAL EPOXY STICK



Art. No. 893.449012 114 g

Features:

- Hand kneadable, steel reinforced epoxy putty that easily mixes to provide fast repairs.
- This putty-like consistency eliminates drops and runs for a “no mess” application.
- Cures like hardened steel. Can be tapped, drilled, sanded, machined and filed.
- Excellent adhesion to metal, plastic, glass, and copper.

Instructions:

- The surface must be clean, and free from grease. Cut off the quantity required and mix putty together until an even color has been achieved.

Technical Data:	
Work Life	3 to 5 minutes
Compression Strength	1200 PSI (ASTM D-695)
Lap Shear Tensile Strength	800 – 1000 (ASTM D-2240)
Chemical Resistance	Hydrocarbon, alcohols, esters, halocarbons, salt-water, dilute acids and bases
Electrical Resistance	30,000 megohms (ASTM D-257)
Dielectric Strength	300 volts/mil (ASTM D-149)

DIESEL INJECTOR CLEANER



Art. No. 5861.011400 473 mL

- Helps remove and prevent fuel-related deposits such as carbon and varnish in injectors and fuel pump
- Increases operating efficiency of all types of diesel engines
- Improves performance (increased power and torque)
- Decreases emissions and fuel consumption
- Improves flow properties of diesel fuels in cold weather by preventing wax build-up in the fuel, for improved cold-weather starting
- Helps extend fuel injector, fuel pump and fuel filter life by reducing wear
- Methyl-hydrate free, alcohol free
- 1 container treats up to 125 gallons (475 L) of diesel fuel

AIR INTAKE AND THROTTLE VALVE CLEANER



Art. No. 5861.113500 432 g

Special, highly active system cleaner for 2-cycle and 4-cycle engines.

Features:

Removes deposits and contaminants in the air intake and throttle valve and carburetors area. No dismantling work required. Calibrated bores and nozzles can also be cleaned with it. Suitable for catalytic converters.

Smooth engine running

- Faults caused by soiled throttle valves or carburetors are eliminated.

Outstanding cleaning performance

- Optimum carburetor performance
- Faultless throttle valve operation

Overhead valve

- Hard-to-access spots can be reached

Application:

Spray the parts to be cleaned heavily while the engine is not running and allow the active substance to soak in for 2 to 3 minutes. Then spray into the intake and throttle valve area with the engine running and increase the speed slightly to loosen deposits.

Note: Replacement for 893.10 Carburetor Cleaner

STARTING FLUID



Art. No. 890.991010 212 g

Würth Starting Fluid is the perfect solution for engines that won't start in cold, wet and freezing temperatures.

- Designed to instantly start gasoline engines
- For use in extreme cold or humid weather
- Contains lubricants and anti-corrosive additives.
- Saves time, battery and cylinder wear.
- Improved spray pattern

Application:

Hold can in upright position. Spray 1 or 2 seconds bursts into air intake system (air cleaner, carburetor or intake manifold). Avoid excessive application. With air cleaner in place, start engine - Do not start while spraying. If engine fails to start after you have done this several times have your ignition system checked.

Caution: Do not use in Diesel engine with glow plug.

Note: Please note that our product contains approximately 40-45% of ether, making it less hazardous and flammable than the standard products; it also contains a blend of additives to make it more efficient in cold starting situations.

V-BELT SPRAY



Art. No. 893.230 269 g

- Prevents slipping, transfers full working output, eliminates squeaking
- Eliminates readjustment work with minor belt slip due to cold, moisture or due to normal elongation
- AOX-free

Use:

Fit spray head and spray along belt with spray tube close to inside of belt. Or spray on inside point with engine running for approx. 5 seconds. Clean running surfaces before initial use.

AIR INTAKE SYSTEM CLEANER



Art. No. 5861.112400 425 g

Oxygen sensor safe and catalytic converter safe

- Cleans air throttle valves
- Cleans throttle bodies
- Cleans idle air control valves
- Residual product may be absorbed with a shop cloth
- Idle air control valves may be cleaned if removed
- Throttle valve linkages may be also sprayed clean with this product.

Note: Extremely flammable, do not use unless the vehicle is cool.

ENGINE FLUSH AND FUEL INJECTOR CLEANER



Fuel Injector and Valve Cleaner

473 mL Available separately as

Art. No. 5861.111301

A powerful fuel additive, formulated using technologically-advanced deposit-control additive chemistry that will provide the following benefits when used as directed.

- Rapid clean-up performance on fuel injectors
- Clean-up performance on intake manifolds, intake valves & ports and the entire fuel system (fuel lines, fuel tank)
- Improved fuel combustion resulting in increased power and performance
- Reduced fuel consumption and emissions
- Elimination of knocking and pinging caused by deposit build-up (hot spots) in the combustion chambers and prevention of engine octane requirement increase
- Oxygen sensor and catalytic converter safe
- Meets & Exceeds OEM Service Requirements

Engine Flush

350 mL

Art. No. 5861.310401

A proprietary blend of solvents, detergents & dispersant additives that will effectively dissolve oil contaminants to aid in their removal from the engine.

- Will thin out heavily-oxidized or thickened oil
- Will break down sludge and varnish deposits which can then be drained out with the used oil

Note: Engine Service Kit **Art. No. 965.8909** is discontinued. We will continue to carry Engine Flush **Art. No. 5861.310401** and Fuel Injector and Valve Cleaner **Art. No. 5861.111301** (sold individually)

ENGINE SHAMPOO



Art. No. 893.013055 454 g

Cleans and degreases engines or any oily metal surfaces

- A clean engine allows heat to dissipate more quickly, thus running more efficiently.

SEALANT REMOVER



Art. No. 893.1000 220 g

Removes sealant materials, adhesives, paints in only a few minutes

- In only a few minutes this product removes the remains of solid gaskets, e.g. cylinder head and exhaust manifold seals, hardened adhesive, e.g. cyanogen acrylate and anaerobic products, paints, lacquers, oil, grease, resin
- Can be used on objects made of metal, wood, glass, ceramic, polyethylene and polypropylene
- Simple application method to save time
- Can also be used on vertical surfaces
- Surfaces of polished metals protected by a corrosion protection additive

INJECTOR-EX INJECTOR SOLVENT



Mineral oil free injector and spark plug solvent with KENA® microfluid formula

Special product for loosening injectors and spark plugs in assemblies and engines

- Gentle action, as seized connections can be loosened without substantial force application and the use of tools
- Product has long-lasting effect, that penetrates deeply and thus ensures optimal work results
- Can be used on both diesel and gasoline engines

KENA® microfluid technology

- Excellent creeping characteristics facilitates deep penetration of the product

- Very heavily coked injectors and spark plugs are efficiently loosened
- Effect is enhanced by slow evaporation, rust is transformed and coking is solvated
- Very cost-effective application

Safe for people and the environment

- Owing to highly effective, mild and environmentally safe ingredients

Application:

Special product for loosening rusted and oxidized injection nozzles, injectors and spark plugs in engines and assemblies.

Container	Contents	Art. No.
Aerosol	190 g	893.300250

ENGINE WASH



Environmentally friendly engine cleaner concentrate for the engine, engine compartment and gear box

An element of our ecologically sound product range

- State-of-the-art product reducing environmental impact
- Reduces potential danger in daily use
- Saves raw material resources
- Prevents waste
- Highest quality for highest demand

Characteristics:

- Removes oil, grease and other dirt thoroughly and quickly
- Very high cleaning performance
- Biodegradable >95 % (OECD test and closed flask test)
- Rapidly separating according to Ö-Norm test B 5105, so that dirt containing oil and grease is not emulsified but infiltrated and washed out. Therefore the waste water generated can be separated in a light-oil separator
- Does not contain AOX compounds, organic solvents, phosphate or complex agents

- Slightly viscous resulting in optimum cleaning results even on vertical surfaces
- Gentle on skin
- Not aggressive to sensitive surfaces
- Silicone free

Effect:

- Engine wash is slightly viscous causing the cleaner to adhere even to vertical surfaces. During reacting time the cleaner can then penetrate the dirt and remove it thoroughly.
- Can be diluted up to 1:10!

Result:

- Engine, engine compartment and gear box are cleaned thoroughly and environmentally compatible, whereas sensitive surfaces, e.g. aluminum, tin, zinc, painted surfaces, plastic components, and rubber are not affected on account of missing aggressive agents and a neutral pH value.

Contents	Art. No.
5 L	893.01305
20 L	893.01320

Technical Information	
pH Value	8.5
Dilution	1:10

EVAPORATOR CLEANER AND DEODOURIZER

Art. No. 893.764500 482 g



Eliminates odours caused by mold, mildew, fungus and other contaminants such as tobacco, in the A/C evaporator

- Foaming cleanser eliminates stale odour fast
- Includes improved spray hose
- Safe for all mobile and stationary A/C evaporators
- Fast acting, long lasting odour control formula
- One can be used for multiple vehicles
- To be used into drain tube (source of condensation drip)
- The foam will expand in the evaporator, break down and drain from the evaporator through the drain tube
- Safe for all the sensors and electronics you find in an evaporator.

EUROCLEAR PRO 2:1 URETHANE CLEARCOAT



Product	Content	Art. No.	P. Qty.
2:1 Clearcoat	5 L	5866.200106	1
Slow activator	2.5 L	5866.400110	
Standard activator		5866.400111	
Fast activator		5866.400112	

Dry and Flash Time

	Slow	Standard	Fast
Flash Time	15-20 min	10-15 min	5-10 min
Tack Free	1 hr	45 min	20 min
To Sand	6-8 hrs	3-6 hrs	3-6 hrs
To Buff	6-8 hrs	3-6 hrs	3-6 hrs
To Deliver	6-8 hrs	3-6 hrs	3-6 hrs

Mix Ratio: 2:1 (Clearcoat 2 parts : Activator 1 part)

Stir thoroughly between each addition and strain before spraying material

Application:

1. Allow the final coat of basecoat to dry in accordance with manufacturer's directions.
2. Use a tack cloth to remove any surface contaminants that may have settled on the basecoat.
3. Apply two full wet coats to a maximum of 6 mils wet, allowing 10 to 15 minutes flash time between coats or as conditions dictate.

Notes: DO NOT apply over non catalyzed acrylic or synthetic enamels or acrylic lacquer finishes.

- It is important to test the compatibility of this product with your paint system. This product is not recommended for use in temperatures below 16°C.
- The use below these temperatures will affect dry times, performance and finish. Always keep containers closed to prevent moisture contamination.

Force Drying:

- Purge Time: 40 min
- Bake Time: at 140°F: 40 min
- Allow the final coat to flash for 20 minutes before baking. May be wet sanded and buffed after 1 hour of cool down time. Baking will increase gloss.

Repairing and Recoating:

- May be recoated after 8 hours of dry time or upon cool down after force drying. After 24 hours, Euroclear must be sanded with 1200 to 1500 grit before recoating.

Many factors beyond Würth's control and uniquely within user's knowledge and control can affect the use and performance of a Würth product in a particular application. Given the variety of factors that can affect the use and performance of a Würth product, user is solely responsible for evaluating the Würth product and determining whether it is fit for a particular purpose and suitable for user's method of application. Würth makes no warranty, either expressed or implied, and specifically excludes any implied warranties or conditions of quality, whether of merchantability, fitness or otherwise. On any claim, irrespective of the legal theory invoked, Würth's total liability shall not exceed the purchase price of the product. In no event shall Würth be liable for any damages of any type, or for loss.

A European style, low VOC, medium solid 2:1 mix urethane clearcoat formulation

Features:

- Versatility with three activators: Fast, Standard, Slow
- High gloss, fast dry finish with superior depth of image that will perform with water-based and solvent-based basecoat systems
- Easy to spray, polish and buff.

Advantages:

- Easy application, polishing and buffing
- Durable, high gloss
- Superior depth of image
- Fast drying

Suitable surfaces:

- Automotive refinish basecoats (water and solvent based)
- Automotive refinish single stage
- Existing finishes that have been sanded and cleaned

Note: Clearcoat should not be applied over acrylic lacquers or existing finishes which have not been sanded.

Pot Life

Activator	Time
Slow	1.5 hrs
Standard	35-45 min
Fast	25-35 min

Note: Pot Life will shorten as temperatures increase.

Not recommended for use in temperatures below 16°C.

EUROCLEAR 4:1 URETHANE CLEARCOAT



A high solids formulation that offers exceptional value and versatility for spot, panel, and overall repair.

Features:

- Versatility with three activators: Fast, Standard, Slow
- High gloss, fast dry finish with easy buffing that will perform with most water-based and solvent-based basecoat systems

Suitable surfaces:

- Automotive refinish basecoats (water and solvent based)
- Automotive refinish single stage
- Existing finishes that have been sanded and cleaned

Note: Clearcoat should not be applied over acrylic lacquers or existing finishes which have not been sanded.

Advantages:

- Easy to use
- Durable, high gloss
- Versatility and value
- High solids formulation
- Fast drying

Product	Content	Art. No.	P. Qty.
4:1 Clearcoat	3.78 L	5866.200107	1
Slow activator	0.95 L	5866.400113	
Standard activator		5866.400114	
Fast activator		5866.400115	

Dry and Flash Time

	Slow	Standard	Fast
Flash Time	15-20 min	10-15 min	5-10 min
Tack Free	1 hr	45 min	20 min
To Sand	6-8 hrs	3-6 hrs	3-6 hrs
To Buff	6-8 hrs	3-6 hrs	3-6 hrs
To Deliver	6-8 hrs	3-6 hrs	3-6 hrs

Pot Life

Activator	Time
Slow	1.5 hrs
Standard	35-45 min
Fast	25-35 min

Note: Pot Life will shorten as temperatures increase. Not recommended for use in temperatures below 16°C.

Mix Ratio: 4:1 (Clearcoat 4 parts : Activator 1 part)

Stir thoroughly between each addition and strain before spraying material

Application:

1. Allow the final coat of basecoat to dry in accordance with manufacturer's directions.
2. Use a tack cloth to remove any surface contaminants that may have settled on the basecoat.
3. Apply two full wet coats to a maximum of 6 mils wet, allowing 10 to 15 minutes flash time between coats or as conditions dictate.

Notes: **DO NOT** apply over non catalyzed acrylic or synthetic enamels or acrylic lacquer finishes.

- It is important to test the compatibility of this product with your paint system. This product is not recommended for use in temperatures below 16°C. The use below these temperatures will affect dry times, performance and finish. Always keep containers closed to prevent moisture contamination.

Force Drying:

- Purge Time: 40 min
- Bake Time: at 140°F: 40 min
- Allow the final coat to flash for 20 minutes before baking. May be wet sanded and buffed after 1 hour of cool down time. Baking will increase gloss.

Repairing and Recoating:

- May be recoated after 8 hours of dry time or upon cool down after force drying. After 24 hours, Euroclear must be sanded with 1200 to 1500 grit before recoating.

Many factors beyond Würth's control and uniquely within user's knowledge and control can affect the use and performance of a Würth product in a particular application. Given the variety of factors that can affect the use and performance of a Würth product, user is solely responsible for evaluating the Würth product and determining whether it is fit for a particular purpose and suitable for user's method of application. Würth makes no warranty, either expressed or implied, and specifically excludes any implied warranties or conditions of quality, whether of merchantability, fitness or otherwise. On any claim, irrespective of the legal theory invoked, Würth's total liability shall not exceed the purchase price of the product. In no event shall Würth be liable for any damages of any type, or for loss.

2K RAPID PRIMER FILLER



Universal 2 component primer filler for repairing small and medium sized surfaces on plain steel and existing paints.

Save time and money by working smarter.

- Smooth dispersion of product
- Quick drying
- Excellent sanding and corrosion protection

Benefits:

- Highly suitable for use in minor damage repair
- Can be used as a wet-on-wet application without intermediate sanding

How it works...

The application surface must be clean, dry and grease-free. Lightly sand problematic surface(s). Shake can well for at least 2 minutes before spraying. Remove (red) push button from the cover cap, place it on the pin at the bottom of the can and activate by spraying. Remove push button and dispose of it.

Shake the can well for at least 2 minutes again after spraying. Apply two to three spray coats at a distance of 20 to 30 cm. Allow 10 to 15 minutes between coats. The treated surface can be painted over with all common topcoat paint systems.

DRYING TIMES: Air-Drying: 60 mins / 20°C
IR-Drying: 10 mins / 60°C

Colour	Contents	Art. No.	P. Qty.
Dark Grey	366 g	5867.000122	1

2K RAPID CLEAR COAT



Clear varnish for permanent sealing of touched-up surfaces and newly painted small parts.

Working efficiently cuts costs. Very quick drying, even dispersion two-component clear varnish with excellent resistance to weather, chemicals and gasoline

Advantages:

- High throughput rate
- Fast drying
- Constant atomizing pressure until the can is empty
- Excellent abrasion and scratch resistance
- Suited for small damage repair work

How it works...

Shake can well for at least 2 minutes before spraying. Remove red push button from the cap, place it on the pin on the bottom of the can, push the pin in until it stops and then remove the red push button and dispose of it.

Shake the can well for another 2 minutes. Carry out one or two thin spray passes over the prepared surface.

Be sure to observe the intermediate flash-off time!

Yield per can = approx. 0.5 to 0.75 m²

Dust dry: 7 min, Touch-dry: 6 hrs

NOTE: Processing time after activation is a maximum of 14 hours. After using the can, turn it upside down and spray until valve is empty.

Colour	Contents	Art. No.	P. Qty.
Clear	313 g	5867.000124	1

VAKU 20



Fine filler with high elasticity for closing off existing pores and for repairing small scratches, grooves and uneven areas.

Features:

- Quick drying
- Non-porous
- Brilliant white pigmentation
- Sandable

Benefits:

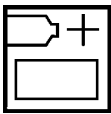
- Colour is perfectly suited for use in model and furniture construction
- Fast, uniform filling of uneven surfaces
- Efficiency reduces further processing (sanding, filling and application of top-coat)
- User-friendly

Applications:

Auto/Cargo	For eliminating minor paint damage, scratches and for closing existing pores and uneven areas in the knifing and universal filler area.
Metal	Extremely fine surface processing for an optimum finish
Wood	Can be used for all types of wood as fine or universal fillers. Not suitable for oily woods. Do not use on heavily weathered surfaces.

Description	Colour	Contents	Art. No.	P. Qty.
Vaku 20	White	2 kg + 40 g hardener	892.60202	1
Hardener	Red	40 g	892.600004	

Note: Vaku 20 Fine Filler was formerly known as MAXI Fine.



Mixing ratio:
2% hardener



Application time:
4-5 mins @
20°C (68°F)



Curing time:
20-30 mins @
20°C (68°F)



Sanding as
required:
80-280 grit

Note: Not suitable for oily woods. Mixing ratio must be measured precisely! Will not harden below 10°C (50°F). Temperature resistant up to 80°C (176°F).

VAKU 30



Universal filler with outstanding properties. Can be used as knifing and fine filler.

Features:

- Excellent adhesion on iron, steel, aluminum, galvanized and hot-galvanized surfaces, GFRP and wood
- Quick drying
- Optimum elasticity for achieving closed, smooth surfaces
- Sandable

Benefits:

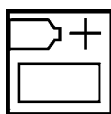
- Excellent preparation for finishing work
- No chipping at edges or reworking with fine filler required
- Fast, uniform filling of uneven surfaces
- Efficiency reduces further processing (sanding, filling and application of top-coat)
- User-friendly

Applications:

Auto/Cargo	In vehicle construction and in motor vehicle repair with universal adhesion on steel, aluminum, zinc, and GFRP.
Metal	For filling shrinkage pores/cavities and welding spots in machine construction. Universal adhesion on steel, aluminum and zinc.
Wood	Excellent as a repair putty for use in the construction industry, wood restoration, and window and door construction. Not suitable for oily woods. Do not use on heavily weathered surfaces.

Description	Colour	Contents	Art. No.	P. Qty.
Vaku 30	Beige	2 kg + 40 g hardener	892.60302	1
Hardener	Red	40 g	892.600004	

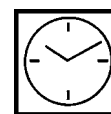
Note: Vaku 30 Universal Filler was formerly known as MAXI Plast.



Mixing ratio:
2% hardener



Application time:
4-5 mins @ 20°C
(68°F)



Curing time:
20-30 mins @
20°C (68°F)



Sanding as
required:
80-280 grit

Note: Not suitable for oily woods. Mixing ratio must be measured precisely! Will not harden below 10°C (50°F). Temperature resistant up to 80°C (176°F).

GOLD BODY FILLER



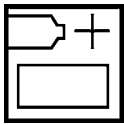
Art. No. 892.68040 3.7 kg

Premium body filler compound, designed to fill and final finish in one step

Features:

- Excellent adhesion to steel, galvanized metal and aluminum
- Can be used as a sandable body filler or sandable glazing putty
- Superior featheredge properties
- Stain free, tack free
- Hardener included
- Colour: Gold

Note: When applying to bumpers, an adhesion promoter must be used, such as our Olefenic Plastic Adhesion Promoter Art. No. 893.91013.



Mixing ratio:
2% hardener



Application time:
3-5 mins



Curing time:
20 mins



Sanding as required:
40-120 grit for body filling,
120-240 grit for glazing

WÜRTH FINAL TOUCH



Art. No. 892.67900 710 mL

Self-levelling fine finish glazing putty for pin holes, sanding scratches and minor imperfections

Features:

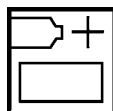
- Can be spread over a much larger surface area than conventional putties
- Allows imperfections to be filled without altering contour
- Can be spread extremely thin and sanded to a fine feather edge
- Hardener included
- Colour: Green

Applications:

Use on sanded substrates, steel, galvanized steel, and aluminum

Note:

Do not mix with fibre filled body fillers. When applying to bumpers, an adhesion promoter must be used, such as our Olefenic Plastic Adhesion Promoter Art. No. 893.91013.



Mixing ratio:
2% hardener



Application time:
3-5 mins



Curing time:
20 mins



Sanding as required:
120-180 grit

THICK PRIMER FILLER



Corrosion protection with excellent filling and covering power for metallic surfaces

Very good adhesion

Adheres to aluminum, bare and galvanized sheet metal, old paint, etc.

Long-lasting corrosion protection

Quick drying

Depending on layer thickness, can be painted over in approx. 10 - 15 min.

Optimum covering and filling power

Easy, professional covering of small uneven areas, scratches and traces of sanding.

Very good stretching and run-off behaviour

Heat resistant up to 110 °C (230 °F)

Very easy to sand

VOC*-compliant

Solvent reduced, Complies with the VOC minimum, content specified in the VOC Directive (1999/13/EC)

* Volatile Organic Compound

Properties:

Flexible thick primer filler with short drying time, corrosion protection and very good adhesion properties, also in conjunction with PU and MS polymer sealing compounds. For professional repair of small uneven areas, scratches and traces of sanding.

Applications:

Spot repair, accident repair, body repair, paint work.

Description	Colour	Contents in mL	Art. No.
Thick Primer Filler	Grey	372 g	893.2121

BODY FILLER ADDITIVE



Art. No. 892.68050 473 mL

Restores dry body fillers, reduces pinholes

Properties:

- Use to change the texture of any body filler
- Restores the condition of dried-up body fillers

SET OF PUTTY KNIVES



Art. No. 993.1100

- Plastic spreader set in 5, 8, 10 and 12 cm widths
- For the application of 1K and 2K putty/filler materials
- Highly flexible
- For filling and remodelling work
- Pack of 4

PUTTY MIXING BOARD



Art. No. 891.586417

The putty mixing board is a very beneficial tool for every professional body shop. It simplifies the mixing of putty materials.

Features:

- Contains 100 silicone free layers of specially impregnated paper
- Comes with a quality spreader

Benefits:

- Simplifies the mixing of putty materials
- Increases productivity; no searching for a quality medium to mix the putty on

STAINLESS STEEL JAPANESE SPATULA SET



Art. No.695.940930 4 pcs

Rustproof stainless steel
Acid-resistant, high-quality plastic back

Applications:

- For applying and smoothing filler and plaster on smaller surfaces

Contents of set	
Width (mm)	Qty
50	1
80	
100	
120	

Use with:
Würth VAKU Fillers
 Prefix 892...



PAINT MIXING CUPS AND LIDS



Paint mixing cups with measurement scale printed on the inside for greater accuracy and ease of use

Features:

- Disposable cups for mixing and storing paint materials and stains
- Integrated mixing scales (1:1, 2:1, 3:1, 4:1 and 5:1)

Description	Size (mL)	Art. No.	P. Qty
Cup	385	705.800110	25
	750	705.800120	
	1400	705.800130	
Lid	385	705.800111	
	750	705.800121	
	1400	705.800131	

WÜRTH REPLACEABLE CUP SYSTEM LID AND FILTERS



Features:

- Patented lid system with automatic ventilation of cup for constant pressure conditions and perfect spraying pattern.
- Used in conjunction with paint mixing cup (Art. No. 705.800120)
- Integrated air-flow/paint-stop valve

Designation	Art. No.	P. Qty.
RCS 0.75 l. lid for Würth paint mixing cup	705.800161	100
125 micrometer filter strainer for the lid of the Würth Replaceable Cup System (blue)	705.800152	
200 micrometer filter strainer for the lid of the Würth Replaceable Cup System (green)	705.800162	

ADAPTER FOR WÜRTH REPLACEABLE CUP SYSTEM (RCS)



Figure	Designation	Art. No.	P. Qty.
1	RCS adapter for IWATA airbrushes with 16 x 1.5" connecting thread	891.700225	1
2	RCS adapter for SATA airbrushes with 16 x 1.5" connecting thread (incl. Würth AP and AP HVLP)	891.700226	
3	RCS adapter for Devilbiss airbrushes with 16 x 1.5" connecting thread	891.700227	
4	RCS adapter for SATA airbrushes with QCC connection	891.700228	

SPRAYABLE SEAM SEALER



Single component, MS polymer-based sealant range.

- Waterproof, cures to result in a soft and elastic consistency with air humidity.
- Free of isocyanate.
- Does not need a primer (preliminary tests recommended).
- Fully cured in approximately 24 hours. (~3mm/25h - At 23°C and 50% Relative humidity)
- Can be used with a caulking gun or spray equipment.
- Where applied it improves the resistance against stone chip and other attacks to the car body.
- Can be easily extruded and tooled for sealing overlapping seams, welded seams and construction seams in the automotive and industrial field.

- Effectively bonds to steel, aluminum, galvanized metal, fiberglass, urethane, epoxy, polyester, water-based primers, glass, and many plastics

Applications:

Application surface must be free of dust, oil, wax, grease or any other contaminant that will disrupt bonding. Any old paint residues or adhesives should be removed completely before applying the product on the target surfaces.

Designed to be used in industrial and automotive applications such as interior and exterior body seams (door skins, rocker panels, rear body panels, trunk seams, floor pans, etc.)

Compatible with:

360 Rotating nozzle Art. No. 891.6533
Pneumatic Application Gun PS 3 Art. No. 891.628
Combifix gun Art. No. 891.6286

Colour	Contents	Art. No.
Black	290 ml	893.910400
White		893.910401
Grey		893.910402
Beige		893.910403

BRUSHABLE SEAM SEALER



Art. No. 890.1021 932 ml

Features:

- Seals seams and joints that are spot welded, riveted or bolted
- Brushable, low odour formula
- Duplicates OEM appearance
- Will not sag or crack
- Permanently flexible
- Permanent adhesion to bare or painted surfaces, will adhere wet or dry
- Temperature range from -17 °C to +80 °C (-13 °F to +176 °F)
- Touch dry/paintable in 20-30 mins, full cure in 4-8 hours
- Light grey

SPECIAL BEADING NOZZLE



Art. No. 891.660

Professional original bead (OEM)

- Enables the user to save time and match the original manufacturers finish.
- Customized bead sizes from 6 mm - 13 mm (1/4" - 1/2").
- Can be used with all Würth urethanes.

JOINT AND SEAM SEALER



A permanently flexible adhesive sealant for industrial and automotive maintenance

- This is a high-performance sealant, which exhibits good physical properties including excellent adhesion to a variety of materials
- Surface must be clean, dry and free of oil and soap
- Must be applied on a primed surface for maximum corrosion protection
- Permanently flexible
- Paintable
- Non-staining
- Non-sagging
- Water dispersing
- Unaffected by temperatures from -40 °C to +90 °C (-40 °F to +194 °F), and for a short time to 120 °C (248 °F)

Adheres To:

Masonry, glass, metal, paint, wood, fibreglass, porcelain, polycarbonate.

Bonds:

Metal, glass, most plastics, fabrics, gaskets.

Drying Time:

Skin Time: 60 seconds; Tack Free: 2 minutes; Paintable: 30 minutes
Full Cure: 24 hours.

Colour	Contents	Art. No.
White	300 ml	890.50010
Black		890.50011

EUROSEAL GEL



Art. No. 892.0104 226 g

Flexible and paintable seam and joint sealant compound

- For stopping water and rain leaks on firewalls & windshield areas
- Stays permanently flexible
- Withstands oxidation, saltwater and most solvents when cured
- Slight shrinkage when cured
- Adheres to wet surfaces
- Can be mixed with paint to make a coloured seam
- Fast curing allows painting within 30 minutes
- Colour: Clear

* Do not bake dry

ADHESION PROMOTER



Art. No. 893.91013 307 g

A truly unique product for plastic repair. Dramatically improves adhesion of fillers and paint products.

- A very unique blend of resins designed to seal in mould release agents and binders found in semi-rigid plastics, Thermopoly Olefenic Plastic (TPO) and Polypropylene (PP). Provides excellent epoxy and paint product adhesion to these type substrates
- Olefenic Plastic Adhesion Promoter is used after the cleaning step and prior to the filling and finishing steps on semi-rigid plastic repair
- Apply the Olefenic Adhesion Promoter prior to painting

Note: Not allowing the product to thoroughly dry will cause repair failure.
Must be active for 20 minutes (minimum) prior to plastic repair.

EPOXY MIXING PACKETS



Fast-setting epoxy adhesive. This formula has a high thixotropic index to keep it sag-free during application, while the filler content allows sanding or shaping soon after curing.

Epoxy mixing packets contain both resin and hardener in one convenient package. The two components are color coded to assure complete mixing. Self-package mixing eliminates the need to squeeze tubes and weighing scales.

Advantages:

- Pre-measured resin and hardener for easy application
- Consistent strength and time savings
- Holds in 5 - 15 minutes
- Useable in 30 minutes
- Work time: 4-8 minutes at 77°F
- Good moisture resistance
- May be drilled, tapped, sanded or machined and painted after cure
- Quick and convenient

Applications:

- Fills gaps and bonds trim
- Casting cracks and holes
- Auto trim and ornaments

Directions:

1. Before starting, make sure your work area is protected from accidental spills. Surfaces must be clean, dry and free of grease and oil.
2. Roughen smooth surfaces to be repaired with sandpaper.
3. Scrape all of the epoxy hardener and resin, mix thoroughly until a uniform grey color is achieved (approximately one minute).
4. Use mixing stick to apply epoxy to bonding area.
5. Press surfaces together until set - product will set up in 5 to 15 minutes.
6. While epoxy is still tacky, the excess can be removed with paint remover or mineral spirits.
7. Parts will fixture in 5 to 15 minutes; full cure is achieved in 24 hours.

Description	Content	Art. No.	P. Qty.
Epoxy Mixing Packets	3.5 g	893.480101	10

Typical Uncured Properties	Part A	Part B	Mixed
Colour	Black	Off-White	Grey
Viscosity at 25°C, cps	445,000	336,000	390,500
Weight per Gallon (lbs.)	11.62	11.75	11.69
Specific Gravity at 25°C	1.39	1.41	1.40
Gel Time (minutes)			
10 g at 25 min.			4 - 8 min.
Shelf Life (packet)			24 months
Cured Physical Properties			
Hardness, Shore - D			70

MIXING NOZZLES



Ensures a perfect mix of 2-part adhesives for epoxy and structural urethane products

* 17-element mixing tip for 2-part urethane adhesives

The shortest mixing tip currently available results in a more efficient mix and reduces wasted product

Img.	Mixing Elements	Fits	Length	Art. No.	Qty.
C	24	Wurth Fix 250mL, Power Bond 220mL	6.5"	891.609	6/bag
C	24	Wurth Fix 250mL, Power Bond 220mL	6.5"	891.609100	100/box
B	18	Replast Easy 220mL, Replast Easy 400mL	5"	891.604	6/bag
B	18	Replast Easy 220mL, Replast Easy 400mL	5"	891.604100	100/box
D	17	Replast Easy 220mL, Replast Easy 400mL	4"	891.603100*	100/box
A	16	Wurth Fix 50mL	3.25"	891.605	6/bag

WATERPROOFING COMPOUND



Contents	Colour	Art. No.
975 g	Grey	893.350810

Note: This product is not paintable

An easy to apply one component water-based silicone coating

A part of our ecologically-sound chemical product range

Permanently elastic

- Pure silicone basis
- Remains permanently elastic and does not become brittle, even under extreme weather conditions
- UV and weather-resistant

Bridges cracks / Stops water infiltration

- A layer thickness of 6-3mm is achieved with just one application

Adheres on damp surfaces

- Sealing of damp surfaces possible
- Therefore acts like a true weather proofing and repair compound
- Adheres to all building materials (incl. wood, metal, plastic, concrete, stone, etc.)

Easy application

- Can be applied with paintbrush, brush, short pile roller or trowel

Easy cleaning

- Only clean water is required for cleaning edge areas, working equipment and hands

Compatible with bitumen

Application

- Protective, waterproofing and repair coating for various applications on buildings and vehicles, including repairs of roofs, installation of fences and retaining walls, waterproofing of basements and foundations, repairs of cracks in walls and floors, quick repairs on truck trailers, etc.
- Not suitable for area continually exposed to water (e.g. fountains, cisterns)

Technical Data:	
Basis	Silicone, rubber and water
Consistency	Thick, drip-proof
Reaction behaviour (curing)	1 day approx. 2 mm (23 °C (73 °F)/50% humidity)
Specific weight	1.3 g/ml
Thermally stable	-50 °C to +150 °C (-58 °F to +302 °F)
Application temperature	+5 °C to +40 °C (+41 °F to +104 °F)
Shelf life	18 months (cool and frost-free)
Consumption	1-3 l/m ²



Can be applied with Putty Knives, **Art. No. 993.1100**

REPLAST EASY



Art. No.	Open Time	Working Time	Clamp Time	Standing Time	Qty.
893.50002	0.5 min.	45 sec.	2.5 min.	5 min.	220 ml
893.50003	1.5 min.	1.5 min.	5 min.	10 min.	
893.50004	3.5 min.	3 min.	10 min.	30 min.	
893.50005	10 min.	17 min.	30 min.	60 min.	
893.50006	35 min.	50 min.	90 min.	3h	
893.50007	3.5 min.	3 min.	10 min.	30 min.	400 ml
893.50008	10 min.	17 min.	30 min.	60 min.	

- Urethane structural adhesives designed to bond and repair all plastics, fibreglass, SMC, metal and glass
- Dual-mix cartridge system
- OEM-approved
- To be used in most automotive and heavy truck applications
- Other applications include aerospace, personal watercraft, military equipment and recreational vehicles

Note: Use 18 element square mixing nozzle Art No. 891.604
For 220 ml cartridges, use Art No's: 891.0091 & 891.0092 only!
For 400 ml cartridges, use Art. No. 891.0096 only!

WÜRTH FIX



Würth Fix Rigid

- Two-part epoxy adhesive fillers and surfacers designed to repair and bond rigid and semi-rigid materials in a few minutes
- It adheres to metal, aluminum, fibreglass, plastics, glass and wood
- Resists gasoline, acid and solvents
- Excellent as a skim coat/final coat over Replast Easy adhesives
- No shrinkage
- No isocyanate
- No VOC
- Dries fast
- Easy sanding



Würth Fix Flexible

- Two-part epoxy adhesive filler and surfacer designed to repair and bond flexible materials in a few minutes
- Adheres to TPO, RIM, PPO, PP, PC, etc.
- It resists gasoline, acid and solvents
- Excellent performance when used as a skim coat over Replast Easy structural adhesives
- No shrinkage
- No isocyanate
- No VOC
- Dries fast
- Easy sanding

Desc.	Open Time	Working Time	Standing Time	Art. No.	P. Qty
250 ml rig.	8 mins.	8 mins.	20 mins.	890.480133	1
50 ml rig.				890.480132	
250 ml flex.				891.480103	
50 ml flex.				891.480104	

Note: Use 24 Element square mixing nozzle, **Art. No. 891.609** for 250 ml cartridge and 18 Element square mixing nozzle, **Art. No. 891.605** for 50 ml cartridge. Leave nozzles on unfinished cartridges for future use as this product hardens in contact with air. Always use a new mixing nozzle when reusing the product.

POWER BOND



Art. No. 893.450200 220 mL

- Two component epoxy-based structural adhesive used for panel bonding when extended work time is required
- Dual-mix cartridge system
- Will bond bare metal, aluminum, SMC and fibreglass
- It will seal and bond in one step and contains corrosion resistant agents
- The glass beads mixed in the formulation will provide the adequate spacing required for optimal bond strength

Open Time	Working Time	Clamp Time	Standing Time
60 min.	90 min.	4 h	8 h

Recommended: Multi-purpose dual cartridge caulking gun, Art. No. 891.0092

Note: Use 24 Element square mixing nozzle, Art. No. 891.609

FLEXIBLE FOAM



Art. No. 893.100080 220 mL

Two-part flexible anti-flutter urethane foam.

- Eliminates panel vibration and wind noise.
- Reinforces automotive body panels.
- Expands to 10 times its liquid state.
- Resilient - expands & contracts as needed to absorb sound & prevent flutter.
- Does not retain moisture.
- Duplicates OEM foam.
- Includes 2 mixing nozzles.
- Store in a cool, dry place.

- Rapid expansion time: 5-9 seconds.
- Work time: 15-20 seconds.
- Cure time: 5 minutes.
- Remaining material can be used multiple times if instructions are followed carefully, and the existing material is not contaminated.

Applications:

- Hood X frame anti-flutter
- Trunk lid frame anti-flutter
- Fill collapsed hollow weatherstrips.
- Stops water leaks in pillar posts.

ESK-50 FAST-ACTING EPOXY RESIN



Fast-acting two-part epoxy resin adhesive

Application:

- Suitable for bonding together various materials with high tensile and impact strength.
- Excellent resistance to flaking and shocks.
- An ideal composite for a wide range of applications such as sticking stainless steel sheets together, and repairing plastic and metal components that have broken off.

Surfaces:

Suitable surfaces include steel, stainless steel, galvanized steel, aluminum, copper, brass, coated metals, ABS plastic, PVC plastic, SMC, glass, ceramic, concrete, wood, polyurethane, polycarbonate, etc.

Benefits:

- **Fast curing**
The reaction of the two components results in a fast binding speed, ensuring fast application.
- **Broad range of applications**
For adhering metals, a range of plastics, glass, ceramic, etc. to and with each other.
- **High tensile strength values**
Tensile shear strengths are maintained even under the influence of heat.
- **Outstanding resistance to chemicals**
Resistant against many liquids such as water, gasoline and oil
- **Can be sanded when fully hardened**
- **High level of transparency**
- **Silicone and solvent-free**

Note: To be used with applicator gun 891.0093

Description	Content	Art. No.	P. Qty.
ESK-50 Fast Acting Epoxy Resin (includes 2 mixing tubes)	50 mL	893.4801	1
Additional Mixing Tubes	50 mL	891.481	3

Technical Data	
Basis	Epoxy
Colour	Clear, slightly-yellow
Density	1.1 g/cm ³
Viscosity	8000 - 11000 mPas
Thermal Range	-60 °C to 100 °C
Open Time	3.5 minutes
Fixture Time	5 minutes
Tensile sheer strength (N/mm²) - after 16h at 40 °C	
Steel	> 21
Stainless steel	> 17
Aluminum	> 13
Copper	> 15
Brass	> 15
ABS plastic	4
PVC plastic	4
Acrylic	3
Polycarbonate	4

PIN PULLER SET

Art. No. 691.500168

Universal dent removal set with adhesion technology for the removal of dents without damaging the paint finish.

Compact

- Contains all necessary tools for the removal of soft dents on painted surfaces.
- Optimum composition and readiness for use.

Universal

- Small to medium deformations.
- Both round and oblong dents.
- Both adhesion and welding technology (welding technology not included in delivery scope).
- High economy.

Exact

- Independently adjustable device and support bases adapt precisely to the deformation
- Through the precise support on the edge of the dent, it is not pulled up.

Expandable

- If required, it can be retrofitted with the PinPuller welding articles (openings already provided).
- Adapted to individual requirements.



Contents:

#	Description	Contents of Set	Art. No.
1	Pin Puller with support base	1	691.500170*
2	Pulling Tabs, spherical (red) 5 x Ø 16 and 5 x Ø 27 mm	4	691.500154
3	Pulling Tabs, spherical (red) 5 x Ø 21 and 5 x Ø 32 mm	4	691.500155
4	Glue stick, brown, high-strength, Ø 12 mm	10	890.100050
5	Plastic wedge	1	714.5832*
6	Plastic taper bar	1	691.500150*
7	Acetone cleaner, 250 ml	1	893.460005
8	Adhesive remover, 150 ml	1	893.141
9	Gloves, size 9	1	899.41009*

* Only available through Special Orders.



Additional Pulling Tabs:

#	Description	Contents of Pack	Art. No.
1.1	Pulling Tab: round, convex (red), dia. of 16 mm, for very small dents, e. g. dent remnants	10	691.500160
2.1	Pulling Tab: round, convex (red), dia. of 21 mm, small dents, e. g. typical hail-impact dents	10	691.500161



PIN PULLER SET APPLICATION

Directions:



1. Clean dent with a acetone cleaner and, if required, affix a cross mark.



2. Apply melted adhesive to the suitable adapter.



3. Glue the adapter into the dent and align with the cross mark.



4. Cool the adapter off with compressed air or freezing spray.



5. Attach the Mini Lifter to the adapter and carefully pull out the dent.



6. Afterwards, spray Adhesive Remover onto the edge of the adhesive.



7. Using the plastic wedge, carefully lift off the edge of the adhesive and remove the adhesive from the paint work.



8. Carefully remove any adhesive residue with Acetone cleaner.



9. An overextended dent can be reversed with straightening cone.

MAXILIFT LEVER



Helpful hints:

- If possible, place the support foot onto an edge or near an edge in a level and stable location.
- The further the working point is away from the support point, the smaller the force acting on the support point.

Note: Requires **Art. No. 691.500141** to use **691.500...** lifter adapters.

Art. No. 691.500140

This accessory allows for the careful repair of deformations. The optimal supplement for dent lifter.

Benefits:

- Many different possibilities of use because of exclusive and patented additional products.
- The leverage of the Maxilift acts like a 'third hand', so the free hand is able to actively support the setting procedure.
- While the dent is lifted slightly with one hand, the free hand is able to support the setting procedure with gentle hammer taps to the boundary zone of the dent.
- Deformations fixed in this way achieve better results and have better stability compared to repairs carried out with a slide hammer alone.
- The large size permits a large variety of applications (overall length: 700 mm).
- The height (115 mm) allows for better accessibility under the lever as well.
- Gentle support due to the rubber padding, inadvertent damage to paintwork is avoided.

DENT LIFTING ACCESSORIES

By attaching the tension adapters, dents can be pulled out and straightened. Subsequent painting of many dents is not needed.

Advantages:

- No removal of paint finish. The success of the repair without repainting does depend on the quality of the paint and how the product is used.
- No disassembly of the interior trim and no disconnection of the battery is necessary.
- No welding burns on the inner side of the body.
- The low generation of heat allows work even on critical components such as motorcycle fuel tanks, stainless steel containers, etc.

Applications: There are several applications for the dent lifter system. They can be used on all types of vehicles, automobiles, light trucks, SUVs, marine applications, motorcycles, vans, galvanized and non-galvanized sheet metal, sheet gauges form 0.5 to 2 mm, stainless steel, aluminum, all painted surfaces, as well as numerous other applications.



Vans



Motorcycles



Convertible Covers



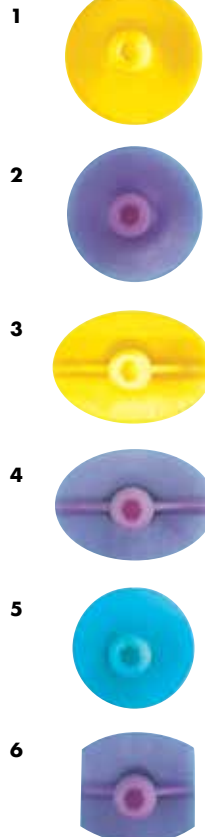
Trunk Lids

Characteristics of the Adapters' Shapes

- Round adapters are for round and large dents. The pulling focuses on the center.
- Oval adapters are for oval and long, narrow dents. The middle bridge of the adapter applies the pulling force.
- Barrel shaped adapters are for long and narrow dents. The middle bridge of the adapter applies the pulling force. Several adapters can be placed next to each other in the dent. The adapters are pulled alternately.

Characteristics of the Adapters' Colors

- Yellow adapters are made of hard rigid material, which allows higher levels of force.
- Violet adapters are made of flexible, moldable material. The adapter can be molded to the form of the dent by heating it.
- Blue adapters are made of flexible, moldable material for small dents.



Adapters:

1) 691.500115

Round Hard Adapter (Yellow) Ø 40 mm, Qty. 10. Suitable for round and large dents, the adapter material enables high tensile forces and stress.

2) 691.500116

Round Flexible Adapter (Purple) Ø 40 mm, Qty. 10. Suitable for round and sharp-edged dents, the adapter material can be adjusted to the shape of the dent by heating.

3) 691.500117

Oval Hard Adapter (Yellow) 47 mm x 33 mm, Qty. 10. Suitable for oval and long narrow dents, the adapter material enables high tensile forces and stress.

4) 691.500118

Oval Flexible Adapter (Purple) 47 mm x 33 mm, Qty. 10. Suitable for oval and long narrow dents, the adapter material can be adjusted to the shape of the dent by heating.

5) 691.500121

Small Round Hard Adapter (Blue) Ø 35 mm, Qty. 10. Suitable for small dents, the adapter material can be adjusted to the shape of the dent by heating.

6) 691.500122

Barrel Shaped Adapter (Purple) 37 mm x 33 mm, Qty. 10. Ideal for long thin stretched dents. Adapters are placed side by side and pulled alternately.

APPLICATION



1. Clean the dent with W-Sol Cleaner with **Art. No. 890.113/890.1130**



2. Fit the suitable adapter onto the extension lifter and apply glue to the middle of the adapter. New adapters need to be scuffed for better adhesion.



3. Glue adapter to the deepest point of the dent, if possible, cool with pressurized air. This way you should be able to pull the dent after approximately 30 - 40 seconds.



4. Attach sliding hammer to the adapter and pull the dent.



5. Heat the adapter with a hot air fan to a temperature of 150 °C (302 °F) and with the help of the extension lifter remove the adapter in a sideways motion.



6. Remove glue remnants with W-Sol Cleaner, (**Art. No. 890.113/890.1130**). If needed, heat the remaining glue and scrape off with a spreader.



7. Finished product.

Note: If the adapter pops off prematurely...

- and the glue sticks to the dent; you need to scuff the adapter for better adhesion.
- and the glue sticks to the adapter; you need to clean the surface of the dent again with W-Sol Cleaner, Art. No. 890.113/890.1130 for better adhesion.

If there is a soft filler putty or filler under the paint, the adapter will pull off the paint, as the adhesion of the filler is not strong enough to pull the dent.

MINILIFTER ADAPTOR



The clamping spring secures the traction piece at any point on the lever.

Art. No. 691.500141

For attaching dent lifter adapters, Art. No. 691.500... in connection with the Maxilift lever, Art. No. 691.500140.

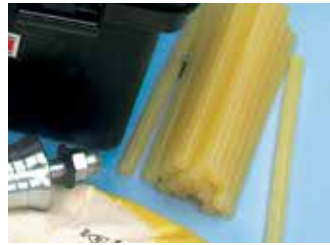
DENT LIFTING ACCESSORIES



Slide Hammer
Art. No. 691.500112 - Qty. 1



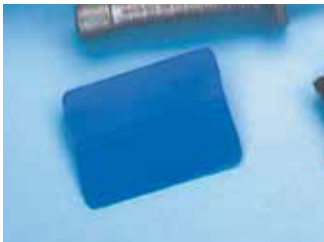
Adapter Installation Tool
Art. No. 691.500114 - Qty. 1
For safe installation and removal of the adapters



Glue Sticks, 10 pieces
Art. No. 890.100050 - Qty. 1
0.5 kg special glue, Ø 12 mm.



Electric Glue Gun
Art. No. 702.100057 - Qty. 1



Flexible Spatula
Art. No. 695.940921 - Qty. 2
For removal of glue residue from surfaces.



W-Sol Residue Remover, 454 G
Art. No. 890.1130 - Qty. 2
For removing glue residue and cleaning adapters after use.

Note: If the adapter pops off prematurely...

- and the glue sticks to the dent, you need to scuff the adapter for better adhesion.
- and the glue adheres to the adapter, you need to clean the surface of the dent again with W-Sol Cleaner, **Art. No. 890.113/890.1130** for better adhesion.

If there is a soft filler putty or filler under the paint, the adapter will pull off the paint, as the adhesion of the filler is not strong enough to pull the dent.

ACETONE

Art. No. 893.460005 250 mL

Acetone cleaner for general use or for use with Pin Puller Set (Art. No. 691.500168)

Outstanding cleaning performance

- Grease, oil and other soilings are softened and removed quickly and effectively.

High volatility

- The cleaner leaves behind no residues on the material being cleaned

Powerful solvent

- Removed glues and epoxies easily and effectively.

Areas of application: Used as a cleaner for fiberglass parts, bare metal and glass. A powerful solvent for oils and greases, it also readily dissolves superglues and epoxies. Reduces the viscosity of lacquer solutions, and serves as a thinner for fiberglass resin. Degreases and cleans precision electronic parts.



Technical Data	
Colour	Colourless
Odour	Pleasant (like fruit)
Acetane % Purity	100 %
Flash point	-18 °C (0 °F)

Note: Can soften paints and various plastics or cause discolorations. Test on an inconspicuous area first. Not suitable for polycarbonate glass.

ADHESIVE REMOVER SPRAY



Art. No. 893.141 103 g

Easily removes cured melted adhesive from enamelled surfaces.

The adhesive residue is removed from the surface in one piece in seconds thus avoiding the need for time-consuming removal with hot air blower, spatula and cleaner.

Areas of application:

- Removal of adhesive from the inside and outside of automobiles, recreational vehicles, camping vehicles as well as in the workshop and around the house.



1. Lift up the edge of the melted adhesive with a plastic wedge.

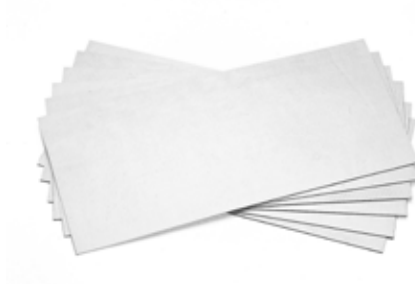


2. Spray the Adhesive Remover directly into the gap between the cured adhesive and the surface and allow to take effect briefly.



3. The Adhesive Remover penetrates into the gap and separates the adhesive residue from the surface.

SOUND DEADENING PADS



Suppresses internal vibration noise caused by vibrating body parts

- Heavy bitumen pads, aluminum coated, self-adhesive
- Reinforced against breaking
- Can be painted over
- Resistant to water, light acid and alkaline solutions
- High temperature resistance -30 °C to +80 °C (-22 °F to +176 °F), (1 hour +180 °C/ 356 °F)

Size	P. Qty.	Art. No.	Colour
550 x 250 x 2	6 Pads	890.100060	Grey Aluminum Coated
200 x 500 x 2	10 Pads	890.100601	Black bitumen coated (recommended by GM)

AMO BAG AIR WEDGE



Art. No. 715.6780

Fibre reinforced plastic bag with high load-bearing capacity (100 kg)

- Easy to inflate/release system by small pump and release valve
- Prevents costly locksmith charges
- Use for prying objects apart (windshields, headlights, etc.)
- Allows one person to complete a job that normally requires two persons
- Avoid scratches on the surfaces
- Handy, strong and durable
- Reusable

Automotive applications:

- Opening of car or truck doors (i.e. if you accidentally forget the keys inside)
- Removing of windshield or sealed windows on cars, trucks, caravans, boats, etc.
- Substitution of headlights, bumpers, etc.

Note: The air wedge is not puncture resistant!

General applications:



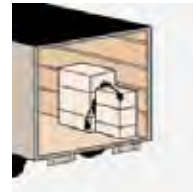
Installation of windows and doors



Positioning cabinets



Lifting doors



Protection of shipments

A/C LEAK DETECTION KIT



Art. No. 964.764017

System Kit includes:

- R-134 a quick connector
- R-12 adapter - quick coupler (attaches to R-134 a coupler)
- 8 oz. A/C dye cartridge (enough dye for 32 vehicles)
- Cartridge application gun
- 12 volt 50 watt UV light (16 ft cord/battery clips)
- A/C dye cleaner
- UV enhancing glasses (enhances dye up to 40 % more)
- 32 service stickers
- Rugged plastic storage case

This new, simple to use, no mess, no fuss dye injector system is the only way to introduce A/C dye into the vehicle A/C system. This is a universal dye for R-12 & R-134a.

This leak detection system provides the technician with an accurate diagnostic tool. Simply connect the injector to the low side port and squeeze the trigger. The dye is now circulating in the A/C system.

Many shops inject dyes as a service for their customers... when the customer returns for service, the A/C system, oil, transmission, power steering can easily be checked for leaks.

SPOTGUN INJECTION KIT



Art. No. 964.764016

This patented Spotgun™ dye injection system is a giant leap forward in A/C injection. Simply connect it to the low or high side (even with the engine running) and squeeze the trigger.

Includes:

- R-134a adapter with a new longer hose
- R-12 quick-connect coupler
- Applicator gun
- Economical jumbo dye cartridge 8 oz. (will service 32 vehicles)
- Service stickers

QUICK SHOT INJECTION SYSTEM



Art. No. 964.764035

Includes:

- Injection gun with R-134a adapter
- Quick-connect R-12 coupler
- Applicator gun
- 6 Disposable 1/4 oz. (7.5 mL) cartridges of universal A/C dye (good for 6 vehicle applications)
- Service stickers

REPLACEMENT SPOTGUN



Art. No. 891.764100

Replacement Gun for A/C Leak Detection Kit **Art. No. 964.764017** and Spotgun injection kit **Art. No. 964.764016**

A/C LEAK DETECTOR



Art. No. 892.764131 6 x 7.5 mL

- Easy-to-load (1/4 oz./ 7.5 mL) dye cartridges made to service 1 vehicle. The design of a single cartridge is the most efficient way for shops wanting to control dye inventory. Include (6) disposable 1/4 oz. (7.5 mL) A/C dye cartridges, good for 6 applications & 6 dye-installed stickers.

A/C UV LEAK DYE



Art. No. 892.764134 240 mL

- Compatible with R-134a, R-12, and the new HF01234YF refrigeration systems
- Detectable when exposed to UV light
- Compatible with PAG, ester, and mineral oils
- Compatible with hybrid A/C systems
- Does not contain solvents!
- Will not harm A/C systems or recovery equipment

UV DYE CONCENTRATE IN SINGLE APPLICATION SYRINGE



Single Application Syringe

- Single application 0.25 oz./7.5 mL
- Convenient to use
- Allows for easier, quicker and cleaner filling of any type injector
- Product does not come in contact with moisture in air
- Allow precision measurement of product
- No waste

Quick Connect Application Hose

- Luer Lock style adapter allows adding products directly to charged automotive A/C systems
- Backflow valve prevents refrigerant escape

Description	Art. No.	P. Qty.
UV Dye Concentrate Single Application Syringe .25 oz	892.764135	12
Quick Connect Syringe Application Hose (re-usable)	764.26203	1

UV DYE CLEANER



Art. No. 892.764401 500 mL

- Safely removes fluorescent and non-fluorescent leak detection dyes
- Removing dye stains helps to prevent mis-diagnosis of possible future A/C system leaks
- Non-flammable / non-toxic

MULTIPLE PURPOSE UV DYE (OIL BASED)



Art. No. 892.764040 6 x 30 mL

- Used for engine oil, transmissions, hydraulics, power steering, gasoline and diesel fuel

Includes:

- 6 dye bottles of 1 oz. (30 mL) and 6 dye-installed stickers

Note: Not D.O.T. approved for brakes.

RADIATOR LEAK DETECTOR (WATER BASED)



Art. No. 892.764033 6 x 30 mL

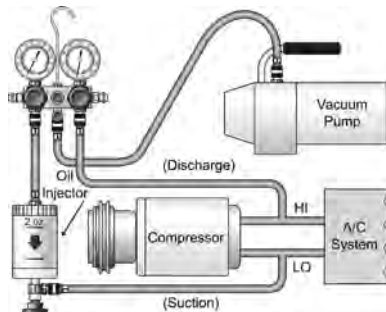
Makes leaks easy to find in Radiator Tubes/Headers and Connections. Also pinpoints leaks in Hoses/Fittings, Water Pumps and Head Gaskets.

Includes:

- 6 dye bottles of 1 oz. (30 mL) and 6 dye-installed stickers

Note: Will not work with GM Long Life Coolant.

SUPER LEAK STOP INJECTION TOOL



Art. No. 892.764321

2 ounce dye/oil injector for R-134a

- For use with manifolds gauge sets
- Made of heavy duty aluminum
- Use in-line on pressurized systems
- Quick connect style

LEAK STOP IDENTIFICATION LABEL



Art. No. 469.687.11

- Multi-use label advises of leak stop in A/C or other engine systems

TOTAL A/C LEAK STOP + UV DYE



Art. No. 892.764775 59 mL

Features:

- Stops small refrigerant leaks in metal and rubber A/C system components
- Lubricates A/C system and helps prevent leaks
- Contains a UV dye to help pinpoint mechanical leaks in A/C systems
- Does not contain polymers; will not harm or clog A/C system components, reclamation or recovery machines
- Compatible with PAG, Ester and Mineral oils
- 1 bottle treats 1 vehicle

Applications:

- Stops leaks in evaporator, condenser, rubber hoses, gaskets, seals and all types of O-rings including HBR, Nitrile and Neoprene.

Note: For use in R-134a & R-12 A/C systems

Requires Total A/C Leak Stop Injection Tool (Art. No. 892.764321).

Note: To use with R123YF use 764.000123

TOTAL A/C LEAK STOP WITH UV DYE



Art. No. 892.764777 116 g

Features:

- Stops small refrigerant leaks in metal and rubber A/C system components
- Lubricates A/C system and helps prevent leaks
- Contains a UV dye to help pinpoint mechanical leaks in A/C systems
- Does not contain polymers; will not harm or clog A/C system components, reclamation or recovery machines
- Compatible with PAG, Ester and Mineral oils
- 1 can treats 1 vehicle

Applications:

- Stops leaks in evaporator, condenser, rubber hoses, gaskets, seals and all types of O-rings including HBR, Nitrile and Neoprene.

Note: For use in R-134a A/C systems only.

* Uses the patented bag-on-valve (BOV) delivery system, which consists of a flexible pouch attached directly to the valve within the aerosol can. The BOV system isolates the product from the propellant, ensuring only the product gets released into the A/C system. The propellant remains inside the aerosol can.



*** Art. No. 892.764776** 66g
(Includes flexible charging hose)

POE OIL ISO 100 + UV LEAK DYE



Premium synthetic refrigerant lubricant for R12 to R134A systems approved O.E.M. technology

- Excellent anti-wear formulation, helps to extend compressor life
- Designed exclusively for retrofit applications
- Retro grade 100 equivalent to 500 viscosity
- For Jaguar, SAAB, Volvo
- Contains UV Dye for Leak Detector

Content	Art. No.
236 mL	890.82908
946 mL	890.82932

A/C LEAK STOP + UV DYE



Art. No. 892.764302 119 g

Features:

- Stops small refrigerant leaks in rubber A/C system components
- Lubricates A/C system and helps prevent leaks
- Contains a UV dye to help pinpoint mechanical leaks in A/C systems
- Does not contain polymers; will not harm or clog A/C system components, reclamation or recovery machines
- Compatible with PAG, Ester and Mineral oils
- 1 can treats 1 vehicle
- Easy and fast installation with the Würth Charging Hose (**Art. No. 764.305000**)

Applications:

- Stops leaks in rubber hoses, gaskets, seals and all of O-rings including HBR, Nitrile and Neoprene.



* **Art. No. 892.764303** 63g
(Includes flexible charging hose)

Note: For use in R-134a A/C systems only.

* Uses the patented bag-on-valve (BOV) delivery system, which consists of a flexible pouch attached directly to the valve within the aerosol can. The BOV system isolates the product from the propellant, ensuring only the product gets released into the A/C system. The propellant remains inside the aerosol can.

A/C PERFORMANCE ENHANCER



Art. No. 892.76462 114 g

- Faster cool-down rates in A/C Systems
- Lower vent temperature 3° to 9° F (typical vent temperature reduction range)
- Cleans and revitalizes A/C Systems
- Reduces compressor wear and extends compressor life by solubilizing build-ups including sludge and varnish which impede heat transfer
- Compatible with PAG, Ester, and Mineral Oils
- Will not harm A/C System components or equipment
- Proprietary additives allow compressors to run more efficiently
- Easy to use aerosol treats one vehicle
- Easy and fast installation with the Würth Charging Hose (**Art. No. 764.305000**)

Note: Does not contain U/V dye

JUMBO – 8 OZ. A/C OIL



The fast and only way to top-up or retro-fit A/C systems

- Viscosities of PAG oils (8 oz./240 mL) and 1 Ester oil (8 oz./240 mL). Eliminates time and mess when used with Spotgun™. Safely adds oil without refrigerant recovery.

* According to GM spec #9985752

Note: Oil must be applied according to O.E.M compressor specifications.

Name	Contents	Viscosity	Art. No.
Universal dye		-	892.764106
PAG Oil	240 mL	46	892.764146
		100	892.764147
		125	892.764145 *
ESTER Oil		100	892.764200

PREMIUM SYNTHETIC PAG LUBRICANT



- Premium synthetic refrigerant lubricant for R12 to R134A systems approved O.E.M. technology
- (Polyalkylene Glycol)

Contains:

- Conditioners, inhibitors and anti-wear agents for superior lubricity and compressor protection
- UV Dye for leak detector
- Specially formulated for O.E. and after-market air conditioning systems using R-134a refrigerant

Viscosity	Applications	8 oz. (236 mL) Art. No.	32 oz. (946 mL) Art. No.
46	GM, Ford, Chrysler, Jeep, Acura, Mitsubishi, Nissan, Porsche, Suzuki, BMW, Honda, Hyundai, Mazda, Mercedes, Audi & Toyota	892.764315	892.764325
100	GM, Ford, Chrysler, Jeep, Hyundai, Saturn, Subaru, Volkswagen	892.764316	892.764326
150	GM, Isuzu, Mercedes, Subaru	892.764319	892.764329

PAG 46-H, HFO-1234YF LUBRICANT



For vehicle air-conditioning systems with R1234YF coolant

Features:

- High-performance synthetic PAG lubricant. Contains conditioners, inhibitors and anti-wear agents for excellent lubricity and compressor protection. ISO viscosity 46.

Applications:

- Specially formulated for A/C systems using HFO-1234YF refrigerant.

Directions:

- Always check with the system and compressor OEM for recommendations of specific types of lubricant and refrigerant requirements. Do not mix with other oils. Not for use in R-134A or R12 systems.

Note: Do not mix with other air-conditioning compressor oils. Reseal container immediately after use to prevent contamination from dust and moisture

Designation	Viscosity	Contents	Art. No.
PAG Oil	Low	236 mL	892.123470

DYE / OIL INJECTOR FOR 1234YF SYSTEMS



Art. No. 764.000123

For vehicle air-conditioning systems with R1234YF coolant

Features:

- Does not require a manifold gauge to use on the low side of pressurized systems
- Great for introducing from 1/4 oz. up to 2 oz. of U/V Dye, Lubricants and Leak Stop to a closed A/C system without adding refrigerant
- Quick connect style for HFO-1234YF systems

A/C ASSORTMENTS



Art. No. 469.7772

R-12 to R-134a Retrofit Assortment – (10 Vehicles)

Contents (56 Pieces):

10) Low Side R134a Aluminum Adapters with caps; 1) GM 2 Piece R134a Service Port Adapter with cap; 8) 3/16" Flare (3/8 S.A.E.) Aluminum Service Port Adapter with cap; 1) 1/4" Flare (7/16 S.A.E.) Aluminum Service Port Adapter with cap 3) 3/16" Flare (3/8 S.A.E.) Block Off Caps; 3) 1/4" Flare (7/16 S.A.E.) Block Off Caps; 10) R 12 to R 134a Labels; 20) A/C Valve Cores

AUTOMOTIVE HVAC SYSTEM TREATMENT



Art. No. 893.764170 170 g

- Specially formulated to handle the problems associated with moisture and deposit accumulation in heater and air conditioning systems.
- Powerful fragrance and chemical odour counteractant system eliminates the malodours right at the source.
- Helps refreshen an undesirable smells such as cigarette smoke, food odours and pets.

Use the entire contents of this can for maximum results.

Note: Do not spray on electrical components, polished wood or rayon fabric

TREATMENT FOR R134A A/C SYSTEMS



Art. No. 892.764003 539 g

Quick and easy all-in-one refrigerant refill & A/C treatment.

- 16 oz. of R-134a refrigerant charge.
- 3 oz. synthetic lubricant charge replaces lost oil caused by system leaks.
- Performance enhancer provides colder air faster.
- System safe leak sealer stops small leaks in rubber hoses, gaskets & O-rings.
- Ultraviolet leak detection dye to quickly identify system leaks.
- Anti-wear additives reduce wear and extend compressor life.

Note: Not for use in R-12 A/C systems!
Do not connect to high pressure side. This may cause can to burst and can cause bodily injury. Always wear safety goggles.

HYBRID A/C COMPRESSOR OIL



Art. No. 892.764038 236 mL

- Specially formulated synthetic lubricant for electric hybrid air conditioning compressors.
- High dielectric protection formula has excellent "resistivity" to potential electrical current leakage in high voltage hybrid A/C systems.
- Contains conditioners, inhibitors & anti-wear agents.
- Provides excellent lubricity and compressor protection.

Many hybrid vehicles come with hybrid air conditionings compressors which are belt driven by the vehicle's engine when it is running, or turned by a small electric motor when the vehicle is in idle-stop (the gasoline powered engine shuts off at a stoplight or in stop-and-go traffic). Other hybrid vehicles have entirely electric-driven A/C compressors which do not rely on being belt-driven by the gasoline engine.

Whether "electric-only" or "belt and electric" these compressors have a bright orange 3-phase high-voltage cable connected to them & must use an oil with high dielectric properties or high "resistivity" to current leakage to help prevent shock hazards.

When working with hybrid A/C systems, it is extremely important that the system not be contaminated with any PAG oil, even residual oil in service equipment hoses. Flush and clean hoses and other tools and equipment before working with this product to prevent contamination!

FACTORY R-134A A/C PRIMARY SEAL AND CAP ASSORTMENT



Art. No. 469.779

Contents (20 pieces): 5 Low Side R-134a Primary Seal, 5 Blue Low Side Caps, 5 High Side R-134a Primary Seal, 5 Red High Side Caps

- R-134a Primary Seal Low Side Fitting is used to replace factory installed R-134a low side fittings when leaking. M10 x M1.25 thread
- R-134a Primary Seal High Side Fitting is used to replace factory installed R-134a high side fittings when leaking. M12 x M1.5 thread
- These ports do not contain a Schraeder valve, instead they are equipped with a rubber-ball valve, which prevents the escape of refrigerant

Application:

Late model Chrysler, Ford, GM and VW

AUTO A/C MAINTENANCE ASSORTMENT

Tray 1 - 18 Pieces	Qty.	Art. No.
Foamet® Style Manifold to Expansion Valve Gasket	2	469.09420F*
Manifold to Expansion Valve Gasket	2	469.9640
Condenser Manifold Gasket	2	469.9641
Expansion Valve to Evaporator Gasket	2	469.9642
Foamet® Style Expansion Valve to Evaporator Gasket	2	469.09426F*
JRA Low Side cap	4	469.09621*
JRA High Side cap	4	469.09622*

Tray 2 - 32 Pieces	Qty.	Art. No.
#6 Garter Spring	4	469.09OR606*
#8 Garter Spring	4	469.09OR608*
Chrysler/Nippondenso 10S Discharge Port	4	469.0915153*
Chrysler/Nippondenso 10S Suction Port	4	469.0915160*
Chrysler 5/8" KJ Hose Fitting	4	469.0915177*
Chrysler 3/8" LX Dryer/Liquid Line	4	469.0915184*
#10 Garter Spring	4	469.09OR6010*
#12 Garter Spring	4	469.09OR6012*

Art. No. 965.4692005

Contents: 653 Pieces

- Contains o-rings, slim line and sealing washers, gaskets, valves, primary seals and more
- Over 80 different Art. Nos.
- Contains all the small service parts you need!
- O-rings are shown as actual size on lid

* Must be ordered through Special Orders



Tray 1



Tray 2



Tray 3



Tray 4



Tray 5



AUTO A/C MAINTENANCE ASSORTMENT

Tray 3 - 220 Pieces	Qty.	Art. No.
Nissan 92472 N8200, Calsonic A9510 69200, Rover JUU100200, JUU100430, 6mm hose fitting, EXP valve equalizer line fitting	5	469.09901
Alfa Romeo 60811547, Audi/VW 803-260-749, Opel/Vauxhall 3094213, Volvo/Saab 3522587	5	469.09008
BMW 64-50-8390-605, Oil drain bolt O-ring, 16mm metric filter/drier fitting O-ring, EXP Valve O-ring	5	469.09568902*
Volvo 3522587, EXP valve equalizer line, orifice tube	5	469.0913296*
Rover CDU1513, Ford 1-958-277, Porsche 999-707-284-40, Nissan 92470-N8200, Calsonic A9520 69200	5	469.09010
Volvo metric orifice tube, 7mm hose fitting 1323387-9, 3545086-5, 3537797	10	469.09M2104*
Honda 80873-SLO-900, Mazda LB-52-61-JIX, Mitsubishi MB946604, Toyota 90099-14044, Volvo 1323387-9, #5 (7mm) hose fitting, TXV/EXP Valve fitting	5	469.09022
Nissan 92470 N8210, Calsonic 88000 69200, Nissan/Calsonic Captive	5	469.09M2105*
6MM Hose fitting, Alfa Romeo 60813186, Ford E853169S, Jaguar KRS604001, Rover JUU10001, JUU100090, JYX100100, Nissan 92471 N8210, Calsonic A9520 69220	5	469.09M2106*
6mm hose fitting, switch/orifice tube fitting, Opel/Vauxhall 1850702, Rover JYX100180, Acura/Honda 80873-ST7-000, Toyota 90099-14119, Mazda LB51-61-JIX	5	469.92103
#6 GM captive, Ford combi valve evap. manifold oil bleed line, Ford block exp. valve	5	469.09108
Metric #6 Fitting Seal, Rover JUU100040, JUU100050, JUU100110, Citroen/Peugeot 6457R5, Opel/Vauxhall 9288674, 1845683, 6845671, 1850703, 1843750, Ford W701420, 3913196-S100, 389157, 6-753-633	20	469.091155
Ford orifice tube, GM HR6/HR6HE discharge crossover, Mazda LB-53-61-JIX, Jaguar CAC89682	5	469.09903
Audi/VW 803-260-749, 803-260-749A, 8A0-260-749AK Ford 95VW-19E715-EA, 391302-S100	5	469.0913302*
No. 6 Hose fitting Volvo 3522588-7, 3537499-0, 3557499-0, 3522598-6	10	469.09M2118*
Hose fitting - Mercedes 140-997-06-45, Porsche 999-707-247-40	5	469.09M2107*
8mm hose fitting, Ford N807083-S, W701422, 6-753-634, Audi/VW 7M0-820-749B	5	469.09M2122*
Ford 95VW-19E715-AA, Audi/VW 7M0-820-749B	5	469.0913432*
Alfa Romeo 60811547, BMW 64-50-1-468-464, Ford W701424, 379737-S, 6-753-635, Opel/Vauxhall 90381762, 1854813/52458183, Rover JYX100110	5	469.09012
Volvo 3522598-6, 3737501-3	10	469.09M2120*
GM Cycling Switches, block fitting	5	469.09568904*
Porsche 999-707-261-40, 9MM hose fitting	5	469.09M2112*
Opel/Vauxhall 90459254, 52466778/1850714, BMW 64-50-8374-959 6C17	5	469.09568110*
GM 1/2" Dual metric fitting Nippondenso 7SB 16C discharge fitting	5	469.09568905*
Ford W702645	5	469.0913364*
Volvo 3545628, 6C17 Large Control Valve Outer O-ring	5	469.0913357*
Audi/VW 8A0-260-749AJ, 7M0-820-749C, Ford 19E715-BA	5	469.0913319*
Volvo #8 Hose fitting 3522591-0, 3537503-9	10	469.09M2127*
Ford #8 Metric Springlock (391397-S100, YF-1788), Chrysler Metric Fitting 04741705	20	469.0901355
GM #8 - 1/2" metric captured	5	469.09568009*
Diesel Kiki DKS-16H large plug bolt, Hitachi MJS170 service valve, Mazda hose fitting, Nissan 92470-N8200	5	469.92121
Nissan 92475-W1000, Acura 80872-ST7-000, Opel/Vauxhall 90508320, 1850726/52451134, BMW 64-50-8375-714	5	469.09111
GM 52456068, 5/8" Dual metric Connection O-ring	5	469.09568906*
Rover JUU100120, JUU100240, BMW 64-53-8375-742, #8 Compression fitting	5	469.09014

Tray 4 - 220 Pieces	P. Qty.	Art. No.
GM 52450548 (3093499), Citroen/Peugeot 6457R4, Mercedes 140-997-11-45	5	469.09M2109*
Audi/VW 8A0-260-749AF, 8A0-260-749AJ	5	469.0913401*
Volvo/Saab 3537501, 9mm hose fitting	5	469.0913418*
Metric captive, GM (3093112) 52454645, 15-3984, Opel/Vauxhall 90381758, 1850713, 6845673, 1850712, 52454645, Rover JUU100150, JUU100230	5	469.09M2111*
Audi/VW 1J0-820-749, Nissan 92475 72L00, Calsonic A9550 69215	5	469.09M2110*
Volvo/Saab 3545416 hose fitting	5	469.0913326*
#10 Metric fitting, Chrysler 4740401, 4741701, Ford YF-1755, 391304-S100, 701426-S300, 6-753-636, 391304-S100	20	469.0901555
Audi/VW #10-5/8 Standard Hose fitting 8A0-260-749AH, Ford 19E715	5	469.0913333*
Volvo 3522590-3, 3537507-0 #10-5/8 Standard hose fitting	20	469.09M2134*
Mercedes 140-997-09-45, Porsche 999-707-251-40	5	469.09M2128*
Nissan 92473 N8210, Calsonic A9550 69220, Chrysler 4796564, Jaguar KSG113624, Rover JYX100080, JYX100190	5	469.09M2124
Alfa Romeo 14457180, Opel/Vauxhall 1850710, 90462478, 90487638, 1845690, 52454646, #12 GM Captive	5	469.09568113*
Hose fitting, Nissan 27739-B8065, Jaguar CBC4967, Opel/Vauxhall 1845686, 6845674	5	469.09016
16mm hose fitting, Audi/VW 1H0-820-749H	5	469.0913456*
Alfa Romeo 60811547, BMW 64-50-8-369-241, Jaguar KSR610001, KSR115001, 15mm Comp. Manifold	5	469.09568114*
#12 Metric Hose Springlock, Ford YF-1752, 391305-S100, 390209, W702560, 6-918-663, 6-339-124	20	469.0901755
Audi/VW 1J0-820-749A, 8A0-260-749AG, Chrysler 04746781, Nissan 92474 N8210, Calsonic A9560 69220	5	469.0913449*
Audi/VW 1J0-820-749B, Mercedes 140-997-09-45, Porsche 999-707-252-40	5	469.09175
Volvo 3522591-1, 3337521-1, 3522591-0, 3537521-1, #12 Standard hose fitting, Accumulator o-ring	10	469.09M2139*
Audi/VW 803-260-749C, Ford 19E715-DA	5	469.0913340*
Block fitting, Opel/Vauxhall 90459251, 9117115/1618132, 1850711	5	469.09M2144*
Block fitting Volvo 3537508, 3522592	5	469.09208
Volvo/Saab 6847526	5	469.0913463*
Nippondenso/Sanden 18mm ID compressor manifold	5	469.09116
Green or Red oval cross section, Ford YF-1475, 390697-S	5	469.09OV116*
Ford W702645	5	469.0913364*
Valve O-ring, Audi/ VW 1H0-820-749, 1H0-820-749G	5	469.09M2141*
Mercedes w/ Nippondenso comp. 000-230-00-56	5	469.09M2152*
Opel/Vauxhall 6556407, 1854905, GM switchport	5	469.09118
Volvo/Saab 1324181	5	469.0913371*
Alfa Romeo 60811547, Chrysler N806959-S, Citroen/Peugeot 6457R1, Ford YF-1593, 1962, N805340-S, N806959-S, 6-671-099, Jaguar JYX100140, Mercedes 6556621, Nissan J2657-06W60, 27739-B8065, and numerous other applications	5	469.09211
Audi/VW 701-820-749G	5	469.0913395*
GM/Harrison Compressors (Oval cross Section) Opel/Vauxhall 6558587	5	469.09OV211*
BMW 64-50-8-363-041, Opel/Vauxhall 1850723, 9050832, Sanden SD708, SD709 shaft seal seat, Chrysler Compressor RV2 Discharge Muffler	5	469.09568119*

AUTO A/C MAINTENANCE ASSORTMENT

Tray 5 - 163 Pieces	Qty.	Art. No.
Audi/VW 400-260-749A	5	469.0913388*
Standard Hose Fitting #6 - 3/8"	25	469.09011
Standard Hose Fitting #8 - 1/2"	25	469.09013
Standard Hose Fitting #10 - 5/8"	25	469.09015
Standard Hose Fitting #12 - 3/4"	25	469.09017
Chrysler, Ford, Mercedes OEM, LS R-134a 13mm port M10x1.25	2	469.6085
Low side cap fits 469.6085	2	469.9537
Chrysler, Ford, GM OEM, HS R-134a 16mm port M12 x 1.5	2	469.6105
High side cap fits 469.6105	2	469.9536*
13MM LS cap fits 469.132585	2	469.09623*
Aeroquip-style OEM R-134a Low Side Port with valve	2	469.132585
16MM HS cap fits 469.132655	2	469.09624*
Aeroquip-style OEM R-134a high side port with valve	2	469.132655
8mm GM Block fitting "Slim Line"	2	469.09887
11mm GM Block fitting "Slim Line"	2	469.09888
15mm GM Block fitting "Slim Line"	2	469.09889
17mm GM Block fitting "Slim Line"	2	469.09890
5/8" Thick Black	2	469.09638
5/8" Thick Silver	2	469.09639
3/4" Thin Silver	2	469.09640
Standard Valve Core	2	469.9545
GM Late Model High Flow Valve Core	2	469.9547
JRA (Japanese Refrigeration Association) High Flow Valve Core	2	469.9548
8mm Low Side Valve Core	2	469.09676*
10mm High Side Valve Core	2	469.09677*
R-134a Peugeot/ Volvo High Flow Valve Core	2	469.09679*

A/C SYSTEM SUPER FLUSH



Art. No. 892.76404 4 L

- Ester-based flush is compatible with R-134a, R-22 and R-12 A/C lubricants
- Absorbs and carries moisture from the system
- Will not react with copper, aluminum or brass
- Will not harm O-Rings, hoses, PAG, mineral or ester oil
- Non-hazardous and non toxic
- Non-flammable
- Biodegradable and environmentally friendly
- Aids in lubricating compressor
- Use approximately 1 litre per application

FLOW CONTROL FLUSH GUN



Art. No. 891.1300

- Flow control flush gun can be used with or without air hose attached
- Ideal for removing contaminants, moisture and acid from air conditioning systems using R-134a and R-12 refrigerants

FAST EVAPORATION A/C FLUSH WITH GUN KIT



Art. No. 892.76403 236 mL

Pressurized flush treatment for automotive A/C systems

- Ready to use high pressure flush
- Excellent cleaner, fast evaporating
- Safe for all air conditioning systems
- Removes oil, debris and other contaminants from air conditioning systems components
- Constant pressure until can is empty
- Quick drying under vacuum

Includes a re-usable flush gun and hose

A/C SYSTEM FLUSHING AGENT



Art. No. 892.76402 425 g

Pressurized flush treatment for automotive A/C systems

- Ready to use high pressure flush
- Excellent cleaner, fast evaporating
- Safe for all air conditioning systems
- Removes oil, debris and other contaminants from air conditioning systems components
- Constant pressure until can is empty
- Quick drying under vacuum

Note: To be used with gun and hose from 892.76403 kit

UNIVERSAL HIGH SIDE IN-LINE FILTER



Art. No. 469.13128

- OEM tested and approved
- Protect against costly repeat compressor failure
- Single kit fits 5/16", 3/8" and 1/2" lines
- Captures residual debris in the A/C System
- Can be used as a line splice or repair device for damaged orifice tube holders
- Incorporates any size orifice tube with included installation clip
- Quick and easy leak free installation
- Requires only 4" of straight refrigerant line
- Tapered sealing sleeve provides 10 times the sealing area of older filter designs
- Shorter overall filter length, with 3 times the capacity of older filter designs; reduces pressure and flow restrictions
- Provides the reliable solution technicians have been asking for to reduce comebacks on compressor replacements, especially rear A/C systems

AIR CONDITIONING RETRO-FIT COMPONENTS – PREFIX 469

7502



9536



7513



75139



9537



75013



972954



715175



9545



9547



9548



7406

R134A ALUMINUM MANIFOLD GAUGE WITH 72" HOSES & COUPLERS



Art. No. 764.27491

- Includes 72" hoses - red, blue, yellow and service couplers
- Scales in PSI and BAR measurements
- Large display gauge for visual inspections
- Auxiliary vacuum line access port

AIR EVAC II TOOL



Art. No. 714.5518

For professional cooling system service. Refill cooling systems without airlocks. The coolant refiller is an economical alternative to the original Air-Evac unit. This nylon composite version rather than brass does the same function of evacuating air, leak testing and refilling coolant systems.

Features:

- Built in venturi assembly
- Easy push button vacuum control valve
- Recessed Gauge with protective collar
- Universal cone adapter fits most radiators
- Durable plastic with nylon weave for added strength

Benefits:

- Fast re-filling of cooling system in minutes
- No need to jack up suspension or use time consuming bleed valves
- No airlocks means no comebacks saving time and money
- Built in leak test ensures system integrity before filling
- Clean and fast - no mess- no spills
- Saves time: easier use through not changing hoses
- Saves time figuring out which adapter fits
- No worries about broken gauges and needing replacement
- No need to interchange hoses
- One size fits all radiators, including imports

Target:

End user markets, service centers, dealerships, radiator shops.

Application:

The **AIR-EVAC II** tool uses shop air to pull a vacuum on the system, checks for leaks if the system holds vacuum, refills the entire system with coolant in just seconds and eliminates any possible airlocks. The tool is to be used on a drained radiator (the rest of the system may contain residual coolant). Operated by shop air, the tool will evacuate the air in the system via a powerful vacuum. You then perform a vacuum leak test on the system by determining if the vacuum holds. Then, simply refill the system by opening a valve and allow the vacuum created to draw the coolant mixture back into the system. It does not require interchanging hoses mid operation as the venturi is built in. Vacuum gauge is recessed for better protection and it comes with a universal fit all cone adapter.

Air Evac II assembly:

- Venturi connector and hose
- Fill hose with filter
- (4) sizes of rubber adapters and (1) cone adapter

4-5 PIN TRAILER HARNESS TESTER



Art. No. 695.0045

The 4/5 Pin Trailer Harness Tester quickly and easily checks electrical harnesses and traces each lighting function to the terminal in question.

Features:

- Plugs into the trailer plug
- Each led light corresponds to the circuit being energized
- Provides an easy to connect ground terminal for trailer lighting setup
- T = Tail Lights; LT = Left Turn; RT = Right Turn; A = Accessory

6 ROUND PIN TRACTOR TRAILER CIRCUIT TESTER



Art. No. 695.0052

The 6-Way Round Pin Tractor Trailer Circuit Tester quickly and easily tests trailer circuits on older light and medium duty trucks and campers.

Features:

- LEDs indicate that each circuit is working
- "Winged" grip for easy removal from electrical connector
- Weatherproof
- LT = Left Turn; RT = Right Turn; EB = Electric Brake; TM = Tail & Markers
- 12v = 12 volts

7 ROUND PIN TRACTOR TRAILER CIRCUIT TESTER



Art. No. 695.0057

The 7 round pin tractor trailer circuit tester allows one-man testing of towing circuits, male and female 7-way round pin tractor trailer plugs, at the back of the truck.

Features:

- Troubleshoot tractor trailer circuits
- One person can now test all the lighting
- Allows bypassing of troubled circuitry while on the road
- Eliminates guesswork
- Packaged with an extra jumper connector
- "Winged" grip for easy removal from electrical connector

7 FLAT SPADE PIN TRAILER CIRCUIT TESTER



Art. No. 695.0058

The 7-Way Flat (Spade) Pin Trailer Circuit Tester quickly and easily tests trailer circuits on most light and medium duty trucks and campers.

Features:

- Plugs into the vehicle side socket
- LEDs indicate that each circuit is working
- "Winged" grip for easy removal from electrical connector
- LT = Left Turn; RT = Right Turn; TM = Tail & Markers; BU = Back-up Lights; BK = Brake (LT/RT Illuminated)
- 12V = 12 Volts

3-WAY TRAILER ADAPTER



Art. No. 695.0080

One adapter for all your trailer needs. The 3-Way Trailer Adapter allows 7-way flat (spade) pin type terminal connections to 6-way round pin and 4/5 pin trailer connections.

Features:

- Sealed plugs to keep road debris from corroding connections
- Made from strong nylon 6
- "Winged" grip for easy installation and removal

7 SPADE PIN TRAILER TESTER



7-WAY FLAT (SPADE) PIN



Art. No. 695.07001

Professional trailer, utility, boating and RV trailer tester, that saves time and reduces guesswork by powering trailer without the vehicle.

Features:

- Durable, rugged, portable, water resistant compartment
- Tests 7 flat, 6 round, 4/5 flat pins
- Trickle charger and trailer plug adapter included
- External 12V power port
- Internal battery compartment (battery not included)

Benefits:

- Convenient trailer light tester & brake tester without use of a vehicle
- Short circuit protection
- Turn signal simulation and power verification LED
- For use on DC circuitry only
- External power port can be used as a memory saver, test light supply or as a trickle charge input

Specifications	
Input	12V DC
Output	10A - 12V DC
Battery Required	Yes
Battery Dimensions	L:6" x W:4" x H: 5 3/4" (YTX-14 or similar)
Circuit Protection	Automatic resetting internal breaker
Connection Type	7 flat, 6 round, 4/5 flat pin
Controls	Manual control knob
Weight	2 lbs. (without battery)
Packaged Dimensions	L:11.582" x W:5.070" x H:7.143"
Includes	3-Way trailer adapter & 500 mA trickle charger

Note: Recommended Battery Art. No. 827.000003 or similar 12V block motorcycle battery

7 ROUND PIN TRAILER TESTER

Art. No. 695.07002

Commercial trailer and electric brake tester, that saves time and reduces guesswork by powering trailer electrical circuit in 7-way round pin arrangements without use of the truck.



Features:

- Durable, rugged, portable, water resistant compartment
- Tests 7-way round pins
- Trickle charger included
- External 12V power port
- Internal battery compartment (battery not included)

Benefits:

- Allows for proper verification of wiring configuration, ground integrity, short circuit and overload conditions, along with electric brake operation and turn signal simulation
- Short circuit protection
- Turn signal simulation and power verification LED
- External power port which can be used as a memory saver, test light supply or as a trickle charge input
- For use on DC circuitry only

Specifications	
Input	12V DC
Output	10A - 12V DC
Battery Required	Yes
Battery Dimensions	L:6" x W:4" x H: 5 3/4" (YTX-14 or similar)
Circuit Protection	Automatic resetting internal breaker
Connection Type	7-way round pin controls
Controls	Manual control knob
Weight	2 lbs. (without battery)
Packaged Dimensions	L:11.582" x W:5.070" x H:7.143"
Includes	500 mA Trickle charger

Note: Recommended Battery **Art. No. 827.000003** or similar 12V block motorcycle battery

PREMIUM GLADHANDS & REPLACEMENT SEALS



- Brightly coloured powder coat for corrosion resistance, less wear and therefore longer service life.
- Cast aluminum.
Corrosion resistant material provides longer product life during harsh Canadian winters.
- Stainless steel clamp and wear plate eliminate corrosion of these important mating surfaces.
- Colour matched polyurethane seals resist oil and chemicals, providing improved sealing and longer service life.
- Includes filter.

Premium Gladhands				
Configuration	Material	Filter	Art. No.	P. Qty.
Emergency Red	Powder Coated	Yes	885.32.03	2
Service Blue	Powder Coated	Yes	885.32.04	
Service & Emergency Set	Powder Coated	Yes	885.32.05	1 kit

Note: **Art. No. 885.32.05** includes one each of **Art. No. 885.32.03** and **885.32.04**



GH-SEAL STANDARD



GH-SEAL-2 UMBRELLA

Replacement Seals		
Colour Code	Type	Art. No.
Black	Rubber	884.GH-SEAL
	Rubber Umbrella Seal	884.GH-SEAL-2

STANDARD GLADHANDS



- Cast aluminum.
Corrosion resistant material provides longer product life during harsh Canadian winters.
- Stainless steel clamp and wear plate eliminate corrosion of these important mating surfaces.
- Polyurethane seals resist oil and chemicals, providing improved sealing and longer service life.

Recommended:

Replacement Seals **Art. No. 884.GH-SEAL** and
Art. No. 884.GH-SEAL-2

Standard Gladhands				
Configuration	Material	Filter	Art. No.	P. Qty.
Emergency Red	Aluminum	No	885.32.01	2
Service Blue			885.32.02	

RATCHET ASSEMBLIES



Art. No. 713.459822

30' Ratcheting strap with wire hook

Strap			
Breaking Strength	Working Load Limit	Width	Length
10,000 lbs / 4545 kg	3333 lb/ 1515 kg	2"	30'

End			
Breaking Strength	Working Load Limit	Description	Dimensions
10,000 lbs / 4545 kg	3333 lb/ 1515 kg	Narrow hook 2"	3.9" Long

WINCH STRAP ASSEMBLIES

Art. No. 713.41660



3" Winch strap with chain anchor

- Heavy-duty, wear- and weather-resistant load control straps
- Strong, dependable hardware for the demanding conditions of flatbed operations
- Meets or exceeds standard WSTDA T-1 specifications for synthetic fiber webbing tiedowns
- Also complies with California Highway Patrol specifications

End			
Breaking Strength	Working Load Limit	Description	Dimensions
16,200 lbs / 7363 kg	5400 lbs / 2452 kg	Anchor point, with delta ring	17"

Strap			
Breaking Strength	Working Load Limit	Width	Length
16,200 lbs / 7363 kg	5400 lbs / 2452 kg	3"	30'



Art. No. 713.43795

4" Winch Strap with Chain Anchor

Strap			
Breaking Strength	Working Load Limit	Width	Length
16,200 lbs. / 7363 kg	5400 lbs. / 2452 kg	4"	30'

End			
Breaking Strength	Working Load Limit	Description	Dimensions
16,200 lbs. / 7363 kg	5400 lbs. / 2452 kg	3" Flat Hook	3.75" x 3.25"

WEB WINCH



Art. No. 713.435641

Low Profile Portable with 2 Set Screws

- Minimum breaking strength of 18,000 lbs/ 8,164 kg
- Working load limit of 6,000 lbs/ 2,721 kg
- Complies with DOT, California CHP, WSTDA-T3 and Canadian Standard 905
- Seamless solid-steel mandrels, high-strength alloy pawl pins
- Available in different configurations to suit your various load requirements for flatbed applications
- Powder coated to resist abrasion and rust
- Right hand models
- Periodically inspect, clean and lubricate winches

Style	Side Mount
Weight	10.1 lbs/ 4.6 kg
Overall Width	7.49"
Spool Width	4.63"
Frame Height	4.07"
Frame Depth	4.00"

RUBBER TIES



- 6.82 kg/15 lbs of tension
- Crimped hooks to prevent loss
- Designed to hold tarp covers on trucks and trailers
- Not to be used to restrain or secure cargo
- Molded rubber construction for high ozone resistance and stretch resiliency
- Stretches up to twice its length

Description	Art. No.
15"	713.41567
21"	713.41569
31"	713.41571
41"	713.41573

TENDER KIT – 25" DOUBLE



Art. No. 885.94212

- Large snap clip
- Heavy duty clamp hanger
- Heavy duty spring
- Protective sleeve
- Yoke included

HEAVY DUTY 7 – WAY SOCKET



Art. No. 560.67072

- Die-cast zinc housing for rugged use
- Meets SAE J560 requirements
- Machined brass terminal pins for maximum current carrying ability
- Can be repaired with standard tools, allowing for field repairs
- Bull-nose style cover allows for one-handed connection
- Designed to divert water and other road dirt
- Stainless steel latch spring
- Interchangeable with other SAE-type 7-way connectors

HEAVY DUTY 7 – WAY PLUG



Art. No. 560.67071

- Die-cast zinc housing for rugged use
- Meets SAE J560 requirements
- Machined brass terminal pins for maximum current carrying ability
- Split pin design
- Can be repaired with standard tools, allowing for field repairs
- Includes spring guard for improved cable protection
- Interchangeable with other SAE-type 7-way connectors

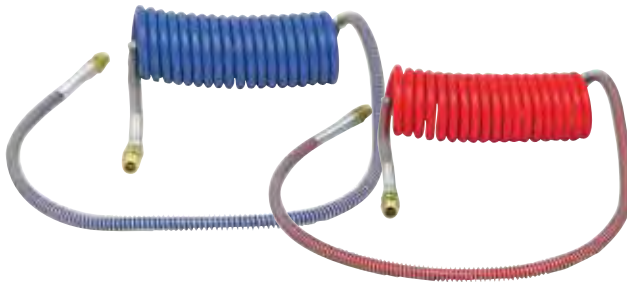
UNIVERSAL MOUNTING BRACKET



Art. No. 560.67000

- Mounting bracket for **Art. No. 560.67072**
- Black powder coated

AIRCOILS



- Coiled, 1/2" O.D., reinforced, nylon tubing
- Excellent coil memory and durability
- Each set includes both colour-coded (red = emergency / blue = service) assemblies
- Meets SAE J844 and DOT FMVSS 106 - (49 CFR 571.106 & 49, CFR 393.45)
- Designed for 150 psi operating systems
- Resistant to attack by gasoline, diesel fuel, methyl-alcohol and zinc chloride
- Male pipe - brass fittings
- Heavy duty plated spring guards
- Aircoils with 1/2" NPTF fittings

Tube O.D	Length	Tractor End Pigtail Length	Fitting (thread)	Trailer End Pigtail Length	Flex-grip (thread)	Art. No.
1/2"	15'	12"	1/2"	12"	1/2"	885.60.100
1/2"	15'	40"	1/2"	12"	1/2"	885.60.120

AIR POWER LINE 3 IN 1

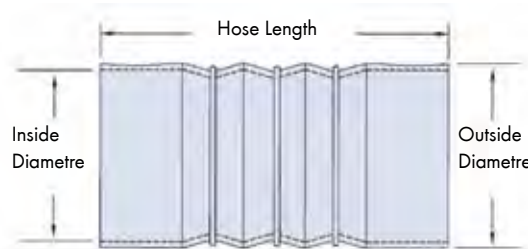


Art. No. 885.60.340

The 3 in 1 Air Power Line contains:

1. Service air line
2. Emergency air line
3. ABS power line (green) all enclosed in spiral wrap
 - Hanger bracket mounting assembly included for easy suspension
 - Red and blue flex-grips for easy identification and gladhand connection
 - Air lines have swivel fittings at tractor end for quick installation
 - Power line is fully ABS compatible
 - Length: 15'

CHARGE AIR COOLERS HOSE – COLD



Construction

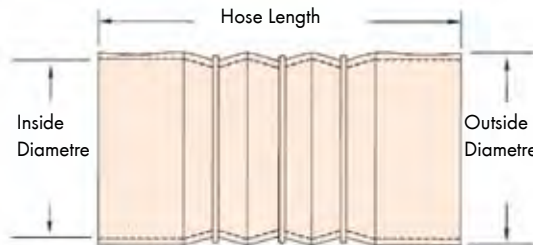
- 4 plies of silicone rubber with polyester woven reinforcement with blue cover and 304 stainless steel restraining rings

Operating Temperatures

- -65°F to + 350°F
- -54°C to + 177°C
- Designed and engineered to connect engine mounted charge air systems
- UV and ozone resistant
- Ideal for minor misalignments and handling vibration between hose ends
- 304 stainless steel rings reduce swelling and increase hoop strength

Colour	I.D.		Overall Length	Inches	Art. No.	P. Qty.
	mm	in.	mm			
Blue	101.6	4"	152.40	6"	897.9080004	1

CHARGE AIR COOLERS HOSE – HOT



Construction

- 4 plies of silicone rubber with aramid woven reinforcement with red cover and 304 stainless steel restraining rings

Operating Temperatures

- -65°F to + 500°F
- -54°C to + 260°C
- Designed and engineered to connect engine mounted charge air systems
- UV and ozone resistant
- Ideal for minor misalignments and handling vibration between hose ends

Colour	I.D.		Overall Length	in	Art. No.	Qty
	mm	in	mm			
Red	101.6	4"	152.40	6"	897.9080104	1

WÜRTH UNIVERSAL LINE SPLICES – EXTENSIONS



Aluminum Tubes

Features:

- Replace up to 12" (305mm) of damaged metal line with pre-cut aluminum tubes
- Standard and Metric sizes available

Description	Length	O.D.	Art No.	P. Qty
Aluminum Tube (Metric)	12"	10mm	764.000835	4

WÜRTH UNIVERSAL LINE SPLICES – LINE TO LINE

Air conditioning, heater, transmission and power steering lines and hoses are exposed to road debris, salt, weathering and sometimes burst or crack. Such problems create major failure in the engine compartment and it becomes necessary to replace OEM parts. Metal lines, rubber hoses, intensive labour lead to time consuming and cost-prohibitive repairs.

Features:

- Durable repairs for A/C, heater, transmission, and power steering lines
- OE approved
- Efficient, permanent, leak-free repairs in less than 10 minutes
- Resists up to 2,600 psi
- SAE & Metric sizes
- Metal to metal, metal to hose, straight & 90 degree connectors
- Barrier hose and aluminum lines available in various diameters

Benefits:

- No special tools needed
- No welding, glue, or sealing chemicals required
- No line removal
- Resists vibration leaks

Areas of application:

- Air conditioning lines
- Heating & cooling lines
- Engine oil lines
- Engine oil cooler lines
- Power steering return lines
- Transmission lines
- Transmission oil cooler lines



Seal Sleeve - up to 8 times more sealing surface area than O-Ring

Self-adjusting, anti-vibration tension ring - resists vibration leaks

Description	O.D.	Art No.	P. Qty
Line Splice Straight Repair Kit (Metric)	10mm	764.000855	1
	12mm	764.000856	

Line Splice Straight Repair Kit



Description	O.D.	Art No.	P. Qty
Line Splice Straight Repair Kit (SAE Standard)	5/16"	764.000850	1
	3/8"	764.000851	
	1/2"	764.000852	
	5/8"	764.000853	
	3/4"	764.000858	

Line Splice 90° Repair Kit



Description	O.D.	Art No.	P. Qty
Line Splice 90° Repair Kit (SAE Standard)	5/16"	764.00901	1
	3/8"	764.00902	
	1/2"	764.00903	
	5/8"	764.00904	
	3/4"	764.00905	

WÜRTH UNIVERSAL LINE SPLICES – LINE TO HOSE

Quickly connect metal line to rubber hose with a seal technology that's superior to traditional compression fittings!



Description	Dimensions	Art No.	P. Qty
Splice Straight Connector	1/2" Line to #8 Hose	764.002111	1
	3/8" Line to #6 Hose	764.002112	
	5/16" Line to #6 Hose	764.002113	
	5/8" Line to #10 Hose	764.002114	
	3/4" Line to #12 Hose	764.002115	

Features:

- Leak-proof line splice technology on the metal side of the connection
- Superior Burgaflex hose crimp technology on the rubber side
- Installs in 5 minutes
- Meets OEM performance and durability requirements

Note: After cutting the aluminum tube, it is recommended to clean the edges and remove debris with the Deburring Tool Assortment-32 pieces, **Art. No. 965.42100**

SPLICE REPAIR CLAMP CRIMPER



Art. No. 714.10797

Features:

- Specifically designed to crimp the clamps on the hose-to-line splice connector
- Auto stop function to avoid over tightening the clamps or damaging the rubber hose
- Easy to use with ergonomic plastic handles

17 WELDING

- 2** Welding Spray & Paste
- 3** Micro-Grip Welding Clamp
- 3** Welding Rods
- 3** Welding Tools & Sets
- 4** Welding Blanket



WELDING ANTI-SPATTER SPRAY



Art. No. 893.1021 389 g

Ecologically friendly welding protection spray, prevents the welding injector and the weld tip from tacking to the work surface

- Environmentally safe
- Silicone free, therefore will not affect lacquer, galvanizing, chrome plating, etc.
- Protects the work piece as well as the welding torch nozzle against adhesion of weld material
- The spray is an additional corrosion protector
- Colour: Transparent

PROTECTIVE WELDING PASTE AND SPRAY



This Protective Welding Paste and Gel are used in the prevention of heat transfer on any metal from one point to another.

Features:

- Recommended for use on any metal, to prevent heat transfer between contact points.
- Provides temporary fire retardant properties.
- Hours of protection for materials compromised during welding or soldering.
- Stop heat from travelling down the pipe.
- Used as a thermal block to stop heat from travelling to unwanted areas (ie. Valves).
- Protects painted surfaces from damage during soldering, brazing or welding.
- Non-Corrosive.
- Non-Flammable.
- Non-Toxic.
- 100% Biodegradable.

Applications:

HVAC (Heating, Ventilation, Air Conditioning) & Plumbing Industry

- When installing plumbing or HVAC valves apply Protective welding paste between the valve and the area to be heated. This will significantly reduce or stop heat from reaching the valve thereby protecting the seals
- Protect painted surfaces from heat damage while soldering joints
- Protect wood, sheetrock, wires, insulation (all types), etc. virtually any surface from heat related damage caused by torch heat during soldering, brazing or even welding.

Welding Industry

- Apply protective welding paste on each side of the weld area to reduce heat transfer, discoloration & distortion on lightweight metal
- Protect adjacent surfaces to the weld area from fires and heat related damage

Automotive Industry

- Protect painted surfaces from heat related damage or damage from weld spatter.
- Apply to finished surfaces (ie. Painted metal surfaces, plastic, cloth, vinyl, etc.) to protect from heat of torch or weld spatter
- Apply in the following areas: CV Boots, Muffler / Exhaust Work, Under the Dash Wiring, Heavy Truck Industry and in the Body Shop.

Note: Protective Welding Paste is a thicker version of the Spray Gel and provides added protection from higher temperatures. The Protective Welding Paste temperature resistance can be as high as 7500°F or 4148°C.

Description	Contents/Weight	Art. No.
Protective Welding Paste	800 g	892.7401
Protective Welding Spray (Gel)	946 mL	893.7402

MICRO-GRIP WELDING CLAMP



Art. No. 714.0932

Small grip pliers with toggle joint clamping system

- Adjustable toggle joint clamp, jaw width 0-12 mm
- Always guarantees highest clamping force in extremely small space
- Compact design (overall length 92 mm) and low weight of 120 g
- Handy, practical and universally usable
- Advantage through use of high-strength aluminum
- Easy handling, resistant against welding splashes, suitable for aluminum repairs

WELDING RODS



Size	Rec. Amperable	Art. No.	P. Qty.
3/32"	20-75	987.0332	1 = 10 lbs.
1/8"	75-130	987.018	

E7018 AC Welding Electrode

- Low-hydrogen type welding electrode
- Optimum characteristics when used with an AC power source
- Very easy to strike and has an extremely stable arc giving it excellent operator appeal
- Welds exceptionally well on small, utility-type welders
- All position rod for AC or DC reverse polarity current

OXY-ACETYLENE LIGHTER



Recommended:
Replacement Flint 5-pk.
Art. No. 984.12238
P.Qty: 1



Art. No. 984.12237 Qty. 1

- Lightweight
- Dependable
- Large round file and hood
- Length: 19 cm (7 1/2")

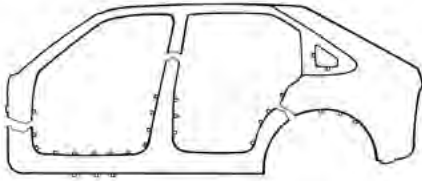
SPRING HANDLE CHIPPING HAMMER



Art. No. 984.12111 Qty. 1

- For slag removal
- Cross chisel hammer has head the opposite of the straight head
- Metal spring handle
- Length: 27 cm (10 1/2")
- Head length: 16 cm (6 1/4")
- Weight: 0.45 kg (1 lb)

FIXING CLAMP SET



Art. No. 965.74417

For quick and easy fixing of sheet metal for welding or bonding

Quick fastening and loosening of clamps

Enormous time savings in comparison to impact or screw clamps.

Most economical alternative to conventional vise-grip pliers

Lowest purchasing cost.

Large clamping range in comparison to clamp size

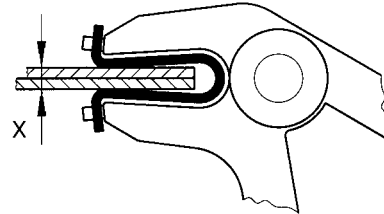
Owing to their small size (corresponding to a door seal), gap dimensions can be set without effort.

No cumbersome loosening or opening of clamps

Readjustment of sheet metal possible at any time without problem.

The special angled shape of the pliers allows universal use of the clamps

Use clamps in tight spaces, such as trunk edges, hatchback, door columns, triangular windows, etc.



Contents:

Description and contents of set	Sheet metal thickness in mm	Art. No.	P. Qty.
8 fixing clamps	0 - 2.5	713.744025	5
8 fixing clamps	2.5 - 5	713.744050	

Instructions for use:



1. Insert the fixing clamp into the special pliers and open the clamp.



2. Slide the clamp over the sheet metal edges to be joined and release the pliers.



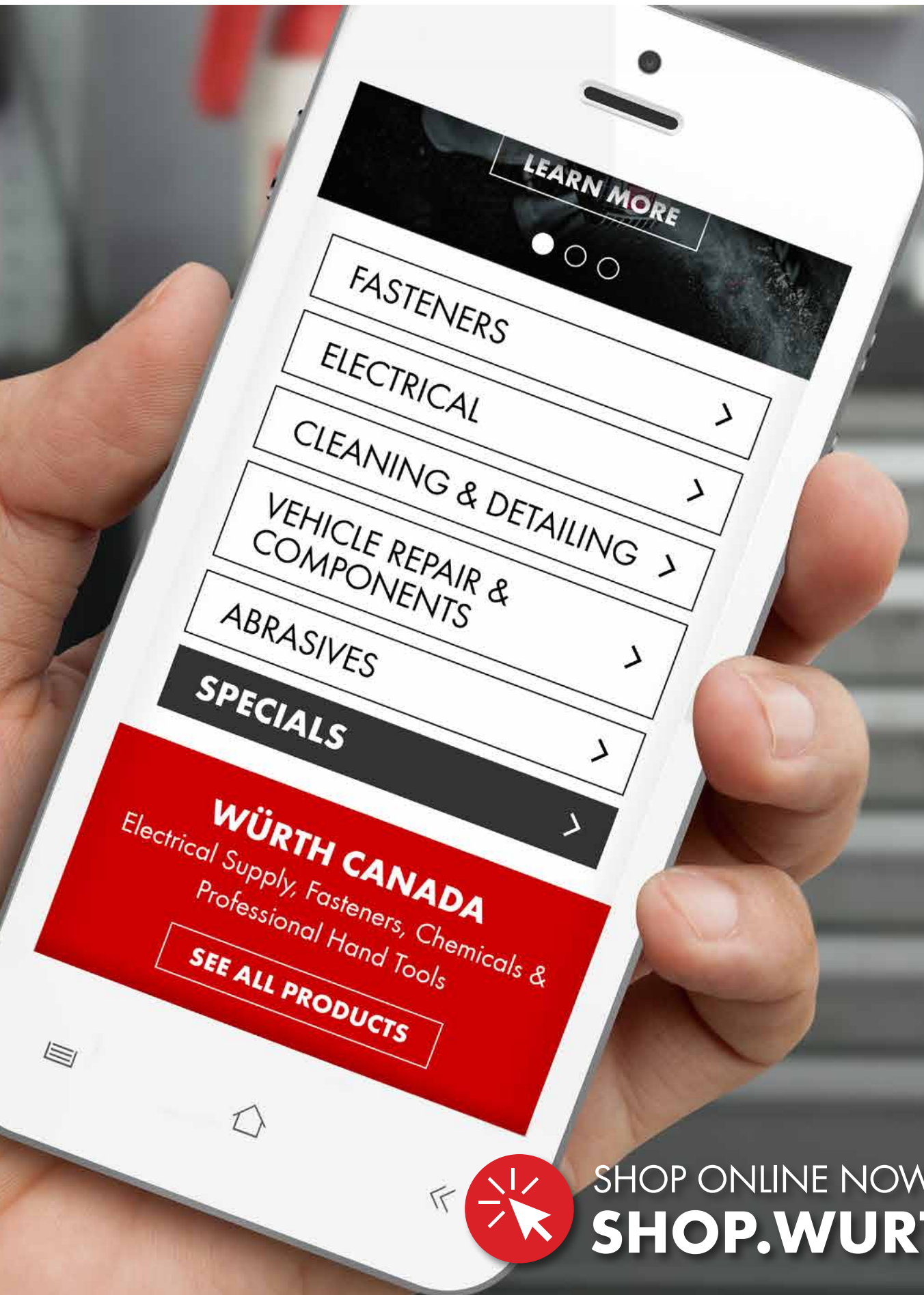
3. The powerful force of the fixing clamp keeps the clamped sheet metal in place. To remove the fixing clamp, slide the pliers over it and open the clamp.

WELDING BLANKET



Art. No. 984.100 Qty. 1

- 96.5 x 61 cm (38" x 24") weld-o-glass blanket
- Made of 32 oz. red fibreglass, silicone coated
- 3/4" hem and 3" bottom pocket sewn
- Offers spark + molten protection



SHOP ONLINE NOW!

SHOP.WURTH.CA

WÜRTH CANADA MASTER CATALOGUE

Würth Canada Limited

345 Hanlon Creek Boulevard
Guelph, Ontario, Canada
N1C 0A1
T (905) 564-6225
F (905) 564-3671
info@wurth.ca

Content Coordination

Goran Abramovic

Graphic Design

Paige Beatty
Krista Varga

Printed in Canada. All rights reserved. May not be reproduced, in part or in whole, without prior consent.

JANUARY 2020