

# WIRE WRAPPING TOOLS & ACCESSORIES

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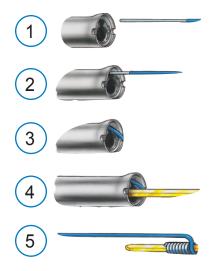
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# The Technology of Wire Wrapping

A wire wrapped connection is made by coiling the wire around the sharp corners of a terminal under mechanical tension. This method of connection was developed by Bell Telephone Laboratories, Western Electric Company.

### Five Steps To Make A Wire Wrap Connection



### "Strip" Force Chart\*

,	Wire Siz	e	Min. Number of		Strip rce
AWG	Dia (in)	Dia. (mm)	Turns (Bare Wire)	lbs.	g
16	.0510	1.30	4	15	6800
18	.0403	1.00	4	15	6800
20	.0320	0.80	5	8	3600
22	.0253	0.65	5	8	3600
24	.0201	0.50	6	7	3200
26	.0159	0.40	7	6	2700
28	.0126	0.32	7	5	2200
30	.0100	0.25	7	3.3	1500

**Terminal Diagonal Chart** 

\* Conforms to MIL-STD-1130B

### Regular



### Wire Size Chart

ed" bit wraps a portion ne terminal in addition greatly increases the

A distinct advantage of wire wrapping is the ease with which a wire may be removed from a terminal to correct errors or modify wiring. An unwrap tool is slipped over the terminal, engaging the first turn of the connection. Rotating the tool, the connection is removed in seconds, without damage to the terminal.

There is a constant surveillance of manufacturing dimensions. Each wrapping bit is subjected to a series of "Qualification Tests". These consist of wrapping groups of wire on various types of terminals. The wrapped wires are then subjected to a "strip" test to determine adequate tightness. "Unwrap" tests are also performed to ensure against an "Over Tight" wrap.

Solid wire is used for wire wrapped connections. Copper is the most commonly used wire. Minimum elongation of 15% is required for 24 through 32 AWG; 20% for larger wire.

Bare W	ïre Dia.	AWG	SWG
In.	mm	(USA)	(GB)
.0403	1.022	18	
.040	1.016		19
.036	0.914	19	20
.032	0.813	20	21
.028	0.711	21	22
.0253	0.643	22	
.024	0.61		23
.0226	0.574	23	
.022	0.559		24
.0201	0.51	24	
.020	0.508		25
.018	0.457		26
.0179	0.455	25	
.0164	0.417		27
.0159	0.404	26	
.0148	0.376		28
.0142	0.361	27	
.0136	0.345		29
.0126	0.320	28	
.0124	0.315		30
.0116	0.295		31
.0113	0.287	29	
.0108	0.274		32
.0100	0.254	30	33
.0092	0.234		34
.0089	0.225	31	
.0084	0.213		35
0.008	0.203	32	

.085

.086

.087

2.16

2.18

2.21

.080

.081

.082

2.03

2.06

2.08

.075

.076

.077

1.91

1.93

1.96

.090

.091

.092

2.29

2.31

2.34

.095

096

.097

2.41

2.44

2.46

100

101

102

2.54

2.57

2.59

2.67

ln.	.010	.015	.020	.025	.030	.035	.040	.045	.050	.055	.060	.065	.070
mm	0.25	0.38	0.51	0.64	0.76	0.89	1.02	1.14	1.27	1.40	1.52	1.65	1.78
.010	.014	.018	.022	.027	.032	.036	.041	.046	.051	.056	.061	.066	.071
0.25	0.36	0.46	0.56	0.69	0.81	0.91	1.04	1.17	1.30	1.42	1.55	1.68	1.80
.015	.018	.021	.025	.029	.033	.038	.043	.047	.052	.057	.062	.067	.072
0.38	0.46	0.53	0.64	0.74	0.84	0.97	1.09	1.19	1.32	1.45	1.58	1.70	1.83
.020	.022	.025	.028	.032	.036	.040	.045	.049	.053	.058	.063	.068	.073
0.51	0.56	0.64	0.71	0.81	0.91	1.02	1.14	1.25	1.35	1.47	1.60	1.73	1.85
.025	.027	.029	.032	.035	.039	.043	.047	.050	.056	.060	.065	.069	.074
0.64	0.69	0.74	0.81	0.89	0.99	1.09	1.19	1.27	1.42	1.52	1.65	1.75	1.88

103 '3 .078 .083 .088 .093 098 1.85 1.98 2.11 2.24 2.36 2.49 2.62 '4 .079 .084 .089 .094 .099 104 1.88 2.01 2.13 2.26 2.39 2.52 2.64 .033 .042 .071 .076 030 .032 .036 .039 .046 .050 .054 058 .062 .067 .080 .085 .090 .095 100 105 1.80 0.76 1.07 1.93 2.16 2.29 2.41 0.81 0.84 0.91 0.99 1.17 1.27 1.37 1.47 1.58 1.70 2.03 2 54 .078 .035 .038 .040 .043 .046 .049 .052 056 060 .064 .069 .073 .082 .091 .096 106 036 087 101 1.32 0.91 1.25 1.63 1.85 1.98 2.08 2.21 2.31 2.44 2.57 2.69 0.89 0.97 1.02 1.09 1.17 1.42 1.52 1.75 .076 .043 .045 .047 .068 .080 .089 107 .040 .041 .050 .052 .056 .060 .064 .072 .084 .092 .097 102 1.02 1.09 1.19 1.27 1.32 1.42 1.52 1.63 1.73 1.83 1.93 2.03 2.13 2.26 2.34 2.46 2.59 1.04 1.14 2.72 .045 046 .047 049 .050 .054 .056 060 063 067 071 074 .078 .083 087 091 096 101 109 1.17 1.37 1.42 1.52 1.88 2.11 2.31 2.44 2.57 2.67 1 14 1.19 1.25 1.27 1.60 1.70 1.80 1 98 2.21 2.77 .051 .052 .056 .058 .060 .067 .074 .078 .082 .090 .050 .053 .064 .071 .086 .094 .098 .103 107 111 1.30 1.27 1.32 1.35 1.42 1.47 1.52 1.63 1.70 1.80 1.88 1.98 2.08 2.18 2.29 2.39 2.49 2.62 2.72 2.82

DV

# Manual Wire Wrapping Guns



WG800



The WG200-R3278 wrapping gun is lightweight and is used for both regular and modified wraps, and is made of high quality Lexan<sup>®</sup>. The all-metal gear drive system ensures reliability and longevity providing high quality wire wrapped connections. These tools can accommodate a full line of bits and sleeves ranging from 22-32 AWG (0.64 - 0.20mm). The WG200-R3278 manual wrapping guns are ideal for jobs without a convenient power source.

The WG100R3278INS-S is an ergonomic tool that is designed with a Chuck style nose-piece to accommodate JDV's full line of bits and sleeves ranging from 22-32 AWG (0.64 - 0.20mm). It is equipped with a special housing which helps to protect operators while working with dangerous voltage. This wrapping gun is made of high quality aluminum and the gear train is more reliable and far exceeds other manufacturers.

Part No	Insulation	Housing Type	Nose Piece				
WG800 FULL		Aluminum w/Dielectric Coating	Chuck				
WG100R3278INS-S	Partial	Aluminum w/Dielectric Coating	Chuck				
WG200-R3278	Partial	Lexan <sup>®</sup>	Chuck				
See Pages 8-9 for Bits & Sleeves Selection							



# Then try JDV's <mark>INSULATED</mark> Wire Wrapping Tool!

JDV Products developed a *FULLY INSULATED* Manual Wire Wrap Tool (model WG800) that stops electrical currents right at the source!

By insulating the barrel of the wrap gun, electrical current cannot enter the tool, which helps to protect telephone technicians from getting shocked or injured through the wrapping gun while making wire wrap connections on hot circuits.

The WG800 is designed with a rugged aluminum housing with orange dielectric coating, a solid Chuck-style nosepiece, and accommodates JDV's full line of wrap bits and sleeves ranging from 22-32 AWG (0.64-0.20mm).

JDV's WG800 has been found to meet UL Safety Requirement. The test was provided by Third Party Laboratory and Certified to 1000V A/C under Dielectric testing condition IAW UL Standard.



Don't forget JDV's FL100 LED Light Bracket See page 15 for details

# **Manual Wire Unwrapping Gun**

JDV's WG100-R3394INS wire unwrapping gun is made of high quality aluminum housing and has a coating that ensures safety for the operator when doing unwrapping applications in high voltage environments. Like JDV's other manual guns, this tool comes in a Chuck style model and can be used with JDV's unwrap bits and sleeves from 22-32 AWG (0.64-0.20 mm).

Part No	Insulation	Housing Type	Nose Piece
WG100-R3394INS	Partial	Aluminum w/ Dielectric Coating	Chuck

Kit Part						<b>Terminal Hole</b>		
No	P/N	Bit P/N	Style	Inch	mm	Inch	mm	
UP70	SP171	BU70	Chuck	22-26	0.65-0.40	0.07	1.77	
UP36	SP171	BU36	Chuck	24-32	0.50-0.20	0.036	0.96	



JDV Products, Inc • 22-01 Raphael Street • Fair Lawn, NJ 07410 USA 201-796-1720 • Fax 201-796-9399 • www.jdvproducts.com

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# **Electric and Battery Operated Wire Wrapping Guns**

### WG500 Series Battery Wire Wrap/Unwrap Guns

The WG500 series lightweight portable Wire Wrapping/ Unwrapping Tool can be used on the bench or in remote Central Office locations.

- Ergonomically designed to reduce operator strain and fatigue.
- Operator Adjustable indexing position of the bit to suit individual preference
- Self-aligning gearing system reduces part breakage and repairs.
- Reduced electrical interference.
- Compact charger unit (included) recharges batteries in one hour.
- 1100 connections with one charge.
- Standard rechargeable and non-rechargeable C batteries may be used in an emergency basis.
- High impact-resistant plastic housing.
- Overcharge protection.
- Easily fits into JDV's tool pouch (model TH251)
- Weight: 14oz

Part No	Туре	Charger Voltage	Hz	Speed/ RPM	Wire Size	
WG500	Standard	120				
WG500BF	Backforce	120		2000		
WG502	Standard	220	60	3000	22-32 AWG	
WG502BF	Backforce	220				

### WG601 Series Electric Wire Wrap Guns

The WG601 series AC-Powered Electric Tools are heavyduty rugged design for all of your Wire Wrapping needs.

- Operator Adjustable indexing position of the bit to suit individual preference.
- High quality electric motor provides steady performance for light to heavy production.
- High impact-resistant plastic housing
- Ergonomically designed to reduce operator strain and fatigue
- Planetary gear reduction drive, insulated collet and collet nut, light trigger action and two-wire cord.
- · Double insulated.
- Easily fits into JDV's tool pouch (model TH251)
- Weight: 18oz

Part No	Type Voltage		Hz	Speed/ RPM	Production	Wire Size
WG601	Standard	120	60	4500	Light-Heavy	18-32 AWG
WG601-BF	Backforce	120	60	4500	Light-Heavy	18-32 AWG



WG500 Series includes: Tool, One Battery, and Charger





# Pneumatic Wire Wrapping Guns WG300 Series Pneumatic Wire Wrap Guns

The WG300 is not only perfectly balanced, but it is also the lightest pneumatic wire wrap tool available. The WG300 is rated for heavy duty application wrapping 18 AWG wire, yet it is the ideal tool for delicate 32 AWG work.

Part	Tuno	Speed/	We	ight	Wire	Size
No	Туре	RPM	Oz	g	AWG	mm
WG300	Standard	4500	110	200	18-32	1.0-0.20
WG300BF	Backforce	4500	110	300	10-32	1.0-0.20

These tools are designed to operate at 80-110psi (6-7 BAR)

### WG400 Series Triggerless Wire Wrap Guns

The triggerless WG400 air wire wrap tool is designed for high production environments. It's ergonomic design helps reduce wire wrapping muscle fatigue. When combined with the WAC400 air logic controller, this triggerless tool uses a 3 psi back-pressure signal to activate the tool. The slightest movement of the thumb over a small air sensor hole signals the WAC400 to activate the WG400.

Part	Turne	Speed/	Wei	ight	Wire	Size	
No	Туре	RPM	Oz	g	AWG	mm	
WG400	Standard	4500	110	200	10.00	10020	
WG400BF	Backforce	4500	110	300	18-32	1.0-0.20	

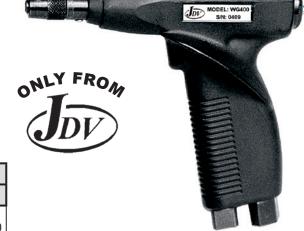
### **Repair Program**

Do you need a good repair center for your JDV pneumatic wrapping guns? If so, then we can help! JDV offers an excellent repair program on all of our pneumatic wire wrapping tools. Simply call JDV, ask for a RMA# (Return Materials Authority) and write this on the outside of the box, and send the unit back to JDV with attention to Repair Dept.

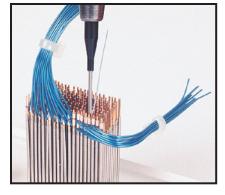




JOV MODEL: WG4



# **Specialty Tools**



### **MICRO BIT WIRE WRAPPING TOOL - 7500 SERIES**

JDV Products Inc. introduces the series 5000 and series 7500 Micro-Bit wire wrapping and unwrapping tools. These tools are designed for wrapping wire on .016 in. (0.4mm) square terminals in high-density connectors with pin center distances of .050 in. and .075 in. (1.27mm and 1.9mm).

The 7500 series is designed to work with .075 in. (1.9mm) pin spacing and are conventional wire wrap tools.

Both series are very small tools and require extra care when wire wrapping these applications.

Part Pin Distar		stance	Pin Size	Wire D	iameter	Retaining Sleeve	Wrap
No	Inch	mm	Inch	AWG	mm	Part No	Туре
BMH7528	<b>'528</b> 0.075 1.90		0.016 SQ	28	0.032	S75	MODIFIED
BMH7530	0.075	1.9	0.016 SQ	30-32	0.20-0.25	S75	MODIFIED



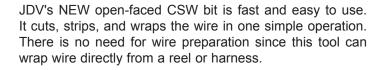
### **MICRO WIRE WRAPPING HAND TOOL**

Part	Pin Di	stance	Pin Size	Wire	Diameter	Wrap	
No			Inch	AWG	mm	Туре	
HR5030	0.050 1.27		0.016 SQ	30-32	0.20-0.25	REGULAR	
HM7528	0.075	1.9	0.016 SQ	28	0.32	MODIFIED	
HM7530	0.075	1.9	0.016 SQ	30-32	0.20-0.25	MODIFIED	

### **UNWRAP TOOL**

Part	-	al Hole neter	Terminal H	lole Depth
No	Inch	mm	Inch	mm
UHD5075	0.022	0.56	0.50	12.70

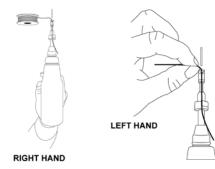
# CSW (Cut/Strip/Wrap) Bits

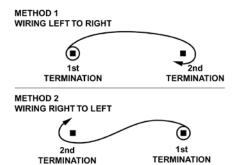


\* For a demonstration video, please visit our website



Head Part	Power Tool	wile Size		e	-	. Hole neter	-	. Hole pth	St Len	rip Igth	He Dian		Min. S Tern	pacing ninal
No	Holder	AWG	SWG	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm
CSWB24	CSWH-1	24	25	0.50	0.07	1.78	1.000	25.40	1.62	41.10	0.24	6.10	0.16	3.90
CSWB24-4C	CSWH-1	24	25	0.50	0.07	1.78	0.354	9.02	-	-	0.305	7.75	-	-
CSWB26	CSWH-1	26	23	0.40	0.07	1.78	1.000	25.40	1.62	41.10	0.24	6.10	0.16	3.90
CSWB26-4B	CSWH-1	26	25	0.50	0.07	1.78	0.354	9.02	-	-	0.305	7.75	-	-





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# **Modified Wire Wrapping Bits and Sleeves**



All Bits & Sleeves are Fully Compatible with any Make or Model Wire Wrapping Tool

AW	/G (ir	nches	5)			BIT	SLEEVE			Μ	IETRI	C (m	m)
Wire Gauge (AWG)	Max Insulation Diameter	Min/Max Terminal Diagonal	Terminal Hole Depth	Effective Radius	Terminal Hole Diameter	PART No.	PART No.	Terminal Hole Diameter	Effective Radius	Terminal Hole Depth	Min/Max Terminal Diagonal	Max Insulation Diameter	Wire Gauge (mm)
20	.058	.042/.073	1.000	.150	.075	BM20	S194LN	1.90	3.81	25.40	1.07/1.85	1.47	0.80
22	.054	.049/.074	1.000	.132	.075	BM22	S171	1.90	3.35	25.40	1.24/1.87	1.37	0.65
22-24	.050	.049/.074	1.250	.121	.075	BM224	S171	1.90	3.07	31.75	1.24/1.87	1.27	.5065
24	.046	.054/.073	1.750	.117	.075	BM24DD	S171	1.90	2.97	44.50	1.37/1.87	1.17	0.50
24	.044	.024/.043	0.750	.098	.044	BM2444*	S125LN*	1.11	2.48	19.05	0.60/1.09	1.11	0.50
24	.046	.054/.073	0.750	.118	.075	BM24	S171	1.90	2.99	19.05	1.07/1.85	1.17	0.50
24-26	.046	.054/.073	0.750	.118	.075	BM2426	S171	1.90	2.99	19.05	1.37/1.85	1.17	.4050
26	.031	.023/.038	0.750	.075	.040	BM2640*	S93*	1.02	1.90	19.05	0.58/0.96	0.79	0.40
26	.046	.054/.073	1.000	.118	.075	BM26	S171	1.90	2.99	25.40	1.37/1.85	1.17	0.40
26	.044	.028/.044	0.750	.098	.044	BM2644*	S125LN*	1.11	2.48	19.05	0.71/1.12	1.11	0.40
26	.042	.053/.068	1.000	.109	.069	BM2669	S159	1.75	2.77	25.40	1.34/1.72	1.04	0.40
26	.050	.053/.068	1.125	.118	.069	BM26D	S171	1.75	2.99	28.50	1.34/1.72	1.27	0.40
28	.030	.031/.035	0.750	.066	.036	BM28*	S93*	0.91	1.67	19.05	0.79/0.89	0.76	0.32
28	.030	.031/.035	1.125	.066	.036	BM28-1125*	S93*	0.91	1.67	28.57	0.79/0.89	0.76	0.32
28	.030	.031/.035	1.250	.066	.036	BM28-1250*	S93*	0.91	1.67	31.75	0.79/0.89	0.76	0.32
28	.034	.053/.068	1.000	.103	.070	BM2870	S159	1.78	2.61	25.40	1.35/1.72	0.86	0.32
28-29	.036	.033/.038	0.750	.091	.040	BM2840*	S125*	1.02	2.31	19.05	0.83/0.96	0.91	.2932
30	.023	.030/.035	0.750	.061	.036	BM30SW*	S93*	.091	1.54	19.05	.099/1.06	0.58	0.25
30	.027	.031/.035	0.750	.064	.043	BM3043*	S93*	1.09	1.62	19.05	0.79/0.89	0.69	0.25
30	.027	.031/.035	0.750	.064	.036	BM30*	S93*	0.91	1.62	19.05	0.79/0.89	0.68	0.25
30	.027	.031/.035	1.125	.064	.036	BM30-1125*	S93*	0.91	1.62	28.57	0.79/0.89	0.68	0.25
30	.023	.030/.035	0.750	.064	.036	BM30SI*	S93*	0.91	1.62	19.05	0.76/0.89	0.58	0.25
30	.027	.060/.064	1.000	.106	.066	BM3066	S159	1.67	2.70	25.40	1.52/1.62	0.69	0.25
30	.027	.027/.030	0.750	.066	.031	BM3031*	S93*	0.79	1.67	19.05	0.69/0.76	0.69	0.25
30-32	.027	.034/.038	0.750	.064	.040	BM3040*	S93*	1.02	1.62	19.05	0.86/0.96	0.69	.2025
30-32	.029	.062/.065	1.000	.100	.067	BM3068	S125LD	1.70	2.54	25.40	1.57/1.65	0.74	.2025

\* These tools are recommended for .025" square terminals on 0.100 centers / 0.63 mm on 2.54 mm centers.

### **Insulated Sleeves**

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To order insulated sleeves, please specify insulation color on the end of the standard sleeve part number. (i.e. S171<u>R</u>: R=red, B=blue, Y=yellow, G=green, W=white).

# **Regular Wire Wrapping Bits and Sleeves**



All Bits & Sleeves are Fully Compatible with any Make or Model Wire Wrapping Tool

AW	/G (ir	nches	5)			BIT	SLEEVE			Μ	ETRI	C (m	<b>m)</b>
Wire Gauge (AWG)	Max Insulation Diameter	Min/Max Terminal Diagonal	Terminal Hole Depth	Effective Radius	Terminal Hole Diameter	PART No.	PART No.	Terminal Hole Diameter	Effective Radius	Terminal Hole Depth	Min/Max Terminal Diagonal	Max Insulation Diameter	Wire Gauge (mm)
18	N/A	.060/.073	1.000	.150	.075	BR18	S194	1.90	3.81	25.40	1.52/1.85	N/A	1.00
19	N/A	.042/.073	1.000	.123	.075	BR19	S171	1.90	3.12	25.40	1.07/1.85	N/A	0.91
19-20	N/A	.091/.122	1.000	.150	.125	BR1920L	S212	3.17	3.81	25.40	2.31/3.09	N/A	.8091
20	N/A	.091/.122	1.000	.150	.125	BR20L	S212	3.17	3.81	25.40	2.31/3.09	N/A	.8091
20-22	N/A	.042/0.73	1.000	.123	.075	BR20	S171	1.90	3.12	25.40	1.07/1.85	N/A	.6580
22	N/A	.061/.085	1.000	.125	.086	BR22T	S171	2.18	3.17	25.40	1.54/2.15	N/A	0.65
22	N/A	.054/.073	0.750	.117	.075	BR22	S171	1.90	2.97	19.05	1.37/1.85	N/A	0.65
22-24	N/A	.054/.073	1.000	.111	.075	BR224-1	S171	1.90	2.82	25.40	1.37/1.85	N/A	.5065
22-24	N/A	.054/.073	0.807	.111	.075	BR224	S171	1.90	2.82	20.50	1.37/1.85	N/A	.5065
24	N/A	.024/.043	1.000	.083	.044	BR2444*	S125LN*	1.11	2.10	25.40	0.60/1.09	N/A	0.50
24	N/A	.055/.074	1.500	.100	.075	BR24D	S159	1.90	2.54	38.10	1.39/1.87	N/A	0.50
24	N/A	.055/.074	0.750	.100	.075	BR24	S159	1.90	2.54	19.05	1.39/1.87	N/A	0.50
24-26	N/A	.058/.073	0.750	.100	.075	BR2426	S159	1.90	2.54	19.05	1.47/1.85	N/A	.4050
24-26	N/A	.054/.065	1.000	.098	.066	BR2466	S125LD	1.67	2.48	25.40	1.37/1.65	N/A	.4050
26	N/A	.054/.073	1.000	.112	.075	BR16903	S159	1.90	2.84	25.40	1.37/1.85	N/A	0.40
26	N/A	.023/.038	0.750	.068	.040	BR2639*	S93LN*	1.02	1.72	19.05	0.58/0.96	N/A	0.40
26	N/A	.058/.073	1.000	.100	.075	BR26	S159	1.90	2.54	25.40	1.47/1.85	N/A	0.40
30-32	N/A	.034/.038	0.750	.064	.040	BR30*	S93*	1.02	1.62	19.05	0.86/0.96	N/A	.2025

	Extended (5" Long) Bits and Sleeves Regular and Modified												
22	N/A	.054/.073	0.750	.117	.075	BR22-5	S171-5	1.90	2.97	19.05	1.37/1.85	N/A	0.65
22-24	N/A	.054/.073	0.807	.111	.075	BR224-5	S171-5	1.90	2.82	20.50	1.37/1.85	N/A	.5065
24	N/A	.055/.073	0.750	.100	.075	BR24-5	S159-5	1.90	2.54	19.05	1.39/1.87	N/A	0.50
26	N/A	.058/.073	1.000	.100	.075	BR26-5	S159-5	1.90	2.54	25.40	1.47/1.85	N/A	0.40
26	.031	.023/.038	0.750	.075	.040	BM2640-5*	S93LN-5*	1.02	1.90	19.05	0.58/0.96	0.79	0.40
30	.027	.031/.035	0.750	.064	.036	BM30-5*	S93-5*	0.91	1.62	19.05	0.79/0.89	0.69	0.25

\* These tools are recommended for .025" square terminals on 0.100 centers / 0.63 mm on 2.54 mm centers.

### **Insulated Sleeves**

To order insulated sleeves, please specify insulation color on the end of the standard sleeve part number. (i.e. S171<u>R</u>: R=red, B=blue, Y=yellow, G=green, W=white).



# Hand Wrapping / Unwrapping Tools



### New 22-24 AWG Hand Wrap/Unwrap Tool

The improved handle is made of high quality aluminum and is equipped with a longer 1.2 inch knurl throughout the grip area for ease of use. It's only 5.5 inches long when assembled and resists loosening during unwrap operation. See below for specifications.



Torminal

### Wrap Side

# **Regular Wrap Tools**

### **Unwrapping Side**

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Regular
Wran

3		AWG	mm
gular	HWR18	18-19	1.00-0.91
/rap	HWR20	20	0.80
	HWR22	22	0.65
	HWR224	22-24	0.50-0.65
	HWUR224	22-24	0.50-0.65
	HWR224-1	22-24	0.50-0.65
	HWR224L	22-24	0.50-0.65
	HWR24	24	0.50
	HWR24D	24	0.50
	HWR2426	24-26	0 40-0 50

Part No	Wi	re Size	Insulation H		Но	ninal ole neter	Terminal Hole Depth		Outside Diameter	
	AWG	mm	In.	mm	In.	mm	In.	mm	In.	mm
HWR18	18-19	1.00-0.91	-	-	.075	1.90	1.000	25.40	.250	6.35
HWR20	20	0.80	-	-	.075	1.90	1.000	25.40	.218	5.53
HWR22	22	0.65	-	-	.075	1.90	.750	19.05	.218	5.53
HWR224	22-24	0.50-0.65	-	-	.075	1.90	.807	20.50	.218	5.53
HWUR224	22-24	0.50-0.65	-	-	.075	1.90	.807	20.50	.218	5.53
HWR224-1	22-24	0.50-0.65	-	-	.075	1.90	1.000	25.40	.218	5.53
HWR224L	22-24	0.50-0.65	-	-	.086	2.18	1.000	25.40	.218	5.53
HWR24	24	0.50	-	-	.075	1.90	.750	19.05	.218	5.53
HWR24D	24	0.50	-	-	.075	1.90	1.50	38.10	.218	5.53
HWR2426	24-26	0.40-0.50	-	-	.075	1.90	.750	19.05	.218	5.53
HWR2444*	24	0.50	-	-	.044	1.11	1.000	25.40	.156	3.96
HWR26	26	0.40	-	-	.075	1.90	1.000	25.40	.218	5.53

### Terminal **Terminal** Outside Hole Hole Depth Diameter Diameter In. In. mm In. mm mm .075 1.90 1.000 25.40 .187 4.74 .070 1.77 1.000 25.40 .156 3.96 1.77 1.000 25.40 .156 .070 3.96 1.77 1.000 25.40 .156 3.96 .070 1.77 1.000 25.40 .156 .070 3.96 3.96 .070 1.77 1.000 25.40 .156 2.18 1.000 25.40 .086 .156 3.96 1.000 25.40 .070 1.77 .156 3.96 1.77 1.000 25.40 .156 .070 3.96 1.000 25.40 .070 1.77 .156 3.96 .038 0.96 1.000 25.40 .093 2.36 .070 1.77 1.000 25.40 .156 3.96

### Wrap Side

# **Modified Wrap Tools**

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Part No	Wire Size		Max. Insulation Diameter		Terminal Hole Diameter		-	ninal Depth	Outside Diameter	
	AWG	AWG mm		mm	In.	mm	ln.	mm	ln.	mm
HWM22	22	0.65	.052	1.32	.075	1.90	1.000	25.40	.218	5.53
HWM24	24	0.50	.046	1.17	.075	1.90	.750	19.05	.218	5.53
HWM24D	24	0.50	.050	1.27	.069	1.75	1.125	28.50	.218	5.53
HWM2444*	24	0.50	.044	1.11	.044	1.11	.750	19.05	.156	3.96
HWM26	26	0.40	.046	1.17	.075	1.90	1.000	25.40	.218	5.53
HWM2640*	26	0.40	.031	0.79	.040	1.02	.750	19.05	.125	3.17
HWM28	28	0.32	.030	0.76	.036	0.91	.750	19.05	.125	3.17
HWM2840*	28-29	0.29-0.32	.036	0.91	.040	1.02	.750	19.05	.156	3.96
HWM30*	30	0.25	.027	0.69	.036	0.91	.750	19.05	.125	3.17
HWM3066	30	0.25	.027	0.69	.066	1.67	1.000	25.40	.218	5.53

### **Unwrapping Side**

Tern Ho Dian			ninal Depth	Outside Diameter			
In.	mm	In.	mm	In.	mm		
.070	1.77	1.00	25.40	.156	3.96		
.070	1.77	1.00	25.40	.156	3.96		
.070	1.77	1.00	25.40	.156	3.96		
.038	0.96	1.00	25.40	.093	2.36		
.070	1.77	1.00	25.40	.156	3.96		
.038	0.96	1.00	25.40	.093	2.36		
.038	.096	1.00	25.40	.093	2.36		
.038	0.96	1.00	25.40	.093	2.36		
.038	0.96	1.00	25.40	.093	2.36		
.070	1.77	1.00	25.40	.156	3.96		

\* These tools are recommended for .025" square terminals on 0.100 centers / 0.63 mm on 2.54 mm centers.

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# Hand Wrapping Tools



# **Regular Wrap Tools**

Part	Wire	Wire Size		Max. Insulation Diameter		al Hole neter		al Hole pth	Outside Diameter		
No	AWG	mm	In.	mm	In.	mm	In.	mm	In.	mm	
HR18	18-19	1.00-0.91	-	-	.075	1.90	1.000	25.40	.250	6.35	
HR1920L	20	0.80	-	-	.125	3.17	1.000	25.40	.250	6.35	
HR1920	20	0.80	-	-	.075	1.90	1.000	25.40	.218	5.53	
HR22	22	0.65	-	-	.075	1.90	.750	25.40	.218	5.53	
HR224	22-24	0.65-0.50	-	-	.075	1.90	.807	20.50	.218	5.53	
HR224-1	22-24	0.65-0.50	-	-	.075	1.90	1.000	25.40	.218	5.53	
HR224L	22-24	0.65-0.50	-	-	.086	2.18	1.000	25.40	.218	5.53	
HR24	24	0.50	-	-	.075	1.90	.750	19.05	.218	5.53	
HR24D	24	0.50	-	-	.075	1.90	1.500	38.10	.218	5.53	
HR2444	24	0.50	-	-	.044	1.11	1.000	25.40	.156	3.96	
HR2426	24-26	0.50-0.40	-	-	.075	1.90	.750	19.05	.218	5.53	
HR26	26	0.40	-	-	.075	1.90	1.000	25.40	.218	5.53	



# **Modified Wrap Tools**

Part	Wire	Size		sulation neter		al Hole neter	-	al Hole pth		side neter
No	AWG	mm	In.	mm	In.	mm	In.	mm	In.	mm
HM20	20	0.80	.058	1.47	.075	1.90	1.000	25.40	.250	6.35
HM22	22	0.65	.052	1.32	.075	1.90	1.000	25.40	.218	5.53
HM24	24	0.50	.046	1.17	.075	1.90	.750	19.05	.218	5.53
HM24D*	24	0.50	.050	1.27	.069	1.75	1.125	28.50	.218	5.53
HM2444*	24	0.50	.044	1.11	.044	1.11	.750	19.05	.156	3.96
HM2426	24-26	0.50-0.40	.046	1.17	.075	1.90	.750	19.05	.218	5.53
HM26	26	0.40	.046	1.17	.075	1.90	1.000	25.40	.218	5.53
HM2640*	26	0.40	.031	0.79	.040	1.02	.750	19.05	.125	3.17
HM2669	26	0.40	.041	1.04	.069	1.75	1.000	25.40	.218	5.53
HM2840*	28-29	0.32-0.29	.036	0.91	.040	1.02	.750	19.05	.156	3.96
HM30	30	0.25	.027	0.69	.036	0.91	.750	19.05	.125	3.17
HM30SP*	30	0.25	.027	0.69	.036	0.91	.750	19.05	.125	3.17
HM3066	30	0.25	.027	0.69	.066	1.67	1.000	25.40	.218	5.53
HM3040*	30	0.25	.027	0.69	.040	1.02	.750	19.05	.125	3.17
HM3043*	30	0.25	.027	0.69	.043	1.09	.750	19.05	.125	3.17



\* These tools are recommended for .025" square terminals on 0.100 centers / 0.63 mm on 2.54 mm centers.

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# Wrap/Strip/Unwrap Tools

Three tools in one! With a compact design, these economic tools can wrap, strip, and unwrap wire with ease! Perfect for small repair, service work, and for any hobbyist.



Part No.	Wire Size		Terminal Hole Dia.		Tern Hole I		Out: Diam	Wrap Type	
110.	AWG	AWG mm		mm	In.	mm	In.	mm	
HSR224	22-24	0.65- 0.50	0.075	1.90	1.50	38.1	0.213	5.40	Reg
HSR30	30	0.25	0.036	0.91	1.50	38.1	0.125	3.18	Reg
HSM30	30	0.25	0.075	0.075 0.91		38.1	0.125	3.18	Mod

# **Micro Hand Wrap/Strip Tool**

This unique tool is designed for regular or modified 30 AWG wire wraps, respectively on .025 in square terminals. Features a nickel-plated brass knurled handle with a storage cavity for the wire stripper, manually tightened collet for easy bit replacement and swivel end cap for effortless turning.



Part No.	Wire	Size	Termin Di	al Hole a.	Termin De	Wrap Type	
NO.	AWG	mm	In.	mm	In.	mm	
MT30R	30	0.025	0.040	1.02	0.75	19.05	Reg
MT30M	30	30 0.025		0.91	0.75	19.05	Mod

# Hand Unwrapping Tools



Deut		\A/i.w	e Cine	Directior	n of Wrap	Term	ninal	Tern	ninal	Outsi	ide	
Part No.	Туре	VVID			ccw cw		Hole Diameter		Hole Depth		Diameter	
		AWG	mm	් (L)	ٽ <b>(R)</b>	In.	mm	In.	mm	In.	mm	
HU75	А	18-19	1.00-0.91	*		.075	1.90	1.000	25.40	0.187	4.74	
HU1	А	20-26	0.80-0.40	*		.070	1.77	1.000	25.40	0.156	3.96	
HU2	В	20-26	0.80-0.40	*	*	.070	1.77	1.000	25.40	0.156	3.96	
HU4	С	20-26	0.80-0.40	*		.070	1.77	2.360	60.00	0.187	4.74	
HU5	С	20-26	0.80-0.40	*	*	.070	1.77	2.360	60.00	0.187	4.74	
HU7	А	20-26	0.80-0.40	*		.086	2.18	0.750	19.05	0.156	3.96	
HU8	А	20-26	0.80-0.40	*		.070	1.77	1.500	38.10	0.120	3.04	
HU120	А	20-26	0.80-0.40	*		.070	1.77	1.000	25.40	0.120	3.04	
HU120RL	В	20-26	0.80-0.40	*	*	.070	1.77	1.000	25.40	1.120	3.04	
HU93120	В	24-32 20-26	0.50-0.20 0.80-0.40	*		.038 .070	0.96 1.77	1.000 1.000	25.40 25.40	0.093 0.120	2.36 3.04	
HU93	А	24-32	0.50-0.20	*		.038	0.96	1.000	25.40	0.093	2.36	
HU93L	А	24-32	0.50-0.20		*	.038	0.96	1.000	25.40	0.093	2.36	
HU93RL	В	24-32	0.50-0.20	*	*	.038	0.96	1.000	25.40	0.093	2.36	
HU3	С	28-32	0.32-0.20	*	*	.038	0.96	0.750	19.05	0.156	3.96	
HU45	А	20-26	0.80-0.40	*		.045	1.14	1.000	25.40	0.120	3.04	

# Semi-Automatic Wire Wrapping Systems

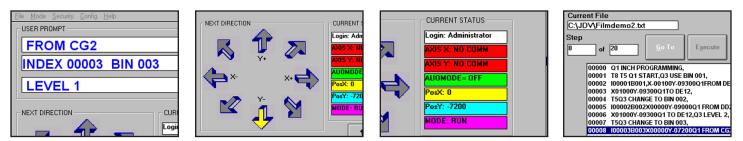


### Complete System Consistes of:

- 1.) X-Y Wiring Table (see chart)
- 2.) Controller System, consisting of:
  - Controller
  - Manual
  - Software
  - Power Cable
  - Interface Cable
  - "Y" Connector
- 3.) Computer System
- PC
- Monitor
- Keyboard & Mouse
- 4.) 40 Tube Wire Storage Bin
- 5.) Lift Base (Models SW3100 and SWT-3100 ONLY)

\* For a demonstration video, please visit our website

The SW-1100, SW-2100, and SW-3100 Semi-Automatic Wire Wrapping Systems are designed to significantly speed up the wire wrapping process by pointing the operator's wire wrap tool to the correct pins. This gives the operator step-by-step instruction through on-screen prompts, thus guiding the operator through the entire wire wrapping process.



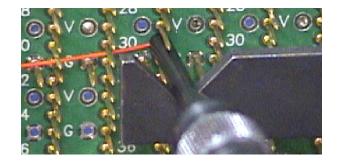
The result is a ten-fold increase in production rate and the potential for significant reduction in technician error over manual wire wrapping. The systems are designed for ease-of-use, and are significantly more cost-effective than fully-automatic systems.

The newly designed Rapid Wrap System Controller incorporates many new features/benefits including:

- · Parts programming in industry-proven ASCII format.
- · User selectable units of measure
- Very simple WIN95/98 user interface.
- · Maintains a time-stamped text log file of activities such as:
- Starting and finishing a job
- Last position (in case of power failures)
- User and supervisor logins/logouts
- Easily networkable through WIN95/98 networking
- Prompts the operator with wire bin numbers
- · Reduces potential for human error

Comp	Complete Systems									
SW1100	Complete System with 20" x 20" X-Y Table									
SW2100	Complete System with 40" x 30" X-Y Table									
SW3100	Complete System with 40" x 30" X-Y Table and Lift Base									

Part	PartTablesNo.swT1100swT2100swT1100swT2100			Controller w/ Software	Wire Bin	
NO.			SWT3100	SWS-2000	SWC-2000	SWB-40
SW1100	•			•	•	•
SW2100		•		•	•	•
SW3100			•	•	•	•



System C	System Components					
SWB40	40 Tube Wire Storage Bin					
SWC2000	Controller System with Software					
SWS2000	VS2000 Computer System					
SWT1100	X-Y Table 20" x 20" Wire Area					
SWT2100	X-Y Table 40" x 30" Wire Area					
SWT3100	X-Y Table 40" x 30" with Electric Lift Base					
SWRCC	Retrofit Connector Cable Assembly					
SWLB115	Electric Lift Base, 115 Volts					
SWLB230	Electric Lift Base, 230 Volts					



# Wire Wire Rolls

- Kynar™ insulated wire
- · Silver plated copper wire conductor
- UL listed
- Additional colors, gauges, and larger roll sizes up to 20,000 feet are special order only. Call for details.



Wi	ire	Insulati	ion DIA	Roll	Size	Part No.				
AWG	mm	Inch	mm	ft.	m	White	Yellow	Blue	Red	Black
24	0.50 0.030 0.76	0.76	500	152	WR24W-D	WR24Y-D	WR24B-D	WR24R-D	WR24BL-D	
		0.030	0.030 0.76	1000	304	WR24W-M	WR24Y-M	WR24B-M	WR24R-M	WR24BL-M
26	0.40	.027	0.69	500	152	WR26W-D	WR26Y-D	WR26B-D	WR26R-D	WR26BL-D
20	20 0.40 .027	.027	0.09	1000	304	WR26W-M	WR26Y-M	WR26B-M	WR26R-M	WR26BL-M
28	0.32	.024	0.60	500	152	WR28W-D	WR28Y-D	WR28B-D	WR28R-D	WR28BL-D
20	0.32	.024	0.00	1000	304	WR28W-M	WR28Y-M	WR28B-M	WR28R-M	WR28BL-M
30	0.05 0405	0405 0.50	500	152	WR30W-D	WR30Y-D	WR30B-D	WR30R-D	WR30BL-D	
30	0.25	.0195	0.50	1000	304	WR30W-M	WR30Y-M	WR30B-M	WR30R-M	WR30BL-M

# **Pre-Cut & Stripped Wire**

• 1" (25.4mm) strip-off length (both ends)

- Kynar<sup>™</sup> insulated
- Silver plated copper conductor
- 0.0195" (0.50mm)
   Insulation diameter
- UL listed

V					<u> </u>				
Insulatio	n Length	Part No. (500 Piece Pack)							
In	mm	White	Yellow	Blue	Red	Black			
1	25	W30W010	W30Y010	W30B010	W30R010	W30BL010			
1.5	38	W30W015	W30Y015	W30B015	W30R015	W30BL015			
2	51	W30W020	W30Y020	W30B020	W30R020	W30BL020			
2.5	63	W30W025	W30Y025	W30B025	W30R025	W30BL025			
3	76	W30W030	W30Y030	W30B030	W30R030	W30BL030			
3.5	89	W30W035	W30Y035	W30B035	W30R035	W30BL035			
4	101	W30W040	W30Y040	W30B040	W30R040	W30BL040			
4.5	114	W30W045	W30Y045	W30B045	W30R045	W30BL045			
5	127	W30W050	W30Y050	W30B050	W30R050	W30BL050			
6	152	W30W060	W30Y060	W30B060	W30R060	W30BL060			
7	178	W30W070	W30Y070	W30B070	W30R070	W30BL070			
8	203	W30W080	W30Y080	W30B080	W30R080	W30BL080			
9	228	W30W090	W30Y090	W30B090	W30R090	W30BL090			
10	254	W30W100	W30Y100	W30B100	W30R100	W30BL100			

**INSULATION LENGTH** 

# Wrap ID Tags

These tage are used to identify pin numbers on wrapping sockets. Consisting of a socketsized plastic panel with numbered holes in the pin location, the ID tag is slipped onto the socket before wrapping. They can also be written on for easy identification of location, IC part number, function, etc. These unique items greatly simplify both initial wire wrapping and subsequent troubleshooting or repair. A great help to technicians and production facilities alike.





สมบางออยสลามสมารรรมสาย Vrep-ID กะหม่ พระมายระบอน การรรรรรร

Part	Pins	Row S	pacing	Qty/	Part	Part Pins	Row S	Qty/	
No.		Inch	mm	Pkg.	No.		Inch	mm	Pkg.
ID8	8	0.3	7.5	100	ID24-3	24	0.3	7.5	50
ID14	14	0.3	7.5	100	ID24-4	24	0.4	10	50
ID16	16	0.3	7.5	100	ID24	24	0.6	15	50
ID18	18	0.3	7.5	50	ID28	28	0.6	15	25
ID20	20	0.3	7.5	50	ID40	40	0.6	15	25
ID22	22	0.4	10	50	ID96	96	0.3	7.5	25

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**J**DV

# Accessories LED Flashlight Bracket Assy.



The New FL100 is the perfect tool to illuminate the working area while making wire wrap connections. It's equipped with a high-density LED light providing operators with 15 hours of consecutive illumination when needed. With a simple flick of a switch, the beam of the light can be easily adjusted to intersect with the tips of 3" and 5" wrapping bits. Easily mounts on top of JDV's aluminum or Lexan® manual wire wrap tools as well as most competitor's models.

Part No	Description			
FL100	LED Flashlight Bracket Assy			
FL-LED	Replacement LED Light			
FL-BKT	Replacement Bracket w/Hardware			
FL-BT	Replacement Batteries, Set of 2pcs			

\* For more information on manual wire wrapping tools, please see page 4



DV

# **Deep Cavity Tool Pouch**

The New TH251's deeper cavity gives the room needed for storing the wrapping gun with the bit/sleeve still attached to the tool.

Great for carrying any JDV manual, battery, or electric operated wrapping guns along with accessory tools such as wrapping bits/sleeves, hand wrap/unwrap tools, and cut/ strip tools.

Part No	Туре	Description		
TH251R	<b>Right-Handed</b>	Nylon Wire Wrap Holster		
TH251L	Left-Handed	Nylon Wire Wrap Holster		

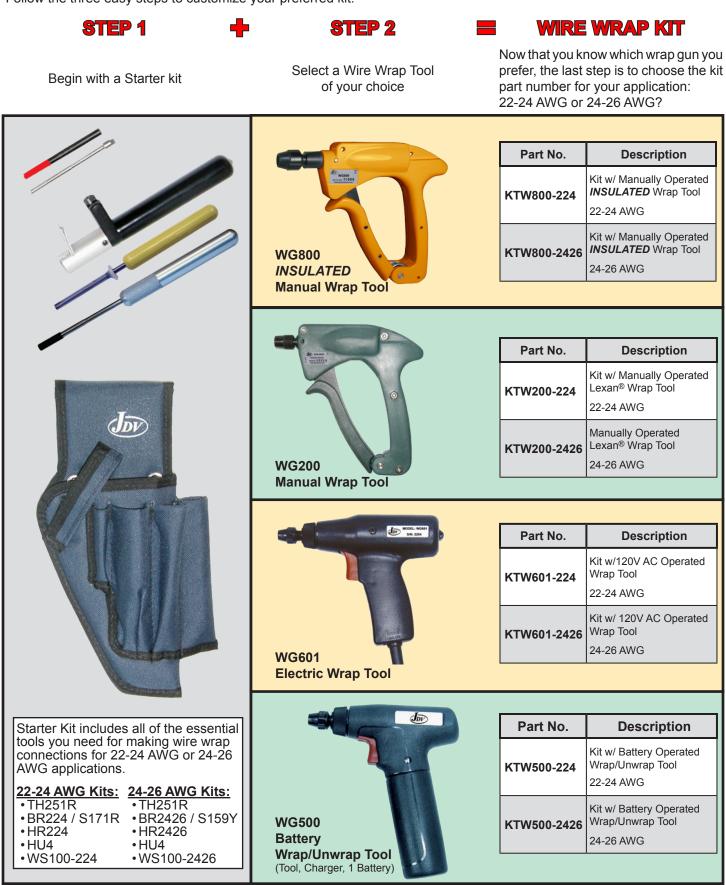
\* For Wire Wrap Tool Kits, please see page 16

Spare Part Kits for Manual Wire Wrap & Unwrap Tools



# Wire Wrap Tool Kits

These telecom wire wrap tool kits are designed to provide field service with a complete line of tools to perform regular wraps, unwrap, and strip wires in two wire gauge sets: 22 and 24 AWG or 24 and 26 AWG. Follow the three easy steps to customize your preferred kit:



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(**J**DV

# **Punch Down Tool, Wrenches, Accessories**

### **Punch Down Tool**

JDV's PD207 punch down tool inserts and cuts cable terminations effortlessly. The impact absorbing cushioned grip reduces operator stress for high volume installers. The adjustable high/low actuation setting accommodates termination requirements as well as operator preference. It's equipped with a storage compartment for spare blades for preventing blade loss.

(Replacement blades sold separately)

Part No.	Description
PD207	Punch Down Tool (no blade)
PD207-A	Replacement Blade, Use on 66 Type Terminal Block
PD207-B	Replacement Blade, Use on 110/88 Type Terminal Block

Blades are conveniently stored in the handle





### **Double-End Hex Can Wrench**

JDV's CW737 can wrench features a 3/8" black finish and 7/16" silver finish hex end for opening telecommunication cabinets, pedestals, placing fuses in cable terminals, connecting wires to fuses, and for tightening nuts on binding post terminals. The walls on both sockets are thin enough so it can be used to work locking devices on most terminals and cabinets. Handle is made of high quality plastic and has a 7 inch overall length.

### JDV "C" Regulator Wrench

The YC1116 "C" Regulator Wrench is used for cylinder and hose connection nuts on pressure testing regulators and for the hex nuts on gas manifolds and cylinder connectors.

The openings accommodate nut widths of 11/16", 1-1/8", and 1-3/16".



### Wire Cutter / Stripper

JDV's WS208 strips and cuts wire from 10-20 AWG (4-0.5 mm). Designed with PVC handle grips for comfort, a spring return mechanism to open position, and is only 5 inches in length.



# **Wire Strippers** 3000 Series

- · Excellent tool for stripping vinyl insulation
- Perfect and guick stripping of insulation in one operation
- · Provides the Ideal **Cleaning Surface**
- Ergonomically designed plastic grip
- 6 styles according to wire diameter



Part No.	Length (mm)	Weight (g)	Wire Core Diameters/Square	Handle Color
3000A	170	350	0.5/1.2/1.6/2.0mm (solid wire)	Green
3000B	170	350	1.0/1.6/2.0/2.6/3.2mm (solid wire)	Red
3000C	170	350	0.9/1.25/2.0/3.5/5.5mm <sup>2</sup> (for strand wire)	Black
3000D	170	350	0.75mm2 x2 cores/1.25mm2 $x^2$ cores (for flat vinyl wire)	Orange
3000G	170	350	3.8mm/5.6mm/core line (coaxial cable wire 3C2V, 5C2V)	Dk. Blue
3000VA	170	350	1.6mm x2 cores/2.0mm x <sup>2</sup> (VAIV wire)	Blue



### **Replacement Blades**



### 3500E-1

- Lightweight (100g)
- · Diamond polished blade for precision stripping
- AWG-mm-mm2 conversion table on grip
- Locking lever
- · Wire core sizes: 24 AWG 22 AWG
  - 20 AWG 18 AWG
  - 16 AWG 14 AWG
  - 12 AWG



# 3500E-2

- Lightweight (100g)
- · Diamond polished blade for precision stripping
- AWG-mm-mm2 conversion table on grip
- Locking lever
- · Wire core sizes: 30 AWG 28 AWG 26 AWG 24 AWG

22 AWG 20 AWG 18 AWG



(Jov)

# Wire Cut and Strip Tools

### WS100 Series

Part No.	Wire Size		Adjustable Strip-off Length			
Fart NO.	AWG	mm	In.	mm		
WS100-22	WS100-22 22 0.65		1-5/16" to 1-9/16"	33.33 to 39.68		
WS100-224	22-24	0.65-0.50	1-5/16" to 1-9/16"	33.33 to 39.68		
WS100-24	24	0.50	1-5/16" to 1-9/16"	33.33 to 39.68		
WS100-2426	24-26	0.50-0.40	1-5/16" to 1-11/16"	33.33 to 42.86		
WS100-26	26	0.40	1-5/16" to 1-11/16"	33.33 to 42.86		
WS100-28	28	0.32	7/8" to 1-1/8"	22.22 to 28.57		
WS100-30	30	0.25	7/8" to 1-1/8"	22.22 to 28.57		



A compact and simple tool for easy and clean stripping of wires for wire wrapping, as well as electronic and appliance applications. This tool is designed for maximum efficiency. Easy to operate... place wire (up to 4) in stripping slot with ends extending beyond cutter blades... press tool and pull... wire is cut and stripped to proper "wire wrapping" length. The hardened steel cutting blades and sturdy construction of the tool ensure long life. Strip length is easily adjustable for your application.

### WS3907 Series

Wire Size		Adjustable Strip-off Length		
AWG	mm	In.	mm	
22	0.65	1-1/2" to 1-3/4"	38.10 to 44.45	
22-24	0.65-0.50	1-1/2" to 1-3/4"	38.10 to 44.45	
24	0.50	1-1/2" to 1-3/4"	38.10 to 44.45	
24-26	0.50-0.40	1-1/2" to 1-3/4"	38.10 to 44.45	
26	0.40	1-1/2" to 1-3/4"	38.10 to 44.45	
28	0.32	7/8" to 1-1/8"	22.22 to 28.57	
30	0.25	7/8" to 1-1/8"	22.22 to 28.57	
	AWG 22 22-24 24 24-26 26 28	AWGmm220.6522-240.65-0.50240.5024-260.50-0.40260.40280.32	AWG         mm         In.           22         0.65         1-1/2" to 1-3/4"           22-24         0.65-0.50         1-1/2" to 1-3/4"           24         0.50         1-1/2" to 1-3/4"           24-26         0.50-0.40         1-1/2" to 1-3/4"           26         0.40         1-1/2" to 1-3/4"           28         0.32         7/8" to 1-1/8"	



For applications requiring multiple cuts and strips of the same gauge wire, the WS3907 is the most effective tool. Easy to operate... place the wires in stripping slot with ends extending beyond cutter blades... press tool and pull... wire is cut and stripped to proper "wire wrapping" length. The plastic grips and soft rubber sleeve assures maximum handling comfort and slipfree gripping.

# WS4473 Series

Part No.	Wir	e Size	Adjustable Strip-off Length	
	AWG	mm	In.	mm
WS4473	2-24	0.65-0.50	7(0)	22.2
VV34473	24-26	0.50-0.40	7/8"	
	22-24	0.65-0.50	to	to
WS4473C	24-26	0.50-0.40	10	10
VV34473C	28	0.32	2"	55.8
	30	0.25	2	00.0



When combinations of wire gauges and longer strip-off lengths are required, the WS4473 should be selected. Two models are available: the WS4473 is furnished with combination blades for 22-26 AWG wire, and the WS4473C is furnished with combination blades for 22-30 AWG wire. Blades are easily interchangable on the blade post. This tool is furnished with rust-resistant, oiled, black oxide coating and soft sponge-like grips.

# WS200 Series "The Gatling"

Part No.	Wire	e Size	Adjustable Strip-off Length		
	AWG	AWG mm		mm	
WS201	22	0.65	1-1/8"	28.6	
	24	0.50	to	to	
	26	0.40	2"	50.8	
	26	0.40	7/8"	22.2	
WS202	28	0.32	to	to	
	30	0.25	1-7/8"	28.6	



The "Gatling" hits all the targets! This is the latest innovative tool from JDV Products. Two models are available, each with a tripple stripper (3 wire gaps) in one tool. The WS201 will cut and strip 22, 24, and 26 AWG wire with no blade change required. The WS202 will cut and strip 26, 28, and 30 AWG wire with no blade change. Each tool is equipped with an easy to use dial mechanism that will move the blade along the blade post to vary the shiner (strip-off) length.

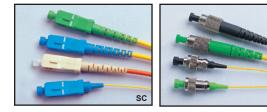
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Replacement blades are available for each model. Please call JDV for details JDV Products, Inc • 22-01 Raphael Street • Fair Lawn, NJ 07410 USA 201-796-1720 • Fax 201-796-9399 • www.jdvproducts.com

# **Fiber Optic Patchcords**

# **OPTICAL FIBER** PATCH CORDS & CONNECTORS

FC



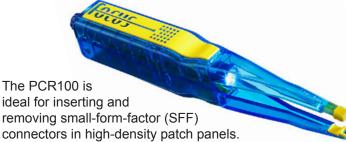
We offer a wide selection of Fiber Optic Patch Cords and Connectors used for applications such as Telecommunication, CATV, Local Networks, as well as Active Device Termination.

Our standard patch cords include SC, FC, ST, and LC type connectors with factory tested 100% optical performance. These items have precision ceramic ferrules with endface and are compliant with JIS C-5973, IEC, and Bellcore.

If needed, JDV can supply special models including E2000, DIN, MU, MT-RJ, and MPO. Customized assemblies are available which include lengths, connector style, and performance.

For specifications or ordering information, please contact JDV.

### Fiber Connector Insertion & Removal Tool



Works with SC, SC2, MU, LC, and MTRJ connectors and different cables, including 2mm, 3mm, 1.6mm, jacketed, and 900um buffered cables.

This ergonomically designed tool is equipped with a spring-loaded handle, non-conducting material, and can be used inside or outside environments with an operating temperature of  $-40^{\circ}$ C to  $+95^{\circ}$ C.

Specifications:					
Tool Weight *	5.9 oz/ 167 grams				
Tool Length	8.436 in / 214.2 mm				
Tool Width 1.170 in / 28.7 mm					
Tip Width	0.309 in / 7.8 mm				
* Weight includes i	nstalled flashlight				

The second secon



Characteristics	Conditions	Values
Insertion Loss	Against Reference Connector	<0.1dB, <0.2dB
Return Loss	UPC	>55dB
Durability	APC	>65dB
Temperature Cycling	5000 Times	<0.2dB
Humidity Cycling	-40~+80°C (21 Cycles), 168hr	<0.2dB
Vibration	-10~+65°C, 95%RH, 168hr	<0.2dB
Flex Test	20G, 20~2000Hz, 4min/Cy, axis, 6 axis	<0.2dB
Twist Test	0° ->90° ->0° -> 90°, 5Kgf (100 cycles)	<0.2dB
Straight Pull Test	100N Load, 5 sec at least	<0.2dB
Impact	5 Times/Direction, 6 Direction, 500G, 1ms	<0.2dB

Equipped with a removable flashlight for illuminating ports and connectors in low-light environments.

Replaceable flashlight Part No. PCRL100

Long, narrow jaws reach back

of patch panel enclosures

damage to connector and

Universal tips are made of special material in order to provide firm grasp on small form-factor connectors.

cable.

with ease. Jaws are spring-

loaded and will not lock onto the connector; which prevents







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**J**DV

# How to Clean Fiber Optic Connections using the Combination Cleaning Method



- 1. Spray a minimal amount of Electro-Wash on wipe
- 2. Press fiber optic surface to wipe, and pull across the surface
- 3. Check your work with a fiber scope or other equipment
- 4. Each section of wipe can be used a multiple of times without using the same surface twice.

48042F

# <image>



### Specifications:

 A complete Fiber Optic Cleaning System with no costly refills or investments in expensive mechanisms to maintain

**Fiber Optic Cleaning** 

- The combination cleaning method by choice! Delivers effective "wet" and "dry" connector cleaning
- Provides the Ideal Cleaning Surface
- Portable cleaning system easily fits in tool cases or stores on work benches
- A Heavy-Duty Lint-Free Wiping Material tough enough to remove buffer-gel, yet soft enough for all end-face cleaning
- · Won't shred or tear

### Applications:

- End-face connector cleaning
- · Splice preparation
- Buffer gel removal





Precision cleaning swabs specifically designed to clean micro-contamination encountered in fiber optic telecommunications. From removing end-face contamination on a fiber optic connector, to cleaning contamination from your fusion splicer, these ultra-clean swabs will make clear, clean and safe connections, fast and easy. These swabs keep contamination out of your processes, and perform consistently.



ES1210

DV

Part No.	Description
QbE	Wipes for Open End Faces, 200 per box
QbE-R	Wipes for Recessed Faces, 200 per box
25125F	1.25mm Open End Face Cleaning Swab, 15 per tube
48042F	2.5mm Fiber Optic Foam Swab, 50 Swabs per tube
38542F	V-Groove & Ceramic Ferrule Cleaning Swab, 50 per tube
51125F	Fusion Splice Mirror Cleaning Swab, 15 per tube
ES1210	Electro Wash, 5 oz can
0 1 1	

Complete Cleaning Kits also available. Please call JDV for details.



### **Single Action Cleavers**

These units are small and compact and are perfect for making high precision preparation of single and ribbon fiber cables.

Most conventional fiber cleavers in the marketplaces are manual type cleavers, which require multiple steps in order to cleave the fibers, until now. The JDV *SMART Cleavers* (models SC-03 & SC-02) only require **ONE single action** to cleave the fibers after loading.

Our model SC-03B is a single fiber cleaver, and model SC-03M is a ribbon fiber cleaver for up to 12-ribbon fiber counts. Both models include a waste fiber collector for safe disposal of scrap fibers as well as a built-in maintenance tool attachment.

### **Multi Action Cleavers**

Manual (multi-action) cleavers available and are fully applicable for high preparation for single fibers and 12-ribbon fiber counts. Model SC-01B equipped with fiber collector and SC-01A is normal version without fiber collector. Equipped with compact design, scratch-free anodized body surface, and a built-in maintenance tool attachment.

Part No.	Description
SC-03B	Single-Action Cleaver for Single Fiber, w/Fiber Collector
SC-03M	Single-Action Cleaver for Ribbon Fiber, w/Fiber Collector
SC-02	Single-Action Cleaver for Single and Ribbon Fiber, No Fiber Collector
SC-01A	Multi-Action Cleaver for Single and Ribbon Fiber, No Fiber Collector
SC-01B	Multi-Action Cleaver for Single and Ribbon Fiber, w/Fiber Collector
	Accessories
SCB-05	Replacement Cleave Blade (SC-01 & SC-02)
SCG-01	Gauge for SC-01 & SC-02 Series Cleavers

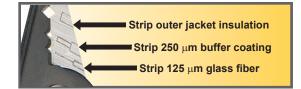


TECHNICAL PARAMETERS & SPECIFICATIONS							
	Cleaver Series						
JDV	SC-03 SC-02 SC-01						
Fiber Diameter	125 um	125 um	125 um				
Coating Diameter	250~900 um	250~900 um	250~900 um				
Cleave Angle	90° +/- 0.5°	0.5°	90° +/- 0.5°				
Cleave Length	B: 5~20mm, M: 10mm	B: 5~20mm, M: 10mm	A/B: 5~20mm, M: 10mm				
Blade Lifetime	48,000 Fibers	48,000 Fibers	48,000 Fibers				
Outfit Dimension	88 x 55 x 48 (mm)	84 x 65 x 54 (mm)	58 x 55 x 48 (mm)				
Weight	360 (g)	470 (g)	360 (g)				

# **Fiber Optic Strippers & Cutting Shears**

### **Shears for Fiber Optics**

Three tools in one! The FS216 strips 125 micron glass fibers with 250 micron buffer coating without scratching or nicking the glass fiber. Equipped with a lock, stopper, spring- loaded handle, and is 5.9" (150mm) in length.







A Hi-Leverage Kevlar snip with 6 1/2" of ergonomic cutting action! Featuring an automatic return spring, special design blades, cushion grip handles, and a top blade with precision serrated cutting edges. This is the ideal snip for trimming back the Dupont Kevlar<sup>®</sup> that serves as the shield in optical fiber.

SF100CDS

Kevlar is a registered trademark of Dupont

The most widely used tool in the communication market. The SF100CDS has a chrome over nickel plating and wire stripping notches for 19 and 23 AWG wire. The bottom blade has deep serrations the full length of the cutting edge. A file and scraper are featured on the back of the blades, making this tool also excellent for cleaning wire.

**Shears for Copper Cable** 



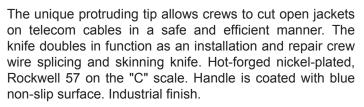
### Stainless Cable Splicer Snip

**Tired of rusty tools?** Do your hands get irritated from plating issues? This hot-forged ice-tempered stainless Electrician Snip resolves both these issues. The SC152S is made from 420 Stainless steel with a Rockwell of 57 for long-lasting cutting edges.

Perfect for Telecom! This Free-Running style snip is ergonomically designed for a cleaner, quicker, and effortless cut; minimizing fatigue and strain on the wrist. The large ring has a soft blue coated handle that nests in the palm of your hand and stripping notches for 19 & 23 AWG wire. One blade is fully serrated for Sure-Grip cutting action. High-carbon steel, nickel plated.

SC100J





J<sub>DV</sub> JD

# **Cable Preparation Tools**

**Cable Stripper** 



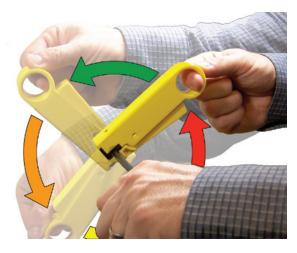


JDV's CSDT-6590 drop stripping tool ensures quality connections and satisfied customers every time. Lightweight and yet rugged enough for the toughest jobs, these tools are virtually indestructible.

Works on 6-, 59-, 7-, and 11- series cables with both standard and quad shields and is equipped with high quality tool-steel blades for long life, clean-out feature for removing debris with each use, and replacement cartridges that snap into place.

With ease, the CSDT-6590 removes the right amount of cable jacket, cut the braid and dielectric to the proper length and expose the center conductor. Quality steel blades ensure 2500~5000\* preparations with each cartridge.

(\* Number of preparations depends on braid coverage.)



### **Cable Stripper**

The CSTS3 and CSTS5 coax cable strippers are perfect economy tools for stripping 3C-2V and 5C-2V/5C-FB applications.

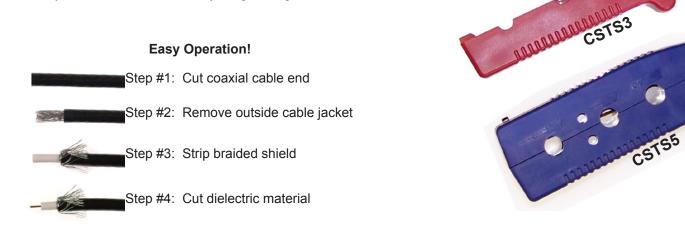
**PECIAL** 

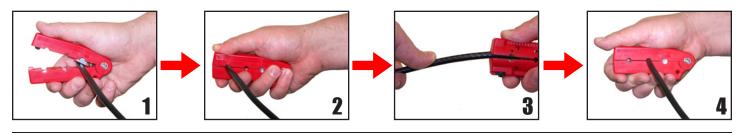
ATURE

Removes Debris with

Every use

Features include a compact and lightweight body, high quality cutting blades, spring loaded, locking mechanism for safety when not in use, and only weighs 50 grams.





# **Cable Preparation Tools**

### **Cable Stripper**

The CSMK02 is designed for stripping outer jackets and PE, PVC, or rubber insulations on cables from 3/16" to 1-1/8" (4.5mm to 28.5mm) O.D. with an insulation depth of up to 1/8" (3mm) maximum. It's wide stripping range is applicable with most cables.

- · Circumferential and longitudinal stripping action
- Adjustable cutting depth up to 1/8" (3mm)
- Durable construction for rugged applications
- Lightweight and compact



Dimensions: Length: 5.26 in (135mm) Height: 1.56 in (40mm) Width: 0.585 in (15mm) Weight: 4.2 ounces (120g)

Replacement blades sold seperately: Spherical Cutting Blade: Part No. RBMK02S Chisel Point Blade: Part No. RBMK02C



### **Compression Tool**



### Reliability. Durability. Versatility.

The JDV-UNV-659 is a high quality termination tool for use with compression–type connectors. Each tool is ergonomically designed and features a spring-loaded connector support that guarantees proper positioning and provides a consistent termination time after time.

With its lightweight and compact design, the JDV-UNV-659 can easily fit into your pocket.

- Unique jaw design enables cable to be inserted or removed with one hand.
- Factory-calibrated activators and gauges ensure accuracy.
- Spring-loaded 360° support guarantees proper positioning and consistent, reliable terminations.
- Small enough to fit into your pocket with ease.

### **F CONNECTOR TOOL**

JDV's FC100 installs and removes F connectors in tight spaces

- Unscrews tight connections and removes F connectors in high density and hard to reach locations
- Provides 30 in/lb tightening and untightening torque using only your fingers
- Prevents signal leakage and service calls from loose connections
- · Equipped with plastic body and steel hex





# Cable Storage Equipment Cable Reel with Unique A-Frame

### LIGHTWEIGHT. DURABLE. WEATHER-RESISTANT.

JDV's new CR1000 is a reusable plastic cable reel with the same footprint as a standard 18- inch plywood reel that holds buried service wire. The CR1000 is a complete set, which consists of a hub, two twist-on flanges and a strong durable handle, and a high-quality A-frame stand.

Capacity indicators are imprinted on the flanges for estimating the amount of wire on the reel at all times. Since the reel is used with many different lengths and kinds of wire, the indicators are printed as percentages.

Both flanges can be adjusted out for a larger hub dimension in order to accommodate bigger wire rolls.

The CR1000 comes with an unique durable A-frame (p/n U2000) that can simply be converted into a handle within seconds. With this exceptional design, you can roll the wire reel around anywhere you go! Frame same device twistthe device the devi

Part No.	Description	Weight (lbs)
CR1000	Cable reel with stand (complete)	20.0
U1000	Reel assembly	9.5
U2000	"A" frame assembly	10.5

- Lightweight
- Stackable
- Reusable
- Cost-effective
- Improve safety
- User-freindly



Wire not included.

# ReelSaver

### COST-EFFECTIVE

The CR2000 is your economical solution! No more disposal fees and packaging waste. Minimize loss due to inaccurate measurement of remaining wire quantity. Save on storage and transportation cost by using a standard coiled wire, which maximizes cube efficiency.

### **IMPROVE SAFETY**

Eliminates twisted wires for on-site working technicians. The CR2000 is made of durable plastic, is compact, and lightweight.

### **USER-FRIENDLY**

Easy to operate, reload, and install a new wire coil in less than a minute.

### Capacity

Wire Type		Length*	Weight*
Arial drop wire 2 pa	ir	500ft. (150m)	19.4lb (8.80kg)
Station wire (JKT)		1000ft to 1600ft (300m to 500m)	15.7lb (7.15kg)
Inside wire 3 pair	All types	1000ft (300m)	15.4lb (7.00kg)
Inside wire 4 pair plenum		1000ft (300m)	15.8lb (7.20kg)
*			

\* Length and Weight as approximate, and may vary depending on wire used.

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# VESSEL

# **Heavy-Duty Utility Knives**

These high quality utility knives are designed to take the abuse that would destroy ordinary knives. Any Electrician, Telephone Technician, or person doing general cable prep work should have one. Perfect for cutting and stripping wire or cable, opening utility outlets in plywood and sheetrock, or any general cutting application. Threre are three different models available, and each one comes with a locking sheath and a ceramic sharpening stone.









### VDK-1

Equipped with a special high-grade steel blade, the VDK-1 is the perfect item to add to your toolbox. This knife is ideal for electrical, service work, or for any general cutting application.





### VDK-3

The unique DAMASCUS blade of the VDK-3 is made from a 33 layer sandwich construction of soft steel and carbon steel. This blade is easy to sharpen and guarantees excellent cutting performance.

### VDK-5

The VDK-5, with it's high-grade steel blade and glow-in-the-dark handle, greatly aid Electricians since most electrical work is performed in dark locations. The fluorescent handle requires only 2-3 minutes of exposure to sunlight or lamplight to "charge". Now any user will know exactly where the knife is at all times, helping to prevent accidents from occurring.



# **Ceramic Adjustment Tools**



- · Made from high quality Zirconia ceramic
- · Ideal for adjustment of electronic parts, wireless equipment, TV, VCR, video cameras, radio equipment, computers, or communications equipment
- VESSEL 9001 PAT.P. VESSEL 9000 ELECTRONICS
- · Anti-static, non-magnetic, and acid resistant

### 9000 Series

Single tip screwdriver with free-turning knob

CERMING BLADE PAT, PRODUCT OF JAMAN VESSEE 2.6-30							
Part No.	EDP No.		-+  +	Ţ		_ <b>↓</b>	
				m	m		
9000 0.9*30	125650	0.9	0.4	30	1.8	10	125
9000 1.3*30	125651	1.3	0.4	30	1.8	10	125
9000 1.8*30	125652	1.8	0.4	30	1.8	10	125
9000 2.6*30	125653	2.6	0.4	30	2.6	10	125
9000 3.4*15	125654	3.4	0.5	15	3.4	10	115
9000 P0*30	125655	+ N	o. 0	30	2.6	10	125
9000 P1.7*30	125656	+ No	o. 1.7	30	2.6	10	125

### 9001 Series

· Handle with four interchangable ceramic tips

		_			_
Part EDP No. No.		Handle Dia.			Details
NO.	NO.	mm	mm	Blades	Length
9001	125661	11	145	(-)0.9 / (+)0 (-)1.8 / (+)2	71

### 9002 & 9003 Series

· Handle with two interchangable ceramic tips

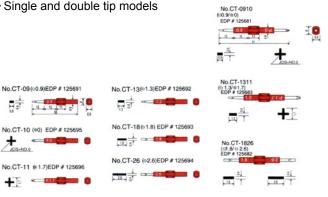
Part No.	EDP No.	Handle Dia.	O.A.L. (w/blade)	Handle Details			
NO.	NO.	mm	mm	Blades	Length		
9002	125665	11	145	(-)0.9 & (-)1.8	71		
9003	125666	11	145	(-)1.3 & (+)2.6	71		

### **Ceramic Adapters**



SSE

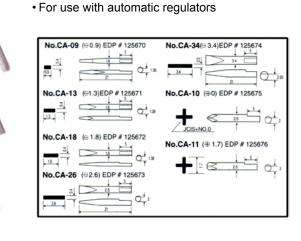
- Replacement tips for: 9001, 9002, and 9003 Series
- · Can be used with automatic regulators
- · Single and double tip models

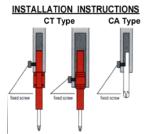


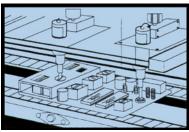
### **Ceramic Blades**

13

+1







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**J**DV

# VESSEL

### 9900 Series Micro Screwdrivers

- Handle is fitted with revolving cap for fast turning
- Fully hardened chrome vanadium steel

_	Divi Hargesch Ran Produkt of Juria				VES	SEL 9900 800-75	
Part No.	EDP No.						
		mm					
9900 1.8*50	125621	1.8	0.25	50	2.5	10	145
9900 2.5*75	125622	2.5	0.35	75	2.5	10	170
9900 3*100	125623	3	0.45	100	3	10	195
9900 3*150	125624	3	0.45	150	3	10	245
9900 P00*75	125625	+ No	5. 00	75	2.5	10	170
9900 P0*100	125626	+ N	o. 0	100	3	10	195
9900 P0*150	125627	+ N	o. 0	150	3	10	245





The NEW Model 81L is great for electricity testing of lighting, wiring, repair work on TV and radio, and oscillation test of wireless equipment. The bright, easy to view LED will illuminate when voltage is detected.

VESSEL ACTO

Part No.	EDP No.	Range of Voltage Detection
81L	125104	A.C.100V~240V
	125104	D.C.100V~350V

### **205 Series Precision Screwdrivers**



Part No.	EDP No.	Shank Length	Blade Width	Handle Diam.	0.A.L.
NO.	NO.		m	m	
205 3.5	134002	33	3.5	8.0	126
205 3.0	134003	29	3.0	7.0	114
205 2.3	134004	26	2.3	6.0	104
205 1.8	134005	23	1.8	5.0	94
205 1.2	134006	20	1.2	4.5	85
205 0.9	134007	16	0.9	3.5	78
205 P0	134012	33	+ 0	8.0	126
205 P00	134013	29	+ 00	7.0	114

# **Precision Screwdrivers**

### 9900 Series Micro Screwdriver Sets

- For adjustment and repair of precision equipment, electronics, glasses, watches, etc.
- · Set of frequently used sizes



Part No.	EDP No.	Set Includes (mm)
9902	125610	+00x75 / +0x100 / -1.8x50
9903	126611	+00x75 / -2.5x75 / -3x100

### **TD36 Microturn Screwdriver Set**

- Ideal for screw tightening in precision fields
- Designed for both turning and tightening
- High strength precision tip



Part No.	EDP No.	Set Includes (mm)
TD-36	250036	-1.4 / -1.8 / -2.3 / +00 / +0 / +1

### **205 Series Precision Screwdriver Sets**

- · Ideal for fastening and unfastening miniature screws.
- Metal handle can be freely turned from the butt end, therefore finger pressure is sufficient for maintaining the position while turning
- For repair and assembly of watches, cassettes, radios, glasses, precision equipment, plastic models, and much more.



Part No.	EDP No.	Set Includes (mm)
<b>206</b> 134001		-0.9 / 1.2 / 1.8 / 2.3 / 3.0 / 3.5
207	134011	-0.9 / 1.21 / 1.8 / 2.3 / +00 / +0



# **Megadora Screwdrivers**

The MEGADORA models are equipped with the most advanced triple-molded handle for comfort. The corners of the hexagonal crosssection are molded with elastomer for a soft fit and high torque transmission.

### 900 Standard & 920 Stubby Series



Handle is fitted with revolving cap for fast turningFully hardened chrome vanadium steel

Part No.	EDP #						
900 5.5*75	125701	5.5	0.8	75	<b>1m</b> 5.5	34	185
				-		-	
900 6*100	125702	6.0	0.9	100	6.4	34	210
900 6*150	125755	6.0	0.9	150	6.4	34	260
900 8*150	125704	8.0	1.1	150	8.0	36	275
900 P00*75	125741	+ No	o. 00	75	3.0	21	153
900 P0*75	125742	+ N	o. 0	75	3.0	21	153
900P1*75	125705	+ N	o. 1	75	5.5	34	185
900 P2*100	125706	+ N	o. 2	100	6.4	34	210
900 P3*150	125708	+ N	o. 3	150	8.0	36	275
920 6*25	125752	6.4	0.9	25	6.4	36	75
920 P1*25	125753	+ No. 1		25	6.4	36	75
920 P2*25	125754	+ N	o. 2	25	6.4	36	75

### 970 Series Chisel Screwdrivers



- Made of high grade chisel steel of HRC58 hardness
- Tang-Thru shank with large end cap
- Sound cutting and wear resistance
- Great for concrete bricks, ceramic tiles, deburring, corosion scraping, frozen bolts and nuts, and spot welding stripping

Part No.	EDP #	Ť	→  +		- <b> </b>	_ <b>↓</b>	
				m	nm		
970 7*100	125722	5.5	0.8	75	5.5	34	185
970 9.5*120	125732	6.0	0.9	100	6.4	34	210

### 970 Series Clip Removers





ESSE

VESSE

- Dual size blade covers standard 7mm and 12mm clip sizes
- Suited for many clips used in automobiles
- Fully hardened vanadium steel
- Chrome plated fork to enable damage-free sliding
- Optimally angled for working in cramped places (i.e, door trim, wire anchors, clips, etc.)
- Long type for reaching clips deep inside car interiors

Part No.	EDP #	AB		+-		
		A,B		m	m	
970 CR-300	125731	12/7	300	7.0	34	352
970 CR-120	125721	12/7	120	7.0	34	230

### 970 Series Scrapers





- Ideal for removing cross/P tile, paint, stickers, and other scraping needs
- Made of high strength die-cast metal
- Easy lever-operated blade replacement
- he
- · Plated finish is resistant to paint and adhesives

B		ŤD
(m	m)	
В	С	D
85	-	34
185	15	36
185	15	36
	(m B 85 185	85         -           185         15           185         15

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# **Power-Grip Screwdrivers**



The "Power-Grip" series are high precision tools ergonomically designed to the shape of the palm of your hand. Various grip sizes available according to tightening torque.

### 5400 Series Ultra Ball Hex Screwdrivers



ESSEL

Tapered to 35°, the ball tip is always at the center of rotation, ensuring smooth turning.



Part No.	EDP #			-++ •	_ <b>↓</b>			
		mm						
5400 H1.5*80	122847	1.5	80	2.5	155	17		
5400 H2*80	122848	2.0	80	3.0	155	17		
5400H2.5*80	122849	2.5	80	3.0	155	17		
5400 H3*120	122850	3.0	120	3.5	217	28		
5400 H4*120	122851	4.0	120	5.0	224	31.8		
5400 H5*120	122852	5.0	120	6.0	235	35.6		
5400 H6*120	122853	6.0	120	7.0	235	35.6		

### 5400TX Series Torx Screwdrivers



Excellent torque transmission
 Outstanding durability
 No CAM-OUT
 Minimal damage to screws and tools

Part No. EDP #		Tip Size				_ <b>↓</b>	
					mm		
5400TX 5*80	122854	T5	1.37	80	2.5	155	17.0
5400TX 6*80	122855	T6	1.65	80	2.5	155	17.0
5400TX 7H*80	122856	T7H	1.97	80	2.5	155	17.0
5400TX 8H*80	122857	T8H	2.3	80	3.0	155	17.0
5400TX 9H*80	122858	T9H	2.48	80	3.0	155	17.0
5400TX 10H*80	122859	T10H	2.72	80	3.0	155	17.0
5400TX 15H*80	122860	T15H	3.26	80	3.5	177	28.0
5400TX 20H*120	122861	T20H	3.84	120	4.0	217	28.0
5400TX 25H*120	122862	T25H	4.4	120	5.0	224	31.8
5400TX 27H*120	122863	T27H	4.96	120	5.0	224	31.8
5400TX 30H*120	122864	T30H	5.49	120	6.0	235	35.6
5400TX 40H*120	122865	T40H	6.6	120	7.0	235	35.6

### 4100 Series Nut Drivers

-



• Ideal for fastening and unfastening hexagon bolts and nuts

Part No.	EDP #	ĨO	0	Ţ.		-+		
					mn	n		
4100 5*115	123501	5.0	8	18	115	5.0	28.0	212
4100 5.5*115	123502	5.5	9	18	115	5.0	28.0	212
4100 6*115	123503	6.0	9	18	115	5.5	28.0	212
4100 7*125	123504	7.0	10	20	125	5.5	28.0	222
4100 8*125	123505	8.0	12	20	125	5.5	31.8	229
4100 9*125	123506	9.0	12	20	125	6.3	31.8	229
4100 10*125	123507	10.0	15	20	125	7.0	35.6	240
4100 11*125	123508	11.0	15	20	125	7.0	35.6	240
4100 12*150	123509	12.0	17	20	150	8.0	35.6	265
4100 13*150	123510	13.0	19	20	150	8.0	35.6	265

### 4200 Series SUPADRIV Screwdrivers



The basic shape is a cross recess of 4 equally thick blades. The drive faces that the screwdriver contacts inside the recess are almost perpendicular, raising drive efficiency, minimizes slipping, and further enhancing the torque transfer and anti-CAM-OUT properties of the POZIDRIV.

Part No.	EDP #				-	
			n	nm		
4200 SDV1*75	636001	SDV No. 1	75	5	28	172
4200 SDV2*100	636002	SDV No. 2	100	6	31	204
4200 SDV3*150	636003	SDV No. 3	150	8	35	265

### 4600 Series POZIDRIV Screwdrivers



The basic shape is a cross recess of 4 equally thick blades. This prevents annoying CAM-OUT and transmits strong torque to the screws.

Part No.	EDP #	+ + +		- <del> -</del>			
		mm					
4600 PZ1*75	636011	PZD No. 1	75	5	28	172	
4600 PZ2*100	636012	PZD No. 2	100	6	31	204	
4600 PZ3*150	636013	PZD No. 3	150	8	35	265	

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# **Ball Grip Screwdrivers**

4 907587 075758

Ergonomically designed "Ball-Grip" handles fit comfortably in the palm of your hand while ensuring the operator maximum troque while tightening.

### 220 Series - Standard Type



•Transmits ample tightening force to screw •Cushion grip colorcoded by+/- •Fully hardened chrome vanadium steel •High precision black point tip •Magnetized

Part No.	EDP No.						
				m	m		
220 5.5*75	125351	5.5	0.8	75	5.5	32	156.5
220 5.5*100	125361	5.5	0.8	100	5.5	32	181.5
220 5.5*150	125362	5.5	0.8	150	5.5	32	231.5
220 6*100	125352	6.0	0.9	100	6.4	41	200
220 6*150	125353	6.0	0.9	150	6.4	41	250
220 6*200	125354	6.0	0.9	200	6.4	41	300
220 P1*75	125355	+ N	lo.1	75	5.5	32	156.5
220 P1*100	125371	+ N	lo.1	100	5.5	32	181.5
220 P1*150	125372	+ N	lo.1	150	5.5	32	231.5
220 P2*100	125356	+ N	lo.2	100	6.4	41	200
220 P2*150	125357	+ N	lo.2	150	6.4	41	250
220 P2*200	125358	+ N	lo.2	200	6.4	41	300

### 220JF Series - JAWSFIT Type



Part No.	EDP No.				
			m	m	
220JF P2*100	125514	+ No.2	100	41	200
220JF P2*150	125515	+ No.2	150	41	250

### 225 Series - Insulated Type

SSEL

220 P.2-100



SSE

D

•Shank is covered with resin for excellent safety •Solid built body offers extra fastening power •Cushion grip color-coded by +/-•Fully hardened chrome vanadium steel •Magnetized

Part No.	EDP No.	Ť				
				mm		
225 6*100	125382	6.0	0.9	100	41	200
225 6*150	125383	6.0	0.9	150	41	250
225 P2*100	125389	+ No.2		100	41	200
225 P2*150	125390	+ No.2		150	41	250

### 230 Series - Tang-Thru Type



- Tang-Thru shank with star end cap
- Fully hardened Chrome Vanadium steel shank
- Different color for (+) and (-)
- Cushion grips
- Magnetic tips

Part No.	EDP No.						
				m	m		
230 5.5*75	125311	5.5	0.8	75	5.5	32	156.5
230 6*100	125314	5.5	0.8	100	6.4	41	200
230 6*150	125315	5.5	0.8	150	6.4	41	250
230 P1*75	125321	+ N	lo.1	75	5.5	32	156.5
230 P2*100	125324	+ N	lo.2	100	6.4	41	200
230 P2*150	125325	+ N	lo.2	150	6.4	41	250

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# VESSEL

The "CRYSTALINE" models are designed with a bright quartz hexagonal cross-sectioned handle, which accurately transmits torque to the screw.



### 6200 Stubby & 6300 Standard Series



• Fully hardened chrome vanadium steel • Magnetized

Part No.	EDP #					-	
				m	m		
6300 4.5*50	121201	4.5	0.6	50	5.0	22.0	138
6300 5.5*75	121202	5.5	0.7	75	5.5	22.0	163
6300 6*100	121203	6.0	0.8	100	6.0	25.0	198
6300 7*125	121204	7.0	0.9	125	7.0	28.5	238
6300 8*150	121205	8.0	1.0	150	8.0	28.5	263
6300 9*200	121206	9.0	1.1	200	9.0	30.0	320
6300 10*250	121207	10	1.2	250	9.0	30.0	370
6300 10*300	121208	10	1.2	300	9.0	30.0	420
6300 P1*75	121209	+ N	lo.1	75	5.0	22.0	163
6300 P2*100	121210	+ N	lo.2	100	6.0	25.0	198
6300 P3*150	121211	+ N	lo.3	150	8.0	28.5	263
6300 P4*200	121212	+ N	lo.4	200	9.0	30.0	320
6200 6*38	121101	6.0	0.8	38	6.0	28.5	86
6200 P1*38	121102	+ N	o. 1	38	6.0	28.5	86
6200 P2*38	121103	+ N	o. 2	38	6.0	28.5	86

### 6300 Long Shank Series

						VESSEE 6300	- A.S.		
-									
	VISSEL WISSEL								
Long shaft ha	rd to reach	places	• Ma	gnetize	ed				
Part No.	EDP #				-+	-			
			mm						
6300 5*150	121213	5.0	0.7	150	4.8	25	248		
6300 5*200	121214	5.0	0.7	200	4.8	25	298		
6300 5*250	121215	5.0	0.7	250	4.8	25	348		
6300 P1*150	121216	+ N	lo.1	150	4.8	25	248		
6300 P1*200	121217	+ N	lo.1	200	4.8	25	298		
6300 P1*250	121218	+ No.1		250	4.8	25	348		
6300 P2*150	121219	+ No.2		150	6.0	25	248		
6300 P2*200	121220	+ No.2		200	6.0	25	298		
6300 P2*250	121221	+ N	lo.2	250	6.0	25	348		

# **Crystaline Screwdrivers & Hex Wrenches**

8506HX & 8509HX Hex Key Wrench Sets





Part No.	EDP #	Sizes Included (mm)
8506HX	144290	1.5 / 2 / 2.5 / 3 / 4 / 5
8509HX	144291	1.5 / 2 / 2.5 / 3 / 4 / 5 / 6 / 8 / 10

### 8606HX & 8609HX Hex Key Wrench Sets



Part No.	EDP #	Sizes Included (mm)
8606HX	144270	1.5 / 2 / 2.5 / 3 / 4 / 5
8609HX	144271	1.5 / 2 / 2.5 / 3 / 4 / 5 / 6 / 8 / 10

### 8506BP & 8509BP Ultra Ball Wrench Sets





Part No.	EDP #	Sizes Included (mm)
8506BP	144130	1.5 / 2 / 2.5 / 3 / 4 / 5
8509BP	144131	1.5/2/2.5/3/4/5/6/8/10

### 8606BP & 8609BP Ultra Ball Wrench Sets



Part No.	EDP #	Sizes Included (mm)
8606BP	144040	1.5 / 2 / 2.5 / 3 / 4 / 5
8609BP	144041	1.5 / 2 / 2.5 / 3 / 4 / 5 / 6 / 8 / 10

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# **1000V Insulated Hand Tools**

All our hand tools are rated for 1,000V AC live line use, but tested up to 10,000V AC. These tools comply or exceed ASTM F1505 standards and they comply with IEC 900 Standards for Insulated Hand Tools. They meet OSHA 1910.333(c) (2) and NFPA 70E 2000 requirements. All the hand tools are impact resistant and flame retardant. Our tools are two color insulated for added safety. If the yellow underlayer is showing, the tool may no longer be insulated properly.

We also maintain the ability to modify any tool not in this catalog to your specific requirements.

JDV realizes that in every industry there are sets of tools unique to many jobs. Why buy sets that have unneeded tools? JDV will customize your set to meet your specific requirements, and package these sets in customized rolls or boxes!!!

# We can make custom sets according to your specifications



### 3/8" Drive Socket Standard (12 Point)

Part No.	Size
X2045208	1/4"
X2045210	5/16"
X2045212	3/8"
X2045214	7/16"
X2045216	1/2"
X2045218	9/16"
X2045120	5/8"
X2045122	11/16"
X2045124	3/4"
X2045126	13/16"
X2045128	7/8"
X2045130	15/16"
X2045132	1"

### 3/8" Drive Socket Deep (12 Point)

Part No.	Size
X2042408	1/4
X2042410	5/16
X2042412	3/8
X2042414	7/16
X2042416	1/2
X2042418	9/16
X2042420	5/8
X2042422	11/16
X2042424	3/4
X2042426	13/16
X2042428	7/8
X2042430	15/16
X2042432	1



1/2" Drive Socket Standard (12 Point)

Part No.	Size
X2040212	3/8"
X2040214	7/16"
X2040216	1/2"
X2040218	9/16"
X2040120	5/8"
X2040122	11/16"
X2040124	3/4"
X2040126	13/16"
X2040128	7/8"
X2040130	15/16"
X2040132	1"
X2040134	1-1/16"
X2040136	1-1/8"

### 1/2" Drive Socket Deep (12 Point)

Part No.	Size
X2040812	3/8
X2040814	7/16
X2040816	1/2
X2040818	9/16
X2040820	5/8
X2040822	11/16
X2040824	3/4
X2040826	13/16
X2040828	7/8
X2040830	15/16
X2040832	1
X2040834	1-1/16
X2040836	1-1/8

# **1000V Sockets**



### 3/8" Drive Hex Bit Sockets

Part No.	Size
X2041201	1/16"
X2041202	5/64"
X2041203	3/32"
X2041204	7/64"
X2041205	1/8"
X2041206	9/64"
X2041207	5/32"
X2041208	3/16"
X2041209	7/32"
X2041210	1/4"
X2041211	5/16"
X2041212	3/8"

Metric sizes offered in 2-12mm

### 1/2" Drive Hex Bit Sockets

Part No.	Size
X2041213	5/16"
X2041214	3/8"
X2041215	7/16"
X2041216	1/2"
X2041218	9/16"
X2041220	5/8"
X2041266	1/2" Long
X2041268	9/16" Long
X2041270	5/8" Long

Metric sizes offered in 12-17mm

Hex Bit Sockets also available in 1/4" drive.

Also available in 1/4" & 3/4" Drives. Metric sizes offered in 4-36mm For 6 point sockets add"-6" after part number

### LOOK FOR SETS ON PAGES 38-39

# **1000V Ratchets & Extensions**



Detail of Flare Nose style extensions for use with non-booted sockets

### **Extensions**

OAL	Drive		
1.5"	3/8"		
3"	3/8"		
6"	3/8"		
9"	3/8"		
12"	3/8"		
18"	3/8"		
24"	3/8"		
35"	3/8"		
<b>X2040160</b> 2" 1/2"			
5"	1/2"		
10"	1/2"		
20"	1/2"		
	3" 6" 9" 12" 18" 24" 35" 2" 5" 5" 10"		

Also available in 1/4" and 3/4" drives

Hex Wrench - "L" Long Handle		
	Part No.	Size
	X262223	1/16"
	X262224	5/64"
	X262225	3/32"
	X262226	7/64"
	X262227	1/8"
	X262228	9/64"
	X262229	5/32"
	X262231	3/16"
	X262233	7/32"
	X262235	1/4"
	X262239	5/16"
	X262243	3/8"
	X262247	7/16"
	X262251	1/2"

Available up to 1-1/8" Metric sizes offered in 2-12mm



**Fiberglass Extentions** 

OAL

6"

12"

6"

12"

Fiberglass extensions tested at 80ft/lbs.

Drive

3/8"

3/8"

1/2"

1/2"

Part No.

X2045161FB

X2045162FB

X2040164FB

X2040165FB

DO NOT EXCEED 60ft/lbs.



### **Ratchets**

Part No.	OAL	Drive
X2040970	4.5"	1/4"
X2045170	7.6"	3/8"
X2045179 LONG	10.3"	3/8"
X2042470	10.3"	1/2"
Also available in 3/4" drive		

# **1000V Hex Wrenches**

### Hex Wrench - "T" Long Handle (6" Long)

Part No.	Size
X2631605	5/64"
X2631606	3/32"
X2631607	7/64"
X2631608	1/8"
X2631609	9/64"
X2631610	5/32"
X2631612	3/16"
X2631614	7/32"
X2631616	1/4"
X2631620	5/16"
X2631624	3/8"
X2651628	7/16"
X2651632	1/2"
X2651634	9/16"

Available up to 1-1/8" Metric sizes offered in 0.7-36mm

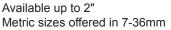


# **1000V Wrenches**



### **Open Ended**

Part No.	Size
X2488408	1/4"
X2488410	5/16"
X2488412	3/8"
X2488414	7/16"
X2488416	1/2"
X2488418	9/16"
X2488420	5/8"
X2488422	11/16""
X2488424	3/4"
X24C26	13/16"
X24C28	7/8"
X24C30	15/16"
X24C32	1"
X24C34	1-1/16"
X24C36	1-1/8"
X24C40	1-1/4"





### **Box/Closed Ended**

Part No.	Size
X2488408-B	1/4"
X2488410-B	5/16"
X2488412-B	3/8"
X2488414-B	7/16"
X2488416-B	1/2"
X2488418-B	9/16"
X2488420-B	5/8"
X2488422-B	11/16"
X2488424-B	3/4"
X24C26-B	13/16"
X24C28-B	7/8"
X24C30-B	15/16"
X24C32-B	1"
X24C34-B	1-1/16"
X24C36-B	1-1/8"
X24C40-B	1-1/4"

Available up to 2" Metric sizes offered in 7-36mm

### **Ratcheting Box Wrenches**

Part No.	Size		
X249008	1/4"		
X249010	5/16"		
X249011	11/32"		
X249012	3/8"		
X249014	7/16"		
X249016	1/2"		
X249018	9/16"		
X249020	5/8"		
X249022	11/16"		
X249024	3/4"		
X249026	13/16"		
X249028	7/8"		
X249030	15/16"		
X249032	1"		
X249034	1-1/16"		
X249036	1-1/8"		
X249038	1-1/4"		

Available up to 2-1/8" Metric sizes offered in 6-36mm



### **Adjustable**

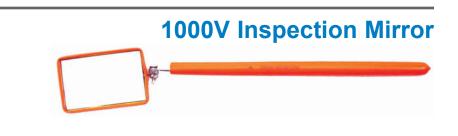
Part No.	OAL	Jaw Opening	
X24804	4"	1/2"	
X24806	6"	15/16"	
X24808	8"	1-1/8"	
X24810	10"	1-5/16"	
X24812	12"	1-1/2"	
X24815	15"	1-11/16"	

Available up to 24" OAL (2-7/16" Jaw Opening)

### **Torque Wrench**

Part Number	OAL	Size Drive	Torque (In/Lb)
X22TCI-150RA38	10"	3/8"	30-150

A wide variety of Torque Wrenches are available upon request



JOV

# **1000V Screwdrivers & Sets**



#### **Standard Screwdrivers**

Part No.	Description
X2376802	1/8" x 2" Shaft
X2375904	3/16" x 4" Shaft
X2375906	3/16" x 6" Shaft
X2375910	3/16" x 10" Shaft
X2375704	1/4" x 4" Shaft
X2375705	1/4" x 6" Shaft
X2375706	5/16" x 6" Shaft
X2375708	3/8" x 8" Shaft
X2375710	3/8" x 10" Shaft
X2375712	3/8" x 12" Shaft
X2376302	# 0 x 2" Shaft
X2376103	# 1 x 3" Shaft
X2376102	# 2 x 1-1/2" Shaft
X2376104	# 2 x 4" Shaft
X2376105	# 2 x 6" Shaft
X2376106	# 3 x 6" Shaft
X2376108	# 4 x 8" Shaft



#### Nutdrivers w/ Cushion Grip

Part No.	Description
X2542010	3/16" x 3" Shaft
X2542030	1/4" x 3" Shaft
X2542050	5/16" x 3" Shaft
X2542060	11/32" x 3" Shaft
X2542070	3/8"x 3" Shaft
X2542080	7/16"x 3" Shaft
X2542090	1/2"x 3" Shaft
X2542100	9/16" x 3" Shaft
X2542110	5/8" x 3" Shaft

Also available with 6" Cushion Grip Metric sizes offered in 5-12mm



#### **Torque Screwdriver**

Part No.	OAL	Drive	Torque
X22TS35	6-3/8"	1/4"	1-36in/lb



#### **Torx Screwdrivers**

 $\overline{DV}$ 

Part No.	Description
X2341410	T10 x 3" Shaft
X2341415	T15 x 3" Shaft
X2341420	T20 x 3" Shaft
X2341425	T25 x 3" Shaft
X2341427	T27 x 4" Shaft
X2341430	T30 x 4" Shaft
X2341440	T40 x 6" Shaft
X2341445	T45 x 6" Shaft
X2341450	T50 x 6" Shaft



Part No.	Bits Included			
X2742614	3/16	1/4	# 1	#2

Magnetic Screv	v Startor

Part No.	Description
X27500-6	6" Slotted
X27700-6	6" Phillips



#### Part No. X23871 Screwdriver Set Includes: #1x3", #2x4", 1/8"x2", 3/16"x6", 1/4"x4", 5/16"x6" Packaged in a roll

#### Part No. X23869

Screwdriver Set Includes: #1x3", #2x4", 1/8"x2", 3/16"x6", 3/16"x10", 1/4"x4", 5/16"x6", 3/8"x8" Packaged in a roll

#### Part No. X23870

Screwdriver Set Includes:#1x3", #2x4", #3x6", 1/8"x2", 3/16"x6", 3/16"x10", 1/4"x4", 5/16"x6", 3/8"x8", 3/8"x12" Packaged in a roll

# **Nutdriver Sets**



Part No. X25922 3" Nutdriver Set Includes: 3/16", 1/4", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16", 5/8" Packaged in a roll

Part No. X25925 3" Metric Nutdriver Set Includes: 5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm Packaged in a roll

# **1000V Pliers & Cutters**



#### **Fiberglass Plier**

Part No.	OAL	Jaw Opening
XKN9862	8"	1-1/2"



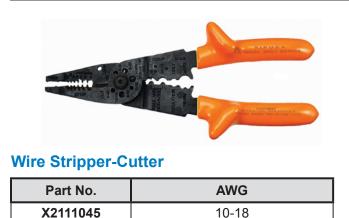
### **Cutting Pliers**

Part No.	OAL
X21436	6"
X21437	7"



### **Crimping Tool & Wire Cutter**

Part Number	OAL	AWG
X211005	9-3/4"	10-22





#### **Linesman Pliers**

Part No.	OAL	Description
21347	7"	Rounded Nose
X21348	8-1/2"	Rounded Nose
X21369	9"	High Leverage



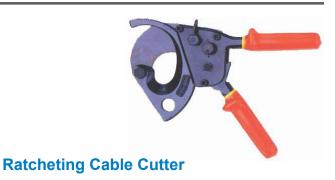
#### **Cable Cutter**

Part No.	OAL
X21911	9-1/2"



### **Tongue and Groove Pliers**

Part No.	OAL	Capacity
X21426	6-1/2"	7/8"
X21430	10"	2"



Part No.	Alum.	Copper
X2163060	600 MCM	400 MCM

# **1000V Tool Sets**



#### **Open-End Wrench Set**

Part No.	Description
X241713	13pc Set Includes 1/4" - 1"



#### L Handle Hex Wrench Set

Part No.	Description
X2610214	13pc Set Includes 1/4" - 1"
X2610614	14pc Set Includes .09-17mm



### **Battery Torque Wrench Set**

Part No.	Description
X202	4pc Set Battery Torque Set
Includes: 2/9" Drive Tergue Mranch (10" OAL	

Includes: 3/8" Drive Torque Wrench (10" OAL, 30-150in/lb) 7" Fiberglass Extension, 1/2" Box Wrench, 1/2" 6pt Socket



#### **Closed-End Wrench Set**

Part No.	Description
X241713-B	13pc Set Includes 1/4" - 1"



#### T Handle Hex Wrench Set

Part No.	Description
X2613P	13pc Set Includes 5/64" - 1/2"



#### **Ratchet and Socket Sets**

Part No.	Description	
X104	16pc Standard Socket Set 3/8" Drive, Deep Sockets	

Includes: Ratchet, 3" and 6" Extensions, 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, and 1" Sockets (12pt)

Part No.	Description
X106	24pc Metric Socket Set 3/8" Drive, Deep Sockets

Includes: Ratchet, 3" and 6" Extensions, 6mm - 26mm Sockets (6pt and 12pt)



### **Electrician Tool Set**

Part No.	Description
XTK9	9pc Electrician Roll

Includes: 3/16x4", 3/16x6", 1/4x6" Slotted Screwdrivers, #1x3", #2x4" Phillips Screwdrivers, 7" Needle Nose Plier, 7-1/2" Diagonal Cutting Plier, 9" Linesman Plier, Combination Stripper/Crimper

# We can make custom sets according to your specifications



# **1000V Tool Sets**



Part No.	Description
X204946	13pc 1/4" Drive Close Quarters Socket Set

Includes: Ratchet; 3" and 6" Flared Extensions; 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2, and 9/16" Regular Sockets (12pt)

Part No.	Description
X204653	16pc 3/8" Drive Close Quarters Socket Set

Includes: Ratchet; 3" and 6" Flared Extensions; 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, and 1" Regular Sockets (12pt)

Part No.	Description	
X204121	21pc 1/2" Drive Close Quarters Socket Set	

Includes: Ratchet; 5" Flared Extension; 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1, 1-1/16, 1-1/8, 1-3/16, 1-1/4, 1-5/16, 1-3/8, 1-7/16, and 1-1/2" Regular Sockets (12pt)



Part No.	Description	
X10TK23	24pc Basic Toll Power Connecting Toolbox	

Includes: Close Quarters Socket set w/ 3/8" Drive Ratchet; 3" and 6" Flared Extensions; 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", and 1" Sockets (12pt); 6" Adjustable Wrench; 3/16", 1/4", 5/16", 11/32", 3/8", 7/16", 1/2" Nutdrivers (3")

THIS SET IS DESIGNED FOR USE IN TIGHT WORK SPACES



Part No.	Description	
X10TK60	60pc General Maintenance Box	

Includes: 1/8x2", 3/16x4", 3/16x6", 1/4x6", 5/16x6" Slotted Screwdrivers; #2x4", #2x8" Phillips Screwdrivers; 3/16, 1/4, 5/16, 11/32, 3/8, 7/16, 1/2 Nutdrivers (6" Long); Torque Wrench (30-150in/lb);3/8" Drive Reversible Ratchet; 3" and 6" Extensions; 10pcs 5/16" - 7/8" Deep Sockets; 11pcs 3/8" - 1" Type L Hex Wrenches (6"); 7-1/2" Diagonal Cutting Plier; 8" Needle Nose Plier; 9" Linesman Plier; 9-1/2" Cable Cutting Plier; 10" Water Pump Plier; Combination Stripper/Crimper

Part No.	Description	
X10TK25	25pc Outside Maintenance Box	

Includes: 1/4x6" Narrow Tip & #2x6" Phillips Screwdrivers; 3/8x3", 7/16x3", 1/2x3", 9/16"x3" Nutdrivers; Torque Wrench (30-150in/lb); Reversible 3/8" Drive Ratchet; 3", 6", and 12" Extensions; 8pcs 3/8" -13/16" Deep Sockets; 3/16", 1/4", 5/16", and 3/8" Type L Hex Wrenches (6"); 10" Water Pump Plier



Part No.	Description
X101	16pc Telecommunication Toolbox

Includes: 3/8" Drive Ratchet; 3/8" Drive 10" Torque Ratchet (30-250in/lb); 3" Extension; 3/8", 7/16", 1/2", 9/16" Reqular Sockets (12pt); 5/8" Deep Socket; 9" Linesman Plier; 6" Needle Nose Plier; 8" Slip Joint Plier; 3/16x4", 1/4x6", 5/16x6", 3/8x8" Slotted Screwdrivers; #2x6" Phillips Screwdriver

# We can make custom sets according to your specifications



### **Industrial Bits**

Effective and secure fastening of screws is indispensable in improved work efficiency and increased reliability in mass production assembly factories. Good bits play a vital role in improved product quality and cost reduction. The accurately machined tip configuration of VESSEL bits will match any screw head perfectly. We offer a wide selection of products and customer service in order to help you select and use the appropriate VESSEL bit for any application.

VESSEL is known for their high quality and ensures that every product supplied is manufactured and tested to the relevant quality and production standards as JIS (Japanese Industrial Standard) and DIN requirements.

For Safety Use:

- · Avoid over-torque, over-load
- Do not idle tool in free speed with bit attached to it
- · Do not use hand tool bits for power tools
- Before tools put on services for installing or replacing bits, be sure to disconnect the power supply. Otherwise, these
  tools may operate accidentally during their replacement or come off during operation, resulting in accidents, which is
  dangerous
- During the operation, the bits and screws are heated due to friction. Therefore, do not touch them

#### NOTE:

Special order bits may take 6-8 weeks. If bits are not in stock, the minimum order is 200 pcs. Dimensions and specifications are subject to change without notice in advance.

### **Insert Bits & Holders**





The MBC-BLUE is a unique magnetic bit holder perfect for repetitive screw fastening. With its powerful magnet, screws can be held in place in horizontal and vertical positions while a retainer ring secures the bit inside the blue anodized holder. Equipped with a quick release chuck and accommodates ¼" hex insert bits.

Part #	Model #	OAL (mm)
482415	HAM (Magnetic)	75
486345	MBC-BLUE (Magnetic)	68

Cross Recessed				
Ð	Part #	Model #	Tip x L	
U.	489001	3000/25	P0 x 1"	
1	489002	3001/25	P1 x 1"	
	489003	3002/25	P2 x 1"	

Hex				
	Part #	Model #	Tip x L	
•	487130	2001	1/8" x 25mm	
	489051	3032/25	2 x 25mm	
	489052	30325/25	2.5 x 25mm	
	489053	3033/25	3 x 25mm	
	489054	3034/25	4 x 25mm	
	489055	3035/25	5 x 25mm	
	489056	3036/25	6 x 25mm	
	489057	3038/25	8 x 25mm	

Cross				
$\bullet$	Part #	Model #	Tip x L	
	487105	1001	P1 x 1"	
	487106	1002	P2 x 1"	
	487107	1003	P3 x 1"	

Slot Recessed				
D	Part #	Model #	Tip x L	
	489061	5603/25	3x0.65x1"	
	489062	5604/25	4x0.7x1"	
	446389	5655/25	5.5x0.8x1"	
	489065	5606/25	6x0.85x25"	
	489066	5607/25	7x1.2x1"	
	489067	5608/25	8x1x25"	

Sq	uare	Н	ea	d

Oquaro nouu			
	Part #	Model #	Tip x L
	487150	3001	1 x 1"
	487151	3002	2 x 1"
	487152	3003	3 x 1"

Torx Recessed					
	Part #	Model #	Tip x L		
	489160	T10/25	T10 x 1"		
B	489161	T15/25	T15 x 1"		
M	489162	T20/25	T20 x 1"		
A DESCRIPTION OF THE OWNER OF THE	489163	T25/25	T25 x 1"		
	489165	T30/25	T30 x 1"		
	489166	T40/25	T40 x 1"		

# **Double End Bits & Holder**

Features:

DV

- One touch insertion and quick release
- Accepts both single-end and Double-end bits
- Perfect bit holding without any "play" between bit and holder
- Utilizes a precision engineered steel sheet spring to firmly grab bits without failure

Uluel	Accepts all bits			
	listed ab as Doub			TIP
DBH	I-02			Ð
Part #	Model #	OAL (mm)		۲
482433	DBHM-01 (Magnetic)	60		<u> </u>
482434	DBHM-02 (Magnetic)	62		
				$\Theta$

	DOUBLE END BITS				
TIP	ΓIP Part # Model # Tip				
	482435	P1D	1 x 30		
$\bullet$	482436	P2D	2 x 30		
~	482437	P3D	3 x 30		
	482438	PZ1D	1 x 30		
( )	482439	PZ2D	2 x 30		
	480440	PZ3D	3 x 30		
	482441	4MMD	4 x 30		
$\Theta$	482442	5MMD	5 x 30		
	482443	6MMD	6 x 30		

# **Industrial Bits**



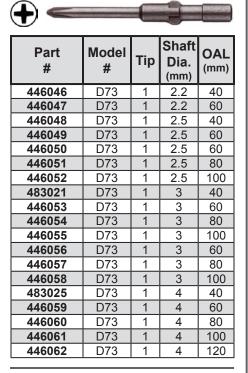


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Part #	Model #	Тір	Shaft Dia. (mm)	OAL (mm)
446001	D73	00	1.2	40
446002	D73	00	1.2	60
483001	D73	00	1.5	40
483002	D73	00	1.5	60
446004	D73	00	1.7	40
446005	D73	00	1.7	60
483005	D73	00	2	40
483006	D73	00	2	60
446006	D73	00	2	80
446007	D73	00	2	40
446008	D73	00	2	60
446009	D73	00	2	80
446010	D73	00	2	60
446011	D73	00	2	80
446012	D73	00	2	100
446013	D73	00	2	60
446014	D73	00	2	80
446015	D73	00	2	100

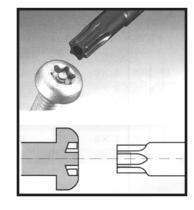


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446063	D73	2	3	40
446064	D73	2	3	60
446065	D73	2	3	80
446066	D73	2	3	60
446067	D73	2	3	80
446068	D73	2	3	100
446069	D73	2	3	120
483031	D73	2	4	40
446070	D73	2	4	60
446071	D73	2	4	80
446072	D73	2	4	100
446073	D73	2	4	120

DELVO (DENSEI), HIOS (FERRA TOOLS)

446107	D73	5	2	40	
446108	D73	5	2	60	
446109	D73	6	2	40	
446110	D73	6	2	60	
446111	D73	6	4	60	
446112	D73	6	4	100	
446113	D73	7	2	60	
446114	D73	7	4	60	
446115	D73	7	4	100	
446116	D73	8H	4	60	
446117	D73	8H	4	100	
446118	D73	8H	4	150	
446119	D73	10H	4	60	
446120	D73	10H	4	100	
446421	D73	10H	4	150	
446422	D73	15H	4	60	
446123	D73	15H	4	100	
* //					

\* H = Tamper Proof





Part #	Model #	Тір	Shaft Dia. (mm)	OAL (mm)	
446074	D73	1.1	0.28	40	
446075	D73	1.1	0.28	60	
446076	D73	1.1	0.28	80	
446077	D73	1.3	0.28	40	
446078	D73	1.3	0.28	60	
446079	D73	1.3	0.28	80	
446080	D73	1.5	0.30	40	
446081	D73	1.5	0.30	60	
446082	D73	1.5	0.30	80	
446083	D73	1.7	0.30	40	
446084	D73	1.7	0.30	60	
446085	D73	1.7	0.30	80	
446086	D73	1.8	0.40	40	
446087	D73	1.8	0.40	60	
446088	D73	1.8	0.40	80	

446089	D73	2	0.40	40
446090	D73	2	0.40	60
446091	D73	2	0.40	80
446092	D73	2.3	0.40	40
446093	D73	2.3	0.40	60
446094	D73	2.3	0.40	80
446095	D73	2.5	0.40	40
446096	D73	2.5	0.40	60
446097	D73	2.5	0.40	80
446098	D73	2.8	0.40	40
446099	D73	2.8	0.40	60
446100	D73	2.8	0.40	80
446101	D73	3	0.40	40
446102	D73	3	0.40	60
446103	D73	3	0.40	80
446104	D73	4	0.60	40
446105	D73	4	0.60	60
446106	D73	4	0.60	80

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D73

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**J**DV

# VESSEL

# **Industrial Bits**



### • 5mm Shank Drive



Part #	Model #	Тір	Shaft Dia. (mm)	OAL (mm)
483105	D76	00	2	60
446258	D76	0	2.5	40
483115	D76	0	2.5	60
446252	D76	0	2.5	80
446260	D76	0	3	60
446261	D76	0	5	60
446262	D76	1	2.6	60
446263	D76	1	2.6	80
446264	D76	1	2.6	100
446265	D76	1	2.6	120
446266	D76	1	3	40
483121	D76	1	3	60
446267	D76	1	3	80
446268	D76	1	3	100
446269	D76	1	3	120
483125	D76	1	5	60
446270	D76	1	5	80
446271	D76	1	5	100
446272	D76	1	5	120
446273	D76	1	5	150



FOR USE WITH: DELVO (DENSEI)

# ♦ 4mm Drive



Part #	Model #	Тір	Shaft Dia. (mm)	OAL (mm)
446290	EPH201	0	1.8	44
446291	EPH202	0	1.8	64
446292	EPH203	00	2	44
446293	EPH204	00	2	64
446294	EPH205	0	2.5	44
446295	EPH206	0	2.5	64
446296	EPH207	1	3	44
446297	EPH208	1	3	64
446498	EPH209	1	4	44
446299	EPH210	1	4	64
446300	EPH211	2	4	44
446301	EPH212	2	4	64
446302	EPH213	3	6	44

Part	Model	Size	Shaft	OAL
#	#	(mm)	Dia.	(mm)

Part #	Model #	Size (mm)	Dia. (mm)	OAL (mm)
446312	EBX241	2.3	n/a	44
446313	EBX242	2.5	n/a	44
446314	EBX243	3	n/a	44
446315	EBX244	4	n/a	44
446316	EBX245	4.5	n/a	44
446317	EBX246	5	n/a	44
446318	EBX247	5.5	n/a	44



Part #	Model #	Тір	Thick (mm)	OAL (mm)
446319	ETX250	5	n/a	44
446320	ETX251	5	n/a	64
446321	ETX252	6	n/a	44
446322	ETX253	6	n/a	64
446323	ETX254	8H	n/a	44
446324	ETX255	8H	n/a	64
446325	ETX256	10H	n/a	44
446326	ETX257	10H	n/a	64
446327	ETX258	15H	n/a	44
446328	ETX259	15H	n/a	64

\* H = Tamper Proof (see pg 37)



$\oplus$		-	1 H	
446274	D76	2	3	60
446275	D76	2	3	60
446276	D76	2	3	80
446277	D76	2	3	100
446278	D76	2	3	120
483131	D76	2	5	60
446279	D76	2	5	80
446280	D76	2	5	100
446281	D76	2	5	120
446282	D76	2	5	150

116201	D76	5	5	60

446284	D76	5	5	60		
446285	D76	6	5	60		
446286	D76	7	5	60		
446287	D76	8H	5	60		
446288	D76	10H	5	60		
446289	D76	15H	5	60		
* H = Tamper	* H = Tamper Proof (see pg 37)					

\* H = Tamper Proof (see pg 37)

**J**DV

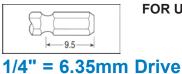
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Part #	Model #	Тір	Thick (mm)	OAL (mm)
446303	EPL221	2	0.3	44
446304	EPL222	2.5	0.3	44
446305	EPL223	3	0.4	44
446306	EPL224	4	0.5	44
446307	EPL225	5	0.65	44



#	#	пр	Dia. (mm)	(mm)
446308	EHW231	1.5	n/a	44
446309	EHW232	2	n/a	44
446310	EHW233	2.5	n/a	44
446311	EHW234	3	n/a	44

# **Industrial Bits**





FOR USE WITH: AEG, ARO, ATLAS-COPCO, BIAX, B&D, BOSCH, BUCKEYE-TOOLS, CHICAGO PNEUMATIC, CLECO, DELVO (DENSEI), DEPRAG, DESOUTTER, FIAM, FUJI-KUKI, GARDNER-DENVER, HIOS (FERRA TOOLS) HITACHI, INGERSOLL, KELLER, MAKITA, MALL, MATSUSHITA, METABO, NPK, PNEUTEC, PREMAG, ROCKWELL, ROTOR-TOOL, SKIL, STANLEY, STAR, STAYER, THOR, TONICHI, URYU, VAN-DORN, VIRAX, WOLF, YOKOTA, YUTANI



Part #	Model #	Тір	Shaft Dia. (mm)	OAL (mm)
446125	B35	00	1.2	40
446126	B35	00	1.2	60
446127	B35	00	1.5	40
446128	B35	00	1.5	60
446129	B35	00	1.7	40
446130	B35	00	1.7	60
446131	B35	00	2	40
446132	B35	00	2	60
446133	B35	00	2	80
446134	B35	00	2	60
446135	B35	00	2	80
446136	B35	00	2	60
446137	B35	00	2	80
446138	B35	00	2	100
446139	B35	00	2	60
446140	B35	00	2	80
446141	B35	00	2	100
446142	B35	0	1.4	40
446143	B35	0	1.4	60
446144	B35	0	1.4	80
446145	B35	0	1.4	60
446146	B35	0	1.4	80
446147	B35	0	1.4	100
446148	B35	0	1.7	40
446149	B35	0	1.7	60
446150	B35	0	1.7	60
446151	B35	0	1.7	80
446152	B35	0	2	40
446153	B35	0	2	60
446154	B35	0	2	80
446155	B35	0	2	100
446156	B35	0	2	80
446157	B35	0	2	100
446158	B35	0	2.5	40
446159	B35	0	2.5	60
446160	B35	0	2.5	80
446161	B35	0	2.5	100
446162	B35	0	2.5	80
446163	B35	0	2.5	100
446164	B35	0	3	40
446165	B35	0	3	60
446166	B35	0	3	80
446167	B35	0	3	100

Part #	Model #	Тір	Shaft Dia. (mm)	OAL (mm)	
446168	B35	0	3	80	
446169	B35	0	3	100	
446170	B35	0	4	40	
446171	B35	0	4	60	
446172	B35	1	2.2	40	
446173	B35	1	2.2	60	
446174	B35	1	2.3	75	
446175	B35	1	2.5	40	
446176	B35	1	2.5	60	
446177	B35	1	2.5	60	
446178	B35	1	2.5	80	
446179	B35	1	2.5	100	
446180	B35	1	3	40	
446181	B35	1	3	60	
446182	B35	1	3	80	
446183	B35	1	3	100	
446184	B35	1	3	60	
446185	B35	1	3	80	
446186	B35	1	3	100	
446187	B35	1	3.2	75	
446188	B35	1	4	40	
446189	B35	1	4	60	
446190	B35	1	4	80	
446191	B35	1	4	100	
424035	B35	1	7	75	
446192	B35	1	4	120	
446193	B35	2	3	40	
446194	B35	2	3	60	
446195	B35	2	3	80	
446196	B35	2	3	60	
446197	B35 B35	2	3.2 3	70	
446198		2	3	80	
446199 446200	B35	2	3	100 120	
446200	B35 B35	2	3.2	120 75	
		2	3.Z		
446202	B35 B35	2	4	40 60	
446203	B35 B35	2	4	80	
446204	B35	2	4		
		2	4	100	
446206 424049	B35 B35	2	4	120	
424049	B35 B35	2	7	150 200	
440207	630	2	1	200	

Part #	Model #	Tip Size	Shaft Dia. (in)	OAL (mm)
446423	10600	00	2/32"	49
487195	1060	0	1/8"	49
487200	1061	1	3/16"	49
446424	1062R	2	3/16"	49
487205	1062	2	1/4"	49
487201	1071	1	3/16"	70
487206	1072	2	1/4"	70
487202	1081	1	3/16"	89
487207	1082	2	1/4"	89
446425	41071	1	3/16"	75
446426	42071	2	3/16"	75
446427	41081	1	3/16"	100

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Part #	Model #	<b>A/F</b> (mm)	Shaft Dia. (in)	OAL (mm)	
489301	1304/50	4	8	50	
489302	1345/50	4.5	8	50	
489303	1305/50	5	8.5	50	
489304	1355/50	5.5	9	50	
489305	1306/50	6	10	50	
489306	1307/50	7	13	50	
489307	1308/50	8	13	50	
489308	1309/50	9	14	50	
489309	1310/50	10	16	50	
489310	1311/50	11	17	50	
489311	1312/50	12	19	50	
489312	1313/50	13	19	50	
489313	1314/50	14	20	50	
446601	1317/55	17		55	
* Other leng	ths availab	le up to	150 mm	,	

Other lengths available up to 150 mm.

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Extra Long Bits

		Contraction		F.
Part #	Model #	Tip Size	Shaft Dia. (mm)	OAL (mm)
489672	4301/150	1	4.5	150
489673	4302/150	2	6	150
446437	4303/150	3	8	150
446438	4301/200	1	4.5	200
446439	4302/200	2	6	200
446440	4303/200	3	8	150

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(JDV)



#### FOR USE WITH:

AEG, ARO, ATLAS-COPCO, BIAX, B&D, BOSCH, BUCKEYE-TOOLS, CHICAGO PNEUMATIC, CLECO, DELVO (DENSEI), DEPRAG, DESOUTTER, FIAM, FUJI-KUKI, GARDNER-DENVER, HIOS (FERRA TOOLS) HITACHI, INGERSOLL, KELLER, MAKITA, MALL, MATSUSHITA, METABO, NPK, PNEUTEC, PREMAG, ROCKWELL, ROTOR-TOOL, SKIL, STANLEY, STAR, STAYER, THOR, TONICHI, URYU, VAN-DORN, VIRAX, WOLF, YOKOTA, YUTANI





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Part #	Model #	Tip Size	Shaft Dia. (mm)	OAL (mm)
21202	-	2	3	49
487280	21225	2.5	3.5	49
487281	21203	3	3.5	49
487282	21204	4	4.6	49
487283	21205	5	5.8	49
487284	21206	6		49
489291	1332/70	2	7	70
489292	1333/70	3	7	70
489293	1334/70	4	7	70
489294	1335/70	5	7	70
489295	1336/70	6	7	70
489496	1337/70	7	10	70
489297	1338/70	8	11	70
489298	1339/70	9	11	70
489299	1334/70	10	12	70
424080	B35	2	7	75
424082	B35	2.5	7	75
424084	B35	3	7	75
424086	B35	4	7	75
424088	B35	5	7	75
424090	B35	6	7	75
424081	B35	2	7	100
424083	B35	2.5	7	100
424085	B35	3	7	100
424087	B35	4	7	100
424089	B35	5	7	100
424091	B35	6	7	100

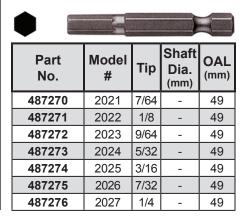
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Part #	Model #	Width (mm)	Thick (mm)	OAL (mm)
489271	5303/51	3	0.5	51
489272	5335/51	3.5	0.55	51
489273	5304/51	4	0.6	51
489274	5345/51	4.5	0.7	51
489275	5305/51	5	0.75	51
489276	5355/51	5.5	0.8	51
489277	5306/51	6	0.85	51
449278	5365/51	6.5	0.85	51
489279	5307/51	7	0.9	51
489280	5308/51	8	1	51
489281	5309/51	9	1.15	51
489282	5310/51	10	1.2	51
489675	5303/75	3	0.5	75
489283	5304/75	4	0.6	75
489284	5305/75	5	0.75	75
489285	5306/75	6	0.85	75
489676	5306/125	6	0.85	125
489677	5365/75	6.5	0.85	75
489286	5307/75	7	0.9	75



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Part #	Model #	Tip Size	Shaft Dia. (mm)	OAL (mm)
635300	JT	6	4	75
635305	JT	8	4.5	75
635310	JT	10	4.5	75
635315	JT	15	4.5	75
635320	JT	20	5	75
635325	JT	25	5	75
635330	JT	27	5.5	75
635335	JT	30	6	75
635340	JT	40	7	75
635345	JT	45	8	75
635301	JT	6	4	100
635306	JT	8	4.5	100
635311	JT	10	4.5	100
635316	JT	15	4.5	100
635321	JT	20	5	100
635326	JT	25	5	100
635331	JT	27	5.5	100
635336	JT	30	6	100
635341	JT	40	7	100
635346	JT	45	8	100

Part #	Model #	Tip Size	Shaft Dia. (mm)	OAL (mm)
446488	T10607	7	N/A	49
446489	T10608	8	N/A	49
446490	T10609	9	N/A	49
446491	T10610	10	N/A	49
446492	T10615	15	N/A	49
446493	T10620	20	N/A	49
446494	T10625	25	N/A	49
446495	T10627	27	N/A	49
446496	T10630	30	N/A	49
446497	T10640	40	N/A	49
446499	T10707	7	N/A	70
446500	T10708	8	N/A	70
446501	T10709	9	N/A	70
446502	T10710	10	N/A	70
466503	T10715	15	N/A	70
466504	T10720	20	N/A	70
466505	T10725	25	N/A	70
466506	T10727	27	N/A	70
466507	T10730	30	N/A	70
466508	T10740	40	N/A	70
446509	T10807	7	N/A	90
446510	T10808	8	N/A	90
466511	T10809	9	N/A	90
466512	T10810	10	N/A	90
466513	T10815	15	N/A	90
466514	T10820	20	N/A	90
466515	T10825	25	N/A	90
466516	T10827	27	N/A	90
466517	T10830	30	N/A	90
446518	T10840	40	N/A	90





Part

No.

Model

#

Tip

OAL

(mm)

# **Industrial Bits**

FOR USE WITH: VESSEL, HITACHI, MAKITA, MATSUSHITA, MAX, NPK, RYOBI, TONICHI, TOSHIBA, YOKOTA, YUTANI



Part No.	Model #	Тір	Shaft Dia. (mm)	OAL (mm)	
481090	A16	2	-	65	
481091	A16	2.5	-	65	
481092	A16	3	-	65	
481093	A16	4	-	65	
481094	A16	5	-	65	
481096	A16	6	-	65	



Part #	Model #	Width (mm)	Thick (mm)	OAL (mm)
415071	A16	6	0.8	45
415072	A16	6	0.8	70
415171	A16	8	1	45
415172	A16	8	1	70
415271	A16	10	1.2	45
415272	A16	10	1.2	70

0				
Part	Model	A/F	Shaft	OAL

Part No.	Model #	Тір	Shaft Dia. (mm)	OAL (mm)
635120	VT	10	4.5	65
635125	VT	15	4.5	65
635130	VT	20	5	65
635135	VT	25	5	65
635140	VT	27	5.5	65
635145	VT	30	6	65
635150	VT	40	7	65
635121	VT	10	4.5	110
635126	VT	15	4.5	110
635131	VT	20	5	110
635136	VT	25	5	110
635141	VT	27	5.5	110
635146	VT	30	6	110
635151	VT	40	7	110

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Part #	Model #	A/F (mm)	Shaft Dia. (in)	OAL (mm)
416080	A20	4.5	7.5	55
416081	A20	5	8.5	55
416082	A20	5.5	10	55
416083	A20	6	10	55
416084	A20	7	13	55
416181	A20	8	13	55
416182	A20	9	16	55
416188	A20	9.6	16	55
416183	A20	10	16	55
416184	A20	11	16	55
416185	A20	12	19	55
416186	A20	13	19	55
416187	A20	14	20	55
416189	A20	15	22	55
416190	A20	17	23	55
* Other lengths	available u	p to 100 r	nm.	

1/4" = 6.35mm Drive

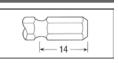


Part #	Model #	Tip Size	OAL (mm)
413029	A14	1	45
413031	A14	1	65
413032	A14	1	65
413231	A14	1	110
413039	A14	2	45
413041	A14	2	45
413040	A14	2	45
413047	A14	2	65
413042	A14	2	65
413043	A14	2	65
413045	A14	2	65
413241	A14	2	110
413242	A14	2	110
413243	A14	2	110
413245	A14	2	150
413247	A14	2	150
413249	A14	2	200
413255	A14	2	300
413051	A14	3	45
413052	A14	3	65
413252	A14	3	110
413251	A14	3	110

FOR USE WITH: DELVO (DENSEI), HIOS (FERRA TOOLS), HITACHI, MATSUSHITA, URYU, YOKOTA  $( \mathbf{f} )$ 

$\bullet$				
Part No.	Model #	Тір	Shaft Dia. (mm)	OAL (mm)
422036	B34	1	6	70
422031	B34	1	6	72
422037	B34	1	6	100
422032	B34	1	6	100
422038	B34	1	6	150
422033	B34	1	6	150
422051	B34	2	6	70
422041	B34	2	6	70
422052	B34	2	6	100
422042	B34	2	6	100
422053	B34	2	6	120
422045	B34	2	6	120
422067	B34	2	6	125
422068	B34	2	6	125
422054	B34	2	6	150

Part No.	Model #	Тір	Shaft Dia. (mm)	OAL (mm)
422043	B34	2	6	150
422055	B34	2	6	200
422044	B34	2	6	200
422039	B34	1	5.3	105
422034	B34	1	5.3	105
422040	B34	1	5.3	120
422035	B34	1	5.3	120
422061	B34	1	5.3	125
422062	B34	1	5.3	125
422058	B34	2	5.3	105
422046	B34	2	5.3	105
422059	B34	2	5.3	120
422047	B34	2	5.3	120
422064	B34	2	5.3	125
422065	B34	2	5.3	125



**5mm Drive** 



Part #	Model #	Tip Size	OAL (mm)
423035	B36	1	70
423031	B36	1	70
423036	B36	1	100
423032	B36	1	100
423045	B36	2	70
423041	B36	2	70
423046	B36	2	100
423042	B36	2	100
423047	B36	2	100
423043	B36	2	100

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**J**DV

VESSEL	Pne	umatic Screwdrivers
GT-S4.5DR	GT-PLR	GT-PLP
Bit Sleeve Retainer 6.35mm Noise reducer	Ball Spring Retainer 6.35mm Lever activated	Ball Spring Retainer 6.35mm Button activated Rear exhaust
GT-PLZ Bit Sleeve Retainer 6.35mm (pull type) Lever activated Noise Reducer	GT-PLRC Angle Head Size Ball Spring Retainer 6.35mm Lever activated	Gr-H2
GT-H4R Ball Spring Retainer 6.35mm Lever activated Noise Reducer GT-H4R Cotions Anvil for A/F 5mm bit Torque Adjusting Spring (medium/weak)	GT-P4.5D GT-P4.5DR (powerful for reverse turn) Bit Sleeve Retainer 6.35mm Trigger activated Noise reducer Rear exhaust	GT-P5LS Bit Sleeve Retainer 6.35mm (pull type) Trigger activated Noise reducer Rear exhaust
<b>VESSEL</b> <b>The Pursuit of Quality</b> For Industrial Bits, please see page 46	GT-PH4 Ball Spring Retainer Smm Trigger activated Norger schwated Rear exhaust Options Torque Spring Anvil for A/F 6.35mm bit	GT-PH5 Ball Spring Retainer 6.35mm Trigger activated Noise reducer Rear exhaust

Deut		Capacit	y (mm)		Torque	Range	Free	Air	Hose	0.	A.L.	Wei	ght
Part No.	Standard Screw	Tapping Screw	Wooden Screw	Bolt	N.m.	(ft. lbf)	Speed (rpm)	Cons. m3/min	Coupling	mm	in.	g.	lb.
GT-S4.5DR	4.0 ~ 5.0	3.5 ~ 4.0	2.7 ~ 3.5	4.0 ~ 5.0	3.4 ~ 6.4	(2.5 ~ 4.7)	14,000	0.2	G 1/4	180	7-3/32	585	1.29
GT-PLR	4.0 ~ 5.0	-	2.7 ~ 3.5	4.0 ~ 5.0	2.9 ~ 6.9	(2.2 ~ 5.1)	9,000	0.2	G 1/4	187	7-11/32	830	1.83
GT-PLP	4.0 ~ 5.0	3.5 ~ 4.0	2.7 ~ 3.5	4.0 ~ 5.0	3.4 ~ 6.4	(2.5 ~ 4.7)	9,000	0.2	G 1/4	197	7-3/4	750	1.65
GT-PLZ	4.0 ~ 5.0	3.5 ~ 4.0	2.7 ~ 3.5	4.0 ~ 5.0	2.9 ~ 6.9	(2.2 ~ 5.1)	9,000	0.2	G 1/4	205	8-5/64	950	2.09
GT-PLRC	4.0 ~ 5.0	-	-	4.0 ~ 5.0	2.0 ~ 5.9	(1.5 ~ 4.3)	9,000	0.2	G 1/4	228	8-31/32	1,100	2.43
GT-H2	1.6 ~ 2.3	-	-	-	0.1 ~ 0.4	(0.1 ~ 0.3)	3,200	0.16	G 1/4	164	6-7/16	267	0.59
GT-H4R	3~4	-	1.8 ~ 2.4	3~4	1.0 ~ 2.2	(0.7 ~ 1.6)	1,500	0.2	G 1/4	190	7-15/32	590	1.30
GT-P4.5D	4.0 ~ 5.0	3.5 ~ 4.0	2.7 ~ 3.5	4.0 ~ 5.0	3.4 ~ 6.4	(2.5 ~ 4.7)	14,000	0.2	Rc 1/4	160	6-9/32	715	1.58
GT-P5LS	4.0 ~ 5.0	3.5 ~ 4.0	2.7 ~ 3.5	4.0 ~ 5.0	2.9 ~ 6.9	(2.2 ~ 5.1)	9,000	0.2	Rc 1/4	165	6-1/2	980	2.16
GT-PH4	3~4	-	1.8 ~ 2.4	3 ~ 4	1.0 ~ 2.2	(0.8 ~ 1.6)	1,500	0.19	Rc 1/4	175	6-7/8	800	1.76
GT-PH5	4 ~ 5	3.5 ~ 4	2.7 ~ 3.5	4 ~ 5	2.0 ~ 5.4	(1.5 ~ 4.0)	1,500	0.25	Rc 1/4	200	7-7/8	1,070	2.36
Air pressure	e 0.6 Mpa	Air hose	e bore diam	eter: 6.35 n	nm • OAL	does not inc	lude acces	sories and	hangers •	Weight	Accessori	es not in	cluded



Part	Torque	Range	Free	Air Cons.	0.4	4.L.	Wei	ght	Air Hose	Body
No.	N.m.	(ft. lbf)	Speed (rpm)	m3/min	mm	in.	kg.	lb.	Size	Form
GT-P6XD	-	-	8500	0.49	153	6 3/16	940	2.07	PT 1/4	PISTOL
GT-P6LS III	3.9 ~ 9.8	2.9 ~ 7.2	9000	0.3	177	6 31/32	955	2.11	PT 1/4	PISTOL
GT-P6HS	7.9 ~ 19.6	5.8 ~ 14.5	10000	0.3	180	7 3/32	1170	2.58	PT 1/4	PISTOL

• Air pressure... 0.6 Mpa • Air hose bore diameter: 6.35 mm • OAL does not include accessories and hangers • Weight: Accessories not included

# **Pneumatic Impact Wrenches**

GT-3800PF	Ç				GT-380	0LF	203			
Square Drive 25.4mm	Size				Square I 25.4mi Pin Lock	Drive Size n				
Pin Lock					GT-420	OLF	203	=	e e une	
GT-4200PF	9	2			Square I 25.4mi Pin Lock	Drive Size <b>n</b>				
Square Drive <b>25.4mm</b> Pin Lock	Size				GT-S55 Square I 25.4mi Pin Lock Noise Redu	Drive Size	255			
Dort	Torque	Range	Free	Air	0.4	A.L.	We	ight		Bedy
Part No.	N.m.	(ft. lbf)	Speed (rpm)	Cons. m3/min	mm	in.	kg.	lb.	Air Hose Size	Body Form
	040 4500		0000		054	0 7/0	0.0	00.00		DIOTOL

		· · ·	(rpm)	1113/11111			0			
GT-3800PF	343 ~ 1569	253 ~ 1157	3800	0.8	251	9 7/8	9.2	20.28	PT 3/8	PISTOL
GT-3800LF	343 ~ 1569	253 ~ 1157	4000	0.8	518	20 3/8	9.5	20.94	PT 3/8	STRAIGHT
GT-4200PF	490 ~ 1765	361 ~ 1302	2500	1.0	296	11 21/32	11.5	25.35	PT 3/8	PISTOL
GT-4200LF	490 ~ 1765	361 ~ 1302	3200	1.0	559	22 1/64	13.3	29.32	PT 3/8	STRAIGHT
GT-S55R	490 ~ 2450	361 ~ 1807	2800	1.2	610	24 1/64	17.0	37.48	PT 1/2	STRAIGHT
• Air pressure	. 0.6 Mpa • Ai	r hose bore diam	eter: 6.35 m	m • OAL c	loes not incl	ude accesso	ries and har	igers • We	ight: Accessorie	s not included



Part	Torque	Range	Free	Air Cons.	0./	A.L.	We	ight	Air Hose	Body
No.	N.m.	(ft. lbf)	Speed (rpm)	m3/min	mm	in.	kg.	lb.	Size	Form
GT-S650	20 ~ 69	15 ~ 51	7500	0.30	207	8 5/32	1.33	2.93	PT 1/4	STRAIGHT
GT-P6 II	20 ~ 69	15 ~ 51	7800	0.38	146	5 3/4	1.43	3.15	PT 1/4	PISTOL
GT-S600C	20 ~ 39	15 ~ 29	5600	0.30	250	9 27/32	1.87	4.12	PT 1/4	ANGLE
GT-P8 II	39 ~ 137	29 ~ 101	7500	0.40	163	6 3/8	1.89	4.17	PT 1/4	PISTOL
GT-P12	69 ~ 216	51 ~ 159	7500	0.40	183	7 3/16	2.30	5.07	PT 1/4	PISTOL
GT-P14J	98 ~ 265	72 ~ 195	6300	0.42	194	7 5/8	2.95	6.50	PT 1/4	PISTOL
GT-P14JL	98 ~ 265	72 ~ 195	6300	0.42	226	8 7/8	3.05	6.72	PT 1/4	PISTOL
GT-P18J	196 ~ 461	145 ~ 340	5000	0.52	239	9 3/8	4.20	9.26	PT 1/4	PISTOL
GT-P18JL	196 ~ 461	145 ~ 461	4700	0.52	353	13 7/8	4.70	10.36	PT 1/4	PISTOL
GT-P32J	343 ~ 1275	253 ~ 940	4200	1.30	264	10 3/8	11.2	24.70	PT 1/4	PISTOL
	0.6 Mpa	Air boso bor	a diamotor: 6 3		loos not incl		rice and har		ant: Accessorie	s not included

Air pressure... 0.6 Mpa
 Air hose bore diameter: 6.35 mm
 OAL does not include accessories and hangers
 Weight: Accessories not included

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DV

# Air Tools Pneumatic Scraper





Perfect for removing IC chips from circuit boards when recycling PCs, faxe machines and copiers, This tool is also ideal for the removal of stickers, and can even scrape off mortar or paint from external walls of buildings. The short stroke pitch reduces jumping of the scraper attachment, whereby making it more comfortable for the operator.

Part	o. Pressure MPa c.p.m.		Air Consumption	Stroke	Air Hose	O.A.L.	Weight
No.	Pressure MPa	c.p.m.	m3/min	(mm)	Joint	mm	g.
GT-ASC5	0.6	7,000	0.28	5	RFC1/4	195.5	810

Part No.	Blade Width	Shank Dia.	Used for
ASC-25-8	25 mm	8	IC chip
ASC-50-8	50 mm	8	IC chip, out wall

# **Pneumatic Saws**



#### GT-AS10

- Oil-resistant cushion grip
- Convenient RESET button can be used to restart unit if engine stalls
- Noise reducer



- High-speed cutting
- Ergonomic rubber grip
- Ideal for long-use applications
- Very lightweight

Part No.	Cutting Capacity	Working Air Pressure MPa	Stroke Speed c.p.m.	Air Consumption m3/min	Stroke (mm)	Air Hose Joint	O.A.L. mm	Weight g.
GT-AS10	Steel: 4mm	0.6	5,000	0.28	10	Rc 1/4	195.5	570
GT-AS100	Steel: 1.6mm Wood: 55mm	0.6	10,000	0.34	10	Rc 1/4	170	570

Part No.	Specifications	Part No.	Specifications	VESSEL COBALT BUMER AND ASB-32	
ASB-32	Cobalt mix Std. blade, 32 teeth	ASB-25-5	25mm wide scraper blade	100 a Third	
ASB-32T	Thin blade, 32 teeth	ASF-F-5	Flat file	VESSEL COBALT BI-HETAL ASB-32T	
ASB-32H	Cobalt mix Thick blade, 32 teeth	ASF-R-5	Round file		
ASB-24H	Cobalt mix Thick blade, 24 teeth	ASF-T-5	Triangular file		

AD-3-100A

# **Blow Guns**

VESSEL's "Air Penguin" series blow guns are equipped with an ergonomically designed handle and trigger, a safety nozzle, and are very lightweight. The AD-3-100A comes with a stainless steel nozzle angled at 30° to access hard to reach places.

	Part	Max Working	Working	0. <i>A</i>	\.L.	We	ight	Inlet
	No.	Pressure	Temperature	mm.	in.	g.	lb.	
AD-3-S	AD-3-S	0.97MPa	0°C - 60°C	148	5.83	71	0.16	Rc 1/4
	AD-3-100A	0.97MPa	0°C - 60°C	217	8.54	83	0.18	Rc 1/4

# **Pneumatic Cutters**

Increase productivity with our lightweight pneumatic cutting tools. Ideal for cutting wire, terminals, or for trimming component leads on thru-hole PCB's.

The cutting blades can be easily rotated for left or right-handed operation in less than a minute and the unit is easily maintained.

Replacing manual cutting tools with these ergonomic air-powered units can reduce injuries caused by Repetitive Stress Syndrome. Each kit includes the air nipper body, cutting blade, 6 ft. air hose, and fittings.

Additional size units and body styles available.



SSE

Kit Part No.	Cutting Capacity (mm)			Supply Air	Body Dia.	Weight	Overall	Replacement
	Copper	Steel	Piano Wire	Pressure (psi)	(mm)	(g)	Length (mm)	Blade Part No.
GT-N3/BBH			0.2	58-73	23	95	112	N3BBH90
GT-N3/AS	1.0	0.5						N3AS
GT-N3/HS								N3HS
GT-N7/BBH	1.6	1.0	0.5	58-73	34	180	123	N7BBH80
GT-N7/AS								N7AS
GT-N7/HS								N7HS
GT-N20/BBH	2.6	2.0	1.0	73-87	45	375	156	N20BBH837
GT-N20/AS								N20AS
GT-N20/HS								N20HS

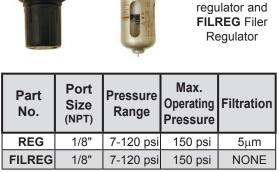
\* Cutting capacities are bases on ideal conditions. Weight and OAL does not include blades or accessories. 1/8" or 1/4" NPT male fittings provided.

Elbow Fitting	Part No.	Hose OD	Thread	Part No.	Hose OD	Thread	•		tool manu	
and the second	ELB4-8	4MM		ELB1/4-8M	1/4"	R1/8			moves pa	•
	ELB4-4 ELB6-8	4MM 6MM	R1/4 R1/8	ELB1/4-4M ELB1/4-8	1/4" 1/4"	R1/4 1/8" NPT			he regulat	
32	ELB6-0	6MM	R 1/6	ELD1/4-0	1/4	1/0 NPT			•	
a									dry. Both c	ome
Straight Fitting	Part No.	Hose OD	Thread	Part No.	Hose OD	Thread	a gauge.			
UNRERE CONTRACTOR	SF4-8	4MM	R1/8	SF1/4-8M	1/4"	R1/8	REG		FILREG	
a and a second s	SF4-0	4000 4MM	R1/4	SF1/4-6W	1/4	R1/4	and the second			
WINNESS F	SF6-8	6MM	R1/8	SF1/4-8	1/4"	1/8" NPT				
	SF6-4	6MM	R1/4				and the second			
Coiled Hose	Par	t No.	Hose OD	Hose ID						
(DITTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	CH1	/4	1/4"	1/8"	-		-	-	Jung of the second second	
			gth: 8' igth: 6.5"	,			T			
Nylon Hose	Par	t No.	Fitting	Length					ų	
A AND - Brinkling	A-10	738	1/8"	6'						
- Autor	A-12	2549	1/8"	8'				<b>D</b> (		
Kink Resistant H							Part	Port	Pressure	M
	Par	t No.	Hose OD	Hose ID			No.	Size (NPT)	Range	Ope Pres
		H4 H6	4mm	2.4mm			REG	1/8"	7-120 psi	15
		<u>H6</u> 11/4	6mm 1/4"	4mm 0.160"	_		FILREG	1/8"	7-120 psi	

turers lator. The les and captures s used when the e equipped with

**RMB** 

Will fit both REG



# **Pneumatic Crimping Tool**



The TH-2000 starter kit includes a tool stand with foot pedal, VESSEL high-quality air nipper body, hose, and fittings. The swiveling stand can be easily fastened to a surface for quick, precise, and safe crimping.

**NOTE:** Crimping Jaw and Die Set are not included with TH-2000. Please see Crimping Jaw and Die Set Options.

TH-2000 Pneumatic Crimper includes:

Part No.	Description			
GT-NR30	Round Air Nipper Body			
NR30ST	Swivel Air Nipper Stand			
250F-3-10	Foot Pedal Actuator			
A-10738	6 ft. Nylon Braided Air Hose			

Optional model P-30 power booster available

### SIMPLE TO OPERATE! AS EASY AS...

VESSEL



# **Crimping Jaws & Die Sets**

#### **NON-INSULATED Terminals**

Part No.	Part No. Description		
CJ-NT125	J-NT125 Crimping Jaw		
NT125	Replacement Die Set	22-16	
CJ-NT200	Crimping Jaw	16-12	
NT200	Replacement Die Set	10-12	
CJ-NT500	Crimping Jaw	ping Jaw	
NT500	Replacement Die Set	12-10	

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#### **INSULATED Terminals**

Part No.	Description	AWG	
CJ-IT125	Crimping Jaw	22-16	
IT125	Replacement Die Set	22-10	
CJ-IT200	Crimping Jaw	16-12	
IT200	Replacement Die Set	10-12	
CJ-IT500	Crimping Jaw	12-10	
IT500	Replacement Die Set	12-10	
		-	

#### **CLOSED-END INSULATED Connectors**

Part No.	Description	AWG
CJ-CE125	Crimping Jaw	22-16 16-12 12-10
CE125	Replacement Die Set	
CJ-CE200	Crimping Jaw	
CE200	Replacement Die Set	
CJ-CE500	Crimping Jaw	
CE500	Replacement Die Set	
A-13465	Positioning Device	



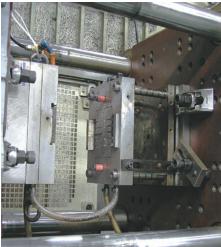


### **SDJ-02R Stat-Buster**

Static electricity causes contamination by dirt or dust. It is generated in molding where strong compression or friction occurs, causing airborne dirt or dust to adhere to the work the moment it is removed from the mold.



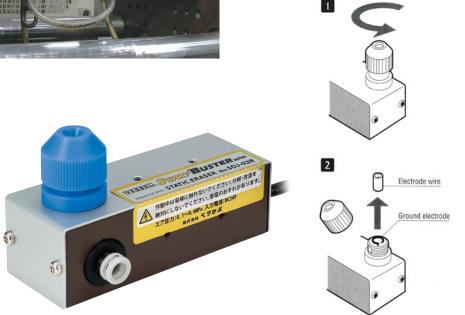
Immediate Static Elimination right after items are removed from an injection mold.

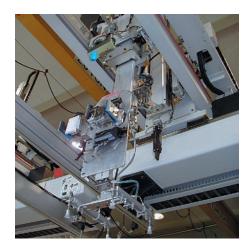


The SDJ-02R is a small, lightweight and handy static electricity eraser that can be installed directly on the chuck plate of the extractor. When the extractor takes a part from the mold and hands it to the conveyor line, the chuck plate holds the work while the SDJ-02R blows ionized air on it, which effectively removes static electricity.

Static electricity can be removed continuously or intermittently during work holding and handling as demanded by the charged condition of the work.

This kind of control normally requires a sequencer or solenoid valve built into the extractor, plus air supply and electric power.





#### Features:

- Super-small and lightweight, the entire unit can be installed on moving part of a robot or the innermost space of an automated machine.
- Designed for safety with built-in discharge parts, high-voltage cable, and high-voltage build-up parts.
- Used 24V DC power supply for safety.
- Can effectively use the molding cycle when installed on the chuck plate of the extractor.
- Products of stable quality can be manufactured by keeping dust and dirt away.
- Easy one-touch replacement of the electrode wire unit.

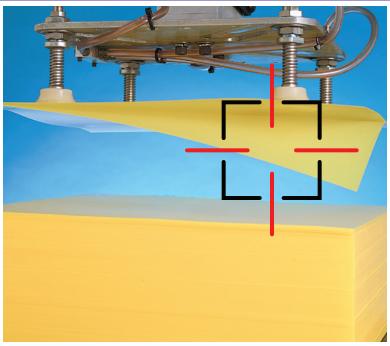
#### **Application:**

Applicable for dust and chip removal from molds and products, static elimination off injection mold, dust-off, improving removal from mold, to assemble with anti-static cleaning and installing into automation machine.

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# SDJ-03R Stat-Buster





During work handling, the film insert laminate is repeatedly contacted and detached by the pickup, causing electrical charge to accumulate on the film.

# Pin-pointed Ion blow for effective static-elimination.

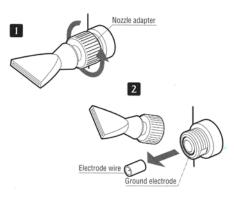
With a flared nozzle, the SDJ-03R can blow ionized air across a wide area. Small and lightweight, the entire unit can be installed near a stocker, grinder, parts feeder, or mold to securely remove static electricity from targeted points. In addition, the SDJ-03R is equipped with heightadjustable fittings and the nozzle can be angled as needed. Therefore, air blow can be easily finetuned to contact a specific area.





#### Features:

- The flared nozzle can blow across a wide area.
- Designed for safety with built-in discharge parts, high-voltage cable, and high-voltage build-up parts.
- Uses a 24V DC power supply for safety.
- Products of stable quality can be manufactured by keeping dust and dirt away.
- Easy one-touch replacement of the electrode wire unit.





#### Application:

Elimination of static charge of resin pellets, inside of hopper containers, stocker and molded parts, plastic crushers, stacked film, IC printcard, Lens assembly lines, vaporized and Fore-process, accumulation in parts feeders, and other static troubles.

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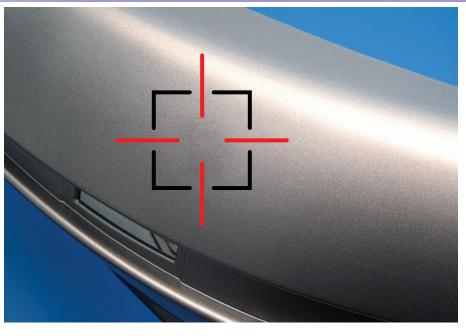
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Uneven colors often occur in coating processes of metallic or pearl-finish surfaces. The reason is that the aluminum flake or pearl mica in the paint is dispersed by static electricity during the coating process. Resultantly, the surface is not consistent or fine.

The SDJ-06R can be used against a wide range of static electricity trouble such as prevention of dust accumulation of items, removal of electric charge and dust from trays, clear dust from molds, or removal of dust before coating. Dirt can be removed by elimination static electricity and dust before shipping. The SDJ-06R is a gun-type static electricity eraser with a flared nozzle that can remove static and dust over a wide area.

Static electricity is generated in molding where strong compression or friction occurs. Then, the moment the mold cools and the work is removed, electricity discharges between the work and molding. The work is charged by this discharge, and if the work is left for a while under this condition, airborne dust will accumulate in an electrified pattern resembling lightning or discs.





Practice static elimination and dust removal before shipping.

**SDJ-06R Stat-Buster** 

#### Features:

- The small and lightweight body incorporates a high-voltage section, which eliminates highvoltage cables and ensures safety.
- Ergonomic grip fits comfortably in user's hand.
- Uses a 4V DC power supply for safety.
- The air hose and electrical wires are concealed by a flexible duct.
- Easy one-touch replacement of the electrode wire unit.

#### Application:

Dust and chip removal from molds and products, pellets, paper and film. Static removal and dust countermeasure for acceptance and assembly of LCDs, ICs, etc. Dust removal for acceptance and assembly of cameras, watches, lenses, etc. Static electricity removal prior to painting of car bodies, and plating of resin products. Preventing dust adherence during packaging, preventing infiltration of foreign matter into cont ainers, countermeasures to trouble caused by static electricity in various industrial fields.

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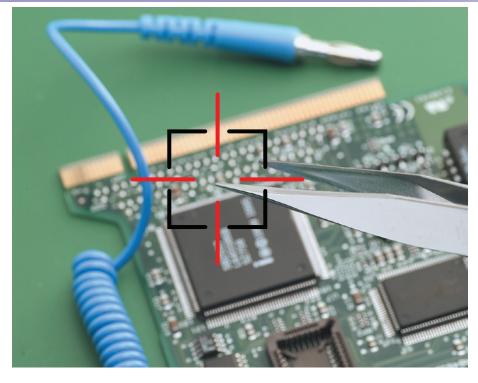
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Nozzle adapte

2

# **SDJ-08S Stat-Buster**





When static electricity generates on a parts tray or workbench for the manufacturing or assembly of electronics parts, electronic components may be destroyed by static electricity.

# Direct an efficient Ionized airflow toward parts placed on a work table

In cell production sites, many parts are placed around the workbench, therefore a large unit would be a stumbling block to smooth operation. Using the attached clip, the SDJ-08S can be installed on the workbench or bracing pole to save space. The SDJ-08S uses a highly reliable voltage transformer to keep ion balance within  $10 \pm V$ .

#### Features:

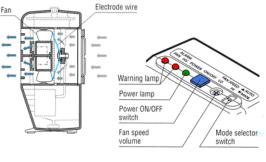
- Small and lightweight resin body weighs only 300g.
- The unit is easily installed by using the attached clip, and blow direction and angle can be easily adjusted.
- By detaching the clip, the SDJ-08S can be installed on an automatic anjuster or set on the top of a desk/workbench.
- The discharge wire is located near the point where the blown air moves at the fastest speed, enabling ions to be effectively transferred far and wide.
- The SDJ-08S is equipped with a warning alarm and external output terminal that transmits troubles like high-voltage or fan failure.
- Unique 100 hour times signals workers with a flashing lamp, indicating necessary discharge needle cleaning.

#### Application:

Static removal for electronic device manufacturing and assembly, test and manufacture equipment, film and packaging separation, static removal in feeders, molding machines. Prevents dust anherance for cameras, watches, lenses, etc., container processing, product conveyance and filling. Ideal for static removal of food packaging, cosmetics, medicing packaging, etc.

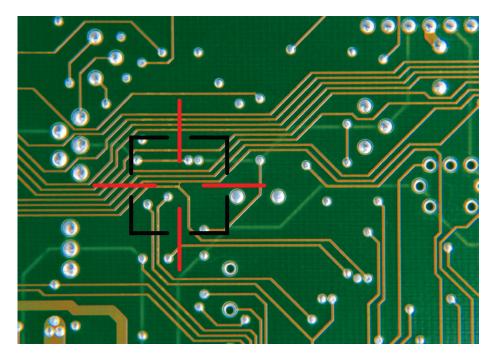






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The functions of the IC and LSI are lost when electrostatic discharge (ESD) is generated toward them because ESD causes short-circuiting and damage to the joint of the semiconductor device, as well as wiring breaks and disconnections, for sensitive devices that can be easily damaged, systematic measures against ESD are required.



5V ion balance to prevent static electricity troubles in advance



#### Features:

- Highly reliable piezoelectric AC transformer
- Because the innovative disk-type discharge plate adopts a capacity coupling method, it can prevent the disruption of ion balance and is ideal for the removal of static electricity from sensitive electronic devices.
- Easy cleaning and replacement of the discharge plate.
- Equipped with a warning lamp that indicates troubles such as high pressure and fan failure.
- Unique 100 hour timer signals workers with a flashing lamp, indicating necessary discharge needle cleaning.

# **SDJ-09 Stat-Buster**

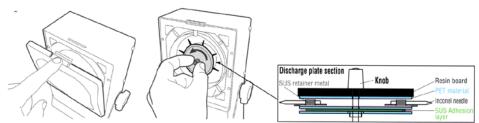


Sensitive parts require a highly efficient static eliminator that can reduce static electricity to almost 0V. If proper maintenance is not done, however, the ion balance is disrupted, causing reverse charging and air pollution.

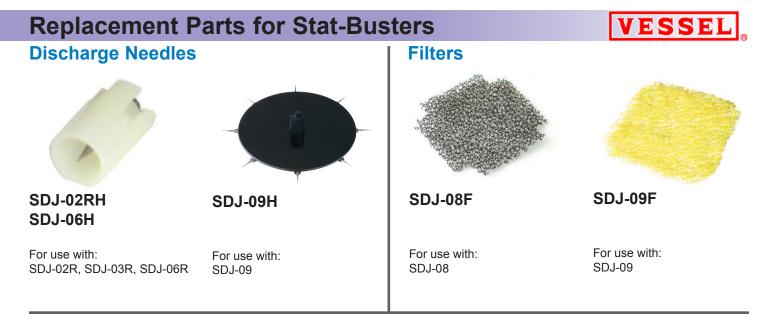
Because the SDJ-09 adopts a capacity coupling method using eight discharging needles, it can generate stable ionic air with an ion balance of  $\pm$  5V. With the help of a 100 hour timer that displays and informs the need for cleaning the needle electrode, the SDJ-09 can establish control standards for needle maintenance.

#### Application:

Static electricity removal for electronic devices manufacturing and assembly workstations, Static electricity removal for manufacturing and assembly of optical devices, watches, precision parts, etc. Static erasure from processing and filling of food containers, film lamination, and peeling of LCD panels. Prevention of adhesive stringing in gluing processes, Static erasure of molded parts on conveyors, dust adherence prevention prior to printing and coating. Static erasure for stockers, winders and Thompson punching and cutting processes for paper, film, and sheet. Static erasure of oscillating parts loaded into parts feeders.



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**Pin Spot Nozzle** 



For use with: SDJ-02R, SDJ-03R, SDJ-06R

### Flare Nozzle



SDJ-03FN

For use with: SDJ-02R, SDJ-03R, SDJ-06R Cap Nozzle



For use with: SDJ-02R, SDJ-03R, SDJ-06R

### **Power Adapters**



AD24-06 AD24-06EX



AD24-08 AD24-08EX



AD24-09EX

	AD24-06	AD24-06EX	AD24-08	AD24-08EX	AD24-09EX
Rated Input Voltage	100V AC (50/60Hz)	100-240V AC (50/60Hz)	100-120V AC (50/60Hz)	100-240V AC (50/60Hz)	100-240V AC (50/60Hz)
	19VA	1.3A	40VA	0.4A	0.4A
Rated Output Voltage	24V DC	24V DC	24V DC	24V DC	24V DC
	0.3A	0.5A	0.65A	0.65A	0.75A
Applicable for	SDJ-06R	SDJ-06R	SDJ-03R SDJ-08 SDJ-09	SDJ-03R SDJ-08 SDJ-09	SDJ-03R SDJ-08 SDJ-09



# VESSEL

### **SDL-01 Static Locator**

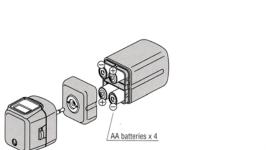
Frictional electrification is caused when a resin mold product is removed from the mold. The generation of this strong static electricity draws airborne dust to the product.





The locator is indispensable towards resolving "invisible static electricity trouble" The SDL-01 checks the charged state of products or packaging materials, the positions of static electricity removers, and confirms the removal of static electricity from the product.

# Unseen static electricty is displayed for easy detection



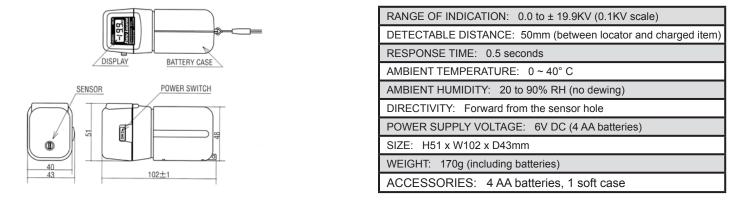


#### Features:

- The potential of charged item is digitally indicated without making contact. Invisible static electricity can be easily measured.
- Voltage is measured and indicated in units of 100V in a range from -19.9 to + 19.9KV every 0.5 seconds.
- Handy, portable, small and lightweight unit. Includes a storage case.
- Low power consumption. Can be used with 4AA batteries for about 6 months.

#### **Application:**

Checking resin molding, film, paper, packing containers, coated sheet metal surfaces, and testing the effect of static electricity removal.



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