

Standard Pneumatic

A Division of JDV Products Inc.



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Certified Woman Owned Small Business

120V Electric Wire Wrapping & Unwrapping Tools

- Fast Operation
- Ergonomically Designed
- Lightweight Lexan Housing
- Unique Positive Indexing Mechanism
- Standard 20 Foot Power Cord
- Two and Three Wire Version
- 90 Day Warranty



The 120 Volt 6000 series electric wire wrapping and unwrapping tools have been designed for production and field service operations where wire sizes 18 to 32 AWG are used. The lightweight Lexan housing and the design of the handle greatly reduce problems normally experienced in repetitive motion injuries, such as carpal tunnel syndrome. All our wire wrapping tools have a geared drive, a positive indexing mechanism, and a quality electric motor which requires no maintenance. The 6000 series comes with a light-pull trigger, a high speed motor (4000 rpm), and a standard 20 foot power cord for optimum usage range from an electrical outlet. For the inexperienced operator, we offer the anti-back force version (ABF) of the tool. The ABF version is designed so that, when the operator pulls the trigger, the bit retracts inside the sleeve, causing a symmetrical wrap to be achieved on the post. The ABF tools are used mostly for training and for the customers who use the tool so infrequently that they do not remember the technique. All the electric wire wrapping tools are designed, developed, and manufactured in our ISO approved plant.

ACCESSORIES

See pages 6-8 to find a complete list of wire wrapping bits and sleeves including Cut, Strip & Wrap bit/sleeve or manual wire wrapping tools or manual unwrapping tools.

SPECIFICATIONS

PART NO.	VOLTAGE	TYPE	CORD	FREE SPEED (RPM)	WEIGHT	
					oz	kg
WRAPPING						
SP 6021	115	STANDARD	3W	4000	12	0.34
SP 6022	115	ABF	3W	4000	12	0.34
UNWRAPPING						
SP 6024	115	N/A	3W	1000	15	0.43

UNWRAPPING BITS FO ELECTRIC TOOLS

PART NO.	WIRE SIZE	TERM HOLE DIAMETER		TERM HOLE DEPTH		BIT O.D.	
		in	mm	in	mm	in	mm
SP 66692	20-26 AWG	0.070	1.78	1.0	25.4	1.125	3.18
SP 66693	26-32 AWG	0.040	1.02	1.0	25.4	0.093	2.36



Part No. 66692 & 66693

220V & 48V Electric Wire Wrapping & Unwrapping Tools

- Fast Operation
- Ergonomically Designed
- Lightweight Lexan Housing
- Unique Positive Indexing Mechanism
- Standard 20 Foot Power Cord
- TUV/VDE Approved with CE Marking
- 90 Day Warranty



The 48 and 220 Volt 6000 series electric wire wrapping and unwrapping tools have been designed for production and field service applications where wire sizes from 18 to 32 AWG are used. The lightweight Lexan housing and the design of the handle greatly reduce the problems normally experienced in repetitive motion injuries, such as carpal tunnel syndrome. All our tools have a geared drive, a positive indexing mechanism, and a quality electric motor which requires no maintenance. The 6000 series comes with a light-pull trigger, a high speed motor (4000 rpm), and a standard 20 foot power cord for optimum usage range from an electrical outlet. Our Models SP 6311, SP 6312, and SP 6314 are all TUV/VDE approved and carry the CE marking. For the inexperienced operator, we offer an anti-backforce (ABF) version of the tool. The ABF version is designed for the bit to retract inside the sleeve when the operator pulls the trigger, causing a symmetrical wrap to be achieved on the post. The ABF tools are mostly used for training and for the customers who uses the tool so infrequently that they do not remember the technique. All the electric wire wrapping tools are designed, developed, and manufactured in our ISO approved plant.

ACCESSORIES

See pages 6-8 to find a complete list of wire wrapping bits and sleeves including Cut, Strip & Wrap bit/sleeve or manual wire wrapping tools or manual unwrapping tools.

SPECIFICATIONS

PART NO.	VOLTAGE	TYPE	CORD	FREE SPEED (RPM)	WEIGHT	
					oz	kg
WRAPPING						
SP 6081	48	STANDARD	2W	4000	12	0.34
SP 6082	48	ABF	2W	4000	12	0.34
SP 6311*	220	STANDARD	2W	4000	15	0.43
SP 6312*	220	ABF	2W	4000	15	0.43
UNWRAPPING						
SP 6084	48	N/A	2W	1000	12	0.34
SP 6314*	220	N/A	2W	4000	15	0.43

UNWRAPPING BITS FOR ELECTRIC TOOLS

PART NO.	WIRE SIZE	TERM HOLE DIAMETER		TERM HOLE DEPTH		BIT O.D.	
		in	mm	in	mm	in	mm
SP 66692	20-26 AWG	0.070	1.78	1.0	25.4	1.125	3.18
SP 66693	26-32 AWG	0.040	1.02	1.0	25.4	0.093	2.36



Part No. 66692 & 66693

Pneumatic Wire Wrapping Tools

- Lightweight Tool
- Low Air Consumption
- Unique Indexing Mechanism
- Glass-Filled Nylon Housing
- 90 psig Air Pressure
- 90 Day Warranty



Models SP 6001 and SP 6002 are designed for mass production and aircraft maintenance applications. Both models are manufactured from a lightweight, high impact resistant, glass-filled nylon. These tools are lightweight, well balanced, and built to handle the rigors of everyday manufacturing requirements. The handle design reduces operator fatigue, and the high speed (4500 rpm) motor produces fast, efficient wraps for 18 to 32 awg wire sizes. The tools are available in standard and anti-backforce (ABF) versions. These models are designed, developed, and manufactured in our ISO approved plant.

ACCESSORIES

Wire Wrapping Bits and Sleeves see pages 6-7
 CSW (Cut/Strip/Wrap) Bits see page 8
 Cut/Strip Tool Attachment see below

SPECIFICATIONS

PART NO.	TYPE	FREE SPEED (RPM)	WEIGHT	
			oz	kg
WRAPPING				
SP 6001	STANDARD	4500	9.0	0.26
SP 6002	ABF	4500	9.5	0.27

HOSE PART NO.	LENGTH	I.D.	THREAD CONNECTION
AIR HOSES*			
SP 3406	6'	3/16"	1/8" Male NPT
SP 3606	6'	1/4"	1/8" Male NPT

* Air Hoses: A high quality hose, constructed of single braid Neoprene, is available by calling our Sales Office.

Cut & Strip Tool Attachment

The Model 650 is designed to be attached to our 6021, 620 and 6001, plus any of the models in between. The Model SP 650 allows the operator to cut to length and strip the wire in one simple operation. The length of the wire to be cut is adjustable. Different gauge stripping blades can be interchanged quickly and easily. Model SP 654 is a modified version of Model SP 650, except that Model SP 654 only cuts the wire. Model SP 654 is generally used by operators who are using CSW and need only to cut the wire; it does not strip the wire.



STRIPPING BLADES

WIRE SIZE	PART NO.	WIRE SIZE	PART NO.
20 AWG	64520	28 AWG	SP 64528
22 AWG	64522	30 AWG	SP 64530
24 AWG	64524	22-24 AWG	SP 64533
26 AWG	64526		

Battery Wire Wrapping & Unwrapping Tools

- Heavy Duty
- Ergonomically Designed
- Lightweight
- Unique Indexing Mechanism
- Durable Lexan Housing
- 90 Day Warranty



The battery wire wrapping tool is designed for field service applications, R&D departments, and for operation in remote service areas. The operator simply recharges the Ni-Cad, 'C' size batteries using the supplied charger for about 1000 wire wraps. If the charger is left plugged in, the battery gun will run indefinitely. When the operator needs to unwrap, simply reverse the batteries and install an unwrapping bit and sleeve. The unique feature of our battery wire wrap gun allows operators to use two alkaline 'C' batteries if they forget to recharge the Ni-Cad batteries. These lightweight tools are designed to be used to wrap wire sizes 24 to 32 awg. The anti-backforce (ABF) model is designed for 28 to 30 awg wire for the operator who is inexperienced in the technique of wire wrapping. These tools are designed, developed, and manufactured in our ISO approved plant.

ACCESSORIES

See pages 6-8 to find a complete list of wire wrapping bits and sleeves including Cut, Strip & Wrap bit/sleeve or manual wire wrapping tools or manual unwrapping tools.

SPECIFICATIONS

PART NO.	TYPE	FREE SPEED (RPM)	WEIGHT	
			oz	kg
BATTERY WIRE WRAPPING & UNWRAPPING TOOL				
SP 620	Standard Battery Gun/115V Tool, 2 Batteries, Charger	2200	22	0.62
SP 622	Standard Battery Gun/220V Charger	2200	22	0.62
SP 6201	ABF Battery Gun/115V Charger	2200	22.5	0.64
SP 6202	Battery Wire Wrap Gun (No Charger)	2200	14	0.40
SP 6203	ABF Battery Wire Wrap Gun (No Charger)	2200	14.5	0.41
SP 6210	115V Recharger	N/A	8	0.23
SP 6211	NiCad Rechargeable Battery	N/A	5	0.14
SP 6212	120V Recharger	N/A	8	0.23



115V Recharger
SP 6210



NiCad Rechargeable Battery
SP 6210

UNWRAPPING BITS FOR BATTERY TOOLS

UNWRAPPING BIT	SUPPORT SLEEVE	WIRE SIZE	UNWRAPPING DIRECTION	TERM HOLE DIAMETER		TERM HOLE DEPTH	
				in	mm	in	mm
UNWRAPPING BITS*							
SP 62094	62091	20-26 AWG	Left-Hand	0.070	1.78	1.0	25.4
SP 62093	62091	26-32 AWG	Left-Hand	0.040	1.02	1.0	25.4



*Positive Stop Unwrap Bits: A wire inserted into a pre-drilled cross hole in the bit prevents the tips from bottoming on the terminal shoulder or the surface holding it. This extends the life of the unwrap bit.

Wire Wrapping Bits

Standard Pneumatic is the leader in wire wrapping bits and sleeves for every application. They are long lasting and designed to provide high quality connections. Many additional or special designs can be supplied on request to meet particular requirements.



TYPES OF WRAP AVAILABLE

(S) Standard Wrap

Only the bare wire is wrapped around the terminal.



(M) Modified Wrap

The first one-half to two turns are made with insulation wrapped around the terminal. These turns are in addition to the recommended turns of bare wire. This process increases the ability of the connection to withstand vibration and reduces wire breakage.



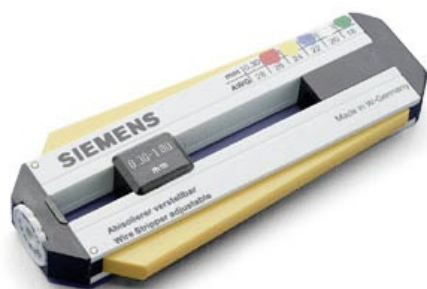
WIRE SIZE AWG	BIT PART NO.	BIT TYPE	TERMINAL HOLE DIAMETER		TERMINAL HOLE DEPTH		MAXIMUM INSULATION DIA. (MOD)		RECOMMENDED TERMINAL DIAGONAL MIN-----MAX				BIT RADIUS		SLEEVES PART NO. SERIES
			in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
18	51810	S	0.073	1.85	1.000	25.4			0.055	1.40	0.070	1.78	0.116	2.95	600XX
18	51820	M	0.073	1.85	1.000	25.4	0.07	1.78	0.055	1.40	0.070	1.78	0.125	3.18	600XX
20	52010	S	0.073	1.85	1.000	25.4			0.055	1.40	0.070	1.78	0.103	3.62	
20	52020	M	0.073	1.85	1.000	25.4	0.06	1.49	0.055	1.40	0.070	1.78	0.119	3.02	600XX
22	52210	S	0.073	1.85	1.000	25.4			0.055	1.40	0.070	1.78	0.093	2.36	601XX
22	52222	M	0.073	1.85	1.000	25.4	0.05	1.32	0.055	1.40	0.070	1.78	0.108	2.74	601XX
22-24	52310	S	0.073	1.85	1.000	25.4			0.055	1.40	0.070	1.78	0.090	2.29	601XX
22-24	52315	S	0.073	1.85	1.000	25.4			0.055	1.40	0.070	1.78	0.093	3.62	60105
22-24	52320	M	0.073	1.85	1.000	25.4	0.05	1.27	0.055	1.40	0.070	1.78	0.108	2.74	601XX
24	52410	S	0.089	2.26	1.000	25.4			0.070	1.78	0.086	2.18	0.094	2.39	600XX
24	52418	S	0.073	1.85	1.500	38.1			0.055	1.40	0.070	1.78	0.083	2.11	602XX
24	52419	S	0.073	1.85	1.500	38.1			0.055	1.40	0.070	1.78	0.087	2.21	602XX
24	52420	M	0.073	1.85	1.000	25.4	0.05	1.16	0.055	1.40	0.070	1.78	0.096	2.44	602XX
24	52424	M	0.043	1.09	1.000	25.4	0.04	1.11	0.038	0.96	0.042	1.06	0.080	2.03	604XX
24	52425	M	0.067	1.70	1.000	25.4	0.04	1.07	0.049	1.25	0.064	1.63	0.085	2.16	602XX
24-26	52510	S	0.073	1.85	1.000	25.4			0.055	1.40	0.070	1.78	0.084	2.13	601XX
24-26	52521	M	0.073	1.85	1.000	25.4	0.05	1.22	0.055	1.40	0.070	1.78	0.100	2.54	601XX
26	52610	S	0.073	1.85	1.000	25.4			0.055	1.40	0.070	1.78	0.078	1.98	602XX
26	52614	S	0.040	1.02	0.640	16.2			0.030	0.76	0.037	0.94	0.052	1.32	603XX
26	52621	M	0.073	1.85	1.000	25.4	0.04	0.96	0.055	1.40	0.070	1.78	0.089	2.26	602XX
26	52624	M	0.040	1.02	0.640	16.2	0.03	0.81	0.030	0.76	0.037	0.94	0.057	1.45	603XX
26	52630	M	0.037	0.94	0.640	16.2	0.05	1.19	0.032	0.81	0.036	0.91	0.081	2.06	604XX
28	52810	S	0.040	1.02	0.640	16.2			0.030	0.76	0.037	0.94	0.050	1.27	603XX
28	52822	M	0.040	1.02	0.640	16.2	0.03	0.81	0.030	0.76	0.037	0.94	0.057	1.45	603XX
30-32	53110	S	0.040	1.02	0.640	16.2			0.033	0.83	0.039	0.99	0.047	1.19	603XX
30-32	53120	M	0.041	1.04	0.640	16.2	0.03	0.69	0.034	0.86	0.040	1.02	0.056	1.42	603XX
30-32	53121	M	0.062	1.60	0.640	16.2	0.03	0.96	0.059	1.50	0.062	1.57	0.078	1.98	602XX
30-32	53124	M	0.035	0.89	0.640	16.2	0.02	0.58	0.031	0.79	0.034	0.86	0.049	1.24	603XX
30-32	53126	M	0.038	0.96	0.640	16.2	0.02	0.58	0.033	0.83	0.037	0.94	0.050	1.27	603XX
30-32	53127	M	0.029	0.74	0.640	16.2	0.02	0.58	0.025	0.64	0.028	0.67	0.047	1.19	603XX
30-32	53129	M	0.040	1.02	0.640	16.2	0.02	0.58	0.033	0.83	0.039	0.99	0.051	1.30	603XX
30-32	53140	M*	0.035	0.89	0.640	16.2	0.03	0.69	0.031	0.79	0.034	0.86	0.051	1.30	603XX
30-32	53141	M	0.043	1.09	0.640	16.2	0.03	0.69	0.036	0.91	0.042	1.07	0.060	1.52	603XX

Wire Wrapping Sleeves



Order to Match Bits on Adjacent page

SLEEVE SERIES	PART NO.	SLEEVE THICKNESS		WALL I.D.		NOTCH WIDTH		NOTCH DEPTH		DESCRIPTION
		in	mm	in	mm	in	mm	in	mm	
600XX	SP 6000	0.028	0.71	0.194	4.93	0.078	1.98	0.055	1.40	Funnel
	SP 60100	0.023	0.58	0.171	4.29	0.062	1.57	0.050	1.27	Funnel
	SP 60105	0.023	0.58	0.171	4.29	0.062	1.57	0.045	1.14	Funnel - Bit No. 52315
	SP 60110	0.023	0.58	0.171	4.29	0.062	1.57	0.050	1.27	No Funnel
	SP 60120	0.033	0.84	0.171	4.29	0.062	1.57	0.045	1.14	Funnel - Gray Insulation
	SP 60141	0.016	0.41	0.171	4.29	0.062	1.57	0.050	1.27	No Funnel - 3/4" Slim Nose
602XX	SP 60200	0.021	0.94	0.159	4.06	0.062	1.57	0.050	1.27	Funnel
	SP 60210	0.021	0.94	0.159	4.06	0.062	1.57	0.050	1.27	No Funnel
	SP 60240	0.015	0.38	0.159	4.06	0.062	1.57	0.050	1.27	No Funnel - 3/4" Slim Nose
603XX	SP 60340	0.027	0.69	0.096	2.44	0.033	0.84	0.024	0.61	No Funnel - 3/4" Slim Nose
	SP 60341	0.013	0.33	0.096	2.44	0.033	0.84	0.024	0.61	No Funnel - 3/4" Slim Nose
	SP 60343	0.014	0.36	0.096	2.44	0.033	0.84	0.024	0.61	No Funnel - 1-3/8" Slim Nose
604XX	SP 60440	0.017	0.43	0.127	3.23	0.044	1.12	0.045	1.14	No Funnel - 3/4" Slim Nose



Wire Stripper

SP 61828 - Hand wire stripping tool for 18 through 28 AWG wire

Wire

All of our bits and sleeves will perform well with most manufacturers' wire. For best results, we do, however, recommend the use of Kynar wire. The following sizes and colors are available in 1000 ft.(300 m) rolls from Standard Pneumatic:



WIRE SIZE AWG	PART NUMBER			
	Blue	White	Red	Yellow
26	SP 91161	SP 91162	SP 91163	SP 91164
28	SP 91181	SP 91182	SP 91183	SP 91184
30	SP 91101	SP 91102	SP 91103	SP 91104

(CSW) Cut, Strip, Wrap

Standard Pneumatic is the recognized leader in wire wrapping products, and our bits and sleeves are used throughout the telecommunication and electronic industries. Our Cut, Strip and Wrap Bits are designed to cut the insulated copper wire to length, strip free the necessary length of insulation, and wrap the correct number of wire loops around the terminal pin. They perform these three functions in a rotating operation, and can be used with a pneumatic, electric, or battery-powered wire wrapping tool. CSW's cannot be used with ABF style tools. The cutting and stripping blades are hardened to ensure long life, and can be used for either right or left handed operation. Please contact our factory to arrange for a demonstration or to discuss any special application with our trained personnel.



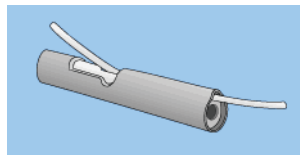
WIRE SIZE AWG	PART NO. BIT/SLEEVE	WIRE DIAMETER		TERMINAL HOLE DIA.		MIN. TERMINAL SPACING		A DIAMETER		NUMBER OF INSULATED LOOPS
		in	mm	in	mm	in	mm	in	mm	
22	SP 79222	0.046-0.050	1.17-1.27	0.07	1.78	0.19	4.83	0.25	6.35	3/4
22	SP 79223	0.050-0.054	1.27-1.37	0.07	1.78	0.19	4.83	0.25	6.35	3/4
22	SP 79224	0.054-0.058	1.37-1.47	0.07	1.78	0.20	5.08	0.25	6.35	3/4
24	SP 79241	0.028-0.032	0.71-0.81	0.07	1.78	0.16	4.06	0.21	5.30	3/4
24	SP 79242	0.032-0.036	0.81-0.91	0.07	1.78	0.16	4.06	0.21	5.33	3/4
24	SP 79243	0.036-0.040	0.91-1.02	0.07	1.78	0.16	4.06	0.21	5.33	3/4
24	SP 79244	0.040-0.044	1.02-1.12	0.07	1.78	0.17	4.32	0.21	5.33	3/4
24	SP 79245	0.044-0.048	1.12-1.22	0.07	1.78	0.17	4.32	0.21	5.33	3/4
26	SP 79261	0.022-0.026	0.56-0.66	0.07	1.78	0.16	4.06	0.21	5.33	3/4
26	SP 79262	0.026-0.030	0.66-0.76	0.07	1.78	0.16	4.06	0.21	5.33	3/4
26	SP 79263	0.030-0.034	0.76-0.86	0.07	1.78	0.16	4.06	0.21	5.33	3/4
26	SP 79266	0.025-0.029	0.64-0.74	0.04	1.09	0.11	2.85	0.15	3.71	3/4
26	SP 79267	0.030-0.034	0.76-0.86	0.04	1.09	0.11	2.85	0.15	3.71	3/4
28	SP 79281	0.022-0.025	0.56-0.64	0.04	0.97	0.10	2.59	0.13	3.30	3/4
30	SP 79301	0.019-0.021	0.48-0.53	0.04	0.97	0.10	2.54	0.13	3.30	3/4
30	SP 79302	0.019-0.022	0.48-0.55	0.04	0.97	0.10	2.54	0.13	3.30	3/4

Do you require a Special bit, sleeve, or CSW?

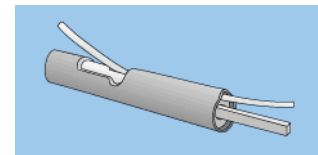
If so, please contact JDV Products for a quote.

Bits and sleeves are sold as a matched and qualified set. Should a Bit or Sleeve become unservicable, it is recommended that the set be returned to the factory. For a nominal charge, a new Bit or Sleeve will be mated to the servicable part and the new set will be requalified.

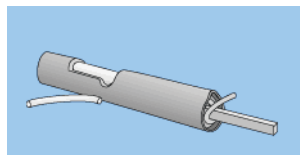
Four Steps to a CSW Wire Wrapped Connection



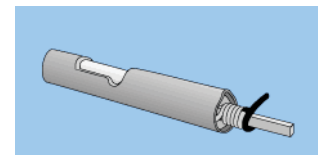
1. Insulated wire is inserted into bit and sleeve



2. Tool is placed over terminal to be wrapped



3. Excess wire is cut off as tool starts to wrap



4. Insulation and wire wrapping are simultaneous

Manual Wire Wrapping Tools

These hand wire wrapping tools are available for wire gauges of 18 through 32 AWG. All the hand wrapping tools have been designed for low volume production applications, service, and repair work. The round black handle is manufactured from a very durable black ABS plastic, while the wrapping bit is made from a harder carbon steel. These tools are designed to give the operator long life with minimal problems.



WIRE SIZE AWG	PART NO.	BIT TYPE	TERMINAL HOLE DIA.		TERMINAL HOLE DEPTH		MAXIMUM INSULATION DIA.		TERMINAL DIAGONAL (MIN-MAX)				BIT RADIUS W/SLEEVE	
			in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
18	SP 41810	S	0.073	1.85	1.000	25.40			0.055	1.40	0.070	1.78	0.148	3.76
18	SP 41820	M	0.073	1.85	1.000	25.40	0.070	1.78	0.055	1.40	0.070	1.78	0.157	3.99
20	SP 42010	S	0.073	1.85	1.000	25.40			0.055	1.40	0.070	1.78	0.014	3.43
20	SP 42020	M	0.073	1.85	1.000	25.40	0.059	1.49	0.055	1.40	0.070	1.78	0.014	3.84
22	SP 42210	S	0.073	1.85	1.000	25.40			0.055	1.40	0.070	1.78	0.121	3.07
22	SP 42222	M	0.073	1.85	1.000	25.40	0.052	1.32	0.055	1.40	0.070	1.78	0.136	3.45
22-24	SP 42310	S	0.073	1.85	1.000	25.40			0.055	1.40	0.070	1.78	0.118	3.00
22-24	SP 42320	M	0.073	1.85	1.000	25.40	0.050	1.27	0.055	1.40	0.070	1.78	0.136	3.45
22-24	SP 42351*	S	0.073	1.85	1.000	25.40	0.050	1.27	0.055	1.40	0.070	1.78	0.116	2.95
22-24	SP 42361*	M	0.073	1.85	1.000	25.40	0.050	1.27	0.055	1.40	0.070	1.78	0.134	3.40
24	SP 42410	S	0.089	2.26	1.000	25.40			0.070	1.78	0.086	2.18	0.126	3.20
24	SP 42420	M	0.073	1.85	1.000	25.40	0.046	1.16	0.055	1.40	0.070	1.78	0.112	2.84
24	SP 42424	M	0.043	1.09	1.000	25.40	0.044	1.12	0.038	0.97	0.042	1.07	0.096	2.44
24	SP 42425	M	0.067	1.70	1.000	25.40	0.042	1.07	0.049	1.24	0.064	1.63	0.101	2.57
24-26	SP 42510	S	0.073	1.85	1.000	25.40			0.055	1.40	0.070	1.78	0.112	2.84
24-26	SP 42521	M	0.073	1.85	1.000	25.40	0.048	1.22	0.055	1.40	0.070	1.78	0.128	3.25
24-26	SP 42551*	S	0.073	1.85	1.000	25.40	0.050	1.27	0.055	1.40	0.070	1.78	0.110	2.79
24-26	SP 42561*	M	0.073	1.85	1.000	25.40	0.048	1.22	0.055	1.40	0.070	1.78	0.126	3.20
26	SP 42510	S	0.073	1.85	1.000	25.40			0.055	1.40	0.070	1.78	0.094	2.39
26	SP 42614	S	0.040	1.02	0.640	16.20			0.030	0.76	0.037	0.94	0.068	1.73
26	SP 42621	M	0.073	1.85	1.000	25.40	0.038	0.97	0.055	1.40	0.070	1.78	0.105	2.67
26	SP 42624	M	0.040	1.02	0.640	16.20	0.032	0.81	0.030	0.76	0.037	0.94	0.073	1.85
26	SP 42630	M	0.037	0.94	0.640	16.20	0.047	1.19	0.032	0.81	0.036	0.91	0.097	2.46
28	SP 42810	S	0.040	1.02	0.640	16.20			0.030	0.76	0.037	0.94	0.066	1.68
28	SP 42822	M	0.040	1.02	0.640	16.20	0.032	0.81	0.030	0.76	0.037	0.94	0.073	1.85
28-30	SP 42961*	M	0.041	1.04	0.640	16.20	0.027	0.69	0.034	0.04	0.040	1.07	0.072	1.83
30-32	SP 43110	S	0.040	1.02	0.640	16.20			0.033	0.83	0.039	0.99	0.063	1.60
30-32	SP 43120	M	0.041	1.04	0.640	16.20	0.027	0.69	0.034	0.86	0.040	1.02	0.072	1.83
30-32	SP 43121	M	0.063	1.60	0.640	16.20	0.027	0.69	0.059	1.50	0.062	1.57	0.094	2.39
30-32	SP 43124	M	0.035	0.89	0.640	16.20	0.023	0.58	0.031	0.79	0.034	0.86	0.065	1.65
30-32	SP 43126	M	0.038	0.97	0.640	16.20	0.023	0.58	0.033	0.84	0.037	0.94	0.066	1.68
30-32	SP 43127	M	0.029	0.74	0.660	16.80	0.023	0.58	0.025	0.64	0.028	0.71	0.063	1.60
30-32	SP 43129	M	0.040	1.02	0.640	16.20	0.023	0.58	0.033	0.84	0.039	0.99	0.067	1.70
30-32	SP 43140	M1/2**	0.035	0.89	0.640	16.20	0.027	0.69	0.031	0.79	0.034	0.86	0.067	1.70
30-32	SP 43141	M	0.043	1.09	0.640	16.20	0.027	0.69	0.036	0.91	0.042	1.07	0.076	1.93

* Greater than 1-1/2 turns of insulation

Manual Wire Unwrapping Tools

These hand wire unwrapping tools are available for gauges 20 through 32 AWG. We offer four types of hand unwrapping tools depending on customer requirements. Type A allows the operator to unwrap the wire within the unwrapping sleeve without exposing the bare wire to any other contacts. Type B is similar to type A, except it is bi-directional; it still retains the wire inside the unwrapping sleeve. Type C allows the operator to unwrap the wire in one direction only and the wire will spiral out and away from the pin. Type D is similar to type C except that it will handle both unwrapping directions. Type C and TYPE D are our least expensive and most popular hand unwrapping tools.



TYPE A

SP 679 - SP 682

These tools have a spring loaded insulated sleeve for ease of wire pick-up and removal of close connections without damaging the terminal or adjacent connections.



TYPE B

SP 684

This tool is designed to unwrap tight matrices where a slim profile is required. Unwrapping can be done in either direction, with the wire being retained in the sleeve and removed from the pin.



TYPE C

SP 690 & SP 691

This tool has a spiral design to give clear visibility and to allow delicate operator control in one direction only.



TYPE D

SP 692 & SP 693

This tool has a spiral at both ends which allows unwrapping in either direction with clear visibility and also allow delicate operator control.

PART NO.	TYPE	WIRE SIZE AWG	UNWRAPPING DIRECTION	TERM HOLE DIA.		TERM HOLE DEPTH		OUTSIDE DIA.	
				in	mm	in	mm	in	mm
SP 679	A	20-26	Left Hand	0.07	1.78	1.20	30.50	0.200	5.08
SP 680	A	20-26	Left or Right Hand	0.07	1.78	1.20	30.50	0.200	5.08
SP 681	A	28-32	Left Hand	0.04	1.02	0.75	19.00	0.140	3.56
SP 682	A	28-32	Left or Right Hand	0.04	1.02	0.75	19.00	0.140	3.56
SP 684	B	28-32	Left or Right Hand	0.04	1.02	0.63	16.00	0.095	2.41
SP 690	C	20-26	Left Hand	0.07	1.78	1.00	25.40	0.125	3.18
SP 691	C	26-32	Left Hand	0.04	1.02	0.75	19.00	0.088	2.24
SP 692	D	20-26	Left or Right Hand	0.07	1.78	1.00	25.40	0.125	3.18
SP 693	D	26-32	Left or Right Hand	0.04	1.02	0.75	19.00	0.088	2.24

Cushion Clutches

Models 3480 & 3490

- 1/4" Female hex
- Adjustable Torque Setting



2300 Series Air Motors

The 2300 Series will operate in most corrosive and contaminated environments. They operate continuously, without overheating, on air, nitrogen, CO2 and any other gases that are supplied from plant air systems, portable compressors, or tanks.

Ideal for dental and medical industries, used on conveyor belts for adjusting heights, and installed in robotic assemblies to be used as drills or screwdrivers

- Lightweight
- Compact Design
- Reliable from 20 - 150 PSIG
- Solid Steel Construction
- Can be Stalled Repeatedly
- Rotary Vane Air Motor
- One Year Warranty



PART NO.	SPEED RPM	WEIGHT		LENGTH		WIDTH		HORSEPOWER
		oz	kg	in	mm	in	mm	
SP 2322	22,000	3.6	0.10	2.19	55.63	0.75	19.05	1/25 (29.83 Watts)
SP 2356	5,600	3.9	0.11	2.47	62.74	0.75	19.05	1/25 (29.83 Watts)
SP 2314	1,400	4.9	0.14	3.15	80.00	0.75	19.05	1/25 (29.83 Watts)
SP 2303	350	5.8	0.16	3.83	97.28	0.75	19.05	1/25 (29.83 Watts)

* Please contact JDV for detailed drawings and additional specifications

4300 Series Air Motors

The 4300 Series has all the same features as the 2300 Series but is contained in a sturdier design to handle more difficult requirements. Designed for long and trouble-free performance when installed and maintained properly.

- Lightweight
- Compact Design
- Reliable from 20 - 150 PSIG
- Solid Steel Construction
- Can be Stalled Repeatedly
- Rotary Vane Air Motor
- One Year Warranty



PART NO.	SPEED RPM	WEIGHT		LENGTH		WIDTH		HORSEPOWER
		oz	kg	in	mm	in	mm	
SP 4317	17,000	11	0.31	2.59	66	1.115	28.32	1/8 (93.21 Watts)
SP 4340	4,200	14	0.39	4.34	110	1.115	28.32	1/8 (93.21 Watts)
SP 4324	2,400	14	0.39	4.34	110	1.115	28.32	1/8 (93.21 Watts)
SP 4310	1,050	17	0.48	5.12	130	1.115	28.32	1/8 (93.21 Watts)
SP 4306	600	17	0.48	5.12	130	1.115	28.32	1/8 (93.21 Watts)
SP 4302	260	20	0.56	6.03	153	1.115	28.32	1/8 (93.21 Watts)

* Please contact JDV for detailed drawings and additional specifications

PNEUMATIC SCREWDRIVERS & NUTRUNNERS

The 2000 and 8000 series screwdrivers and nutrunners are designed for low torque assemblies where a low of 8 in-oz up to 40 in-lbs. are required. We offer push start and lever start with auto shut-off clutch as well as lever start with cushion clutch. All the tools meet our ISO requirements for quality and any tool set at the factory will receive a Certification of Calibration, which is N.I.S.T. traceable

2400 Series Screwdriver



Lever Start
Cushion Clutch

2500 Series Screwdriver



Lever Start
Auto Shut Off Clutch

2600 Series Screwdriver



Auto Start
Auto Shut Off Clutch

8300 Series Screwdriver



Pistol Grip
Auto Shut Off Clutch

8400 Series Screwdriver



Lever Start
Cushion Clutch

8600 Series Screwdriver



Puch Start
Auto Shut Off Clutch

2700 Series Nutrunner Right Angle



Lever Start
Cushion Clutch

2800 Series Nutrunner Right Angle



Lever Start
Auto Shut Off Clutch

8700 Series Nutrunner Right Angle



Lever Start
Cushion Clutch

Bits & Finders



See Pages 18-19

**PLEASE CONTACT JDV PRODUCTS FOR MORE INFORMATION ON
PNEUMATIC SCREWDRIVERS AND NUTRUNNERS**

- Easy to Use
- Bi-Directional
- Easily Adjustable
- One Year Warranty

± 5% Accuracy



The 4730 & 4740 Series

Perfect for the engineer who is trying to determine the correct torque values for assembly or prototype work. The maintenance and service departments find these tools essential in their everyday jobs of repairing and servicing.

Designed for the customer who desires a manual torque tool, which is adjusted externally with an overall accuracy of +/-5%.

Equipped with a bi-directional, ball-type clutch mechanism with a working range of 20-120 in. oz (0.15-0.9Nm) or 5-50 in. lb. (1.0-6.0Nm).

± 3% Accuracy

The 4750 & 4760 Series

Designed for the manufacturing engineer who wants to randomly check finishing torque values on the line or for the Q.A. who is checking the final torque on a finished product. Perfect for low-volume assembly where the cost of a motorized tool is not practical but the need for precise torque values is still required.

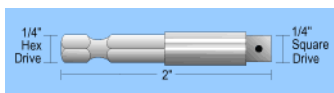


PART NO.	COLOR	TORQUE RANGE		SCALE	LENGTH		DIAMETER		WEIGHT	
		in oz/lb	Nm		in	mm	in	mm	oz	kg
MICROMETER										
SP 4730	GREEN	20-120 in oz	0.14-0.8	1 in oz	6.5	170	1.0	25.4	6	1
SP 4740	GREY	5-50 in lb	0.57-5.65	1 in lb	7.25	185	1.3	34.9	12	34
PRESET TORQUE										
SP 4750	BLUE	0.2-12.0 in lb	0.02-1.37	N/A	4.13	105	0.81	20.6	3.5	100
SP 4760	YELLOW	5.0-40.0 in lb	0.57-4.50	N/A	4.75	121	1.18	30.0	8.0	227

CLUTCH

Every tool comes with a certificate of calibration stating the clutch has been tested for accuracy for the different adjustable ranges.

ACCESSORIES



20191
Square Drive Adapter



Use pages 18-19 to find a complete list of screwdriver bits for use with manual torque tools.

PART NO.	DESCRIPTION
26033	FOAM GRIP FOR SP 4750
86036	FOAM GRIP FOR SP 4760

Torque Suppression Arm

- Ergonomic Design
- No Torque Reaction to Operator
- Improve Overall Torque Accuracy
- Includes Home Position Assembly as Standard
- Adjusts to Suit Tool - Weighs up to 5 lbs.
- Models for both Electric and Pneumatic Tools
- One Year Warranty



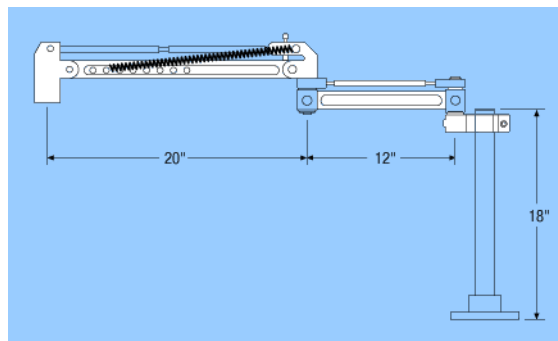
The torque suppression arm has been engineered to absorb all torque reaction of the tool through the solid steel structure. The high quality of the construction, which includes bearings in all joints, ensures freedom of movement and helps reduce operator fatigue. The models (4601, 4603, 4605, 4606, 4609 and 4610) are designed to work with any pneumatic tool which weighs five lbs or less. Models 4602, 4604, 4607, 4608, 4611 and 4612 are designed to work with push-to-start electric screwdrivers which weigh five lbs or less. The electric version can also be used by push-to-start pneumatic screwdrivers in case your application changes. All optional heads can be replaced with a few tools in a matter of minutes, making our torque suppression arm very versatile.

The standard 4601 or 4602 torque arm comes with a home position assembly, 18" support column and a bench mount. Other options available are the wall mount and filter, lubricator, and regulator with bracket and hoses and fittings. This mechanically designed torque suppression arm has no pneumatic, hydraulic or electric parts. This means you will receive exceptionally long life with this product. Our torque arm was designed, developed, and manufactured in our U.S. plant.

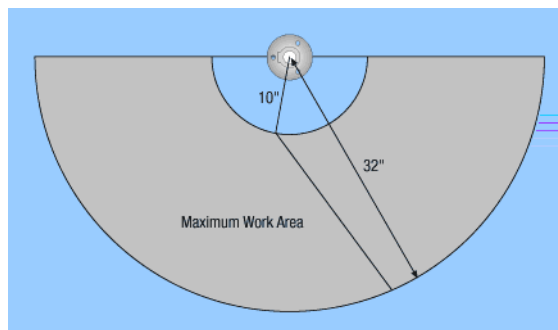
Specifications

PART NO.	DESCRIPTION	DEGREES OF FREEDOM
SP 4601	SINGLE PARALLEL ARM, PNEUMATIC TOOLS	3
SP 4602	SINGLE PARALLEL ARM, ELECTRIC TOOLS	3
SP 4603	SINGLE PARALLEL ARM, PNEUMATIC TOOLS	4
SP 4604	SINGLE PARALLEL ARM, ELECTRIC TOOLS	4
SP 4605	DOUBLE PARALLEL ARM, PNEUMATIC TOOLS	3
SP 4606	TRIPLE PARALLEL ARM, PNEUMATIC TOOLS	3
SP 4607	DOUBLE PARALLEL ARM, ELECTRIC TOOLS	3
SP 4608	TRIPLE PARALLEL ARM, ELECTRIC TOOLS	3
SP 4609	DOUBLE PARALLEL ARM, PNEUMATIC TOOLS	4
SP 4610	TRIPLE PARALLEL ARM, PNEUMATIC TOOLS	4
SP 4611	DOUBLE PARALLEL ARM, ELECTRIC TOOLS	4
SP 4612	TRIPLE PARALLEL ARM, PNEUMATIC TOOLS	4

Dimensions



Effective Working Area



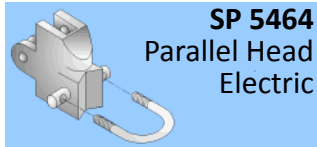
Accessories

PART NO.	DESCRIPTION
SP 25476	30" COLUMN
SP 5469	WALL MOUNTING
SP 5471	MULTI-ARM MOUNTING BRACKET
SP 5463	FILTER, REGULATOR, LUBRICATOR & BRACKET
SP 5495	FRL BRACKET
SP 25508	1/4" NPT FILTER, REGULATOR
SP 25509	1/4" LUBRICATOR

Optional Heads



SP 5461
Parallel Head
Pneumatic



SP 5464
Parallel Head
Electric



SP 5465
Universal Head
Electric



SP 5488
Universal Head
Pneumatic

Tool Support

The Model 270 is an inexpensive tool support designed for the 2000 series screwdriver and for other lightweight pneumatic and electric screwdrivers. The tool support can be bolted onto a table top or used with the optional bench clamp. The model 270 can support any tool which weighs from one to three lbs and allows the operator 360° of rotation. The tool support has been used in various ways, from the standard screwdriver support to supporting a scanner gun.



Specifications

PART NO.	DESCRIPTION	WEIGHT		MAIN POST HEIGHT		EXTENSION ARM LENGTH	
		lbs	kg	in	mm	in	mm
SP 270	TOOL SUPPORT	2.0	0.91	31	787	24	610
SP 273	BENCH CLAMP	2.3	1.05	N/A		N/A	

General Accessories

Balancers



Foam Grips



Specifications

PART NO.	DESCRIPTION
SP 264	1.3-3.3 lb (0.6-1.5 kg) CAPACITY
SP 256	0.6-1.3 lb (0.3-0.6 kg) CAPACITY

Specifications

PART NO.	DESCRIPTION
SP 26033	FOR 2000 SERIES PNEUMATIC SCREWDRIVERS
SP 86036	FOR 8000 SERIES PNEUMATIC SCREWDRIVERS

Hoses & Fittings

Air Hose



Specifications

PART NO.	DESCRIPTION
SP 3406	FOR 2000 SERIES SCREWDRIVERS
SP 3606	FOR 8000 SERIES SCREWDRIVERS

Coiled Hose



Specifications

PART NO.	DESCRIPTION
SP 3407	FOR 2000 SERIES SCREWDRIVERS
SP 3607	FOR 8000 SERIES SCREWDRIVERS

Exhaust Hose

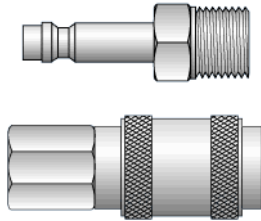


Specifications

PART NO.	DESCRIPTION
SP 26035	FOR 2000 SERIES SCREWDRIVERS
SP 86035	FOR 8000 SERIES SCREWDRIVERS

Fittings

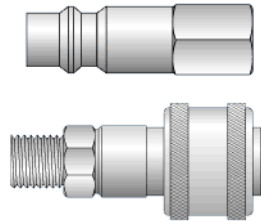
Quick Disconnect Fitting



Specifications

PART NO.	DESCRIPTION
SP 66525	FEMALE SOCKET 2000 SERIES TOOLS
SP 66526	MALE PLUG 2000 SERIES TOOLS

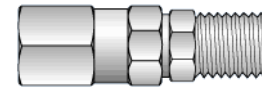
Quick Disconnect Fitting



Specifications

PART NO.	DESCRIPTION
SP 66695	FEMALE SOCKET 8000 SERIES TOOLS
SP 66527	MALE PLUG 8000 SERIES TOOLS

Swivel Hose Fitting



Specifications

PART NO.	DESCRIPTION
SP 463	Swivel Hose Fitting

Filters & Regulators

Standard Pneumatic tools all require dry lubricated air at 90 psig for the tool to run efficiently. The filters, regulators, and lubricators we offer are designed to work with any tool which requires either a 1/8" NPT hose or a 1/4" NPT hose. The best option we offer is the FRL Complete for the 1/8" or 1/4" because it includes the regulator, filter, and lubricator in one complete package.

Specifications

PART NO.	DESCRIPTION
SP 280	1/8" NPT FILTER, REGULATOR, LUBRICATOR COMPLETE
SP 281	1/8" NPT FILTER, REGULATOR
SP 282	1/8" NPT LUBRICATOR
SP 285	1/4" NPT FILTER, REGULATOR, LUBRICATOR COMPLETE
SP 25508	1/4" NPT FILTER, REGULATOR
SP 25509	1/4" NPT LUBRICATOR



- Accuracy Better than 1% between 10% and 100% Full Scale
- Integrated Torque Transducer
- Peak, Track, First Peak, and Power Tool Modes
- Measures Inch Pounds or Newton Meters
- Red Light and Alarm Show When First Peak is Reached
- Maximum Over Torque 120% of Full Scale

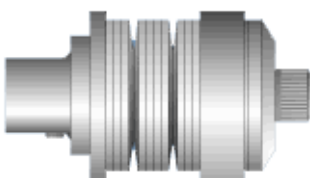
The Electronic Torque Tester is an inexpensive, U.S. built, highly accurate device designed for calibrating torque wrenches and power tools up to a maximum of 250 in lbs (28.25 Nm). The three models are available to meet low (2-20 in lbs), medium (5-50 in lbs), and high (25-250 in lbs) torque applications. The design incorporates the latest technology in electronic circuitry and can be used with the recharging unit plugged in or not. The Electronic Torque Tester is functional in both the right and left hand rotation. By utilizing the joint rate kit, the tools can be set to the soft joint setting accurately and precisely. The Electronic Torque Tester is ruggedly constructed for long life and dependable service.



Specifications

PART NO.	TORQUE RANGE		DIMENSIONS							
			WEIGHT		LENGTH		WIDTH		OVERALL HEIGHT	
	in lb	Nm	lb	kg	in	mm	in	mm	in	mm
SP 4201	2-20	0.23-2.26	4.25	1.93	9	228	4.5	114	3.12	79
SP 4202	5-50	0.57-5.56	4.25	1.93	9	228	4.5	114	3.12	79
SP 4203	25-250	2.8-28.25	4.25	1.93	9	228	4.5	114	3.12	79

Joint Rate Kit



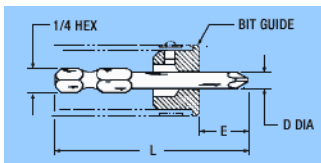
SP 4250

Joint Rate Kit is recommended when trying to duplicate a soft joint as seen in the 5 to 50 in. lbs. torque range.

SP 4251

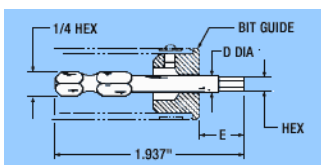
Joint Rate Kit is recommended when trying to duplicate a soft joint in the 50 to 250 in. lbs. torque range as seen in the Model 4203.

Power Bits for Philips Screws



BIT						BIT GUIDE		
SCREW SIZE	POINT SIZE	PART NO.	D		L	E	PART NO.	A +005 -002
			in	mm				
0, 1	0	SP 20421	.125	3.18	1.938 in 49.23 mm	0.58 in 14.7 mm	SP 21040	.136
2, 3, 4	1	SP 20422	.187	4.75			SP 21042	.199
5, 6, 8, 10	2	SP 20423	.250	6.35			SP 20143	.257
12, 14	3	SP 20426	.312	7.92			SP 21045	.323
EXTENDED LENGTH BIT						BIT GUIDE		
2, 3, 4	1	SP 20428	.187	4.75	3.00 in 88.90 mm	2.14 in 54.4 mm	SP 21042	.199
5, 6, 8, 10	2	SP 20429	.250	6.35			SP 21043	.257
12, 1/4	3	SP 20430	.312	7.92			SP 21045	.323

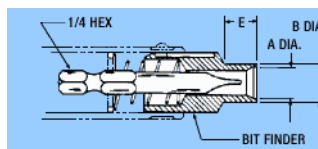
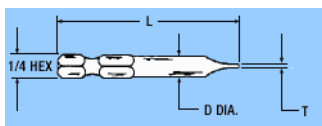
Power Bits for Hex Screws



BIT					BIT GUIDE
SCREW SIZE		HEX SIZE	D	PART NO.	PART NO.
CS	SS				
1"	5.6	0.062	0.122	SP 20431	SP 21040
2", 3"	8	0.077	0.154	SP 20432	-
4", 5", 6"	10	0.092	0.154	SP 20433	-
-	6"	0.108	0.154	SP 20434	SP 21042
8"	1/4	0.124	0.154	SP 20435	-
9"	-	0.139	0.187	SP 20436	-
10"	-	0.155	0.187	SP 20437	SP 21042
1/4	-	0.186	0.250	SP 20438	SP 21043

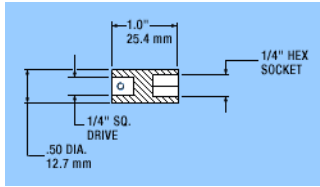
CS - Cap Screw, SS - Set Screw

Power Bits and Finders for Slotted Screws



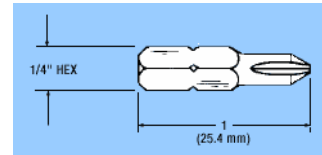
SCREW SIZE			FINDERS						BITS							
HEAD DIAMETER RANGE			B		A		E		PART NO.	L		D		T		PART NO.
in	mm	in	mm	in	mm	in	mm	in		mm	in	mm	in	mm		
2F-4R	.145	3.68	.189	4.95	.240	6.10	0.40	10.2	SP 20155	1.94	49.2	.134	3.40	.028	0.74	SP 20252
	.193	4.90					1.96	49.8		3.50	88.9					SP 20272
3F-4R	.165	4.19	.227	5.77	.272	6.91	0.40	10.2	SP 20156	1.94	49.2	.154	3.91	.032	0.81	SP 20253
	.225	5.72					1.96	49.8		3.50	88.9					SP 20273
4F-5R	.198	5.03	.258	6.55	.303	7.70	0.40	10.2	SP 20157	1.94	49.2	.187	4.75	.034	0.86	SP 20254
	.256	6.50					1.96	49.8		3.50	88.9					SP 20274
5F-6R	.226	5.74	.290	7.37	.335	8.51	0.40	10.2	SP 20158	1.94	49.2	.215	5.46	.036	0.91	SP 20255
	.288	7.32					1.96	49.8		3.50	88.9					SP 20275
6F-8R	.262	6.65	.322	9.18	.367	9.32	0.40	10.2	SP 20159	1.94	49.2	.250	6.35	.038	0.96	SP 20257
	.320	8.13					1.96	49.8		3.50	88.9					SP 20277
8F-10R	.286	7.26	.385	9.78	.430	10.9	0.40	10.2	SP 20160	1.94	49.2	.275	6.99	.042	1.07	SP 20258
	.383	9.73					1.96	49.8		3.50	88.9					SP 20278
10F-12R	.323	8.20	.450	11.4	.495	12.6	0.40	10.2	SP 20161	1.94	49.2	.312	7.92	.046	1.17	SP 20259
	.448	11.4					1.96	49.8		3.50	88.9					SP 20279
12F-1/4R	.371	9.42	.512	13.0	.557	14.1	0.40	10.2	SP 20162	1.94	49.2	.360	9.14	.050	1.27	SP 20260
	.510	13.0					1.96	49.8		3.50	88.9					SP 20280

Insert Bit Holder for Angle Attachment



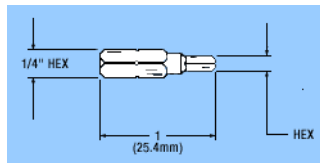
PART NO.
SP 46474

Insert Bits for Philips Screws



SCREW SIZE	POINT SIZE	PART NO.
0, 1	0	SP 20451
2, 3, 4	1	SP 20452
5, 6, 8, 10	2	SP 20453
12, 1/4	3	SP 20454

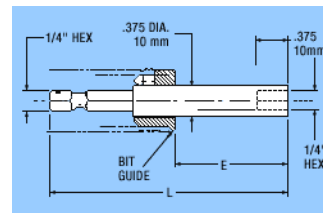
Insert Bits for Hex Socket Screws



SCREW SIZE		HEX SIZE	PART NO.
CS	SS		
0*	3, 4	0.050	SP 20576
1*	5, 6	1/16	SP 20571
2*, 3*	8	5/64	SP 20572
4*, 5*, 6*	10	3/32	SP 20573
6*	-	7/64	SP 20574
8	1/4	1/8	SP 20475
8*	-	9/64	SP 20477
10*	-	5/32	SP 20578
1/4	-	3/16	SP 20579

CS - Cap Screw, SS - Set Screw, * - 1960 Standards

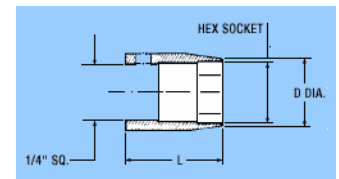
Magnetic Power Bit Holder for 1/4" hex Insert Bits



PART NO.	BIT HOLDER				BIT GUIDE	
	L		E		PART NO.	A +005-002
	in	mm	in	mm		
SP 26375	3.0	76.2	1.642	41.71	SP 21046	0.377

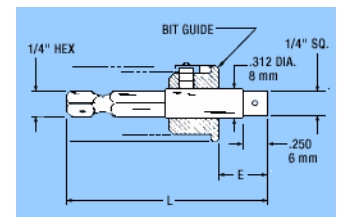
Sockets for Fractional Hex Head Screws

HEX SIZE	L	NON-MAGNETIC		MAGNETIC	
		D	PART NO.	D	PART NO.
3/16	7/8	5/16	SP 20481	3/8	SP 20491
1/4		7/16	SP 20483	3/8	SP 20493
5/16		1/2	SP 20485	1/2	SP 20495
3/8	1	9/16	SP 20487	5/8	SP 20497
7/16		5/8	SP 20489	3/4	SP 20498
1/2		3/4	SP 20490	-	-



Adapter for Sockets

ADAPTER			BIT GUIDE
PART NO.	L	E	PART NO.
SP 20191	2"	0.642	SP 21045
SP 20192	4"	2.624	
SP 20193	6"	4.642	



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