

500 SERIES PNEUMATIC CRIMPING TOOL

Patent No. 3,173,341 & 3,201,969

The most versatile crimping tool available today.

Models 500-EC, 500-D, 500-DEC and 500-D-1 are available from stock to handle No. 22 through 250 MCM.

Standard factory air pressure 80-125 psi (5-8.6 BAR) is now sufficient for all sizes.

Model 500 has the same safety cycling feature that is built into all of the Rennsteig line of quality tools.

Optional **EC kit** available for models 500-D & 500-D-1. EC kit replaces internal valve system, decreasing cycle time from 8 sec/cycle to 2.5 sec/cycle.

Human engineered to prevent accidents.

For more information contact Rennsteig or visit www.rennsteig.us

Features

- Pneumatic - Full Cycle
- Pin & Sockets, Solderless Terminals
- Crimps No. 22 thru 250 MCM
- Variety of Crimp Styles
- Interchangeable, Nonadjustable Die Heads
- No Operator Adjustments required
- Precision $\pm .001/- .001$ "
- Operates on Shop Air 90-115 PSI (6.5-8.0 BAR)
- Series 500: 31-39 lbs (14-17.7 kg)



Std Shop Pressure: Both 400 & 500 series tools operate on standard shop air pressure 90-115 PSI (6.5 -8.0 BAR) through the push of a button, or with an optional foot control.



Bench Mount

Standard equipment on both 400 and 500 models.

ACCESSORIES 400 & 500 SERIES

MULTI INDENT • CYCLE CONTROLLED • MEETS PERFORMANCE REQUIREMENTS OF MIL-C -22520

EC KIT

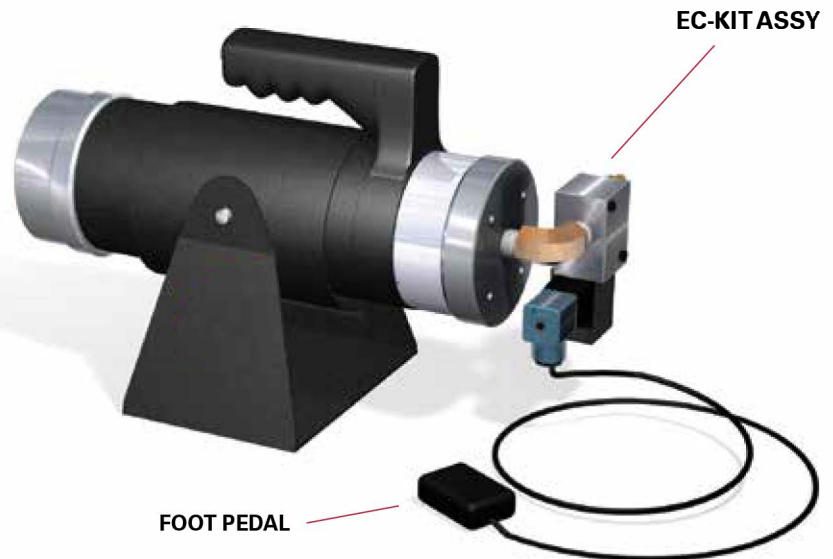
EC kit replaces the internal valve system, decreasing cycle time over stock configuration, resulting in increased production rates.

Available as optional accessory for series 400, 400-BHD, 400-B-1, and series 500, 500-D & 500-D-1.

Includes foot pedal.

Note: EC standard on 500-EC model

SERIES MODEL	400	500
CYCLE TIME		
WITHOUT EC	3 sec	7 - 8 sec
WITH EC	1.5 sec	2.5 sec



ACCESSORIES

Several optional accessories are available, including:

Foot Pedal provides operator comfort and increased production speed with foot pedal cycle trigger. (Included with all EC kits)

Gaging tools, including Go No-Go gages for die calibration.

Portable Field Kit provides mobile power unit for field and in-plant applications. Kit includes CO₂ air tank, up to 400 crimps on a charge.



GO NO-GO GAGES



FOOT PEDAL



PORTABLE FIELD KIT

Contact Rennsteig for details.

SPECIFICATIONS

APPLICATIONS	400	400-BHD	400-B-1
	400	400-BHD-EC	400-B-1-EC
CONTACTS			
PINS	23 thru 8	28 thru 2/0	28 thru 4/0
SOCKETS	23 thru 8	28 thru 2/0	28 thru 4/0
SOLDERLESS TERMINALS			
INSULATED	26-24 thru 6	26-24 thru 1/0	26-24 thru 2/0
UNINSULATED	26-24 thru 6	26-24 thru 2/0	26-24 thru 3/0
COAXIAL APPLICATIONS	MAX. DIA.	MAX. DIA.	MAX. DIA.
CONTACTS	1.00 (2.54 cm)	1.00 (2.54 cm)	1.00 (2.54 cm)
CONNECTORS			
WEIGHT	14 lb (6.3 kg)	17 lb (7.7 kg)	21 lb (9.5 kg)
LENGTH (no bench mt)	10.5 in length 267 mm	13.0 in length 330 mm	15 in length 381 mm

APPLICATIONS	500-EC	500-D	500-D-1
	500-EC	500-D-EC	500-D-1-EC
CONTACTS			
PINS	20 thru 4/0	20 thru 4/0	20 thru 4/0
SOCKETS	20 thru 4/0	20 thru 4/0	20 thru 4/0
SOLDERLESS TERMINALS			
INSULATED	22 thru 1/0	22 thru 3/0	22 thru 4/0
UNINSULATED	26-24 thru 2/0	26-24 thru 4/0	22 thru 250 MCM
COAXIAL APPLICATIONS	MAX. DIA.	MAX. DIA.	MAX. DIA.
CONTACTS	1.5 (3.8 cm)	1.5 (3.8 cm)	1.5 (3.8 cm)
CONNECTORS			
WEIGHT	31 lb (14 kg)	35 lb (16 kg)	39 lb (17.7 kg)
LENGTH (no bench mt)	15 in length 381 mm	18 in length 457 mm	21 in length 533 mm

500 SERIES DIE APPLICATIONS GUIDE

MULTI INDENT • CYCLE CONTROLLED • MEETS PERFORMANCE REQUIREMENTS OF MIL-C -22520

STANDARD DIES*		500-EC	500-D 500-D-EC	500-D-1 500-D-1-EC
		514DA-20N	Pins & Sockets	Yes
514DA-16N	Pins & Sockets	Yes	Yes	Yes
514DA-12N	Pins & Sockets	Yes	Yes	Yes
514DA-8N	Pins & Sockets	Yes	Yes	Yes
514DA-6N	Pins & Sockets	Yes	Yes	Yes
514DA-4N	Pins & Sockets	Yes	Yes	Yes
514DA-2N	Pins & Sockets	Yes	Yes	Yes
514DA-1/0N	Pins & Sockets	Yes	Yes	Yes
514DA-2/0N	Pins & Sockets	Yes	Yes	Yes
514DA-4/0N-1	Pins & Sockets	Yes	Yes	Yes
514DA-16-14-IT	Insulated Terminals	Yes	Yes	Yes
514DA-12-10-IT	Insulated Terminals	Yes	Yes	Yes
514DA-8IT	Insulated Terminals	Yes	Yes	Yes
514DA-6IT	Insulated Terminals	Yes	Yes	Yes
514DA-4IT	Insulated Terminals	Yes	Yes	Yes
514DA-2IT	Insulated Terminals	Yes	Yes	Yes
514DA-1/0-IT	Insulated Terminals	Yes	Yes	Yes
514DA-2/0-IT	Insulated Terminals	Yes	Yes	Yes
514DA-3/0-IT	Insulated Terminals	Yes	Yes	Yes
514DA-4/0-IT	Insulated Terminals	No	Yes	Yes
514DA-250 MCM IT	Insulated Terminals	No	Yes	Yes
514DA-16-14-NIT	Non-Insulated Terminals	Yes	Yes	Yes
514DA-12-10-NIT	Non-Insulated Terminals	Yes	Yes	Yes
514DA-8NIT	Non-Insulated Terminals	Yes	Yes	Yes
514DA-6NIT	Non-Insulated Terminals	Yes	Yes	Yes
514DA-4NIT	Non-Insulated Terminals	Yes	Yes	Yes
514DA-2NIT	Non-Insulated Terminals	Yes	Yes	Yes
514DA-1/0-NIT	Non-Insulated Terminals	Yes	Yes	Yes
514DA-2/0-NIT	Non-Insulated Terminals	Yes	Yes	Yes
514DA-3/0-NIT	Non-Insulated Terminals	Yes	Yes	Yes
514DA-4/0-NIT	Non-Insulated Terminals	No	Yes	Yes
514DA-250 MCM NIT	Non-Insulated Terminals	No	No	Yes

MIL - C - 22520/23 SPECIFICATION

M22520/23 - #	PICO- EQUIV	DESCRIPTION
M22520/23-01	400-B-1	POWER UNIT
M22520/23-02	414DA-8N	#8 Die Assembly
M22520/23-03	414DA-6N	#6 Die Assembly
M22520/23-04	414DA-4N	#4 Die Assembly
M22520/23-05	414DA-0N	#0N Die Assembly
M22520/23-06	414DA-2/0N	#2/0 Die Assembly
M22520/23-07	414DA-4/0N-1	#4/0 Die Assembly
M22520/23-09	4046A	#8 Locator

M22520/23 - #	PICO- EQUIV	DESCRIPTION
M22520/23-10	4297-6	#6 Locator (Class L)
M22520/23-11	4112	#4 Locator
M22520/23-12	4297-5	#4 Locator (Class L)
M22520/23-13	4066	#1/0 Locator
M22520/23-14	4297-3	#1/0 Locator (Class L)
M22520/23-15	4297-2	#2/0 Locator (Class L)
M22520/23-16	4297-1	#2/0 Locator (Class L)

TYPICAL CONTACT-TERMINAL APPLICATIONS



Both model 400 & 500 series accommodate insulated and non insulated Ring, Spade and Forked Terminals from 26-24 gage thru 250 MCM, wire range 28 gage thru 250 MCM. Refer to specification charts for individual models.



These series also accept Flag, Right Angle, Quick connects, In-line Splice, End caps and Battery Terminals.



Models within this series accept #23 thru 4/0 Pin and Socket Contacts, and #28 thru 4/0 wire.

Coaxial applications and wire ferrules are also accommodated.



Refer to specification charts for model applications.

Many dies are available for special electrical and non-electrical applications. Contact Rennsteig for your application needs.

CRIMPING CONFIGURATIONS

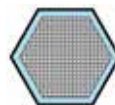
There are many different types of crimps employed today. Both Series 400 & 500 tools are capable of producing a number of crimp configurations, ranging from 4-indent, 8-indent, Hex, Circular, Square and a variety of others.

The indentor crimp principle has been used to produce a variety of impressions, the most common being the "bathtub" and "octadent" (Eight Indentor Crimp).

The 8-indent configuration has been chosen by the Military for use in the M22520/23 tools.



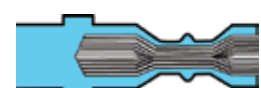
4 Indent



Hex



Two Indent



8 Indent - Cross Section



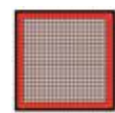
Circular



B Crimp



Nest & Indent Crimp



Square