

# **PRODUCT GUIDE**

**PNEUMATIC CRIMPING TOOLS**

**HYDRAULIC CRIMPING TOOLS**

**AUTOMATIC FEED CRIMPING**

**INSERTION / EXTRACTION TOOLS**

# **Pico Tools**

**ELEGANT TOOLS FOR COMPLEX APPLICATIONS**

**[www.picotools.com](http://www.picotools.com)**

# 400 SERIES PNEUMATIC CRIMPING TOOL

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

## Patent No. 3,173,341

This versatile, lightweight, pneumatic powered crimping tool handles a broad range of requirements for commercial, space and military applications.

The full cycle design insures the user a perfect crimp on every contact that meets tolerance requirements.

This multifaceted tool has been designed to work with a variety of applications, including pin and socket contacts, solderless terminals, and a variety of custom non-connector specific applications. Consult the tooling guide for your requirements, or contact Pico for custom applications.

Several models available: 400, 400-BHD, 400-B-1. Depending on model, this versatile crimp tool accommodates a large range of contact sizes; from No. 28 wire through 4/0 gage. Refer to application charts for model specifications.

Non-adjustable die heads, ensuring quick setup, are interchangeable between all models within the same series.

Critical parts are manufactured with high-strength S-7 tool steel, ensuring light weight and durability.

Human engineered to prevent accidents.

For more information contact Pico or visit web: [www.picotools.com](http://www.picotools.com)

## Features

- Pneumatic - Full Cycle
- Pin & Sockets, Solderless Terminals and many Custom Applications
- Crimps No. 28 thru 4/0
- Variety of Crimp Styles
- Interchangeable, Nonadjustable Die Heads
- No Operator Adjustments required
- Precision +.001/- .001"
- Operates on Shop Air 80-125 PSI (5-8.6 BAR)
- Series 400: 16-21 lbs (7-9.5 kg)



**Models** are categorized by the addition of one or more booster units, enabling larger sized applications with standard shop air pressure.

**Mil-C-22520/23** was written to cover model 400-B-1 in this series.

Consult Pico or tooling guide for specific details.

**EC kit** available as optional accessory for any 400/500 series model ( Std for model 500-EC ).

EC kit replaces internal valve system, decreasing cycle time on average from 3 sec/cycle to 1.5 sec/cycle for model 400; from 7-8 sec/cycle to 2.5 sec/cycle for series 500.

**Custom Tool Kits** available for both 400 & 500 series; kits can be configured in a variety of combinations to service several connector groups. Contact PICO for details.

**Lightweight/Portable:** Tools are lightweight, portable, and function equally well in both shop and field environments.

**Interchangeable Dies:** Pico's dies are interchangeable between models within the same series.

No adjustment of the dies are required, ensuring quick set-ups between applications.



# 500 SERIES PNEUMATIC CRIMPING TOOL

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

## 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 Pico 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 Pico or visit web: [www.picotools.com](http://www.picotools.com)

## 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  $+.001/-0.001$ "
- Operates on Shop Air 80-125 PSI (5-8.6 BAR)
- Series 500: 31-39 lbs (14-17.7 kg)



**Std Shop Pressure:** Both 400 & 500 series tools operate on standard shop air pressure 80-125 PSI (5-8.6 BAR) through the push of a button, or with an optional foot control.



## Bench Mount

Standard equipment on both 400 and 500 models.

# SPECIAL FEATURES 400 & 500 SERIES

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

## 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.

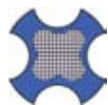
Many dies are available for special electrical and non-electrical applications. Contact Pico for your application needs.

## CRIMPING CONFIGURATIONS

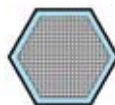
There are many different types of crimps employed today. Both Series 400 & 500 tools are capable of producing a number of crimp configurations, ranging from 4-indent, 8-indent, Hex, Circular, Square and a variety of others.

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.



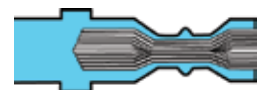
**4 Indent**



**Hex**



**Two Indent**



**8 Indent - Cross Section**



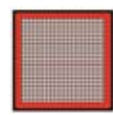
**Circular**



**B Crimp**



**Nest & Indent Crimp**



**Square**

# ACCESSORIES 400 & 500 SERIES

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

## EC KIT

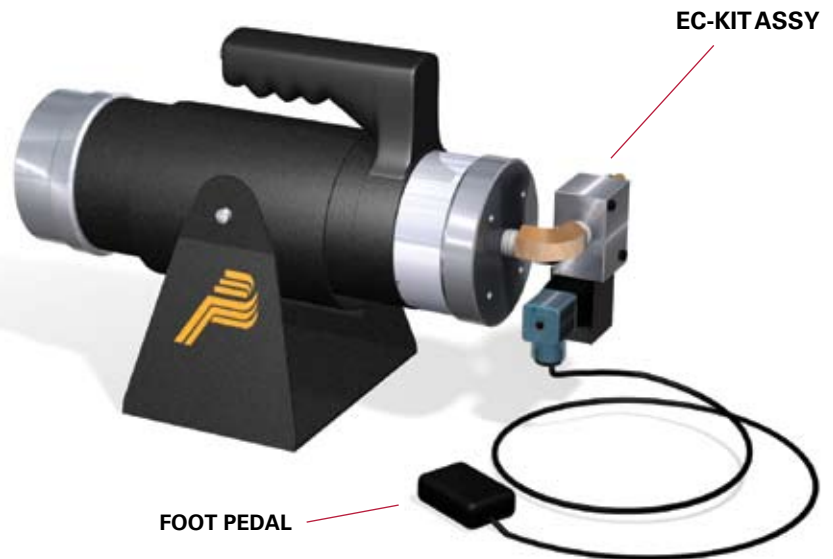
EC kit replaces the internal valve system, decreasing cycle time over stock configuration, resulting in increased production rates.

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
<b>CYCLE TIME</b>		
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 CO<sub>2</sub> air tank, up to 400 crimps on a charge.



GO NO-GO GAGES



FOOT PEDAL



PORTABLE FIELD KIT

## SPECIFICATIONS

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

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

# 400 SERIES DIE APPLICATION GUIDE

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

STANDARD DIES*		400 400-EC	400-BHD 400-BHD-EC	400-B-1 400-B-1-EC
414DA-22N	Pins & Sockets	Yes	Yes	Yes
414DA-20N	Pins & Sockets	Yes	Yes	Yes
414DA-16N	Pins & Sockets	Yes	Yes	Yes
414DA-12N	Pins & Sockets	Yes	Yes	Yes
414DA-8N	Pins & Sockets	Yes	Yes	Yes
414DA-6N	Pins & Sockets	No	Yes	Yes
414DA-4N	Pins & Sockets	No	Yes	Yes
414DA-2N	Pins & Sockets	No	Yes	Yes
414DA-0N	Pins & Sockets	No	Yes	Yes
414DA-2/ON	Pins & Sockets	No	Yes	Yes
414DA-4/ON-1	Pins & Sockets	No	No	Yes
414DA-26-24-IT	Insulated Terminals	Yes	Yes	Yes
414DA-22-18-IT	Insulated Terminals	Yes	Yes	Yes
414DA-16-14-IT	Insulated Terminals	Yes	Yes	Yes
414DA-12-10-IT	Insulated Terminals	Yes	Yes	Yes
414DA-8IT	Insulated Terminals	Yes	Yes	Yes
414DA-6IT	Insulated Terminals	No	Yes	Yes
414DA-4T	Insulated Terminals	No	Yes	Yes
414DA-2IT	Insulated Terminals	No	Yes	Yes
414DA-1/O-IT	Insulated Terminals	No	Yes	Yes
414DA-26-24-NIT	Non-Insulated Terminals	Yes	Yes	Yes
414DA-22-18-NIT	Non-Insulated Terminals	Yes	Yes	Yes
414DA-16-14-NIT	Non-Insulated Terminals	Yes	Yes	Yes
414DA-12-10-NIT	Non-Insulated Terminals	Yes	Yes	Yes
414DA-8NIT	Non-Insulated Terminals	Yes	Yes	Yes
414DA-6NIT	Non-Insulated Terminals	No	Yes	Yes
414DA-4NIT	Non-Insulated Terminals	No	Yes	Yes
414DA-2NIT	Non-Insulated Terminals	No	Yes	Yes
414DA-1/O-NIT	Non-Insulated Terminals	No	Yes	Yes
414DA-2/O-NIT	Non-Insulated Terminals	No	Yes	Yes

\*NOTE: Consult locator catalog or contact factory for complete application listing.

## INTERCHANGEABLE DIES

Pico's dies are interchangeable between all models within a particular series.

No adjustment of the dies are required, ensuring quick setups between applications.

Pico manufactures dies for most common applications, custom designs are available.

Consult Crimp Die Application Guide for more information on a specific requirement.



# 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	Yes	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)

# 600 - 605 SERIES AUTOMATIC FEED CRIMPING

8 INDENT • CYCLE CONTROLLED • SOLID STATE LOGIC CONTROL • MEETS PERFORMANCE REQUIREMENTS OF MIL-C -22520

Pico's series 600 automatic feed crimping machines accept sizes 12 through 22 closed barrel pin and socket contacts in bulk form. These machines will accommodate shoulderless and shoulder type contacts as well. Utilizing a full cycle control crimping mechanism, performance requirements to all applicable specifications are met.

Pico manufactures two basic systems which are designed to service the spectrum of connector contacts now in use.

The 600 series has been designed to achieve optimum production rates, along with operator ease and safety. Weighing in at 145 lbs (66 kg) the unit is portable and will operate with standard factory air and power.

The series 600 is capable of achieving a cycle rate up to 2,000 per hour. Actual production cycles will vary depending on environment workflow.

Crimp cycles for all series 600 models can be configured to initiate either by foot pedal, or upon insertion of wire into the contact. The machine is available with or without a wire entry funnel.

Series 600 systems feature a crimp depth adjusting mechanism, which enables pre-setting eight different crimp depths into the machine. This feature allows the system to be quickly re-configured for different applications by simply rotating the crimp depth selector.

The 600 series employs state of the art, fully programmable microprocessor logic controls, permitting the unit to be configured for future applications.

The series 600 is equipped with a interchangeable feed track system, allowing for quick changeovers.

Designed for durability, all essential moving parts manufactured with high quality steel.

## Features

- Fully Automatic - Wire triggered operation option
- Cycle rates to 2,000 Crimps per hour
- Accepts 12-22 Contacts
- Accommodates shoulderless and shoulder contacts
- Automatic feed from vibratory feeder
- Quick, simple interchangeable Feed Tracks
- Programmable Pneumatic Logic Control
- Microprocessor control of all functions
- Foot pedal standard on all models
- Operates on 80 psi ( 5.51 Bar ), 115 VAC 60 Hz
- 20" wide x 24" deep x 12" high (508 mm x 610 mm x 305 mm)
- 145 lbs (66 kg)



### MODEL 600

Both models 600 & 605 designed to be used with shoulder contacts, sizes 12-22. Foot pedal standard.

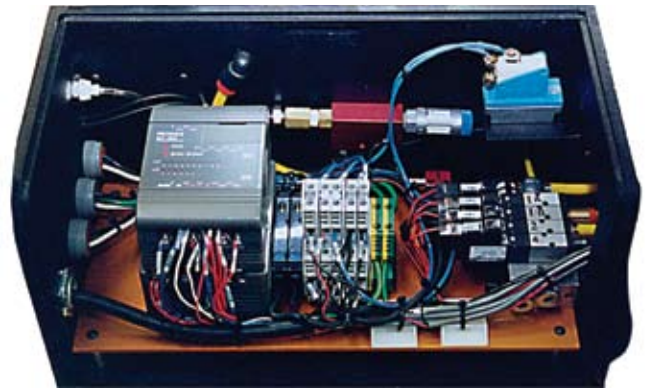


### MODEL 605

Same standard features as model 600, with additional funnel entry and automatic cycle system. The option initiates crimp cycle when wire enters contact. Foot pedal can still be used to initiate crimp if desired.

# 610 - 615 SERIES AUTOMATIC FEED CRIMPING

8 INDENT • CYCLE CONTROLLED • SOLID STATE LOGIC CONTROL • MEETS PERFORMANCE REQUIREMENTS OF MIL-C -22520

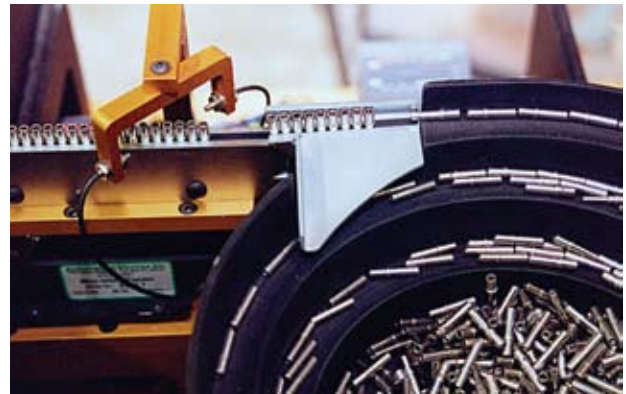


*Programmable Pneumatic Logic Control*

## MODEL 610

Automatic feed machine which accommodates shoulderless as well as shoulder style contacts. Since weight distribution of the contact on shoulderless styles cannot be used to orient them, Pico has developed a cassette system to present the contacts into crimp position properly oriented. Interchangeable components are available to accommodate a variety of contacts.

A typical use for this system are Mil-C-38999 #22 contacts, which do not have a shoulder that can be used for orienting.



*Vibrating bowl drives contacts into Feed Track*



## MODEL 615

Has the same features as the 610 machine, with the addition of the funnel entry and automatic cycle system.

### TYPICAL SPECIFICATIONS

Width	20" (508 mm)
Length	24" (610 mm)
Height	12" (305 mm)
Weight	145 lb (65 kg)
Power	115 VAC 60 Hz
Air Supply	80 PSI (5.5 BAR)
Crimp Head	Mil-C-22520 8 Indent
Contact Sizes	12-22

# 710 SERIES HYDRAULIC CRIMPING TOOLS

MULTI INDENT • HYDRAULIC OPERATION • LIGHTWEIGHT • 6 TON FORCE

## 710 EK SERIES Battery-Powered QUAD-POINT Dieless Crimping Tools



### FEATURES

- 6.2 ton capacity. Utilizes four indentors to make the crimp.
- Two-speed pump advances the ram quickly to start the crimp, reducing crimp completion time. The ram automatically retracts after the crimp is complete.
- Lightweight, featuring an angled pistol grip and a 360° rotating head.
- Flip-top style uses a pull pin to open head for easy removal from the connector.
- Includes two batteries, battery charger, steel carrying case, test gauge and test slugs.
- Choice of a 120 volt, 230 volt, or 12 volt one-hour batter charger.
- U.S. Patent 6,206,663.

CAT NO.	DESCRIPTIONS
<b>710 EK-12</b>	Quad-Point Battery-Powered Crimping Tool, Open Head Dieless, 12 V Charger
<b>710 EK-230</b>	Quad-Point Battery-Powered Crimping Tool, Open Head Dieless, 230 V Charger
<b>710 EK-115</b>	Quad-Point Corded Crimping Tool -115 VAC 60 Hz

SPECIFICATIONS	
Capacity	#6 - 750 MCM
Crimping Force	6.2 Tons (55 kN)
Length	14 in. (355 mm)
Weight	11.1 lbs (5.0 kg)
Battery Charge Time	1 Hour

## 710 HK SERIES Hand-Operated Hydraulic QUAD-POINT Dieless Crimping Tools

### FEATURES

- 6.2 ton capacity. Utilize four indentors to make the crimp.
- Operate from 10,000 psi (700 bar) hydraulic pumping sources.
- Small, lightweight for difficult to reach locations.
- Includes steel carrying case.
- Available with stand.



SPECIFICATIONS	
Capacity	#6 - 750 MCM
Crimping Force	6.2 Tons (55 kN)
Length	21-1/16 in. (535 mm)
Weight	9 lbs (4.1 kg)

# 750 SERIES HYDRAULIC CRIMPING TOOLS

MULTI INDENT • HYDRAULIC OPERATION • LIGHTWEIGHT • 12 TON FORCE • INTERCHANGEABLE DIES



## 750 EK SERIES Battery-Powered 12 Ton Hydraulic Crimping Tools

### FEATURES

- 1.65" (42 mm) opening, for industry "U" type dies.
- New head designs result in lower weight and improved durability – tested to 50,000 crimp cycles.
- Two-speed pump to reduce cycle time.
- Ram automatically retracts when crimp cycle is complete. Crimping head rotates 360°.
- Powerful 12 volt 2.0 Ah battery provides up to 35 crimps per charge.
- Includes one-hour battery charger, steel carrying case, and two batteries.
- U.S. Patent 6,206,663.

CAT NO.	DESCRIPTIONS
<b>750 EK-12</b>	12-Ton Battery-Powered Crimping Tool, 1.65" (42 mm) opening, 12 V Charger
<b>750 EK-230</b>	12-Ton Battery-Powered Crimping Tool, 1.65" (42 mm) opening, 230 V Charger
<b>750 EK-115</b>	12-Ton Corded Crimping Tool, 1.65" (42 mm opening), 115 VAC 60 Hz

SPECIFICATIONS	
Capacity	#6 - 750 MCM
Crimping Force	12 Tons (106 kN)
Length	15-1/4 in. (387 mm)
Weight	14.9 lbs (5.8 kg)
Battery Charge Time	1 Hour

## 750 HK SERIES Hand-Operated 12 Ton Hydraulic Crimping Tools

### FEATURES

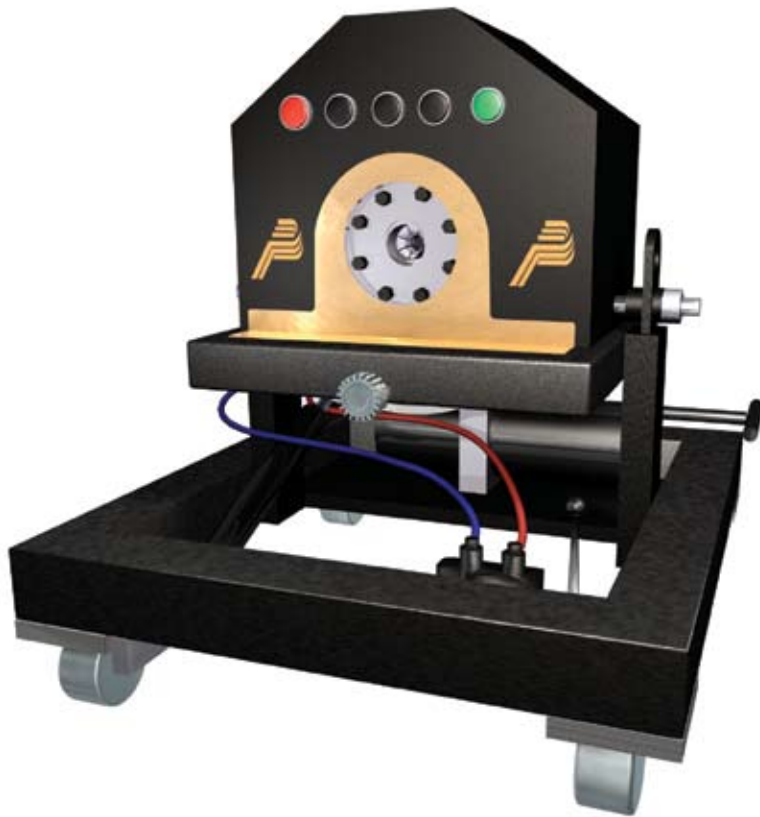
- Head for industry "U" type dies with 1.65" (42 mm) opening.
- New head designs result in lower weight and improved durability - tests to 50,000 crimp cycles.
- Two-speed pump to reduce cycle time.
- Crimp heads rotate 360 degrees.
- Small and lightweight.
- Includes steel carrying case.
- Available with stand.



SPECIFICATIONS	
Capacity	#6 - 750 MCM
Crimping Force	12 Tons (106 kN)
Length	21-1/2 in. (546 mm)
Weight	13.2 lbs (6.0 kg)

# 800 SERIES HYDRAULIC CRIMPING MACHINE

8 INDENT • CYCLE CONTROLLED • PNEUMATIC LOGIC CONTROL • MEETS PERFORMANCE REQUIREMENTS OF MIL-C-22520



## Features

- Hydraulic - Full Cycle
- Pin & Sockets, Solderless Terminals and many Custom Applications
- Crimps No. 1/0 thru 1,000 MCM
- Unique Octadent, Indenty Style Crimp
- Interchangeable, Nonadjustable Die Heads
- No Operator Adjustments required
- Self powered - 1 hp, 115 VAC 60 Hz motor with pump and reservoir - 1,500 PSI (103 BAR)
- 1,100 lbs (499 kg)



The 800 series crimping machine is designed and constructed to crimp contacts and cables ranging in size from 1/0 to 1,000 MCM.

Interchangeable dies are available to adapt the machine to specific sizes.



The crimp profile is unique and is a significant advancement in the state of the art of crimping. The crimp produced is an

octadent with two indentations at each of eight positions which are equidistant around the circumference of the contact.

This configuration provides a uniform reduction of the contact crimp barrel. The resulting compaction of the wire strands is such that it is virtually void free. The tensile strength and electrical characteristics this crimp provides are superior to any other crimping system now available.

The machine is equipped with a cycle control system which insures that each crimp is within tolerances.

Crimp depth adjusting mechanism is provided to fine tune the crimp depth setting to a specific application.

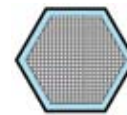
The machine is completely self contained. The on board power source is a one hp motor with pump and reservoir.

This unit produces 1,500 P.S.I. (103 BAR) hydraulic operating pressure.

## Crimping Configurations

The Series 800 is capable of producing a number of crimp configurations, ranging from Circular, Hex and 8-16 indent applications.

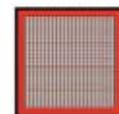
## Crimping Configurations



Hex



8 Indent



Square



Circular



Typical 8 indent Cable Crimp Profile

# 900 SERIES PNEUMATIC CRIMP TOOL

8 INDENT • CYCLE CONTROLLED • PNEUMATIC LOGIC CONTROL • MEETS PERFORMANCE REQUIREMENTS OF MIL-C-22520



The 900 Series crimping machine is designed and constructed to crimp contacts and cables ranging in size from No.12 thru 4/0.

Interchangeable indenter sets are available to adapt the machine to provide multiple ranges in crimp depths.

The crimp profile is unique and is a significant advance in the state of the art of crimping.



The crimp produced is a six sided crimp with two indentations at each of the six positions which are equidistant around the circumference of the contact.

This configuration provides a uniform reduction of the contact barrel. The resulting compaction of the wire strands is such that it is virtually void free. The tensile strength and electrical characteristics which this crimp provides are superior to any other crimping systems now available.

The machine is equipped with a cycle control system which insures that each crimp is precisely controlled from cycle to cycle.

The 900 series machine is equipped with a crimp depth adjusting mechanism, which enables pre-setting eight different crimp depths into the machine. A specific depth can then be selected by rotating a selector knob to one of the eight positions.

The machine will accommodate contacts in excess of 10" (254 mm).

## Crimping Configurations

The Series 900 is capable of producing a number of crimp configurations, ranging from Circular, Hex and 6-12-indent applications.

## Features

- Pneumatic - Full Cycle
- Pin & Sockets, Solderless Terminals and many Custom Applications
- Crimps No. 12 thru 4/0
- Unique 6-12 Indent Style Crimp
- 80-120 PSI ( 5.5-8.3 BAR)
- 40 lbs (18.1 kg)

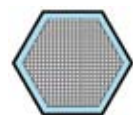
## Crimping Configurations



6-12 Indent



Circular



Hex

# CONTACT TOOLS INSTALLING / REMOVAL

METAL • PLASTIC • MEETS PERFORMANCE REQUIREMENTS OF M81969



Pico manufacturer's a variety of contact installing and removal tools, including both metal and plastic.

A variety of styles are available to meet industry requirements, including front and rear release installing tools, front release and rear removal tools, and tweezer style removal tools.

An extensive series of Military specification tools are available as well.

Pico also produces an extensive line of proprietary design installing and removal tools.

These include plier type, impact style, in-line tips, off-set tips, plastic and metal tips, spring loaded or non-spring style, multiple tip kits and unwired contact removal tools.

Kits can be customized to meet a series of specific needs.

Pico welcomes the opportunity to design a tool to meet your specific requirements. Contact Pico for information on your specific needs.

Additional information can also be found on Pico's web page,

[www.picotools.com](http://www.picotools.com)



## INSTALLING TOOLS: FRONT RELEASE - REAR RELEASE

Installing tools in these styles are used with front release connectors such as MIL-C-26482, MIL-C-26500, MIL-C-26518, MIL-C-38300, MIL-C-28840, MIL-C-5015, MIL-C-81659 and MIL-C-81703.

This tool style can also be used with rear release connectors as well.

# CONTACT TOOLS INSTALLING / REMOVAL

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## INSTALLING TOOLS: FRONT RELEASE - REAR REMOVAL

Front release removal tools, in which the tool is inserted into the front of the connector to release the contact locking mechanism are used with connectors such as MIL-C-26482, MIL-C-26500, MIL-C-26518, MIL-C-38300, MIL-C-28840, MIL-C-5015, MIL-C-81659 and MIL-C-81703.



## REMOVAL TOOLS: REAR RELEASE - TWEEZER STYLE

Tweezer style installing and removal tools are designed to accommodate rear release connectors, such as MIL-C-38999, NAS 1599, MIL-C-5015, MIL-C-81511 and MIL-C-83723.

These tools are available with angled tips, offset straight tips and in-line straight tips.

An extensive series of mil-spec as well as custom designs are available.



## PLASTIC TOOLS

Pico also offers an extensive line of contact installing and removal tools of plastic construction.

Meeting M81969/1,14,16,39 & 29 Military specifications. The complete line also includes unwired contact removal tools, tips, OEM equivalents and custom designs.



# Pico Corporation

The roots of Pico Corporation extend back to the 1950's when under the name of Harrison & Sharp – several contact-wire terminating devices were developed for the connector industry.

The present day corporation was formed in 1964 and has been providing products to the connector industry for five decades. Crimping tools developed by Pico include single indent, double indent, three indent, four indent, eight indent as well as hex dies for RF connectors and form dies for insulated and uninsulated terminals. Variations of the four/eight indent are the industry standards of today. In 50 plus years of support to the connector and using industries, Pico has earned an enviable reputation for the quality of our products and the excellence of our customer service.

Our business has grown primarily thru loyal customers and their referrals. For this we sincerely express our gratitude. Pico's design and manufacturing team is uniquely equipped to produce products at the leading edge of technology, Bring us your requirements. We provide "elegant solutions to complex opportunities".



This pneumatic powered series accommodates wire range #28 through 4/0. Specification Mil-C-22520/23 was written to cover model 400-B-1 in this series.



The 500 pneumatic powered tool was introduced to answer the need for a power crimp tool to accommodate large contacts and insulated terminals to 250 MCM sizes.



"Battery" powered hydraulic die & die-less crimping tools. Two models of hand operated tools, providing 6 to 12 tons of force, accommodating #6 thru 750 MCM.



Two hand operated hydraulic tools, providing 6 to 12 tons of crimping force. Small & lightweight for difficult to reach applications. Accessory dies available.



Automated feed crimping machines, designed to provide high production rates for 12 through 22 closed barrel pin and socket contacts.



Pico manufactures a full line of installing and removal t. These products have been expanded and this line is now one of the broadest in the industry.

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