



WIRE CUTTING
ROBOTICS
AUTOMATION
DE-GATING
GATE CUTTING
LEAD FORMING
CRIMPING
AEROSPACE ASSEMBLY
HYDRAULIC COLD WELDING

CUSTOMIZABLE
PNEUMATIC
TOOLS TO PROVIDE
SOLUTIONS

Simonds

World Leader in Pneumatic Hand Tools

ELECTRICAL
INDUSTRIAL
PLASTICS

We understand the part our products play in your day to day success. We are committed to being the best resource for your ergonomic needs with our prompt, responsive service in helping you get the right tool for the job.

Our products are customizable to fit your needs. Our engineers work closely with our customers to provide innovative solutions that improve production times and reduce injury in the workplace.

Please **CONTACT US** for application specifications and tool recommendations.

SIMONDS INC.
248 ELM STREET SOUTHBRIDGE MA 01550
508.764.3235 FAX 508.765.5125
SALES@SIMONDS-INC.COM WWW.SIMONDS-INC.COM

Simonds

World Leader in Pneumatic Hand Tools

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ELECTRONICS CATALOG

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INDUSTRIAL CATALOG

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HYDRAULICS CATALOG

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PLASTICS CATALOG

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ACCESSORIES

**FOR A DISTRIBUTOR NEAR YOU PLEASE VISIT OUR WEBSITE
WWW.SIMONDS-INC.COM**



World Leader in Pneumatic Hand Tools

Simonds Inc. has been a family owned and operated business for three generations. We have been proudly manufacturing ergonomic tools for aerospace, injection molding, and the automotive industries for over fifty years.

Located in Southbridge Massachusetts, Simonds manufactures specially designed tools. These tools meet the demanding and intricate specifications that our customers need. They substantially reduce injury related to repetitive motion, while improving production and reliability.

Here at Simonds we strive to provide comfort and safety for the operator. Our engineers work closely with our customers to assess challenges within manufacturing industries and provide viable and ergonomic solutions to optimize production.

Our engineers and sales team are available for consulting Mon-Fri 9:00am - 5:00pm EST.

WARRANTY

Simonds power packs are warrantied to be free from defects in materials and workmanship for a period of one year, barring alterations, abuse, or misuse. All products returned for warranty repair must be sent to Simonds, Inc., Southbridge, MA at end users expense, where it will be repaired or replaced at the company's discretion.

MISSION STATEMENT

- 1) TO PROVIDE SAFE AND RELIABLE PNEUMATIC AND HYDRAULIC HAND TOOLS TO OUR CUSTOMERS, ASSOCIATES, AND DISTRIBUTORS.
- 2) TO PROVIDE ADVANCED SOLUTIONS TO THE CUTTING, CRIMPING, AND D-GATING CHALLENGES WITHIN THE INDUSTRIES.
- 3) TO INCREASE PRODUCTION AND DECREASE INJURY BY PROVIDING TOOLS WITH ERGONOMIC DESIGNS AND ADVANCED ENGINEERING.



The Simonds logo is written in a white, elegant, cursive script font. It is positioned in the top left corner of the advertisement. The background of the entire page is a blue-tinted photograph of a printed circuit board (PCB) with a black wire-cutting tool resting on it. The PCB is green with white traces and various components. The wire-cutting tool is black and has a gold-colored tip. The overall lighting is dramatic, with strong highlights and deep shadows, creating a professional and technical atmosphere.

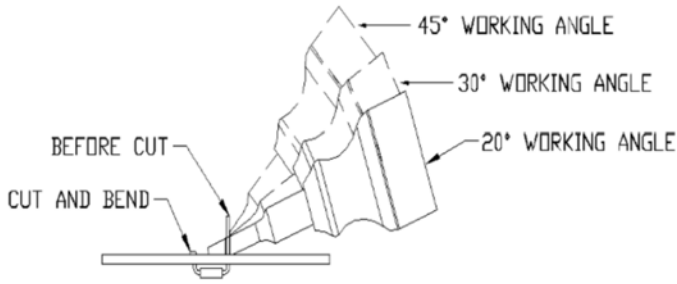
Simonds

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ELECTRONICS

WIRE CUTTING
LEAD FORMING
WIRE CRIMPING

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Cut and Bend Tool

This air-powered cut and bend tool cuts components on P.C. boards 1/16" above the surface and bends them over tight to the board.

- Seven interchangeable cut and bend heads available for different diameter components with 20°, 30° or 45° working angles
- Heads are made from hardened tool steel
- Easily replaceable
- Four heads available for shorter layover (1/32" max. layover) in 20°, 30° and 45° angles
Maximum inlet air pressure is 80 psi.
- Special bend only models are also available

Consult factory for details. Cut and Bend Heads are sold separate from power packs.



*Power Pack only

BP-1	
LENGTH	5.5"
WEIGHT	8 oz.
DIAMETER	1.25" (31.75 mm)
MATERIAL	Aluminum



* The 4H tip is for light duty only.



* The 4H4 tip is slightly larger for heavy duty only.

CUT AND BEND HEADS		
PRODUCT NUMBER	WIRE SIZE	WORK ANGLE
4H-20	0.010-0.028	20°
4H-30	0.010-0.028	30°
4H-45	0.010-0.028	45°
4H4-20	0.020-0.038	20°
4H4-30	0.020-0.038	30°
4H4-45	0.020-0.038	45°
4HG-20	0.030-0.050	20°

SHORT LAYOVER CUT AND BEND HEADS		
PRODUCT NUMBER	WIRE SIZE	WORK ANGLE
4H4-20-SL	0.010-0.038	20°
4H4-30-SL	0.010-0.038	30°
4H4-45-SL	0.010-0.038	45°
4HG-20-AR	0.030-0.050	20°

*Shown with optional jaw sets



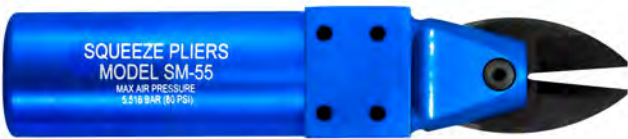
This miniature power pack is for use with the cutting, crimping and bending jaws. A built-in adjusting screw controls the opening of the jaw sets.

MSP-1 MSP-1F (foot model)	
LENGTH	5"
WEIGHT	11 oz
DIAMETER	1.25" (31.75 mm)
CFM @ 30 STROKES MIN.	0.03 cfm
CLOSING FORCE @ 80 PSI	** Up to 100 lbs.
MATERIAL	Aluminum



The **SM-50** is used with **PGC-1.5** Jaws only.

SM-50 Robotic/Automation	
LENGTH	3.72" (94.49 mm)
WEIGHT	4 oz.
DIAMETER	1.25" (31.75 mm)
CFM @ 30 STROKES MIN.	0.03 cfm
CLOSING FORCE @ 80 PSI	** Up to 56 lbs.
MATERIAL	Aluminum



The **SM-55** is used with **PGC-1.5** Jaws only.

SM-55 Robotic/Automation	
LENGTH	5.02" (127.5 mm)
WEIGHT	7.2 oz.
DIAMETER	1.25" (31.75 mm)
CFM @ 30 STROKES MIN.	0.09 cfm
CLOSING FORCE @ 80 PSI	** Up to 112 lbs.
MATERIAL	Aluminum

**** Closing force depends upon jaws used and Cam position. Call for more information.**

*****Jaws Sold Separately*****

*****5' Hoses included with Power Packs*****

OPTIONAL JAW SETS for MSP pg 4

ACCESSORIES pg 30

(Bench Stands, Tool Balancers, Safety Guards, and Foot Switches)

PNEUMATIC POWER PACKS

*Shown with optional jaw sets



A built-in adjusting screw controls the opening of the jaw sets.

SP-01P SP-01PF (Foot Operated)	
LENGTH	5.5"
WEIGHT	11 oz
DIAMETER	1.5"
CFM @ 30 STROKES/MIN	.041 cfm
CLOSING FORCE @ 80 PSI	** Up to 575 lbs.
CAM	Piston Style
MATERIAL	Aluminum



Our foot model (shown here) includes two 5' hoses.

SP-02P SP-02PF (Foot Operated)	
LENGTH	5.5"
WEIGHT	13 oz
DIAMETER	1.75"
CFM @ 30 STROKES/MIN	.045 cfm
CLOSING FORCE @ 80 PSI	** Up to 850 lbs.
CAM	Piston Style
MATERIAL	Aluminum



The **SM-100** is designed to use the same jaws as the **SP-01P** and the **SP-02P** power packs. It fits most robotic and automatic needs.

SM-100 Robotic/Automation	
LENGTH	4.8"
WEIGHT	12 oz
DIAMETER	1.75"
CFM @ 30 STROKES/MIN	.041 cfm
CLOSING FORCE @ 80 PSI	** Up to 575 lbs.
CAM	Piston Style
MATERIAL	Aluminum

**** Closing force depends upon jaws used and Cam position. Call for more information.**

OPTIONAL JAW SETS pg 5-6

ACCESSORIES pg 30

(Bench Stands, Tool Balancers, Safety Guards, and Foot Switches)

Jaws Sold Separately

5' Hoses included with Power Packs



HMCC-1	
Soft Copper Wire	.031" (0.78 mm)
Rise	.041" (1.04 mm)
Angle	45°
Length of Cut	0.13" (3.3 mm)
Max. Tip Opening	0.20" (5 mm)



01X-566	
Carbide serrated cutting edge, filament shears for cutting fine wire, nickel ribbon, or soft wire of any metal up to 0.13" diameter (3.3 mm). Jaws	
Length of Cut	.15" (4 mm)
Max. Tip Opening	.34" (8.3 mm)



PC-311F	
PC Tab Cutter	0.05" (1.27 mm)
Flush Cut	
Angle	25°
Length of Cut	0.45" (11.45 mm)
Max. Tip Opening	0.26" (6.60 mm)



01X-163	
Soft Wire Center Cut	.093"
Angle	0°
Length of Cut	1.09"
Max. Tip Opening	0.38" (5 mm)



FS-1CH FS-1-CARBIDE	
FS-1: Filament shears for cutting fine wire, nickel ribbon or soft wire of any metal up to 0.13" diameter (3.3 mm). Jaws are 0.75" (19 mm) long. Maximum tip opening 0.21" (5.3 mm)	
FS-1-CARBIDE: Has a Carbide Cutting Edge	

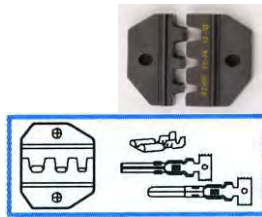


01X-667	
Serrated Gripping Jaws	
Length of Cut	1.09"
Max. Tip Opening	0.5"


OPTIONAL POWER PACKS pg 3

ACCESSORIES pg 30

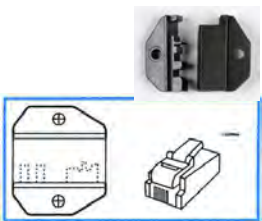
(Bench Stands, Tool Balancers, Safety Guards, and Foot Switches)




UC-50-10
22-12 AWG (0.324 mm²—3.3 mm²)
Non Insulated Open Barrel
Connectors. Commercial Type



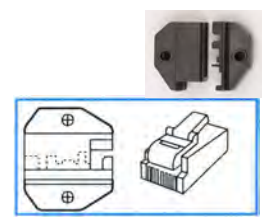
UC-50-17
Pin Terminal Non-insulated AWG.
22-20/18-16/14-12/10-6 DIN
0.5/0.75/1.0/1.5/2.5/4/6/10/16mm²
(



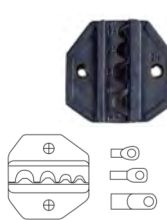
UC-50-12
Universal RJ-11 Die for two, four,
and six position modular plugs.




UC-50-18
Non-insulated Open Barrel AWG
20-18 / 16-14 / 12-10
DIN 0.5-1/1.5-2.5/4-6mm²



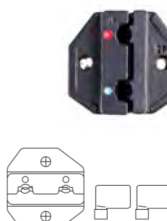
UC-50-13
RJ-45 Die for eight position die set
for keyed or non-keyed modular
plugs (excluding AMP)



UC-50-19
Non-insulated Terminal AWG
20-18 / 16-14 / 12-10 / 8
DIN 1.5/2.5/6/10mm²
JIS 1.25/2.0.5.5/10mm²



UC-50-15
Universal Crimp Guard



UC-50-20
Insulated Flag Terminal AWG 22-
18 / 16-14
DIN 0.5/ 1.5-2.5mm²

CRIMPING TOOLS



**CM-3
Jaw and Housing**

CM-3				
<p>The CM-3 (Shown with optional CM-3-3 insert) secures solder-less terminals to solid or stranded, bare or insulated wire, to meet most requirements of several MIL specifications.</p> <ul style="list-style-type: none"> • Fits on SP-002 to SP-005 Power Packs (based on power required for crimp) • Durable aluminum housing with hardened tool steel jaws • Optional inserts can handle from 22 to 8 AWG wire. • Most crimping performed with “F” style power packs (consult your distributor) 				

Power Pack	SP-002	SP-003	SP-004	SP-005
Force lbs.	1800	2000	2400	3500
Force kgs.	815	910	1090	1590

Inlet air pressure of 80 psi will develop approximately the crimping forces shown using the corresponding power pack.

CMX-99 Insert		CM3-2 Insert													
	<table border="1"> <tr><td>Wire Gauge</td><td>14 to 22</td></tr> <tr><td>Terminal Bare Wire</td><td>YES</td></tr> <tr><td>Insulated Wire</td><td></td></tr> </table>	Wire Gauge	14 to 22	Terminal Bare Wire	YES	Insulated Wire			<table border="1"> <tr><td>Wire Gauge</td><td>12 to 16</td></tr> <tr><td>Terminal Bare Wire</td><td>N/A</td></tr> <tr><td>Insulated Wire</td><td></td></tr> </table>	Wire Gauge	12 to 16	Terminal Bare Wire	N/A	Insulated Wire	
Wire Gauge	14 to 22														
Terminal Bare Wire	YES														
Insulated Wire															
Wire Gauge	12 to 16														
Terminal Bare Wire	N/A														
Insulated Wire															
	<table border="1"> <tr><td>Wire Gauge</td><td>8 to 16</td></tr> <tr><td>Terminal Bare Wire</td><td>N/A</td></tr> <tr><td>Insulated Wire</td><td></td></tr> </table>	Wire Gauge	8 to 16	Terminal Bare Wire	N/A	Insulated Wire			<table border="1"> <tr><td>Wire Gauge</td><td>Wire Cap</td></tr> <tr><td>Terminal Bare Wire</td><td>N/A</td></tr> <tr><td>Insulated Wire</td><td>14 to 22</td></tr> </table>	Wire Gauge	Wire Cap	Terminal Bare Wire	N/A	Insulated Wire	14 to 22
Wire Gauge	8 to 16														
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Insulated Wire															
Wire Gauge	Wire Cap														
Terminal Bare Wire	N/A														
Insulated Wire	14 to 22														



PTX-819
<p>COAX CABLE STRIPPING TOOL</p> <p>For 0.54” diameter cable, 1 7/16” strip</p> <p>This is just one of the tools that we make special for a specific company or problem. This tool is designed to remove the copper sheathing that is under the plastic coating and over the coax insulation. The tool slides the scored copper off with ease, reducing operator fatigue.</p> <p><i>Made to Order Special Only</i></p>



Simonds Inc. has made guards for some of our tools as specials. Above is a **SG-3** made for the **B-38/B-32** jaws. There is also available SG-1 and SG-2 retractable guards.

Consult with factory for your guard needs.

All Simonds jaws can be factory re-sharpened for longer life and reduced production costs. Special jaws may be manufactured for special operations. Consult your local distributor.



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AUTOMOTIVE ASSEMBLY

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PNEUMATIC POWER PACKS

*Shown with optional jaw sets



A built-in adjusting screw controls the opening of the jaw sets.

SP-01P SP-01PF (Foot Operated)	
LENGTH	5.5"
WEIGHT	11 oz
DIAMETER	1.5"
CFM @ 30 STROKES/MIN	.041 cfm
CLOSING FORCE @ 80 PSI	** Up to 575 lbs.
CAM	Piston Style
MATERIAL	Aluminum



Our foot model (shown here) includes two 5' hoses.

SP-02P SP-02PF (Foot Operated)	
LENGTH	5.5"
WEIGHT	13 oz
DIAMETER	1.75"
CFM @ 30 STROKES/MIN	.045 cfm
CLOSING FORCE @ 80 PSI	** Up to 850 lbs.
CAM	Piston Style
MATERIAL	Aluminum



The **SM-100** is designed to use the same jaws as the **SP-01P** and the **SP-02P** power packs. It fits most robotic and automatic needs.

SM-100 Robotic/Automation	
LENGTH	4.8"
WEIGHT	12 oz
DIAMETER	1.75"
CFM @ 30 STROKES/MIN	.041 cfm
CLOSING FORCE @ 80 PSI	** Up to 575 lbs.
CAM	Piston Style
MATERIAL	Aluminum

**** Closing force depends upon jaws used and Cam position. Call for more information.**

[OPTIONAL JAW SETS pg 14-15](#)

[ACCESSORIES pg 30](#)

(Bench Stands, Tool Balancers, Safety Guards, and Foot Switches)

*****Jaws Sold Separately*****

*****5' Hoses included with Power Packs*****

JAW SETS FOR SP-01P | SP-01PF | SP-02P | SP-02PF | SM-100



SJ-1A	
For use as holding pliers or can be machined to suit special requirements for cutting, crimping or holding. Jaws are 0.30" (7.62 mm) thick. Max. tip opening 0.39" (9.90 mm)	



CD-4CH	
Max. Soft Wire	0.08" (2 mm)
Center Cut	
Angle	N/A
Length of Cut	0.50" (12.7 mm)
Max. Tip Opening	0.19" (4.8 mm)



PGC-2CH	
Plastics Only	Soft
Type of Cut	Flush Cut
Angle	Straight Cutter
Length of Cut	1" (25 mm)
Max. Tip Opening	0.44" (11.18 mm)



CD-6	
Plastic Only	0.187" (4.75 mm)
Full Flush Cut	Tapered Outside Edge
Angle	15°
Length of Cut	0.875" (22.22 mm)
Max. Tip Opening	0.484" (12.25 mm)



CD1-CH CD-11CH	
Max. Soft Wire	0.06" (1.5 mm)
Semi-Flush Cut-CD-1CH	.007" (0.18 mm)
Flush Cut-CD-11	.007" (0.18 mm)
Angle	45°
Length of Cut	0.43" (11 mm)
Max. Tip Opening	0.20" (5 mm)



CD-7	
Max. Soft Wire	0.05" (1.2 MM)
Semi-Flush Cut	0.007" (0.18 mm)
Angle	15°
Length of Cut	0.83" (21 mm)
Max. Tip Opening	0.30" (7.63 mm)



CD-3CH CD-31CH	
Max. Wire	0.05" (1.2 mm)
Semi-Flush Cut-CD-3CH	.007" (0.18 mm)
Flush Cut—CD-31CH	.007" (0.18 mm)
Angle	15°
Length of Cut	0.83" (21 mm)
Max. Tip Opening	0.30" (7.63 mm)

OPTIONAL POWER PACKS pg 13

ACCESSORIES pg 30

(Bench Stands, Tool Balancers, Safety Guards, and Foot Switches)

JAW SETS FOR SP-01P | SP-01PF | SP-02P | SP-02PF | SM-100



FS-1CH FS-1-CARBIDE	
FS-1: Filament shears for cutting fine wire, nickel ribbon, or soft wire of any metal up to 0.13" diameter (3.3 mm). Jaws are 0.75" (19 mm) long. Maximum tip opening 0.21" (5.3 mm)	
FS-1-CARBIDE: Has a Carbide Cutting Edge	



01X-566	
Carbide Serrated Cutting edge, filament shears for cutting fine wire, nickel ribbon or soft wire of any metal up to 0.13" diameter (3.3 mm).	
Length of Cut	.15" (4 mm)
Max. Tip Opening	.34 "(8.3 mm)



HMCC-1	
Soft Copper Wire	.031" (0.78 mm)
Rise	.041" (1.04 mm)
Angle	45°
Length of Cut	0.13" (3.3 mm)
Max. Tip Opening	0.20" (5 mm)



01X-163	
Soft Wire Center Cut	.093"
Angle	0°
Length of Cut	1.09"
Max. Tip Opening	0.38" (5 mm)



PC-311F	
PC Tab Cutter	0.05" (1.27 mm)
Flush Cut	
Angle	25°
Length of Cut	0.45" (11.45 mm)
Max. Tip Opening	0.26" (6.60 mm)



01X-677	
Gripping Jaws	
Length of Cut	1.09"
Max. Tip Opening	0.5"

OPTIONAL POWER PACKS pg 13

ACCESSORIES pg 30

(Bench Stands, Tool Balancers, Safety Guards, and Foot Switches)

PNEUMATIC SINGLE STAGE POWER PACKS

- Power Packs available in hand or foot-switch activated models. 1/8" ports.
- 5' air hose assembly included. 1/8 & 1/4 NPT fittings.
- Standard cam (25-H) installed on all power packs unless otherwise specified.



SP-002F SHOWN



*** Jaws Sold Separately***

*** 5' Hoses included with Power Packs***

OPTIONAL JAW SETS pg 18-19

ACCESSORIES pg 30

(Bench Stands, Tool Balancers, Safety Guards, and Foot Switches)

SP-002 SP-002F (Foot Operated)	
LENGTH	4" (100.00 mm)
WEIGHT	1 lb.
DIAMETER	1.72" (43.75 mm)
CFM @ 30 STROKES/MIN	0.09 cfm
CLOSING FORCE @ 80 PSI	** Up to 1120 lbs.
CAM	Hexagon
MATERIAL	Aluminum

SP-003 SP-003F (Foot Operated)	
LENGTH	4" (100.00 mm)
WEIGHT	1 lb. 7 oz.
DIAMETER	2.22" (56.25 mm)
CFM @ 30 STROKES/MIN	0.16 cfm
CLOSING FORCE @ 80 PSI	** Up to 2000 lbs.
CAM	Hexagon
MATERIAL	Aluminum

SP-004 SP-004F (Foot Operated)	
LENGTH	4" (100.00 mm)
WEIGHT	1 lb. 8 oz.
DIAMETER	2.46" (62.50 mm)
CFM @ 30 STROKES/MIN	0.20 cfm
CLOSING FORCE @ 80 PSI	** Up to 2400 lbs.
CAM	Hexagon
MATERIAL	Aluminum

SP-006 SP-006F (Foot Operated)	
LENGTH	4" (100.00 mm)
WEIGHT	1 lb. 8 oz.
DIAMETER	2.46" (62.50 mm)
CFM @ 30 STROKES/MIN	0.20 cfm
CLOSING FORCE @ 80 PSI	** Up to 2400 lbs.
CAM	Hexagon
MATERIAL	Aluminum

** Closing force depends upon jaws used and Cam position. Call for more information.

PNEUMATIC DOUBLE STAGE POWER PACKS

OUR MOST POWERFUL SERIES OF POWER PACKS

- Two stage air cylinder
- Ergonomically designed
- Available in hand and foot-switch activated models. 1/8" ports
- 5' air hose assembly(s) included. 1/8 & 1/4 NPT fittings.



SP-002.5 SP-002.5F (Foot Operated)	
LENGTH	5.75"
WEIGHT	1.5 lbs.
DIAMETER	2.0"
CFM @ 30 STROKES/MIN	.3 cfm
CLOSING FORCE @ 80 PSI	** Up to 2400 lbs.
CAM	Hexagon
MATERIAL	Aluminum



SP-005 SP-005F (Foot Operated)	
LENGTH	5.63" (142.87 mm)
WEIGHT	2 lbs. 2 lbs.
DIAMETER	2.5" (63.5 mm)
CFM @ 30 STROKES/MIN	0.35 cfm
CLOSING FORCE @ 80 PSI	** Up to 3500 lbs.
CAM	Hexagon
MATERIAL	Aluminum



SP-008 SP-008F (Foot Operated)	
LENGTH	5.63" (142.87 mm)
WEIGHT	2 lbs. 2 oz.
DIAMETER	2.5" (63.5 mm)
CFM @ 30 STROKES/MIN	0.35 cfm
CLOSING FORCE @ 80 PSI	** Up to 4000 lbs.
CAM	Hexagon
MATERIAL	Aluminum

**** Closing force depends upon jaws used and Cam position. Call for more information.**

OPTIONAL JAW SETS pg 18-19

ACCESSORIES pg 30

(Bench Stands, Tool Balancers, Safety Guards, and Foot Switches)

*** Jaws Sold Separately***

*** 5' Hoses included with Power Packs***

JAW AND HOUSING ASSEMBLIES

FOR SP-002 THROUGH SP-008 POWER PACKS

- Hand and foot activated models.
- Lightweight aluminum housing.
- Jaws can easily be reversed in the housing to permit either right-hand or left-hand operation.

All jaws are made of hardened tool steel. As with all Simonds jaws, special tools can be engineered and manufactured upon request.

B-Series
Jaws are hardened and ground for semi-flush cutting of mild wire up to 0.25". Cutting edges are parallel with axis of housing actuator.



B-SERIES—STRAIGHT CUTTING JAWS

Catalog No.	B-31CH	B-32CH	B-33CH	B-35	B-38
Housing Length	4.18" (106.25 mm)	4.18" (106.25 mm)	4.18" (106.25 mm)	4.18" (106.25 mm)	4.18" (106.25 mm)
Overall Length	5.90" (149.9 mm)	5.29" (134.4 mm)	5.90" (149.9 mm)	4.92" (125 mm)	5.29" (149.9 mm)
Weight	1 lb. 8 oz.	1 lb. 6 oz.	1 lb. 8 oz.	1 lb. 6 oz.	1 lb. 6 oz.
Diameter	1.72" (43.69 mm)	1.72" (43.69 mm)	1.72" (43.69 mm)	1.72" (43.69 mm)	1.72" (43.69 mm)
Length of Cut	1.6" (40.64 mm)	1.04" (26.42 mm)	1.6" (40.64 mm)	0.75" (19.10 mm)	0.93" (23.62 mm)
Max. Opening	0.68" (17.27 mm)	0.49" (12.45 mm)	0.68" (17.27 mm)	0.31" (7.91 mm)	0.38" (9.53 mm)
Cutting Edge	Side Cut	Side Cut	Center Cut	Center Cut	Side Cut

D-Series
Semi-flush cutter, set at an angle of 25° or 45° to allow access to vertical screws, wires, etc.



Left is picture of SG-3 Guard for B-Series Jaws

D-SERIES—DIAGONAL CUTTING JAWS

Catalog No.	D-31\ D-31CH	D-33	D-4-D2
Housing Length	4.18" (106.23 mm)	4.18" (106.23 mm)	4.18" (106.23 mm)
Overall Length	4.68" (118.75 mm)	4.68" (118.75 mm)	4.68" (118.75 mm)
Weight	1 lb. 5 oz.	1 lb. 5 oz.	1 lb. 5 oz.
Diameter	1.72" (43.69 mm)	1.72" (43.69 mm)	1.72" (43.69 mm)
Length of Cut	0.43" (10.92 mm)	0.86" (21.84 mm)	0.74" (18.75 mm)
Max. Opening	0.31" (7.81 mm)	0.62" (15.63 mm)	0.43" (10.94 mm)
Angle	45°	25°	25°

[POWER PACKS pg 16-17](#)

[ACCESSORIES pg 30](#)

(Bench Stands, Tool Balancers, Safety Guards, and Foot Switches)

JAW AND HOUSING ASSEMBLIES

FOR SP-002 THROUGH SP-008 POWER PACKS

All of Simonds jaws are designed to perform for extended periods on the production line, and built to handle the toughest assignment. Replacement jaws may be ordered separate from housing.

Consult your distributor.

Simonds team of engineers can design and manufacture jaws that more specifically meet the needs of your production line.

POWER PACKS pg 16-17

ACCESSORIES pg 30

(Bench Stands, Tool Balancers, Safety Guards, and Foot Switches)



A-3 JAW AND HOUSING

These jaws, made of unhardened tool steel can be used as holding pliers or can be machined to meet special requirements for holding or cutting.

E-Series

These jaws are designed to cut rubber hose, plastic tubing with a brass anvil on one side and cutting jaw on the other



SA-2000 CABLE CUTTER

Housing Length	4.18" (106.25 mm)
Overall Length	7" (177.8 mm)
Weight	2 lb. 2 oz.
Diameter	1.72" (43.69 mm)
Length of Cut	N/A
Maximum Opening	5/8" Copper Cable
Maximum Opening	0.44" (11.18 mm)
Angle	45°

E-SERIES CABLE CUTTING JAWS

Catalog No.	E-3	E-4
Housing Length	4.18" (106.25 mm)	4.18" (106.25 mm)
Overall Length	5.9" (149.9 mm)	6.89" (175 mm)
Weight	1 lb. 6 oz.	1 lb. 8 oz.
Diameter	1.72" (43.69 mm)	1.72" (43.69 mm)
Length of Cut	1.48" (37.5 mm)	2.72" (69.05 mm)
Maximum Opening	0.44" (11.18 mm)	1" (25.4 mm)
Angle	45°	25°

P-Series

For plastic cutting ONLY.

Cutting of steel will damage these blades.

For more plastic gate cutting tools refer to our page 27.



P-SERIES PLASTIC GATE CUTTING JAWS

Catalog No.	PGC-4CH	PGC-4-30	PGC-4-45	PGC-4-60	PGC-4-90
Housing Length	4.18" (106.25 mm)	4.18" (106.25 mm)	4.18" (106.25 mm)	4.18" (106.25 mm)	4.18" (106.25 mm)
Overall Length	5.41" (137.5 mm)	6.26" (168.3 mm)	6.26" (168.3 mm)	6.03" (153.4 mm)	5.56" (141.2 mm)
Weight	1 lb. 5 oz.	1 lb. 6 oz.	1 lb. 6 oz.	1 lb. 5 oz.	1 lb. 6 oz.
Diameter	1.72" (43.75 mm)	1.72" (43.75 mm)	1.72" (43.75 mm)	1.72" (43.75 mm)	1.72" (43.75 mm)
Length of Cut	0.86" (21.88 mm)	1.16" (29.62 mm)	1.12" (28.49 mm)	1.15" (29.25 mm)	1.16" (29.50 mm)
Maximum Open	0.62" (15.63 mm)	0.82" (20.83 mm)	0.70" (18.02 mm)	0.65" (16.65 mm)	0.51" (12.93 mm)
Cutting Angle	25°	30°	45°	60°	90°

All of Simonds Inc. tools are made to exacting standards by skilled crafts men. In-house engineers can design jaws to meet your needs on the production line.

SPECIALITY TOOLS

*** PLEASE CONTACT FACTORY FOR A COMPLETE LISTING OF PTX SPECIALTY TOOLS

SR-100 SNAP RING TOOL

Jaw opening adjustment screw is located at rear of the power pack.
 Jaw sets are hardened tool steel and feature vertical 45° or 90° tips (optional) for hard to reach into areas.
 Power Packs Range: **MSP-1** to **SP-002**
 Snap Ring Size: 1/4" diameter to 6" diameter.

Contact factory representative for a complete list of models.



HOSE CLAMP TOOLS

This series of tools feature power packs ranging from **SP-01P** to **SP-003**. These, combined with the special jaws can manipulate a wide variety of hose clamps (1/4" up to 3").

These pneumatic tools can be used for crimping clamps for automotive, RV, appliance, and HVAC production lines. Proven tools for improving production and lowering injuries due to repetitive motions.

A complete model listing and specially engineered tools are available from the factory.



SM-350

Single wire clamp tool. Fits up to 2.68" clamp.
CLAMP WILL NOT TWIST.

SM-200



PTX-125



SPECIALITY TOOLS

*** PLEASE CONTACT FACTORY FOR A COMPLETE LISTING OF PTX SPECIALTY TOOLS

BALL CRIMP TOOLS: BC-004 | BC-006

Used on copper and aluminum tubing. The BC Series are hand held crimping tools that push a "ball" on one side of the jaw into a "socket" located on the opposite side. This tool can lock onto the tubing, so that the ends may be silver soldered.

BC-004 for 1/4" tubing

BC-006 for 3/8" tubing

This series of tools features our "reverse valve" which means when the tool is "at rest", the jaws are held in the closed position. Any of the ball crimp tools are available in a foot-switch model (add suffix "F")



PINCH OFF TOOLS: PO-004 | PO-006

Used on copper and aluminum tubing. The PO series are hand held tools that pinch off a tight seal for copper and aluminum.

PO-004 for 1/4" tubing

PO-006 for 3/8" tubing



CABLE CUTTER PTX-938

Wire cutter used for large cable cutting up to 1/0 wire. Using either an **SP-008**, **SP-008F**, **SP-005**, or a **SP-005F** power pack, this tool has the power to handle the large jobs.



PTX-200

Small E-CLIP Tool.

SPECIALTY TOOLS CAN BE CUSTOMIZED TO YOUR SPECIFICATIONS. PLEASE CALL FOR MORE INFORMATION.



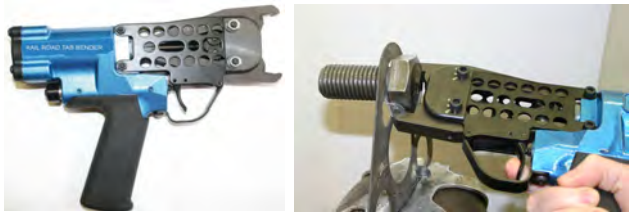
PTX-313

Small Crimping tool

SPECIALTY TOOLS CAN BE CUSTOMIZED TO YOUR SPECIFICATIONS. PLEASE CALL FOR MORE INFORMATION.



SPECIALITY TOOLS



RAILCAR WHEEL TAB BENDER

Air operated crimping tool to bend over locking tabs on axle bearing caps. Simonds has tools for cap screw size 1/2" to 1 1/4" weighing 3.2 lbs. with overall length of 9.5".

MODEL NUMBER	CAP SCREW SIZE	FREIGHT AXLE	PASSENGER AXLE CLASS	LOCOMOTIVE AXLE CLASS
RR-500	1/2"			
RR-625	5/8" & 3/4"			
RR-875	7/8"	Class D—50 Tons	E,F/EE,G	GG
RR-1000	1" & 1 1/8"	Class E-F—70-100 Tons		G
RR-1250	1 1/4"	Class G—125 Tons		
CR-875	7/8"			



CABLE STRIPPING TOOLS

Custom tools are designed to remove the copper sheathing that is under the plastic coating and over the coax insulation and slides the copper jacket off with ease. This helps to reduce fatigue.



CUSTOM WIRE CRIMP TOOLS



FLATTENING TOOLS

Engineered to reduce copper or aluminum tubing to a smaller diameter. Mainly used in the HVAC industry.



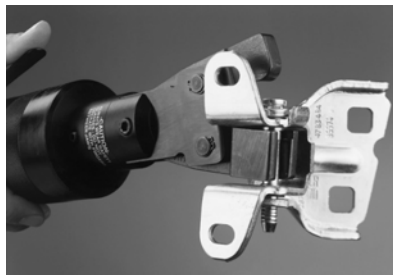
PLASTIC TUBE CUTTERS

Custom tools are designed for cutting plastic tubing up to 1" diameter without distorting the tube. Jaw set consists of one "U" shaped bottom jaw to hold tubing in place.



STRAP BAND TOOLS

Heavy duty, shear cutting jaw designed to cut metal strap banding up to 1". (Special) Requires **A4X-720-5** (Special) cam on power pack.



PIN DRIVER SERIES

Designed primarily for automotive door hinge pin installation and removal, features our **SP-006** or **SP-008** power packs. Jaw sets are available for either pin installation or pin removal. Pin tools engineered for tailgate, side door, and widow hinge pin applications are also available. **Contact the factory for details.**

HYDRAULIC CRIMPING TOOL

HY-SERIES



SIMONDS INC., has developed this series of hydraulic crimping outfits to produce a permanent, bilateral seal in ductile metal tubing by symmetrically collapsing, cold welding, and severing tubulation with no loss of vacuum or pressure.

- Hand guided, one step crimp/seal
- For air conditioner, refrigerator, laser tubing
- Produces quick, airtight bonds



HYDRAULIC CRIMPING TOOL

PRODUCT NUMBERS	TUBING DIA. (x.035" WALL)	ELONGATION (per side)	FLARE (razor edge)	DISTORTION (min. stub length)
HY-125	1/8"	0.50" (1/8")	0.170"	0.125"
HY-187	3/16"	0.50" (1/8")	0.250"	0.187"
HY-250	1/4"	0.50" (1/8")	0.350"	0.250"
HY-500	1/2"	0.55" (3/16")	0.750"	0.500"



Simonds

World Leader in Pneumatic Hand Tools

PLASTICS

**GATE CUTTING
DE-GATING
ROBOTICS/AUTOMATION**

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SALES@SIMONDS-INC.COM
WWW.SIMONDS-INC.COM

PNEUMATIC POWER PACKS

* Shown with optional jaw sets.



This miniature power pack is for use with the cutting, crimping and bending jaws. A built-in adjusting screw controls the opening of the jaw sets.

MSP-1 MSP-1F (Foot Operated)	
LENGTH	5"
WEIGHT	11 oz
DIAMETER	1.25" (31.75 mm)
CFM @ 30 STROKES MIN.	0.03 cfm
CLOSING FORCE @ 80 PSI	** Up to 100 lbs.
MATERIAL	Aluminum



The **SM-50** is used with the **PGC-1.5** jaws only.

SM-50 Robotic/Automation	
LENGTH	3.72" (94.49 mm)
WEIGHT	4 oz.
DIAMETER	1.25" (31.75 mm)
CFM @ 30 STROKES MIN.	0.03 cfm
CLOSING FORCE @ 80 PSI	** Up to 56 lbs.
MATERIAL	Aluminum



The **SM-55** is used with the **PGC-1.5** jaws only.

SM-55 Robotic/Automation	
LENGTH	5.02" (127.5 mm)
WEIGHT	7.2 oz.
DIAMETER	1.25" (31.75 mm)
CFM @ 30 STROKES MIN.	0.09 cfm
CLOSING FORCE @ 80 PSI	** Up to 112 lbs.
MATERIAL	Aluminum

**** Closing force depends upon jaws used and Cam position. Call for more information.**

*****Jaws Sold Separately*****

*****5' Hoses included with Power Packs*****

[OPTIONAL JAW SETS pg 27](#)

[ACCESSORIES pg 30](#)

(Bench Stands, Tool Balancers, Safety Guards, and Foot Switches)

PNEUMATIC POWER PACKS

*Shown with optional jaw sets



A built-in adjusting screw controls the opening of the jaw sets.

SP-01P SP-01PF (Foot Operated)	
LENGTH	5.5"
WEIGHT	11 oz
DIAMETER	1.5"
CFM @ 30 STROKES/MIN	.041 cfm
CLOSING FORCE @ 80 PSI	** Up to 575 lbs.
CAM	Piston Style
MATERIAL	Aluminum



Our foot model (shown here) includes two 5' hoses.

SP-02P SP-02PF (Foot Operated)	
LENGTH	5.5"
WEIGHT	13 oz
DIAMETER	1.75"
CFM @ 30 STROKES/MIN	.045 cfm
CLOSING FORCE @ 80 PSI	** Up to 850 lbs.
CAM	Piston Style
MATERIAL	Aluminum



The SM-100 is designed to use the same jaws as the SP-01P and the SP-02P power packs.

SM-100 Robotic/Automation	
LENGTH	4.8"
WEIGHT	12 oz
DIAMETER	1.75"
CFM @ 30 STROKES/MIN	.041 cfm
CLOSING FORCE @ 80 PSI	** Up to 575 lbs.
CAM	Piston Style
MATERIAL	Aluminum

**** Closing force depends upon jaws used and Cam position. Call for more information.**

OPTIONAL JAW SETS pg 27

ACCESSORIES pg 30

(Bench Stands, Tool Balancers, Safety Guards, and Foot Switches)

Jaws Sold Separately

5' Hoses included with Power Packs

JAW SETS FOR SP-01P | SP-01PF | SP-02P | SP-02PF | SM-100



PGC-2CH	
Angle	18°
Length of Cut	7/8" (22 mm)
Type of Cut	Flush
Max. Opening	31/64" (12.25 mm)



PGC-7	
Angle	Straight Cutter
Length of Cut	1" (25 mm)
Type of Cut	Flush
Max. Opening	7/16" (11.23 mm)



PGC-2-45	
Angle	45°
Length of Cut	5/64" (20 mm)
Type of Cut	Flush
Max. Opening	29/64" (11.48 mm)



PGC-8	
Angle	End Cutter
Length of Cut	19/64" (7.5 mm)
Type of Cut	Flush
Max. Opening	29/64" (11.70 mm)



PGC-2-60	
Angle	60°
Length of Cut	3/4" (19 mm)
Type of Cut	Flush
Max. Opening	13/32" (10.50 mm)

USED WITH MSP-1 ONLY



PGC-1	
Angle	18°
Length of Cut	9/16" (14mm)
Type of Cut	Flush
Plastics Only	



PGC-2-90	
Angle	90°
Length of Cut	1" (25 mm)
Type of Cut	Flush
Max. Opening	23/64" (9.06 mm)

USED WITH SM-50 AND SM-55 ONLY



PGC-1.5	
Angle	0°
Length of Cut	7/8" (22 mm)
Type of Cut	Flush
Max. Opening	7/32" (5.56 mm)



CD-6	
Angle	15°
Length of Cut	7/8" (22 mm)
Plastics Only	Tapered Outside Edge
Max. Opening	To 0.18" (4.75 mm)

OPTIONAL POWER PACKS pg 25-26

ACCESSORIES pg 30

(Bench Stands, Tool Balancers, Safety Guards, and Foot Switches)

PNEUMATIC POWER PACKS

- Power Packs available in hand or foot switch activated models. 1/8" ports
- 5' air hose assembly(s) included. 1/8 and 1/4 NPT fittings
- Standard cam (25-H) installed on all power packs unless otherwise specified



SP-002F SHOWN



*** Jaws Sold Separately***

*** 5' Hoses included with Power Packs***

OPTIONAL JAW SETS pg 29

ACCESSORIES pg 30

(Bench Stands, Tool Balancers, Safety Guards, and Foot Switches)

SP-002 SP-002F (Foot Operated)	
LENGTH	4" (100.00 mm)
WEIGHT	1 lb.
DIAMETER	1.72" (43.75 mm)
CFM @ 30 STROKES/MIN	0.09 cfm
CLOSING FORCE @ 80 PSI	** Up to 1120 lbs.
CAM	Hexagon
MATERIAL	Aluminum

SP-003 SP-003F (Foot Operated)	
ENGTH	4" (100.00 mm)
WEIGHT	1 lb. 7 oz.
DIAMETER	2.22" (56.25 mm)
CFM @ 30 STROKES/MIN	0.16 cfm
CLOSING FORCE @ 80 PSI	** Up to 2000 lbs.
CAM	Hexagon
MATERIAL	Aluminum

SP-004 SP-004F (Foot Operated)	
LENGTH	4" (100.00 mm)
WEIGHT	1 lb. 8 oz.
DIAMETER	2.46" (62.50 mm)
CFM @ 30 STROKES/MIN	0.20 cfm
CLOSING FORCE @ 80 PSI	** Up to 2400 lbs.
CAM	Hexagon
MATERIAL	Aluminum

SP-002.5 SP-002.5F (Foot Operated)	
LENGTH	5.75"
WEIGHT	1.5 lbs.
DIAMETER	2.0"
CFM @ 30 STROKES/MIN	.3 cfm
CLOSING FORCE @ 80 PSI	** Up to 2400 lbs.
CAM	Hexagon
MATERIAL	Aluminum

** Closing force depends upon jaws used and Cam position. Call for more information.

JAWS AND HOUSINGS FOR SP-002 | SP-002.5 | SP-003 | SP-004

- Lightweight aluminum housing
- Jaws can easily be reversed in the housing to permit either right-hand or left-hand operation
- All jaws made of hardened tool steel

Even pressure on the jaws, created by Simonds power packs, makes cutting gates and sprues easy and clean. Combined with Simonds power packs these jaws will handle most jobs in the injection molding industry.

OPTIONAL POWER PACKS pg 28

ACCESSORIES pg 30

(Bench Stands, Tool Balancers, Safety Guards, and Foot Switches)



PGC-4CH	
HOUSING LENGTH	4 1/4" (106.25 mm)
OVERALL LENGTH	5 7/8" (149 mm)
WEIGHT	1 lb. 5 oz.
DIAMETER	1 3/4"
LENGTH OF CUT	7/8" (21.62 mm)
MAX. OPENING	5/8" (15.85 mm)
CUTTING ANGLE	25°



PGC-4-60	
HOUSING LENGTH	4 1/4" (106.25 mm)
OVERALL LENGTH	6" (152 mm)
WEIGHT	1 lb. 5 oz.
DIAMETER	1 3/4"
LENGTH OF CUT	1 5/32" (29.33 mm)
MAX. OPENING	11/16" (17.23 mm)
CUTTING ANGLE	60°



PGC-4-30	
HOUSING LENGTH	4 1/4" (106.25 mm)
OVERALL LENGTH	6 5/8" (175 mm)
WEIGHT	1 lb. 5 oz.
DIAMETER	1 3/4"
LENGTH OF CUT	1 1/8" (28.57 mm)
MAX. OPENING	7/8" (22.48 mm)
CUTTING ANGLE	30°



PGC-4-90	
HOUSING LENGTH	4 1/4" (106.25 mm)
OVERALL LENGTH	5 1/2" (139 mm)
WEIGHT	1 lb. 5 oz.
DIAMETER	1 3/4"
LENGTH OF CUT	15/32" (29.33 mm)
MAX. OPENING	17/32" (13.64 mm)
CUTTING ANGLE	90°



PGC-4-45	
HOUSING LENGTH	4 1/4" (106.25 mm)
OVERALL LENGTH	6 3/16" (157 mm)
WEIGHT	1 lb. 5 oz.
DIAMETER	1 3/4"
LENGTH OF CUT	1 7/64" (28.12 mm)
MAX. OPENING	11/16" (17.23 mm)
CUTTING ANGLE	45°



F-206*	
HOUSING LENGTH	4 1/4" (106.25 mm)
OVERALL LENGTH	5 13/32" (137 mm)
WEIGHT	1 lb. 5 oz.
DIAMETER	1 1/2"
LENGTH OF CUT	3/8" (9.44 mm)
MAX. OPENING	13/32" (10.63 mm)
CUTTING ANGLE	End Cutter

*F-206 jaw set only used with the SP-002 through SP-004. This is a special order only, with longer lead times and quoted price. Replacement jaws may be purchased separate from housing. All Simonds jaws are able to be re-sharpened at the factory.

ACCESSORIES

WS-2000 ERGONOMIC WORK STATION

- 36" horizontal, 180° boom
- 48" vertical column with a base that mounts easily to bench tops.
- Boom can be adjusted vertically higher or lower on the column to suit your specific application.
- Balancer trolley included
- Trolley supports up to 30 pounds.

The WS-2000 Ergonomic Work Station is a heavy duty support system for use with any of the power packs in our product line.



Tool balancer and harness shown in picture sold separate.

TOOL BALANCER

TB-1	TB-2	TB-3
1 lbs.	5 lbs.	11 lbs.

Supports to weight shown

TOOL HARNESS

TH-1	TH-2
Use w/ SP-01P-SP-02P	Use w/SP-002-SP-008

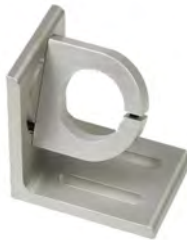
FOOT SWITCHES

ITEM NUMBER	For use with all power packs with "F" suffix. (i.e. SP-002F)
103	
107	



REMOTE POWER PACK BENCH STAND

ITEM NUMBER	USE WITH POWER PACK
A-202-1	SP-01PF
A-202-2	SP-02PF and SP-002F
A-202-3	SP-003F
A-202-4	SP-004F and SP-005F
A-202-6	SP-006F
A-202-8	SP-008F



AIR HOSES

With two 1/8" npt fittings

5' 7' 10' 15'

With one 1/8" npt and one 1/4" npt fitting

5' 7' 10' 15'



SAFETY GUARDS

SG-2	For use with SA-2000
SG-3	(shown) up to 5/32 wire
SG-4	Up to 7/32 wire
EG-1-1	For use with MSP-1

Contact a distributor for specifications.



EXTENTIONS

- Prevents Injury from whip back
- Relieves ergonomic issues or repetitive cutting of stiff wires.
- For use with all range of power packs

2.5" 10" 18" 36"



The **WS-2000** and **A-202 Series** of work stations and bench stands are designed to be mounted on tables or work stations by either bolting through holes provided, or by using Simonds part number **BC-1** bench clamp. The **A-202** series of bench stands allows the tool to be rotated easily to position the tool for optimum cutting. The bench stand is further designed to be easily integrated onto robotic arms or moving work stations.



World Leader in Pneumatic Hand Tools

Simonds Inc. has been a family owned and operated business for three generations. We have been proudly manufacturing ergonomic tools for the aerospace, injection molding, and automotive industries for over fifty years.

Located in Southbridge Massachusetts, Simonds manufactures specially designed tools. These tools meet the demanding and intricate specifications that our customers need. They substantially reduce injury related to repetitive motion, while improving production and reliability.

Here at Simonds we strive to provide comfort and safety for the operator. Our engineers work closely with our customers to assess challenges within manufacturing industries and provide viable and ergonomic solutions to optimize production.

Our engineers and sales team are available for consulting Mon-Fri 9:00am - 5:00pm EST.

WARRANTY

Simonds power packs are warranted to be free from defects in materials and workmanship for a period of one year, barring alterations, abuse or misuse. All products returned for warranty repair must be sent to Simonds Inc., Southbridge, MA at end users expense, where it will be repaired or replaced at the company's discretion.

MISSION STATEMENT

- 1) TO PROVIDE SAFE AND RELIABLE PNEUMATIC AND HYDRAULIC HAND TOOLS TO OUR CUSTOMERS, ASSOCIATES, AND DISTRIBUTORS.
- 2) TO PROVIDE ADVANCED SOLUTIONS TO THE CUTTING, CRIMPING, AND DE-GATING CHALLENGES WITHIN THE INDUSTRIES.
- 3) TO INCREASE PRODUCTION AND DECREASE INJURY BY PROVIDING TOOLS WITH ERGONOMIC DESIGNS AND ADVANCED ENGINEERING.

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