

Industrial Cable Cutting Automotive Assembly Aerospace Assembly Crimping



MADE IN



U. S. A.

www.simonds-inc.com
www.youtube.com/simondsinc

April 15, 2015



For over thirty years Simonds Inc. has been the acknowledged leader in ergonomic air-powered and hydraulic tools.

Manufacturing from a small town in Massachusetts, this family owned business has distributors all around the world, selling to end users in the industrial, plastics, electronics, automotive, marine and aerospace industries.

Simonds tools are designed to meet the demanding specifications of all industries and can be mounted either on robots or stationary work stations. Simonds hand held tools are ergonomic in design, helping to reduce injuries due to repetitive motion, cut back on operator fatigue and help increase product output.

Simonds engineers can design special cutting blades for work that requires different opening, tighter fits and special angles. All tools are designed with the end users safety , comfort and end product needs in mind.

MISSION STATEMENT

- TO OWN THE PNEUMATIC/HYDRAULIC HAND TOOL BUSINESS, THROUGH THE USE OF ERGONOMIC DESIGNS AND ADVANCED ENGINEERING.
 - TO PROVIDE SOLUTIONS TO THE CUTTING, CRIMPING AND DEGATING PROBLEMS OF THE INDUSTRIES.
- TO PROVIDE THE FINEST PNEUMATIC HAND TOOLS AS MEASURED BY OUR CUSTOMERS, ASSOCIATES AND SUPPLIERS.

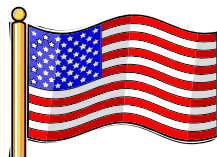
Call Simonds Inc. For A Distributor Near You

Phone—866-764-3235 Fax—866-678-5765

sales@simonds-inc.com

WARRANTY

Simonds Inc. power packs and jaws 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 companies discretion. Warranty returns accepted only through distributors with proper RMA.



MADE WITH PRIDE IN THE U.S.A.

SQUEEZE-EZE™ POWER PACKS

SP-01P with Optional jaw



SP-01P Squeeze-Eze™ Power Pack

This tool can develop 575 lbs. of force @ 80 psi and is designed to be used with the jaw sets listed below. The tool is small (5 1/2" long x 1 1/2" diameter), lightweight (11 oz) and can be operated at air pressures of 60-100 psi. A built in adjusting screw controls the opening of the jaw. **All power packs sold less jaws. Order jaws separate.**

A foot operated model is available (SP-01PF) which includes two (2) 5 foot air hoses and hex keys. Optional WS-2000 work station, A-202-1 bench stand and 107 four way footswitch are available.

SP-02P Squeeze-Eze™ Power Pack

SP-02P is designed to use the identical jaws as the SP-01P, but delivers considerably more power for tougher applications. Made of durable aluminum, the tool is small (5 1/2" long x 1 3/4" diameter), lightweight (13 oz) and can be operated at air pressure of 60-100 psi (850 lbs. of cutting force). Will cut up to 0.10" soft steel wire.

A foot operated model is available (SP-02PF) which includes two (2) 5 foot air hoses and hex keys. Optional WS-2000 work station, A-202-2 bench stand and 107 four way footswitch are available. As with the SP-01P, the SP-02P uses the jaw sets listed below. **Jaws are optional. Order separate.**

SP-02PF with Optional Jaw



SM-100 Robotic/Automatic Power Pack with Optional Jaw

The SM-100 is designed to use the same jaws as the SP-01P and the SP-02P power packs. Light weight (12 oz.), small (4.38" long x 1 1/2" diameter), this dynamo fits most robotic and automatic needs. The SM-100 can use air pressure of 60-100 psi and develops a cutting force of 800 lbs. **Jaws are optional. Order separate.**

CD-1CH\CD-11CH



Max. Soft Wire	0.06" (1.52 mm)
Semi-Flush Rise CD-1CH	.007" (0.18 mm)
Flush Cut CD-11CH	
Angle	45°
Length of Cut	0.43" (11 mm)
Max. Tip Opening	0.20" (5.08 mm)

CD-3CH\CD-31CH



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

CD-4CH



Max. Soft Wire	0.08" (2.03 mm)
Semi-Flush Cut	Center Cut
Angle	N/A
Length of Cut	0.50" (12.7 mm)
Max. Tip Opening	0.19" (4.83 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)

FS-1CH\FS-1-CARBIDE



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).	
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SJ-1A



For use as a holding pliers or can be machined to suit special requirements for cutting, crimping or holding. Jaws are 0.30" (7.62 mm) thick. Maximum tip opening 0.39" (9.90 mm).	
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SQUEEZE-PLIERS™ JAW AND HOUSING ASSEMBLIES

Each assembly comprises a pair of moveable jaws pivoted in one end of an aluminum housing that screws (hand tight) onto the threaded stem of any power pack in the SP-002 to SP-008 series. Rollers at the inside edges of the jaws are squeezed together as the cam moves forward under air-pressure.

Replacement jaws may be ordered separate from housing, consult your distributor or price list.

Movement of the jaws is the same for all power-packs; the only difference is more power is developed with the larger diameter packs. The most powerful actuator can be used on the lightest work without harm to cutting edges because cams and jaws are constructed so that cutting edges never meet. The 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. A "Request for Engineering" form may be found on our web site www.simonds-inc.com.

B-SERIES—STRAIGHT CUTTING JAWS

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. **The B-38 jaw is designed to cut 3/16" (4.76 mm) air craft cable.**



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



Catalog No.	B-31/B-31CH	B-32/B-32CH	B-33/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—DIAGONAL CUTTING JAWS



C-Series
End cutting jaws. Jaw sets have removable inserts for end cutting mild steel up to 1/8" diameter. Use only with SP-002 power pack

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



Catalog No.	C-22	C-23	C-23
Housing Length	3.87"	3.87"	3.87"
Overall Length	4.75"	4.75"	4.75"
Weight	13 oz.	13 oz.	13 oz.
Diameter	1.5"	1.5"	1.5"
Length of Cut	3/4"	3/4"	3/4"
Max. Opening	3/8"	3/8"	3/8"
Cutting Edge	Soft	Tool Steel	Carbide

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°

SQUEEZE-PLIERS JAW AND HOUSING ASSEMBLIES (cont.)

All of Simonds jaws are designed to perform for extended periods on the production line. Coupled with a large selection of power packs, these jaw and housing assemblies will 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.



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—CABLE CUTTING JAWS

The E-series of jaws was designed with a brass anvil on one side and a cutting jaw on the other. These jaws are ground to cut rubber hose, plastic tubing, ribbon cable and soft, shielded copper cable.



SA-2000 CABLE CUTTER JAW

Catalog No.	SA-2000
Housing Length	4.18" (106.25 mm)
Overall Length	7" (177.8)
Weight	2 lb. 2 oz.
Diameter	1.72" (43.69 mm)
Length of Cut	N/A
Maximum Opening	5/8" Copper Cable



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)

P-SERIES –PLASTIC GATE CUTTING JAWS

These type of jaws are used only for plastic cutting.

Cutting of steel will nick the cutters.

For other plastic gate cutting tools refer to our Plastics catalog.



Catalog No.	PGC-4/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 m)	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 craftsman.

In house engineers can design jaws to meet your needs on the production line.

SQUEEZE-PLIERS™ POWER PACKS

This group of air-opened hand tools comprises five actuators that can be used interchangeably with any of the jaw sets described on pages 4 and 5. Standard power packs have a stroke of 1-1/2" and may be operated at 60-100 psi. For hand operation each pack is furnished with a lever controlled internal air valve and a 5' air hose.

The actuators can be furnished for foot-operation by designating the suffix "F" in the part number (i.e. SP-002F). This style does not have the lever operated air valve, but instead has 2 - 1/8" ports in the rear of the pack for connection to a footswitch or solenoid. Two 5' air hoses are supplied with "F" models, and an optional 4-way footswitch is available (Model #107) if required.



SP-002F SHOWN

SP-002/SP-002F

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	Finish—1120 lbs.
CAM	Hexagon
MATERIAL	Aluminum



SP-003/SP-003F

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	Finish—2000 lbs.
CAM	Hexagon
MATERIAL	Aluminum



SP-004/SP-004F

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	Finish—2400 lbs.
CAM	Hexagon
MATERIAL	Aluminum



SP-006/SP-006F

LENGTH	4" (100.00 mm)
WEIGHT	2 lb. 6 oz.
DIAMETER	3.19" (81.25 mm)
CFM @ 30 STOKES MIN	0.35 cfm
CLOSING FORCE @ 80 PSI	Finish—3200 lbs.
CAM	Hexagon
MATERIAL	Aluminum

Closing force depends upon jaws used and mechanical advantage

SQUEEZE-PLIERS™ POWER PACKS (cont.)

DOUBLE-STAGE POWER PACKS

Our most powerful series of power packs. Ergonomically designed portable hand cutters, these tools eliminate the need for messy hydraulic hand tools. These cutting and degating tools feature a two stage air cylinder design. Easily held by hand, these power packs can also use our tool balancer or bench stand mounting brackets (Pg.11).

These tools use the jaw sets shown on pages 4 and 5.

The actuators can be furnished for foot-operation by designating the suffix “F” in the part number (i.e. SP-008F). This style does not have the lever operated air valve, but instead has two 1/8” ports in the rear of the pack for connection to a footswitch or solenoid. Two 5’ air hoses are supplied with “F” models, and an optional 4-way footswitch is available (Model No. 107).

SP-005/SP-005F



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	Finish- 3500 lbs.
CAM	Hexagon
MATERIAL	Aluminum

SP-008/SP-008F



LENGTH	5.63" (142.87 mm)
WEIGHT	2 lb. 2 oz.
DIAMETER	2.88" (73.02)
CFM @ 30 STROKES/MIN	0.55 cfm
CLOSING FORCE @ 80 PSI	Finish—5000 lbs.
CAM	Hexagon
MATERIAL	Aluminum

SR-100 SNAP RING TOOL



SNAPMASTER™ SERIES

Snap ring pliers on an air powered tool. Power packs range in size from our MSP-1 to SP-002, and can handle rings from 1/4" diameter to 6" diameter.

Our standard SR-100 Snap ring tool has a jaw opening adjustment screw located at rear of the SP-001—SR power pack.

Jaw sets are hardened tool steel and feature vertical, 45° or 90° tips (optional) for hard to reach into areas.

Contact factory representative for complete listing of models.

HOSE CLAMP TOOLS

CLAMPMASTER™ SERIES

Clampmaster™ 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").

Our SM-300 and SM-350 are standard tools and fill 80% of all hose clamp needs.

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



DISC CLAMP TOOL



PTX-125

SM-300

CTB—Constant tension band clamp tool.
Accepts up to 2.44" clamp



SM-350

Single wire clamp tool. Fits up to 2.68" clamp.
Clamp will **NOT TWIST**.



SM-200

Double wire clamp tool.
Accepts up to 1.5" clamp.



PTX-468 OETIKER® CLAMP TOOL

A complete pneumatic tool for crimping Oetiker® clamps for automotive, RV, appliance, HVAC production lines.

A proven tool for increasing production and lower injuries due to repetitive motions.



SPECIALITY TOOLS FOR ALL INDUSTRIES—AUTOMOTIVE, AEROSPACE, MARINE, RAIL ROAD

Simonds is the innovator in pneumatic production tools. Simonds standard line of tools is augmented by special tools made to the specific need of your production line. Automotive hinge pin tools, Oteker® clamp tools, and harness crimping tools are only a small example of special tools designed and manufactured to solve an opportunity on the production line.



BALL CRIMP TOOLS—BC-004/BC-006

This tool is 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 is for 1/4” tubing, BC-006 is 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 footswitch model (add suffix “F”)

PINCH OFF TOOLS—PO-004/PO-006

This tool is used on copper and aluminum tubing. The PO series are hand held tools that pinch off a tight seal for copper and aluminum. The PO-004 is for 1/4” tubing, the PO-006 is for 3/8” tubing.



CABLE CUTTER -PTX-938

PTX-938 wire cutter used for large cable cutting up to 1/0 wire, as shown. Using either an SP-008/SP-008F or SP-005/SP-005F power packs, this tool has the power to handle the large jobs.

EXTENSIONS

Simonds tools also add a dimension of safety. The extensions to our power packs and jaws allow the user to separate themselves from potential injuries. Simonds extensions come in 2 1/2”, 10” and 18”. These are attached to any of the larger power packs (SP-002 to SP-008) and a set of jaws are attached at the other end. These are used in cutting wire off of bales of paper, stones, etc. The tension on the wire can cause a whip back that could injure the user. The tool also relieves the ergonomic issues of repetitive cutting of stiff wires.



SPECIALITY TOOLS FOR ALL INDUSTRIES—AUTOMOTIVE, AEROSPACE, MARINE, RAIL ROAD



RAIL CAR 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" inch. Weighing 3.2# with overall length of 9.5", this tool

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		



COAX CABLE STRIPPING TOOL—PTX-819

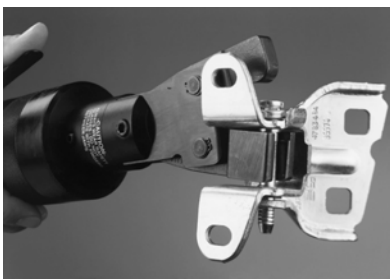
For 0.54" diameter cable, removes approximately 1 7/16" sheathing

This tool was designed to remove the copper sheathing that is under the plastic coating and over the coax insulation. Sliding the wire in with the plastic coating removed and the copper scored the tool will slide the copper jacket off with ease. This helps to reduce fatigue while performing this duty all day long. This tool in action can be viewed on our site at YouTube.com/simondsinc.



PLASTIC TUBE CUTTER

Designed for cutting plastic tubing up to 1/2" diameter with out distorting the tube. Jaw set consists of one "U" shaped bottom jaw to hold tubing in place. The top jaw holds a replaceable razor blade for straight cutting.



PIN DRIVER™ SERIES

Designed primarily for automotive door hinge pin installation and removal, this series of tools features our SP-006 or SP-008 power packs. Jaw sets are available for either pin installation (prior to paint shop, at final door assembly), or pin removal (post-paint, body work). All jaw sets are hardened D-2 tool steel.

Pin tools engineered for tailgate, side door and widow hinge pin applications are also available. Contact the factory for details.



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



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

ERGONOMIC WORK STATIONS AND HOLDERS

Simonds line of ergonomic support systems is for use with any remote power pack or jaw set combination. Helping to relieve the strain and fatigue of hefting a power pack all day, these systems will help improve productivity while eliminating injuries through ergonomic design. The optional tool balancer and tool harness is made for holding the power pack and jaw set in a horizontal position.



Optional tool balancer and harness shown in picture sold separate

WS-2000 ERGONOMIC WORK STATION

The WS-2000 Ergonomic work station is a sturdy support system for use with any of the power packs in our product line. This heavy duty work station features a 36" horizontal, 180° boom, attached to a 48" vertical column with a base that mounts easily to bench tops. The boom can be adjusted vertically higher or lower on the column to suit your specific application.

Also included with the WS-2000 is a balancer trolley. This heavy duty trolley is of ball bearing construction and can support up to 30 pounds, allowing more free space in the work area. The **Optional** tool balancers and tool harness (shown in picture) will support all weights of Simonds tools.

TOOL BALANCER AND HARNESS



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

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.

Simonds Inc. manufactures all tools to exacting standards. All tools are engineered to help reduce repetitive motion disorders, relieve operator fatigue and increase production on the line. High quality of materials used in the manufacture of Simonds Inc. tools reduces down time and lowers maintenance costs.

REMOTE POWER PACK BENCH STAND

ITEM NUMBER	USE WITH POWER PACK NO.
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



HY-SERIES HYDRAULIC CRIMPING TOOL



SIMONDS INC., has developed this series of hydraulic crimping outfits to produce 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

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"



DISTRIBUTOR:

FOR PART SHEETS, PRODUCT SPECIFICATIONS AND DOWNLOADS VISIT OUR WEBSITE AT:

www.simonds-inc.com
view at: youtube.com/simondsinc



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