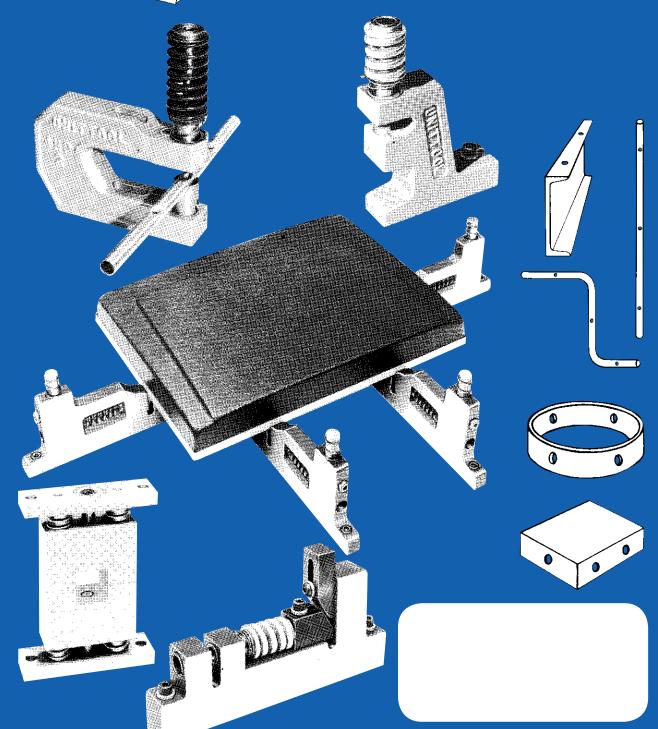
CATALOG THC-91 TUBE-HORIZONTAL & CHANNEL punching units





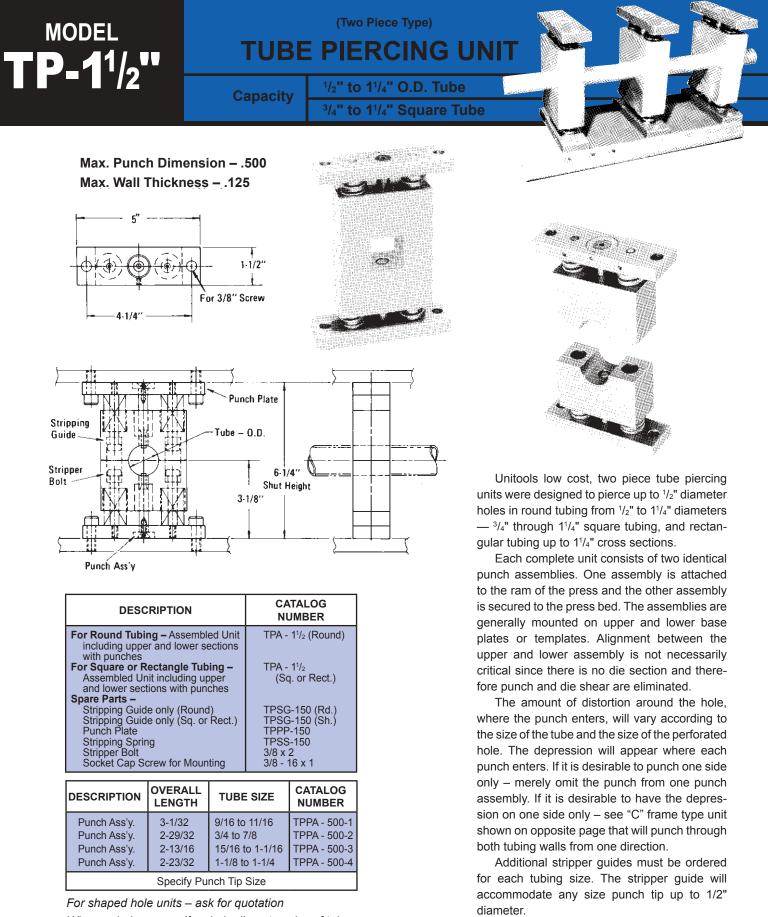
OL PUNCH & DIE COMP

20 Norris Street FACTORY ADDRESS Buffalo, N.Y. 14207 PHONE: (716) 873-8453

MAIL ADDRESS

P.O. Box 863 Buffalo, N.Y. 14240

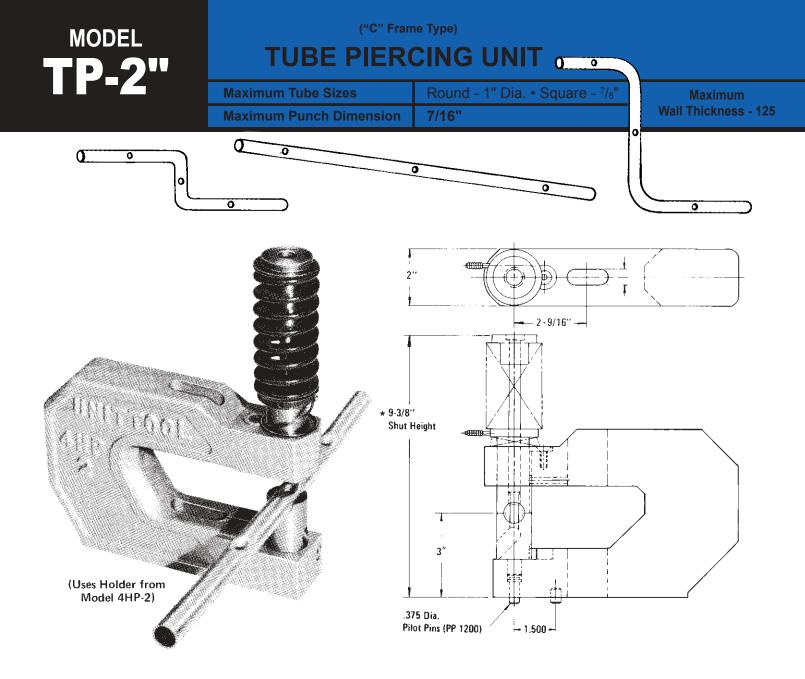
FAXLINE: 1-800-25-PUNCH



When ordering – specify – hole diameter, size of tube, wall thickness, type of material.

© Copyright Unittool Punch & Die Company – 1971, 1991.

Special units for larger tubing or larger hole sizes are available upon request.



When ordering, specify hole diameter, tube diameter & tube wall thickness.			
DESCRIPTION	CATALOG NUMBER		
Complete Assembled Unit (For Round Holes)	TP-2		
Parts (For Round Holes) Punch Die Guide Stripper Spring Punch Head	TPP-202 TPD-203 TPG-204 TPSS-205 TPPH-207		
For Shaped Hole Units or Parts – ask for quotation			

Unittools Tube Punching Units are self contained and self aligned with nothing attached to the ram of the press. Setups can be made quickly on a base plate, template or tee slotted plate. The 3/8" pilot pins in the bottom of the unit are used for accurately locating the units on a template or base plate. The pilot pins may be removed for setups on tee slotted plates.

Distortion around the hole appears only on one side of the tube. The punch tip travels through the tube and will punch a clean hole, without distortion, on the bottom side of the tube that is supported by the die section. The amount of distortion around the hole, where the punch tip enters, will vary according to the size of the tube and the size of the hole. For depression on each side of tube that may be desirable see unit on Page 1.

*Approximate – Tube Size determines Shut Height.

UNITTOOL

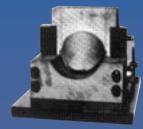
- Innovative leader in punching and notching tools
- Has expanded to include a full line of notching and hole punching units for tubing and pipe
- Single units or complete systems available

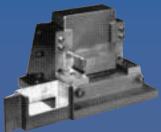
UNITTOOL PUNCH & DIE CO., INC.

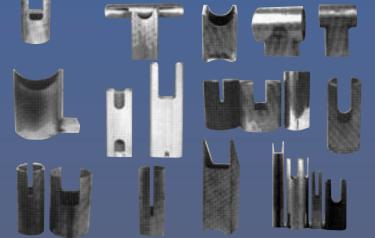
Factory address: 20 Norris St. Buffalo, NY 14207 • Mailing address: P.O. Box 863 Buffalo, NY 14240 Phone: (716) 873-8453 • Fax: (800) 25-PUNCH

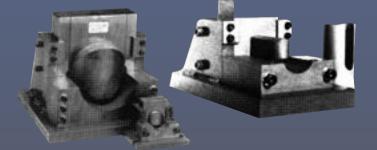
Canada division: 151 Cushman Rd. St. Catharines, Ont. L2R 7J9 · Phone: (905) 685-4276 · Fax: (800) 767-6743

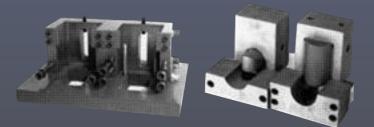
UNITTOOL PUNCH & DIE CO., INC. Leading Manufacturer of Unitized Tooling











Units for:

MANUFAC

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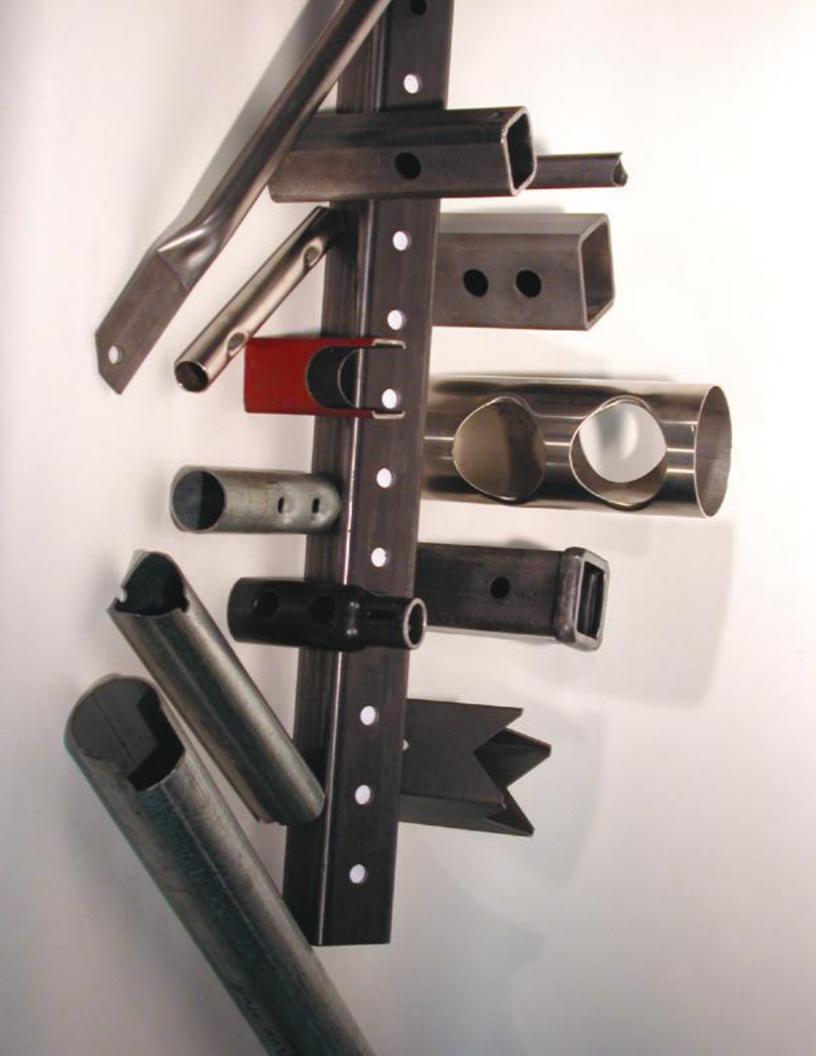
TURED TO

- 6" piping
- 4" piping
- Steel
- Aluminum
- Stainless
- Schedule 80/40
- PVC

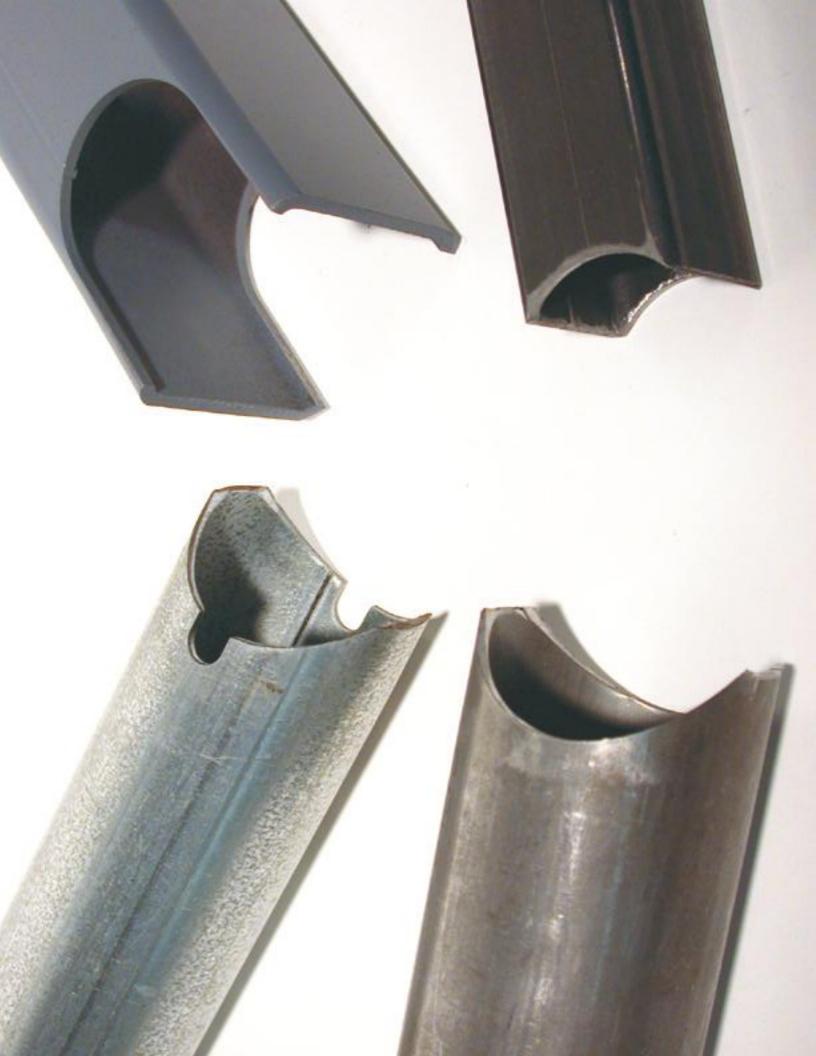
Notching:

- Accurate Gaging and stops available
- Economical Eliminates multiple setups
- Fast Minimal deburring Virtually distortion free
- Single unit or multiple unit application
- Cut off
- Radiused or elliptical ends
- Ideal for welding, brazing, soldering, gluing

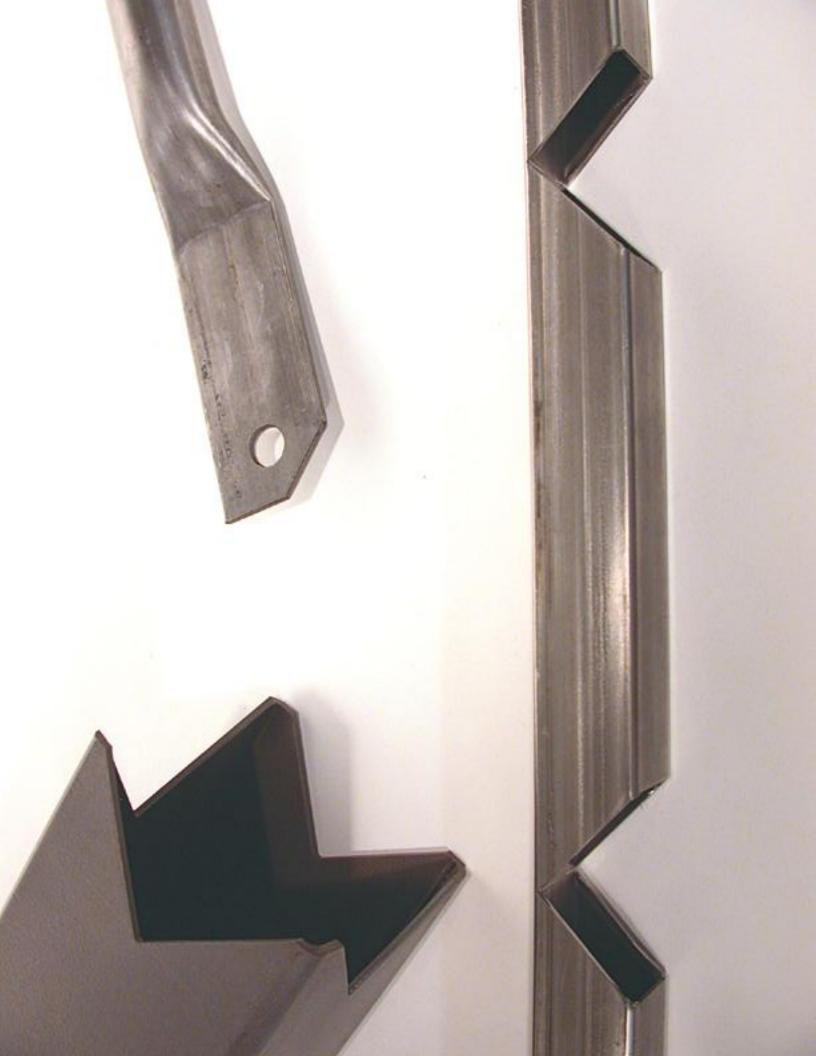
Heavy duty units available • Modified and special units Unit pricing on application





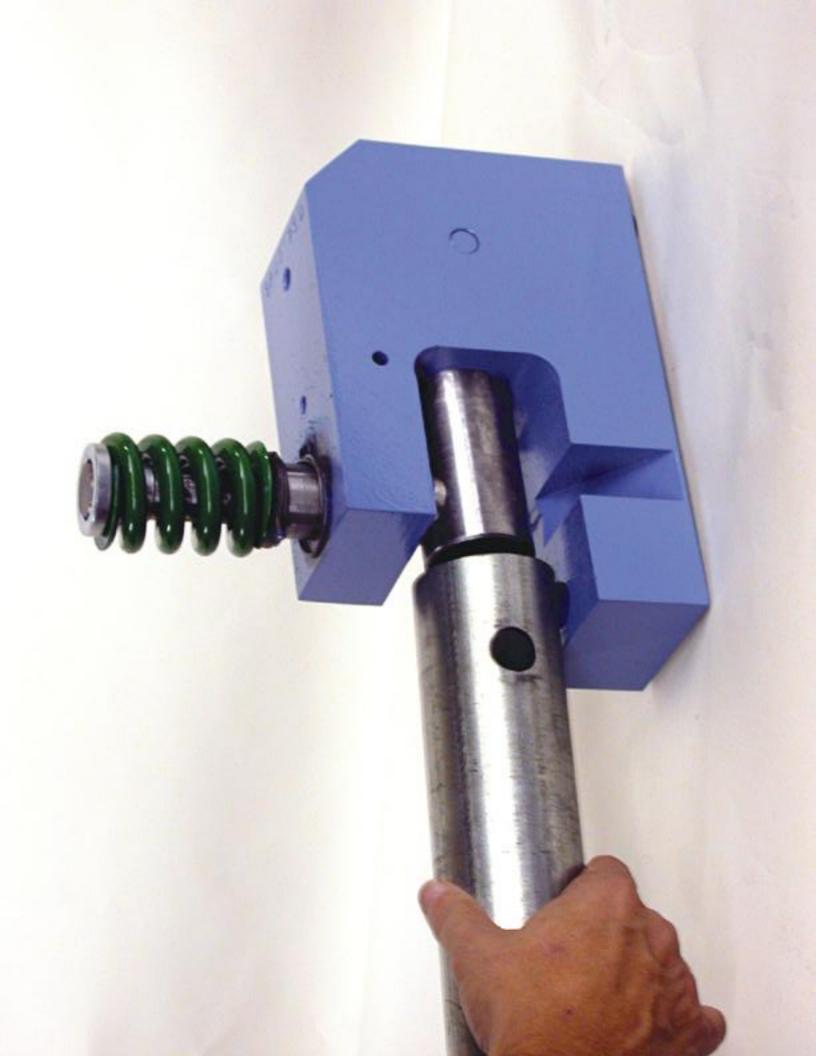


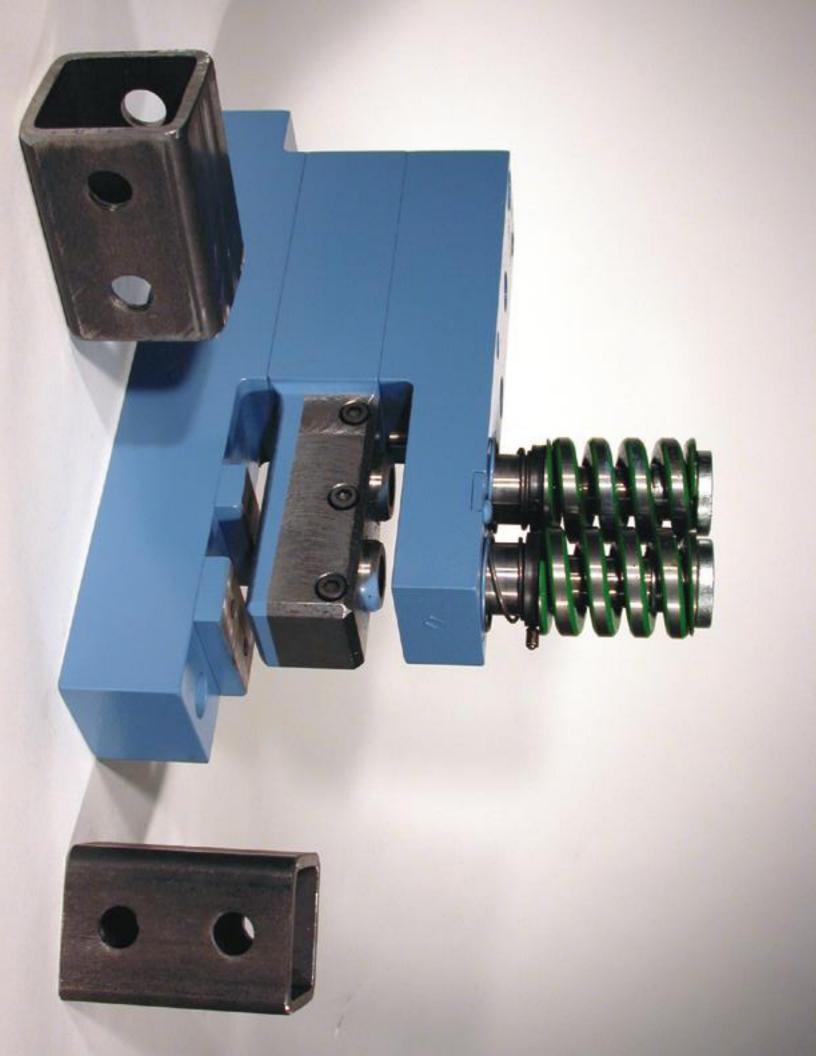


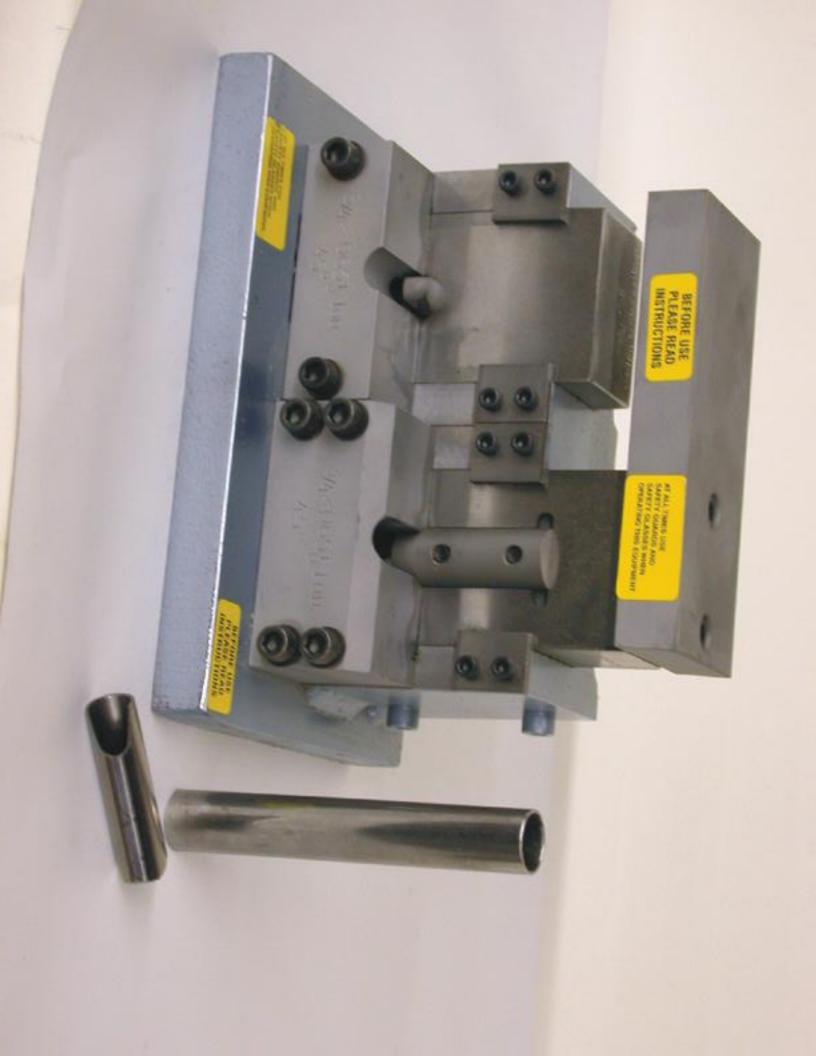


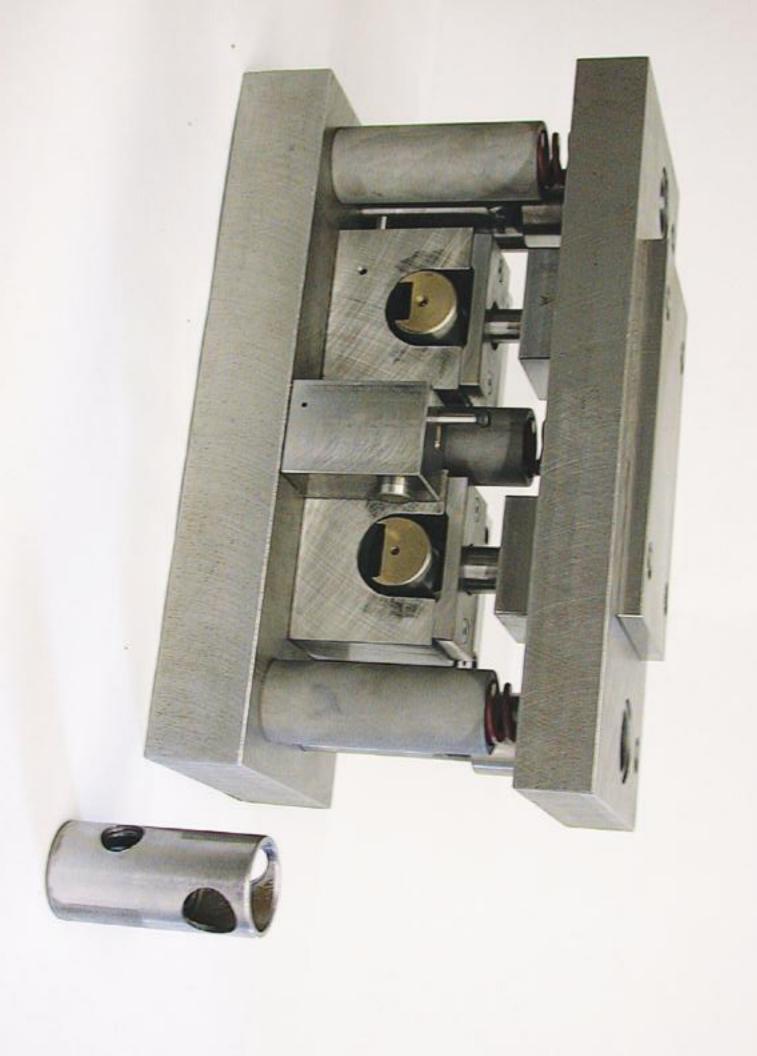




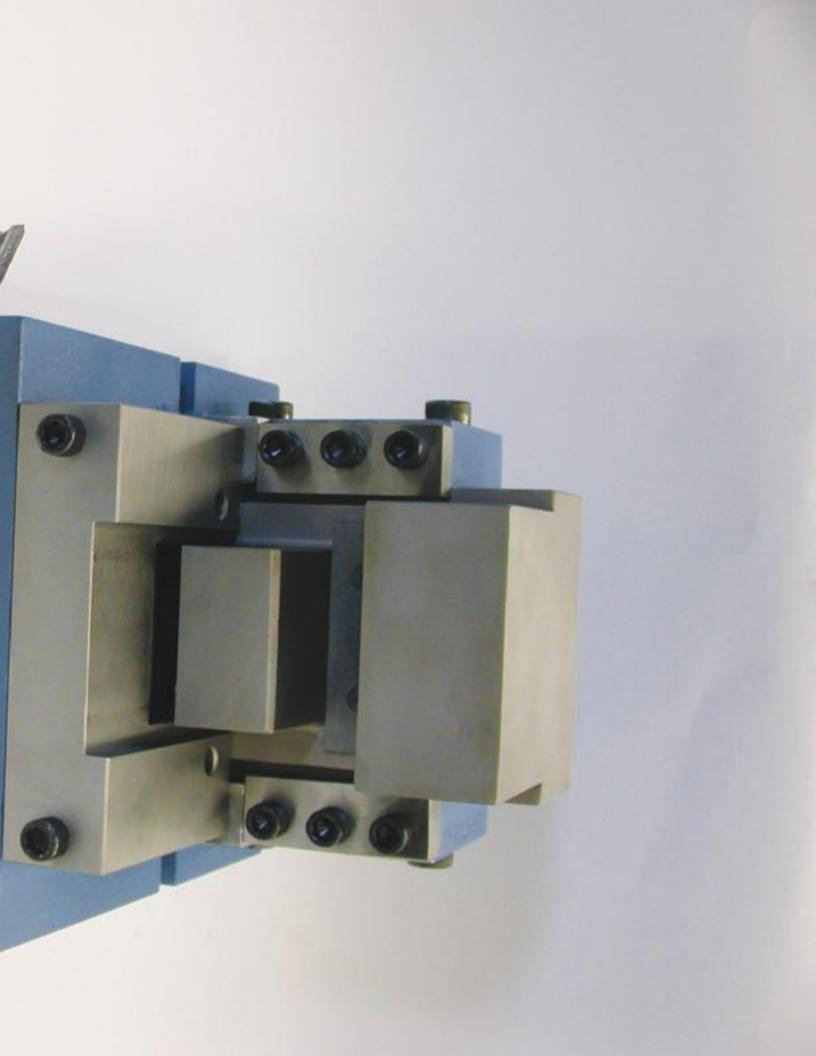


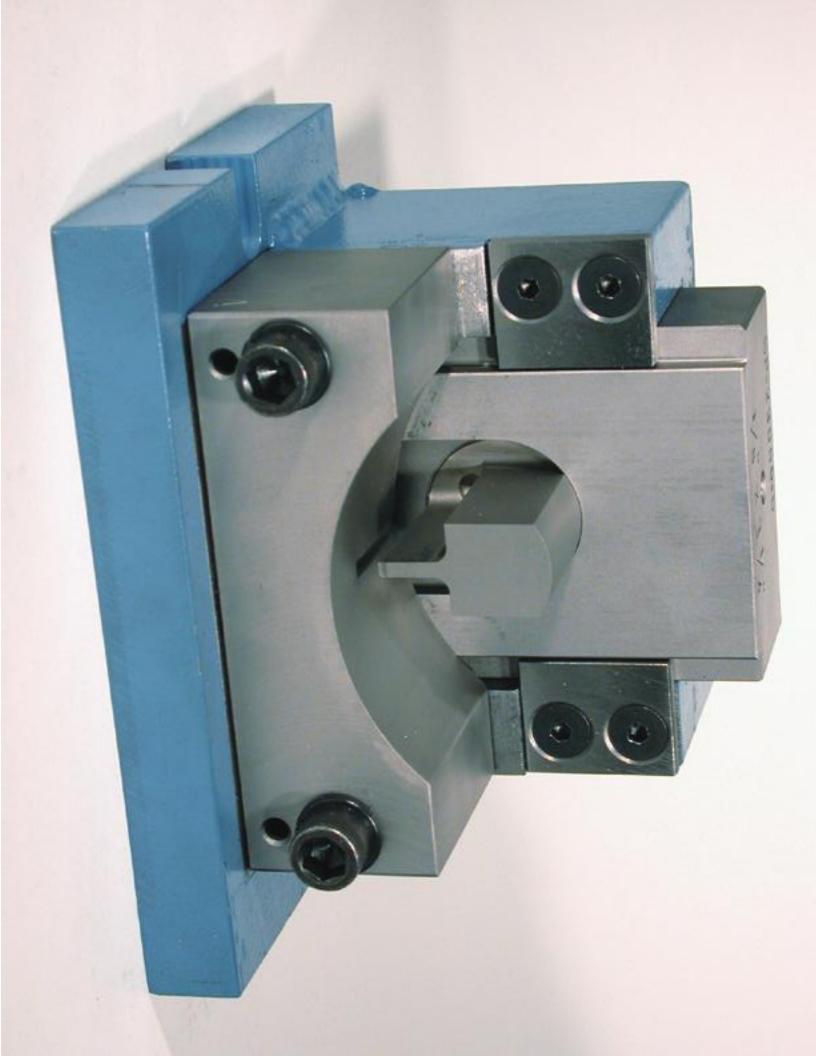


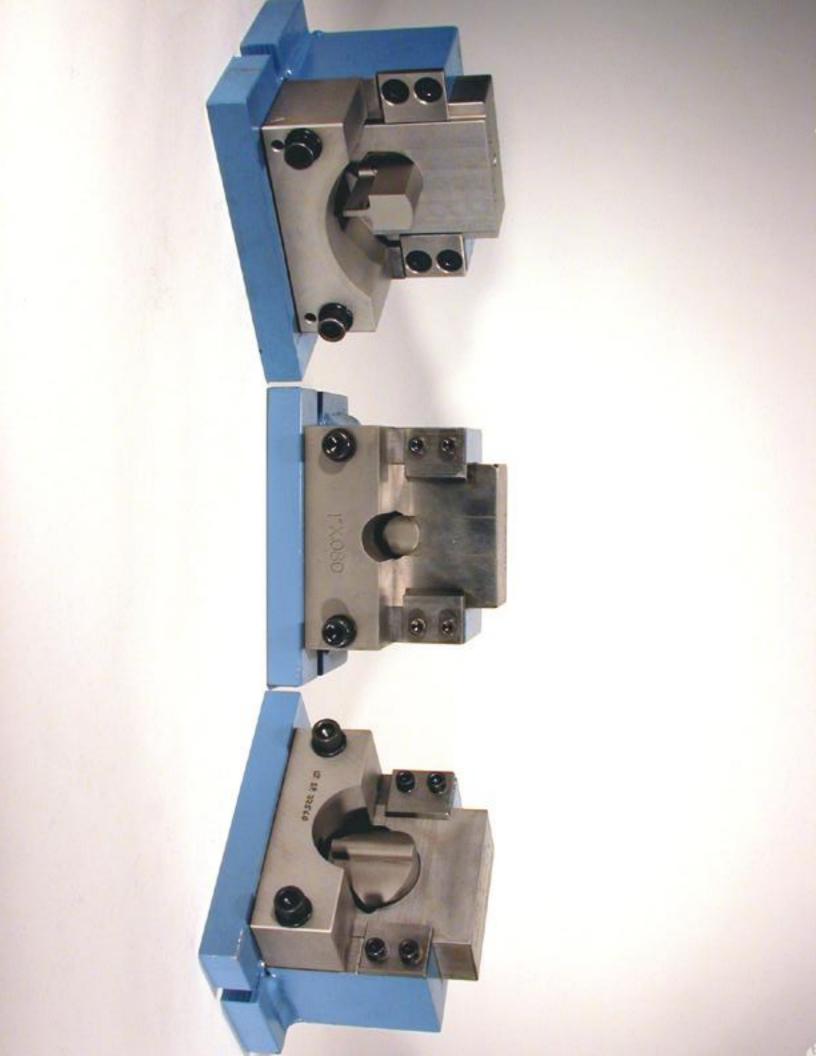


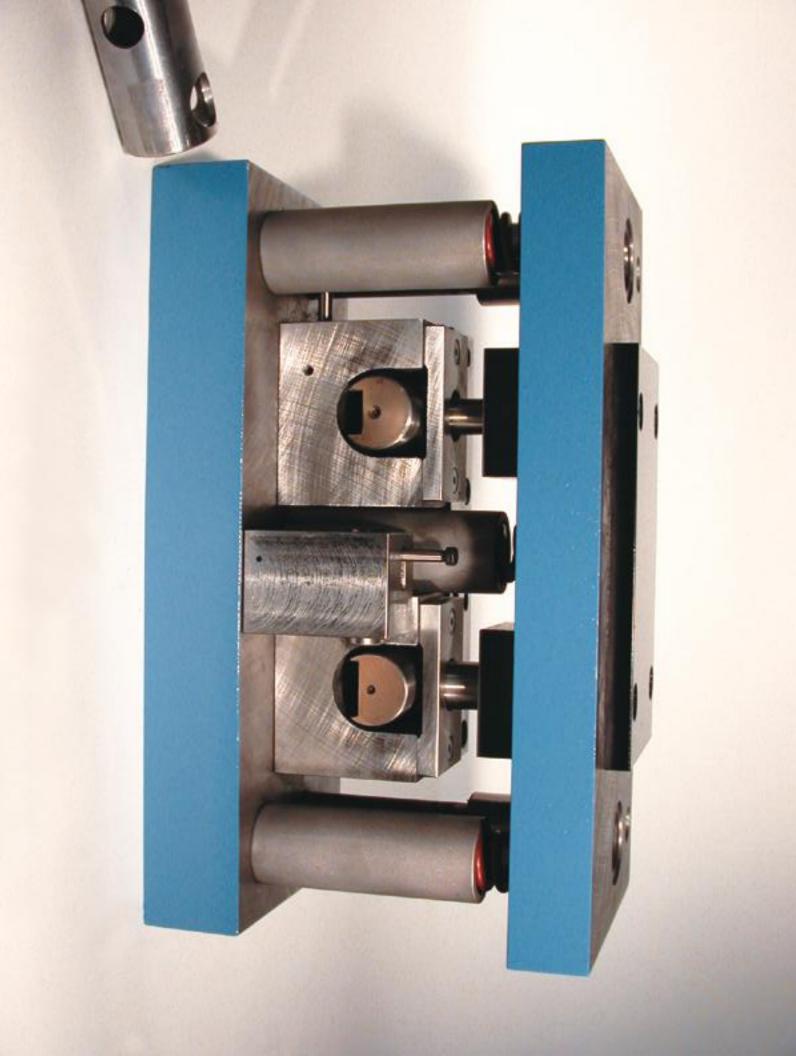








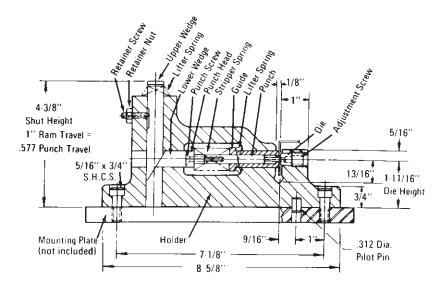


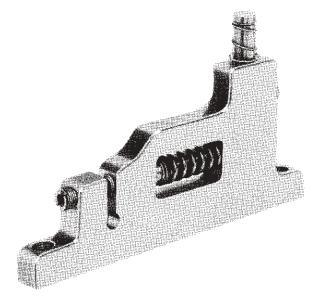


MODEL

HORIZONTAL PUNCHING UNITS

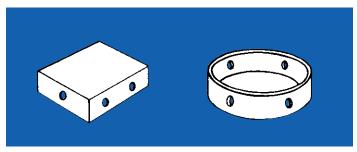
(For Round Holes)





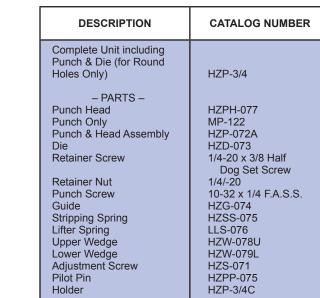
Horizontal Punching Units are designed for perforating round and shaped holes in flanges, angles, boxes and other formed parts. The cam action of this equipment makes it possible to use the units in a press brake or punch press without any special attachments. There is nothing attached to the ram of the press. The 3/8" pilot pin in the base of the unit can be used to accurately locate the tooling on a template in a straight line or scattered hole pattern. Standard punches, dies, guides, springs, etc. are readily available from our large inventory.

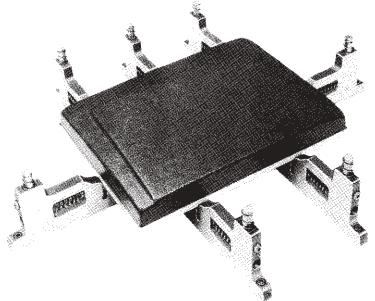
Our free engineering service is available to help solve your production needs. Send drawing or sample part for quotation or ask for a Unittool representative to call at your plant.



Max. Punch Size and Material Thickness .250 in 3/32" thick steel, .312 in 1/16" thick mild steel Unit Width — 3/4"

Approximate Weight 4 #





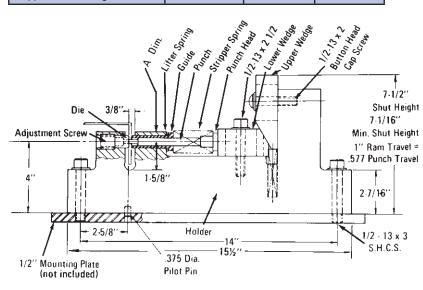
UNITTOOL PUNCH & DIE

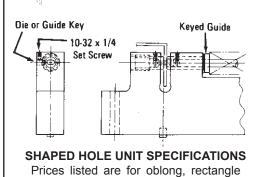
MODEL

HORIZONTAL PUNCHING UNITS

(For Round & Shaped Holes)

SPECIFICATIONS				
DESCRIPTION	HZP-1 ¹ /4	HZP-1 ¹ /2	HZP-2	
Holder Width	1 ¹ / ₄	1 ¹ / ₂	2	
"A" Dimension	9/16	11/16	7/8	
Maximum Punch Dimension	.4375	.625	.875	
Maximum Material	.250	.250	.250	
Approximate Weight	21#	25#	32#	





and square shapes – Shape dimension less than 1/8" - price on application.

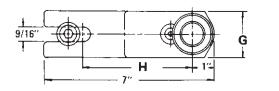
DESCRIPTION		CATALOG NUMBER	
DESCRIPTION	MODEL HZP-1 ¹ / ₄	MODEL HZP-11/2	MODEL HZP-2
Complete Unit (For Round Hole Only)	HZP-1 ¹ /4	HZP-1 ¹ / ₂	HZP-2
Complete Unit (For Shaped or Round Holes) – Includes Punch & Die –	HZP-1 ¹ /4K	HZP-1 ¹ / ₂ K	HZP-2K
PARTS Punch Head Round Punch Round Punch & Head Ass'y. Shaped Punch & Head Ass'y. Round Die Shaped Die Guide (Not Keyed) Guide (Keyed) Die or Guide Key Stripper Spring Lifter Spring Pilot Pin (Round) Pilot Pin (Diamond) Upper Wedge Lower Wedge Wedge Lifter Spring Adjustment Screw Holder (Not Keyed) Holder (Keyed)	HPH-127 HP-122 HPA-122A HPA-122K HD-123 HD-123K HG-124 HG-124K GK-100 HSS-125 HLS-126 PP-1000 PP-1000K HZW-12BU HZW-12BU HZW-129L HZLS-127 HZS-121 HZP-11/₄C	HPH-157 HP-152 HPA-152A HD-152K HD-153 HD-153K HG-154 HG-154K GK-100 HSS-155 HLS-156 PP-1000 PP-1000K HZW-15BU HZW-159L HZLS-127 HZS-151 HZP-11/2C HZP-11/2CK	HPH-207 HP-202 HPA-202A HD-203K HD-203K HG-204 HG-204K GK-100 HSS-205 HLS-206 PP-1000 PP-1000 PP-1000K HZW-15BU HZW-208L HZLS-127 HZS-201 HZP-2C HZP-2CK

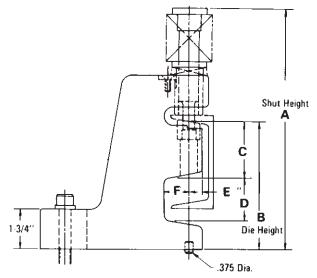
UNITTOOL PUNCH & DIE

MODEL HCP

HEAVY-DUTY CHANNEL PUNCHING UNITS

For - Channels • Angles • Extrusions

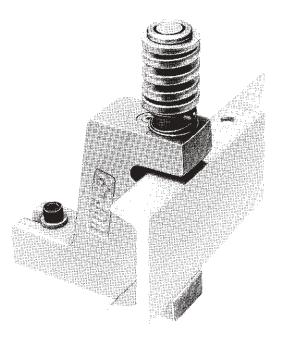




Standard round and shaped hole units are especially designed to punch up to 5/8 diameter holes in 3 and 4" structural channel, and up to 13/16 diameter holes in 5 and 6" structural channel. The face of the die buttons are ground at the same angle as the taper on the channel flange. The surface of the die button is ground smooth, however, the face of the die can be serrated to prevent the channel from drifting prior to the punch entering the material. The smooth face die generally works out satisfactorily. The taper on the face of the die button may be eliminated when punching channels with straight flanges – please specify die No. HD153. for Model HCP-2 and Die No. HD-203 for Model HCP-2-1/4

SPECIFICATIONS

DESCRIPTION	HCP-2 for 3" & 4" CHANNEL	HCP-2¼ for 5" & 6" CHANNEL
Max. Punch Size	^{5/8}	^{13/16}
Shut Height—A	10 ³ /8	12 ⁵ /8
Die Height—B	5 ¹ /2	7 ³ /4
Dimension—C	2 ¹ /4	3 ¹ /4
Dimension—C	1 ³ /4	3
Dimension—E	Advise	3/4
Dimension—F	1"	1 ¹ /8
Dimension—G	2"	2 ¹ /4
Dimension—H	4 ¹ /8	5
Approx. Weight	16#	26#



	CATALOG NUMBER	
DESCRIPTION	HCP-2 MAX. PUNCH SIZE .625	HCP-2 ¹ / ₄ MAX. PUNCH SIZE .8125
Complete Unit — Round Hole Complete Unit — Shaped Hole	HCP-2 * HCP-2K	HCP-2¹/₄ HCP-2¹/₄K
PARTS		
Punch Head & Ass'y (Round) Punch Punch Head Punch Head & Ass'y (Shaped) Round Hole Die (Smooth Face) Round Hole Die (Serrated Face) Shaped Die (Smooth Face) Shaped Die (Serrated Face) Guide (Not Keyed) Guide (Keyed) Guide Retainer Stripper Spring Punch Retainer Lifter Spring Pilot Pin Holder (Not Keyed) Holder (Keyed)	HPA-202A HP-202 HPH-207 HPA-202K HCPD-153 HCPD-153SF HCPD-153SF HCPD-153SFK HCPD-153SFK HC-204 KGR-300 HCS-204 KGR-300 HCS-205 PR-100 HCS-206 PP-1000 HCS-2C HCP-2CK	HCPA-202A HCP-202 HPH-207 HCPA-202K HCPD-203SF HCPD-203SFK HCPD-203SFK HCPD-203SFK GR-300 HSS-204 GR-300 HSS-205 PR-100 HLS-206 PP-1000 HCP-2 ¹ / ₄ C HCP-2 ¹ / ₄ CK
*Note: If taper on face of die is not desired, please specify die No.HD153.		

UNITTOOL PUNCH & DIE