



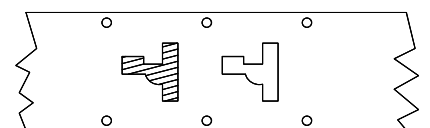
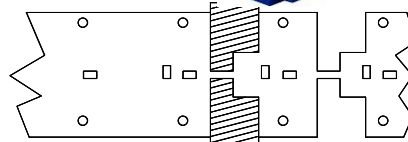
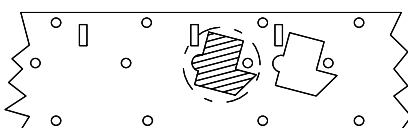
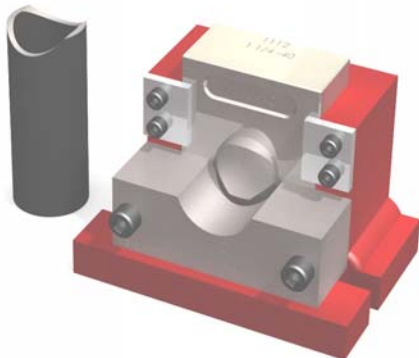
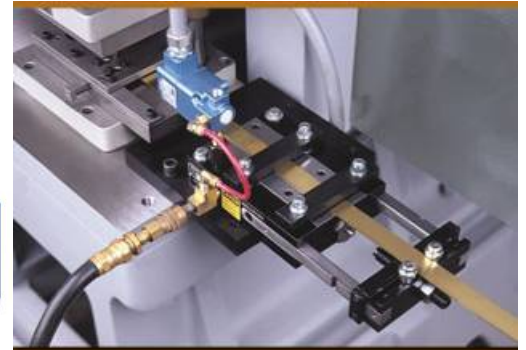
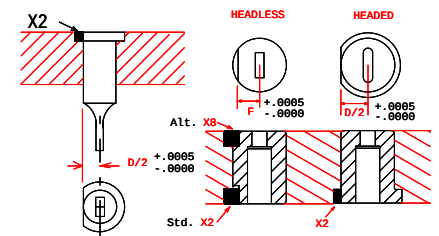
C.E. TOOLING

Section 17



Featuring Die Set Components

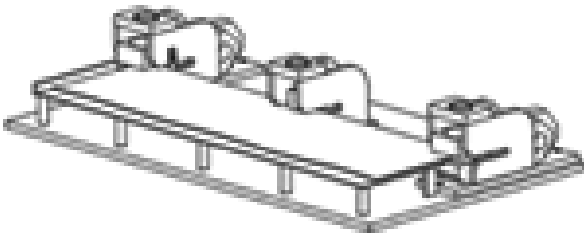
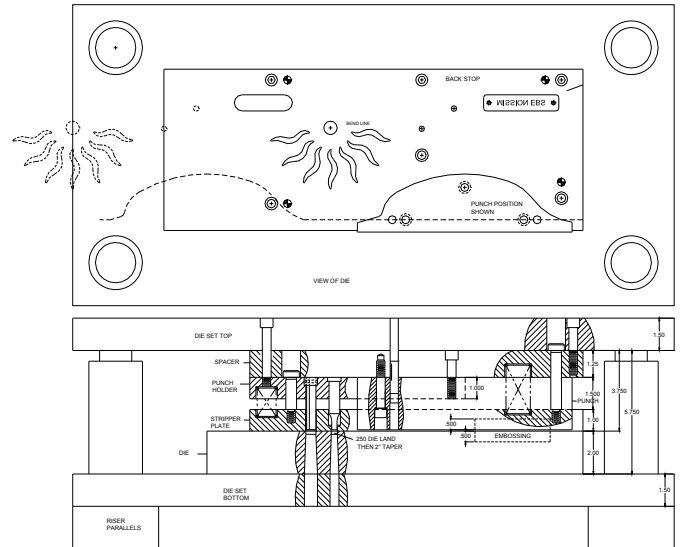
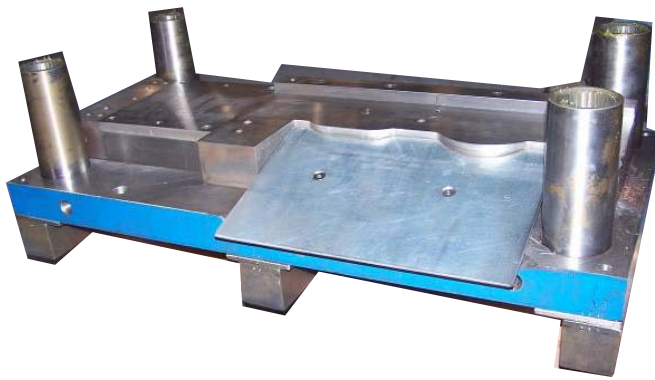
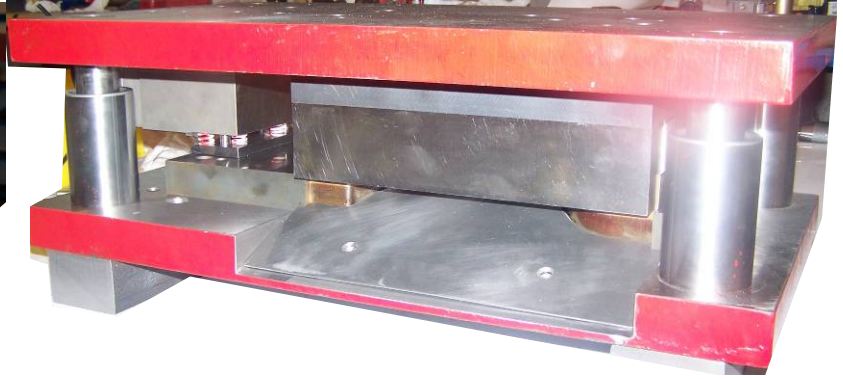
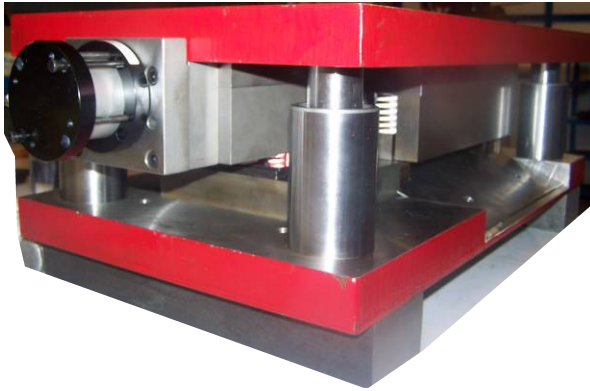
Press Feed Lines,
C-Frame, Roll Form, Tube & Pipe

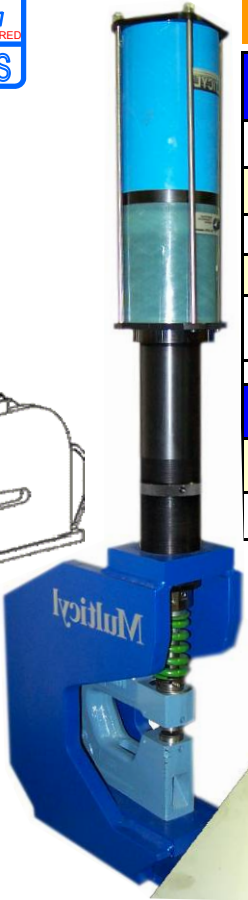
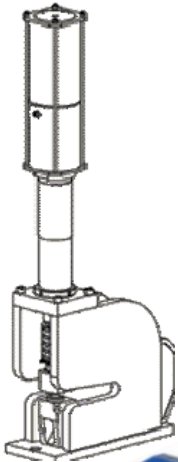
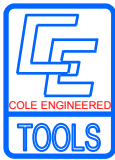


!

		3-10
		1-6
		1-6
		1-6
		1-10
		1-5
		1
	28-29	1-5
	30	
	31	



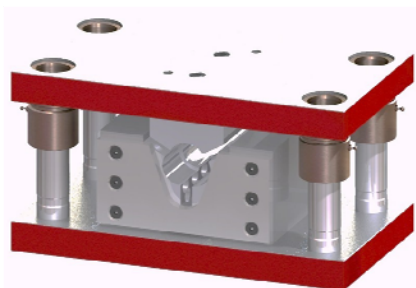
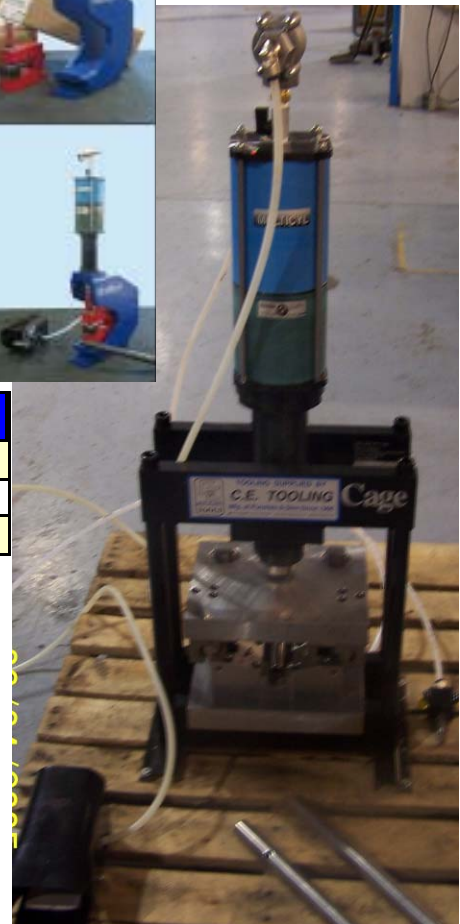
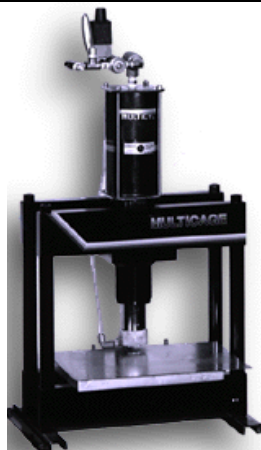
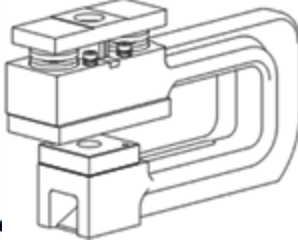
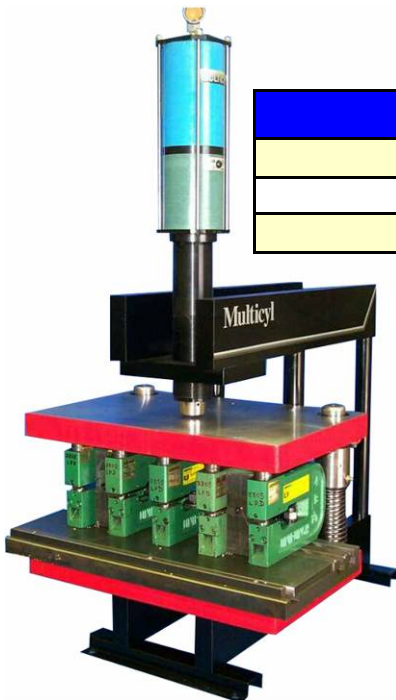




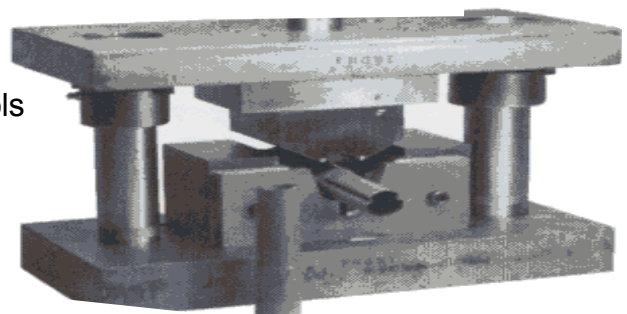
	$\frac{1}{8}$	
	$\frac{5}{8}$	

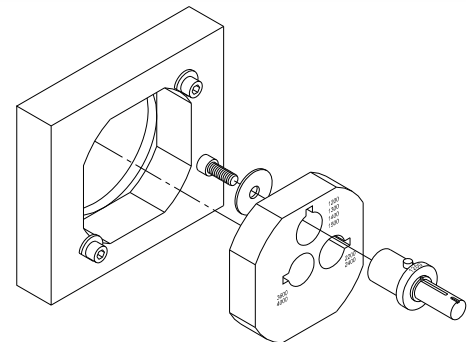
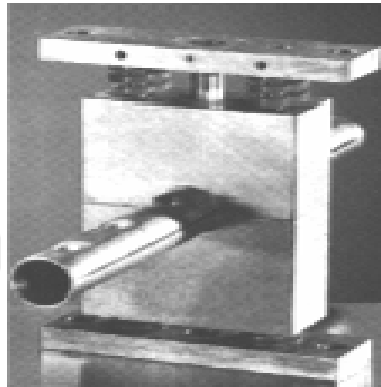
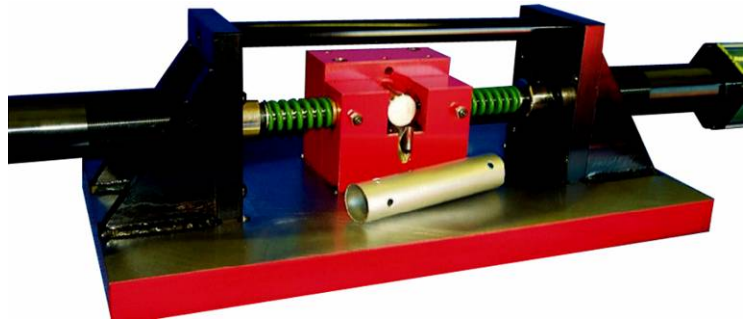
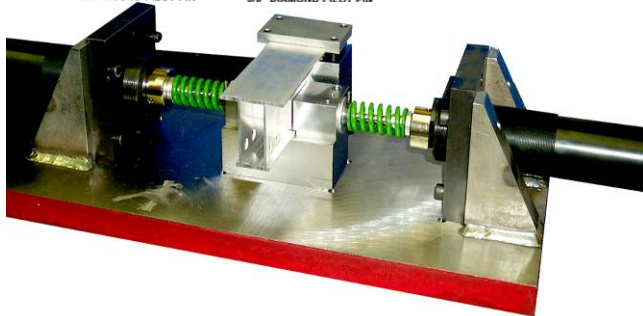


of typical set-up		



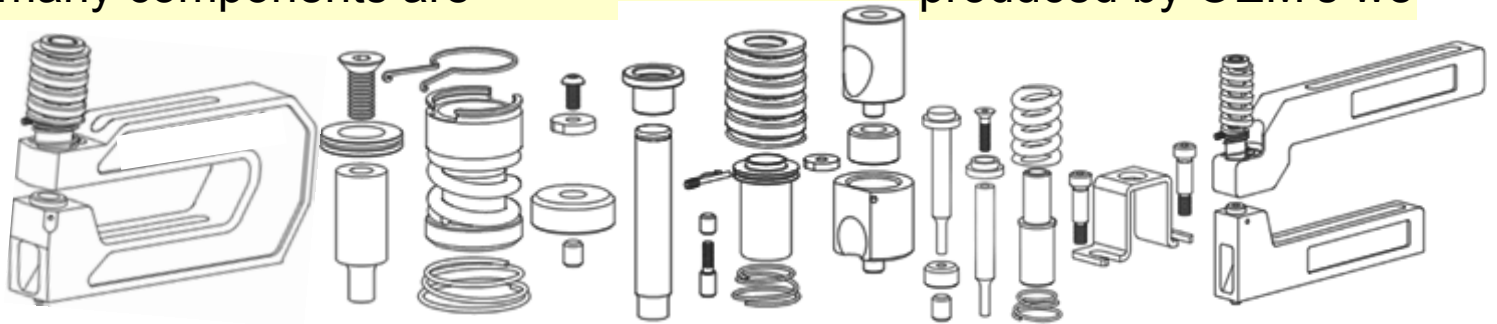
Tube reduction tools





Our aim for Unitized tooling is to extend customers better value and lead times on special shapes, clusters and forming tools.

many components are but quite often, produced by OEM's we



CJ-1, CJ-1¼, CJ-1½, CJ-2, CJ-2½, CJ or AH-3, CJ-3½, CJ-5 & 5½, CJ-1 3/8, CJ-1 5/8, AH6 BN-¾, BN-1¼, BN-1¾, BN-2¼, BN-3, BN-5, BX-¾, BXN-1¼, BXN-1¾, BXN-2¼, BXN-3, BXN-5, C-¾, G-¾

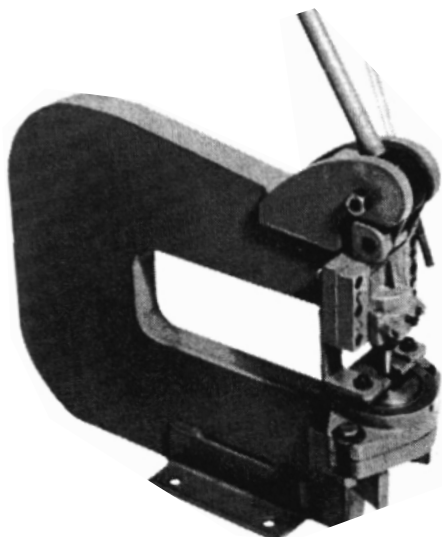
A-1, A-1¼, A-1½, *A-2, A-2½, A-3½, A-5½, A-8, AD-4, *AE, AH-6, *AJ-2, AJ-2½, AH-2½, AH-3, AH-3½, AH-6, AX-1, AX-1¼, AX-1½, AX-2, OA-6, BX-¾, BX-1, B-1¼, B-1½, BX-1¾, BX-2¼, B-3, B-5, OA-6, G-¾, TP-1¼, TP-2 3/8, TP-2, HZ-¾, HZ-1¼, HZ-1½, HZ-2

H-1, H-1¼, H-1½, *H-2, H-2½, H3, H-3½, H-5¾, HA-1, HP-1, HA-1¼, HP-1¼, HA-1½, HP-1½, *HA-2, *HP-2, HP-2½, HH-2½, HH-3, HH-3½, HH-5½, M-¾, M-1, M-1¼, M-1¾, M-2¼, M-2½, M3, M5, B-5X5, B-3X3

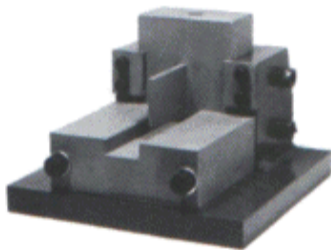
RD-¾, RD-1, RD-1¼, RD-1¾, RD-2¼, RD-3, RD-5½, HD-1, HD-1¼, HD-1½, HAD-1½, *HD-2, HD-2½, HD-3, HD-3½,

uses solid bevel headed punches, rather than retainer clip to hold Head.

† Dealers/Mfg. Agents: Discount/commission only available for items CE Mfg.



**TOOLING TO NOTCH .187x2¼" LONG
SLOT INTO 1"x2"x.087 RECTANGULAR
TUBING**

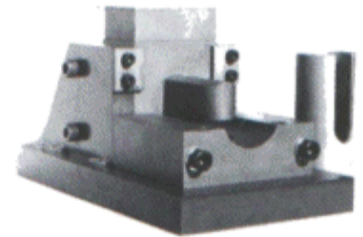


**NO. 1000 H.D. HOUSING FOR APPLICATIONS
EXCEEDING 8 TONS**

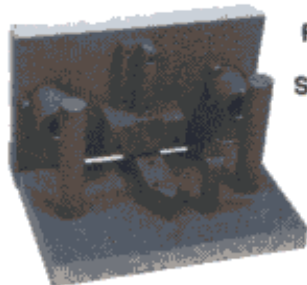


APPROX. SHIPPING WEIGHT 13 LBS.

**TOOLING TO CUT SLOT .700 WIDE x
2.250 DEEP INTO 1½"-40 PIPE**



**NO. 1300 FLATTEN
AND TRIM DIE
FOR SQUARE TUBING**



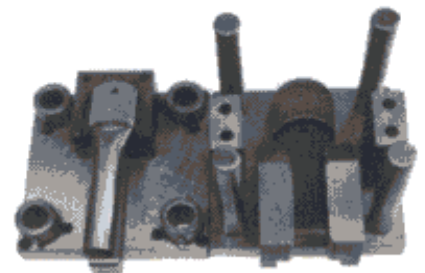
FLATTEN TO
CREATE
SPEAR POINT

PLEASE CALL WITH TUBE DIMENSION

**TOOLING TO FLATTEN - TRIM AND
IF REQUIRED PIERCE WITH SINGLE
STROKE OF MECHANICAL OR
HYDR. PRESS.**



**NO. 1350 FLATTEN
TRIM AND PIERCE DIE
FOR ROUND TUBING**

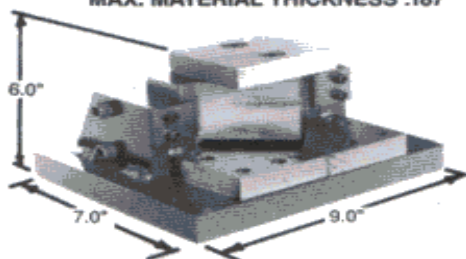


PLEASE CALL FOR QUOTATION



NO. 1400 SERIES V-NOTCH DIES FOR FLAT STOCK

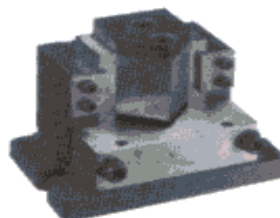
**NO. 1400-2 MAX. DEPTH OF CUT 2".
MAX. MATERIAL THICKNESS .187**



APPROX. SHIPPING WEIGHT 32 LBS.

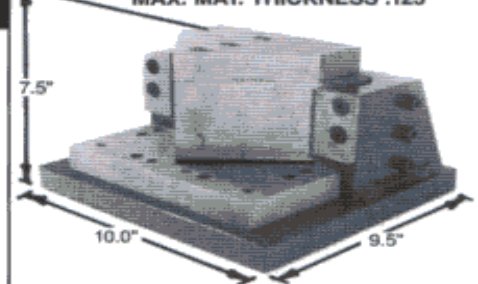
**LARGER SIZES AND DIFFERENT
ANGLES QUOTED ON REQUEST**

**NO. 1400-1 MAX. DEPTH OF CUT 1". MAX.
MAT. THICKNESS .187**



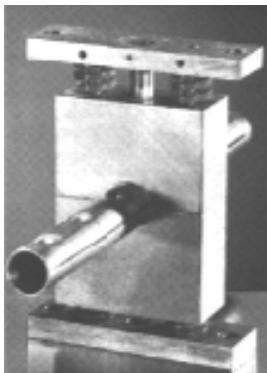
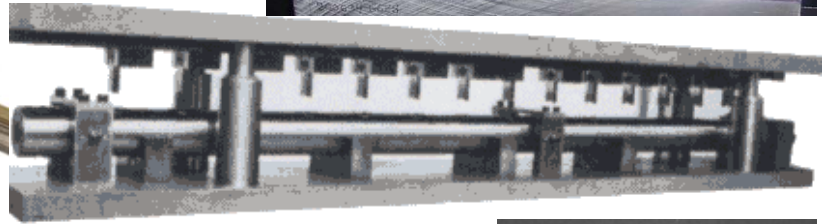
APPROX.
SHIPPING
WEIGHT 15
LBS.

**NO. 1400-3 MAX. DEPTH OF CUT 3".
MAX. MAT. THICKNESS .125**



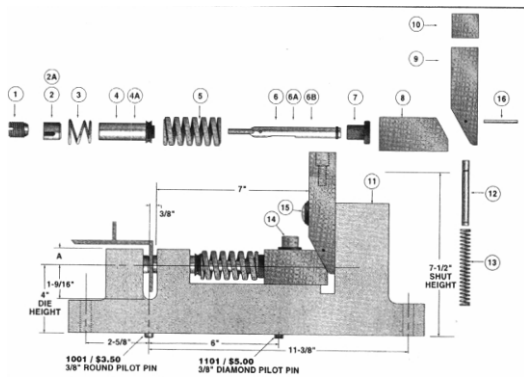
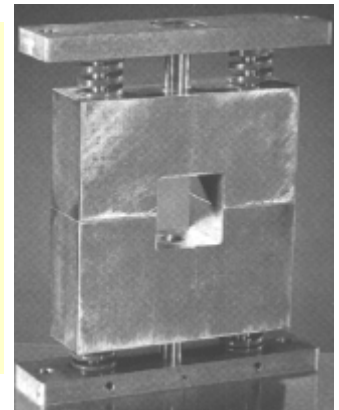
APPROX. SHIPPING WEIGHT 63 LBS.

This self contained C-Frame Unit utilizes pilot pins in the bottom of the holder for mounting on 1/2" thick Templates with nothing attached to press ram. The tubing is supported on all sides during punching. The unit provides straight through holes with on punch. The top hole has distortion which varies depending upon the pierce size, tube size, wall thickness and material type. The bottom hole is punched into the lower die providing minimal distortion.

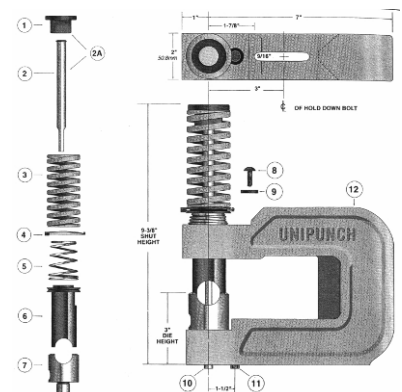
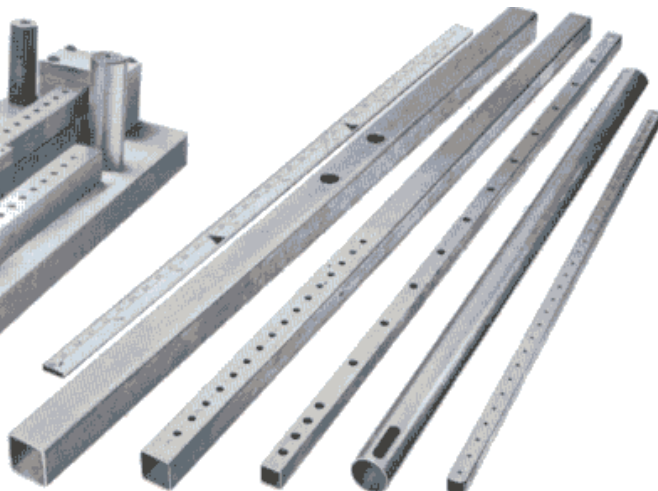
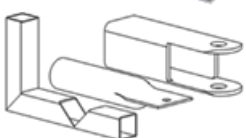
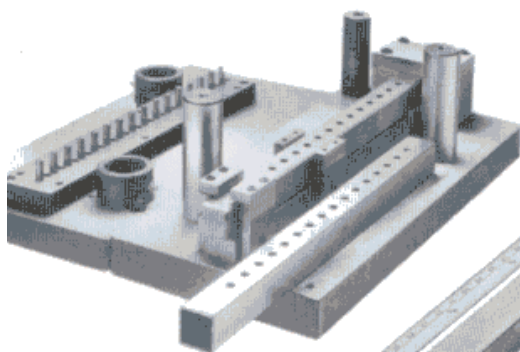
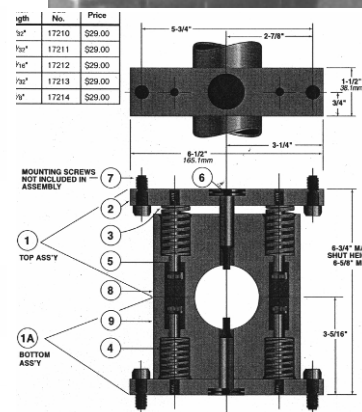
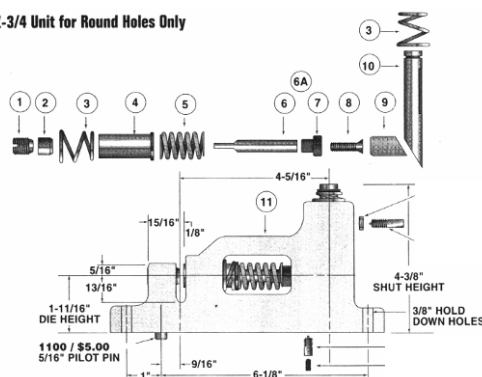


Self contained two sided non supported (dimples pierced hole) punching in round or square tubes. Each assembly (top and bottom) contains a punch to pierce two holes in-line on each side of the tube. The tubing is supported on all sides during piercing. If only one hole is desired, the bottom punch insert is simply removed. This unit requires upper and lower templates. Top template is attached to ram of press (For ironworkers, we can supply an adapter to load into the coupling nut then bolts to the top of the unit.) Bottom template is bolted to bed of press.

SETUP: Upper template is secured to the ram (lower remains loose). A tube is placed into the lower assembly and the press is lowered for line up adjustment. Lower template is secured and your ready to punch.

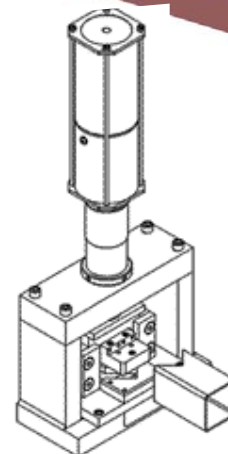
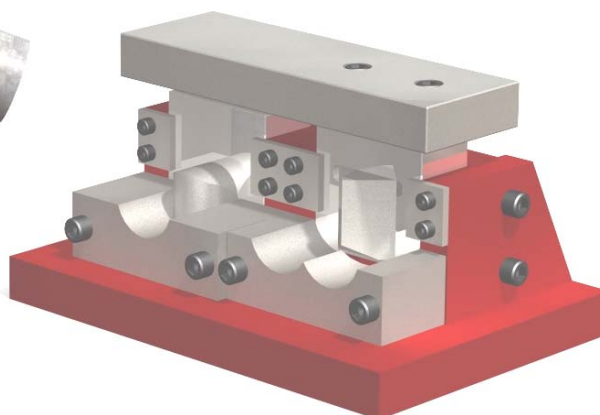
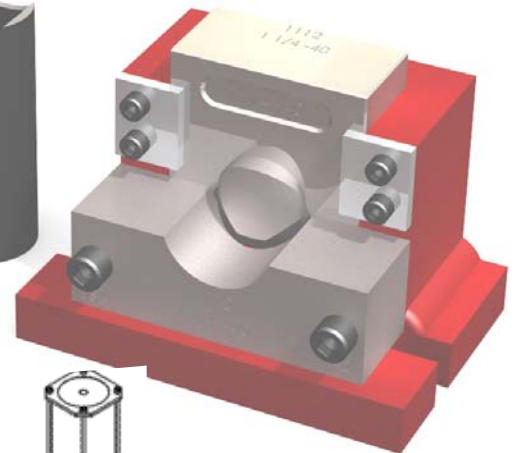
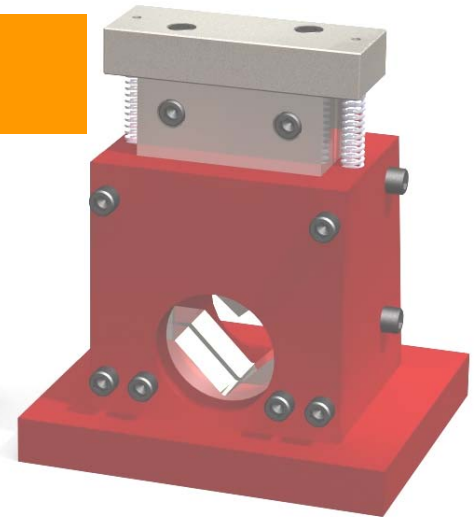
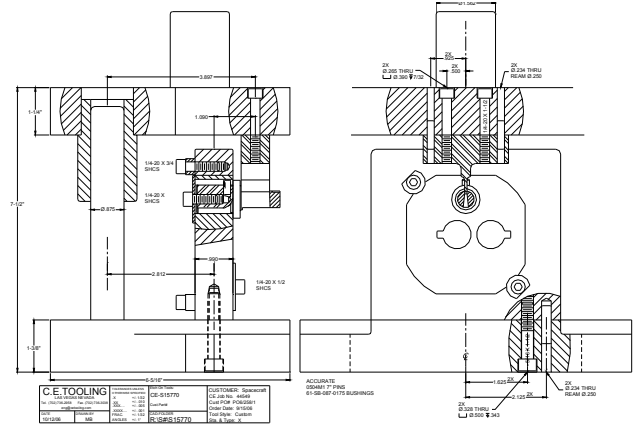
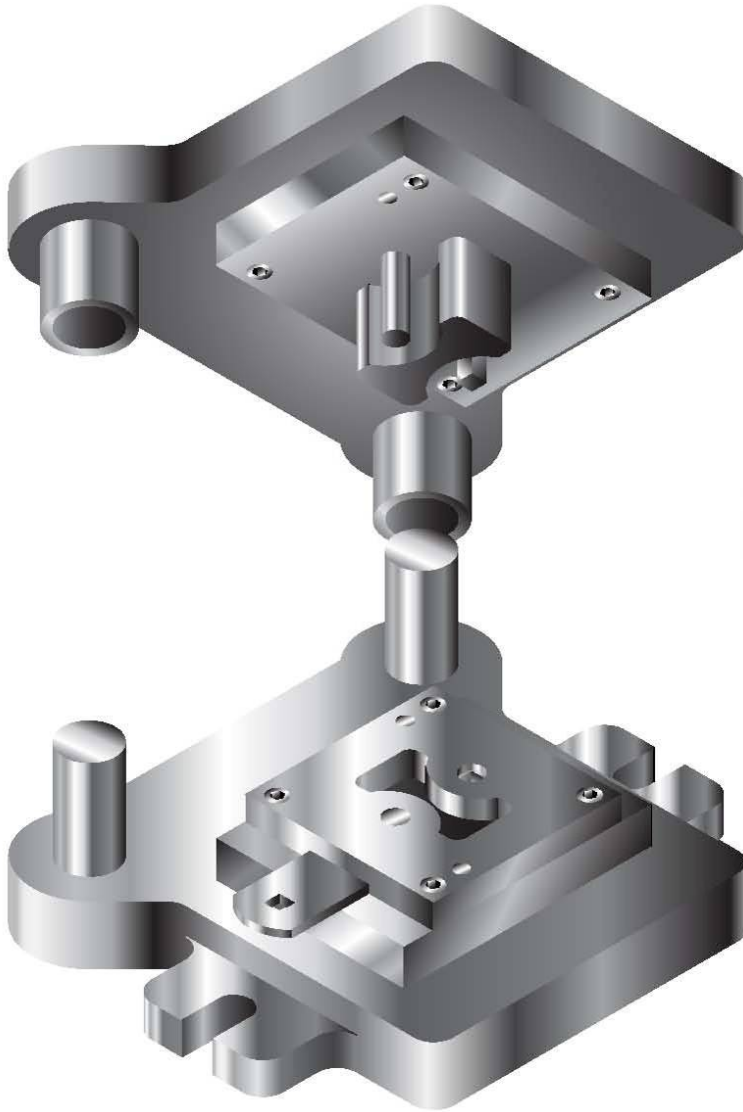


HZ-3/4 Unit for Round Holes Only



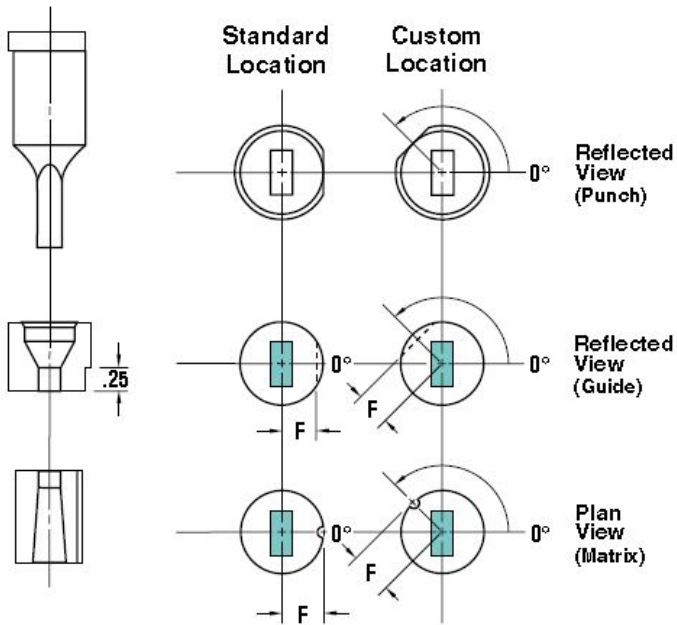
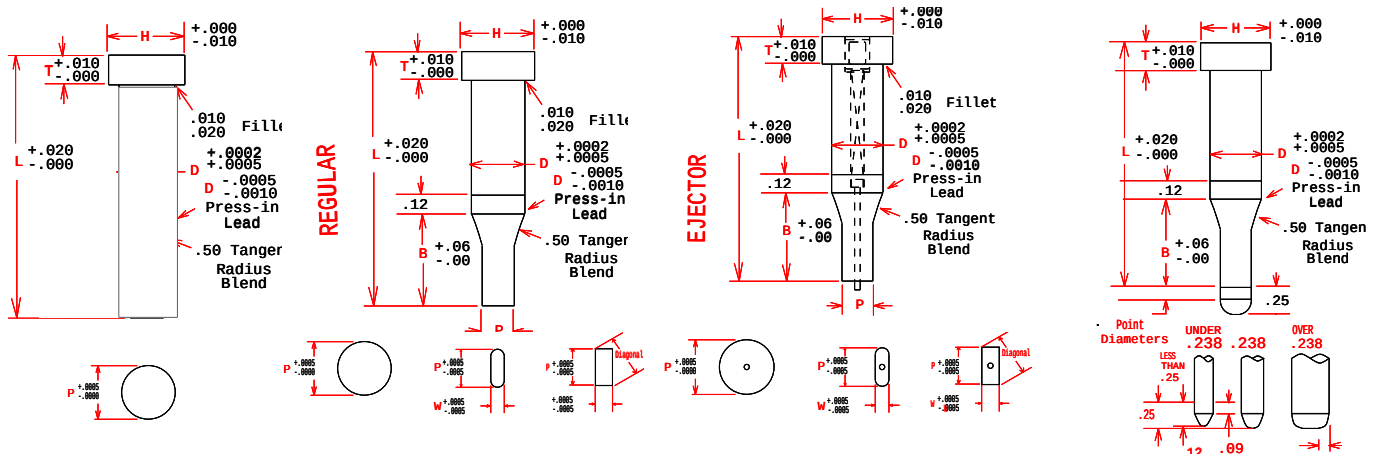


We can supply components for your tool room to complete or produce turn key.

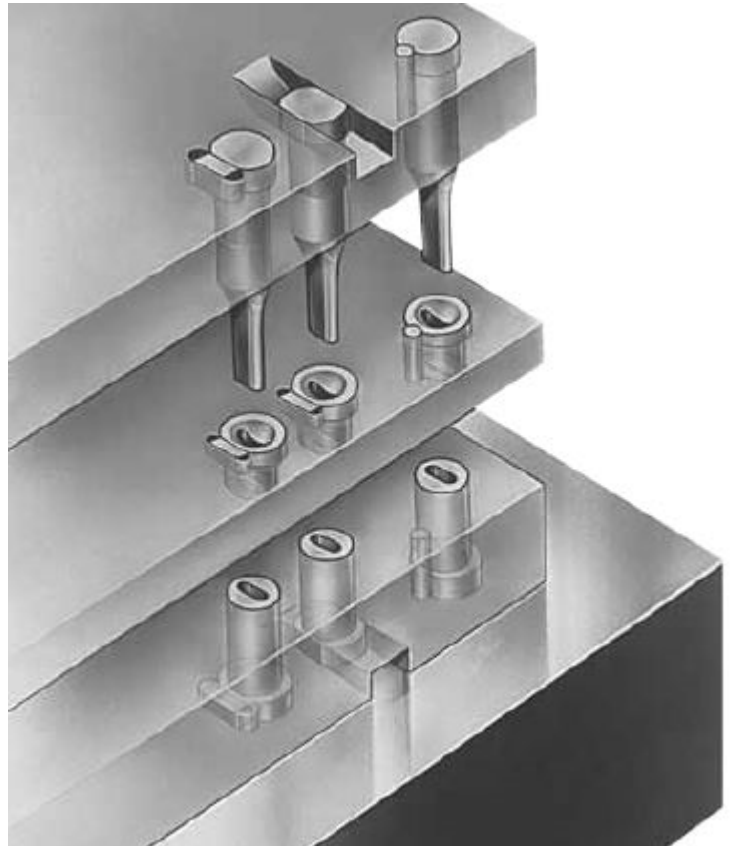


DS-SP=AISA Standard Basic Punches
DS-PP=Precision Grade Punches

Type:



code	Dec.	Frac			code	Dec.	Frac		
	.19	3/16				.875	7/8		
	.25	1/4				.937	15/16	-.625	
	.31	5/16				1.0	1"		-.500
	.37	3/8				1.062	1 1/16	-.75	
	.43	7/16	-.187			1.12	1 1/8		-.625
	.5	1/2	-.25			1.25	1 1/4	-1.00	-.75
	.56	9/16	-.312	-.187		1.375	1 3/8		-1.00
	.62	5/8	-.375	-.25		1.5	1 1/2		
	.75	3/4		-.312		1.75	1 3/4		
	.812	13/16	-.500	-.375		2.0	2"		





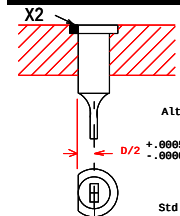
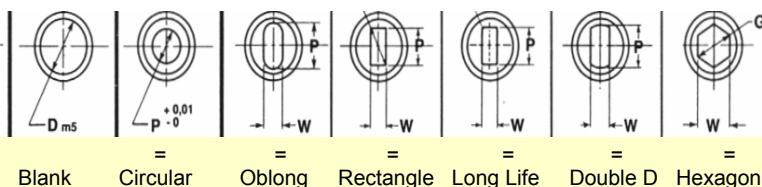
: Die Set Tooling

DS-SP=AISA Standard Basic Punches DS-PP=Precision Grade Punches

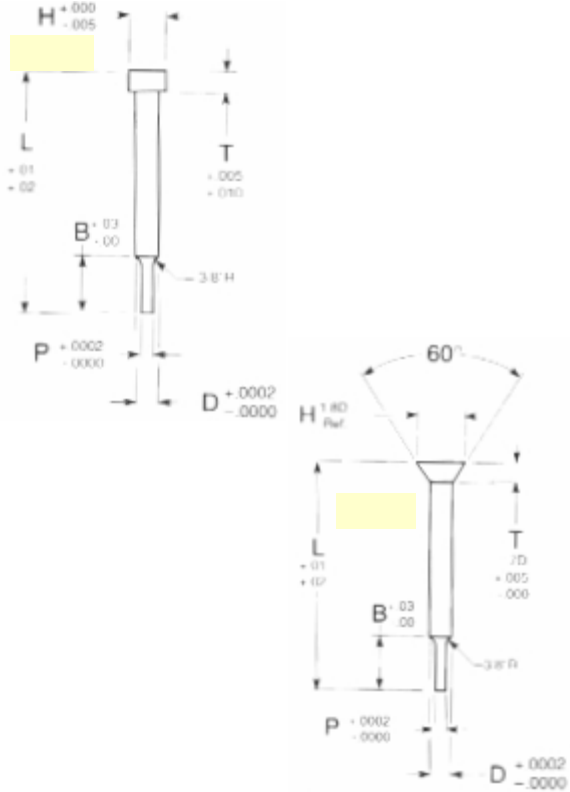
												Point Size		Point Length	
Shank Dia.	Shank Code	“ ” Overall Length								Head Dim.		Width	Length	STD.	MED.
												min. /	max.	Code Letter	
		150	175	200	225					.22	.125	.04 .062	.124		
		150	175	200	225	250				.25	.125	.04 .062	.155		
		150	175	200	225	250	275	300		.31	.125	.04 .062	.1865		
		150	175	200	225	250	275	300		.375	.187	.062	.249		
		150	175	200	225	250	275	300		.437	.187	.093	.3115		
		150	175	200	225	250	275	300	350	.50	.187	.125	.374		
		150	175	200	225	250	275	300	350	.56	.187	.156	.4365		
	50	150	175	200	225	250	275	300	350	.625	.187	.156	.500		
	56		175	200	225	250	275	300	350	.687	.187	.187	.562		
	62		175	200	225	250	275	300	350	.75	.187	.250	.624		
	75		175	200	225	250	275	300	350	.875	.187	.375	.749		
	87		175	200	225	250	275	300	350	1.00	.187	.437	.874		
	100		175	200	225	250	275	300	350	1.125	.187	.562	.999		

: =Circle or Round =Rectangle =Obound =Single D =Flatted
Round =Hexagon, =Octagon =Triangle =Blank-round =Pilot-round

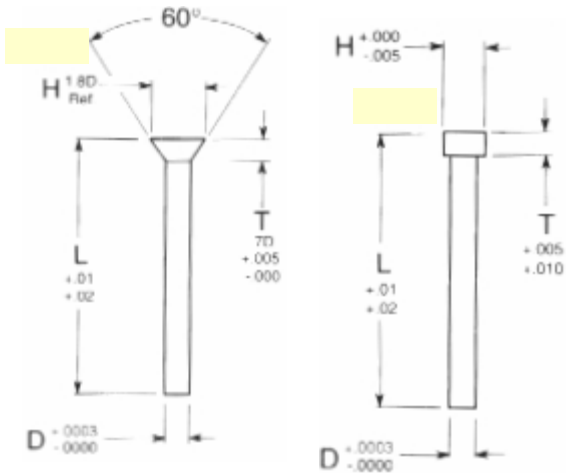
	= Punch =Die	3=D2 4=M2			" " Body Dia. Code	" " Length Code	Dim.	W Dim.	Point Length	=Key Flats Bottom +\$6 =Radius Corners +10 =Chamfered Corners+\$10	
10	DS	4	SP	O	25	200	.203	.156		X2	
6	DS	3	SE	R	50	250	.25				
24	DS	4	SPP	P	62	112	.375				



Keying flat parallel with major axis of shape with in .001"



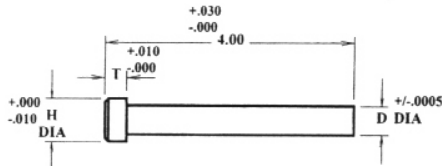
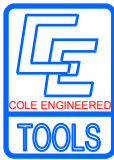
									e		
Shank Dia.	Shank Code	“ ” Overall Length					CP Head Dim.		Width	Length	Point Length
									min. /	max.	Code Letter
	06	150	175	200	225	250	.125	.125	.030	.0625	A=.19
	09	150	175	200	225	250	.156		.050	.0937	B=.25
	12	150	175	200	225	250	.187		.080	.125	C=.31
	15	150	175	200	225	250	.218		.110	.1562	
	18	150	175	200	225	250	.250		.140	.1875	
	21	150	175	200	225	250	.281		.170	.2188	
	25	150	175	200	225	250	.312		.200	.250	



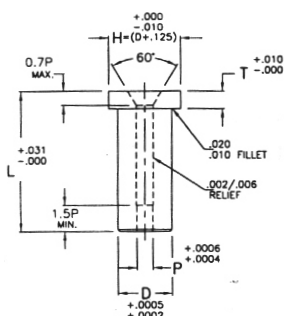
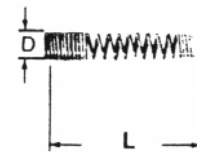
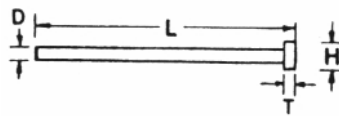
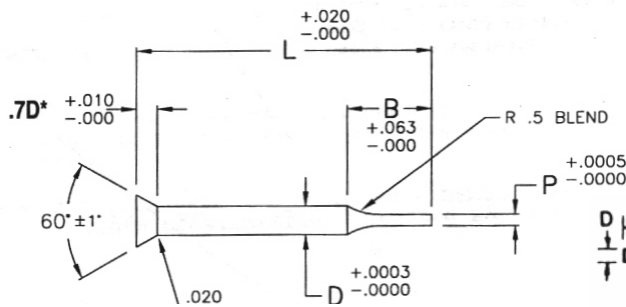
Shank Dia.	Shank Code	" " Overall Length						CP Head Dim.		
	06	150	175	200	225	250	.125		.125	
	09	150	175	200	225	250	.156			
	12	150	175	200	225	250	.187			
	15	150	175	200	225	250	.218			
	18	150	175	200	225	250	.250			
	21	150	175	200	225	250	.281			
	25	150	175	200	225	250	.312			

: =Circle or Round =Rectangle =Obround =Single D =Flatted
 Round =Hexagon, =Octagon =Triangle =Blank-round =Pilot-round

	= Punch =Die	3=D2 4=M2			" " Body Dia. Code	" " Length Code	Dim.	W Dim.	Point Length	=Key Flats Bottom +\$6 =Radius Corners +10 =Chamfered Corners+\$10	
10	DS	4	SP	O	25	200	.203	.156		X2	
6	DS	3	SE	R	50	250	.25				
24	DS	2	SP	P	62	112	.375				



	PIN				SPRING		SET SCREW	
	D	H	T	L	D	L	D	L
E25	.022	.048	.031	1.11	.082	2.38	3-48	.188
E32	.027	.073	.047	1.38	.104	2.38	5-40	.188
E47	.041	.094	.062	2.00	.130	2.66	5-40	.188
E63	.058	.120	.062	2.00	.165	3.00	10-32	.188
E93	.089	.156	.094	2.25	.198	3.00	1/4-28	.188
E125	.120	.188	.094	2.22	.270	2.56	5/16-24	.250



60° Angle & Hole P Ground Concentric to within .0003 T.I.R.

Cat. No.	Body Dia.	Hole Dia.	Overall Lengths L			Head Sizes	
	D	P	1/4	1	1 1/4	H	T
QR18	3/16 (.1875)	.0625	.75	1.00	1.25	5/16	1/8
QR25	1/4 (.250)	.0938	.75	1.00	1.25	3/8	1/8
QR31	5/16 (.3125)	.1250	.75	1.00	1.25	7/16	1/8
QR37	3/8 (.375)	.1562	.75	1.00	1.25	1/2	3/16
QR43	7/16 (.4375)	.1875	.75	1.00	1.25	9/16	3/16
QR50	1/2 (.500)	.2188	.75	1.00	1.25	5/8	3/16
QR62	5/8 (.625)	.2500	.75	1.00	1.25	3/4	1/4

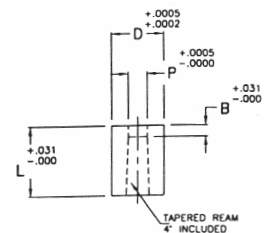
How to order:
Please specify: Quantity, Catalog Number and Overall Length.
See ordering examples.

EXAMPLE: 6 QR50 L1.00 A2

Cat. No.	Body Dia.	Hole Dia.	Overall Lengths L			Head Sizes		Land
	D	P	1/2	3/8	3/4	H	T	B
QG18	3/16 (.1875)	.0625	.50			5/16	1/8	3/8
QG25	1/4 (.250)	.0938	.62			3/8	1/8	1/2
QG31	5/16 (.3125)	.1250		.75		7/16	1/8	5/8
QG37	3/8 (.375)	.1562		.75	1/2	1/8	5/8	
QG43	7/16 (.4375)	.1875		.75	5/16	1/8	5/8	
QG50	1/2 (.500)	.2188		.75	5/8	1/8	5/8	
QG62	5/8 (.625)	.2500		.75	3/4	1/8	5/8	

How to order:
Please specify: Quantity, Catalog Number.
See ordering examples.

EXAMPLE: 6 QG50 A2



Body and Hole Concentric to within .0005 T.I.R.

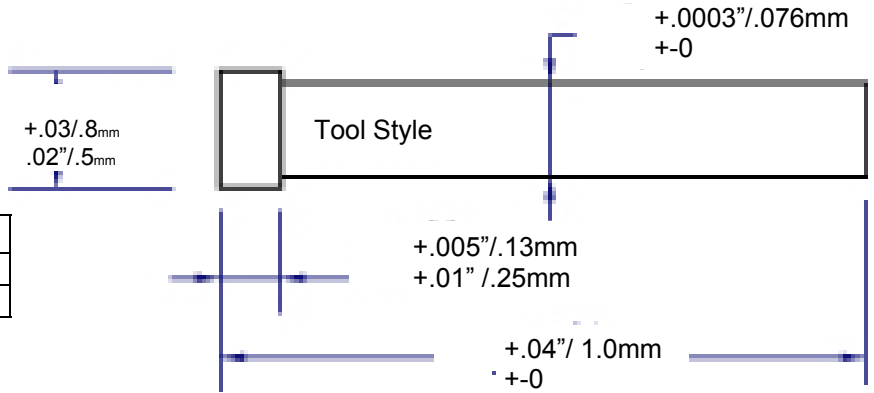
Cat. No.	Body Dia.	Hole Dia.		Overall Length L	Land
	D	P Min	P Max		B
QD12	1/8 (.125)	.031	.046	.37	1/32
QD18	3/16 (.1875)	.031	.062	.37	1/32

How to order:
Please specify: Quantity, Catalog Number and Hole Size.
See ordering examples.

EXAMPLE: 6 QD18 P .032 A2

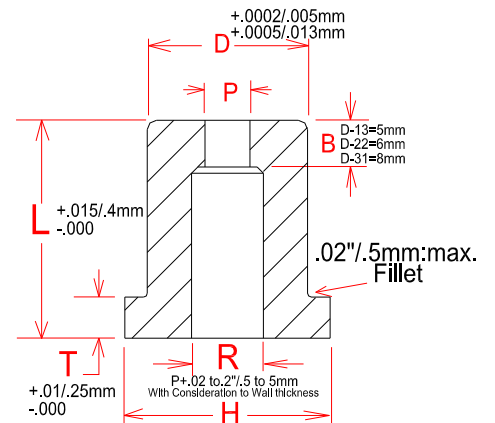
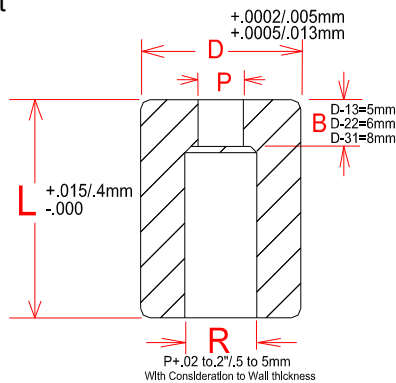
Custom PUNCH & DIES

	DSP4SPB			
	DSP4SPB			



			W				
	DSP#SP						
	DSP#SP						

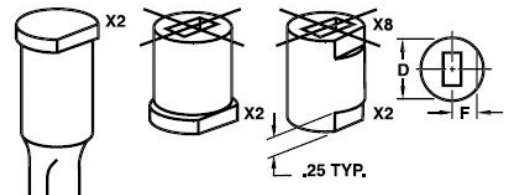
#=steel 3=D2, 4=M2 W for shape only Default for T=.188
X2=Optional Key Flat



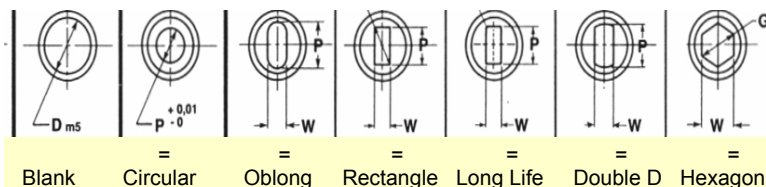
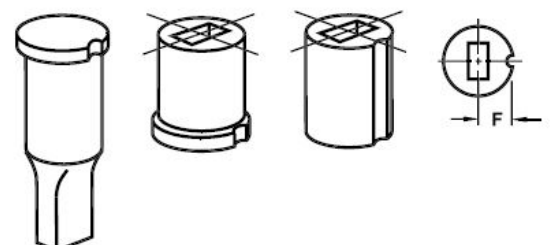
			W				X#	F
	DSD#							

#=3 for D2, 4 for M2 W=width if shape only Default for T=.125
H=D+.125 (+.01/-0) X#= Key Option #=2, 8, 9

Flats



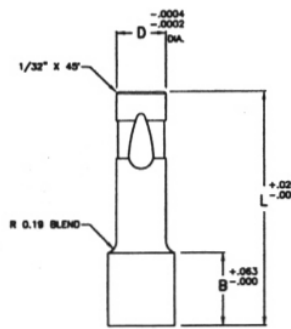
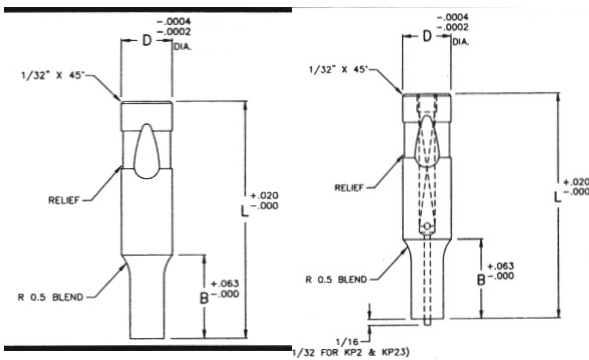
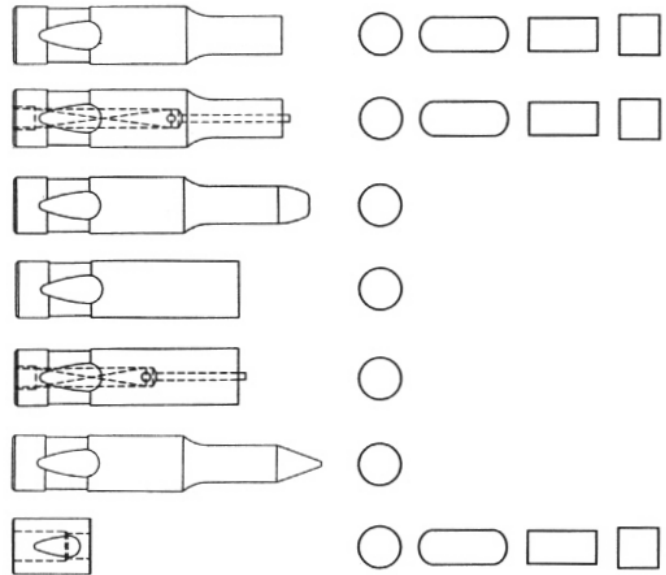
Dowel Slots



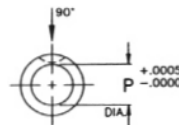
: Die Set Tooling

Quill Retainers Ejector Components

Perforating Punches	4
Ejector Perforating Punches	5
Pilot Punches	6
Blank Punches	6
Ejector Blank Punches	6
"A" Type Pilots	7
Die Buttons	8



LBCP (ROUND)



Cat. No.	Shank Dia.	Range of Point Diameter	
	D	P Min	P Max
LBCP25	1/4	.062	.249
LBCP37	3/8	.125	.374
LBCP50	1/2	.187	.499
LBCP62	5/8	.375	.624
LBCP75	3/4	.500	.749
LBCP87	7/8	.625	.874
LBCP100	1	.750	.999

Material: A2—5% Chrome; M2—High Speed Steel

Hardness: Hole and Body Rc 60-63

Concentricity: Hole to Body (P:D)

ROUND: .0005 T.I.R.(Max.)

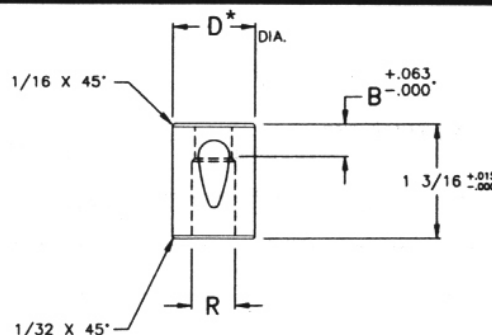
SHAPES: .0010 T.I.R.(Max.)

How to order:

Please specify: Quantity, Catalog Number, Hole Dimensions, and Material.

See ordering examples.

NOTE: If material not specified, A2 will be provided.



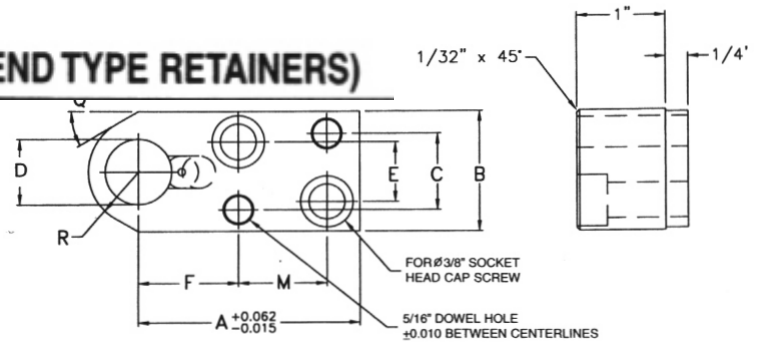
For rectangular die holes: The Specified "P" and "W" dim. must not result in a shape diagonal greater than the "G" max listed in the chart.

***D Tolerances**

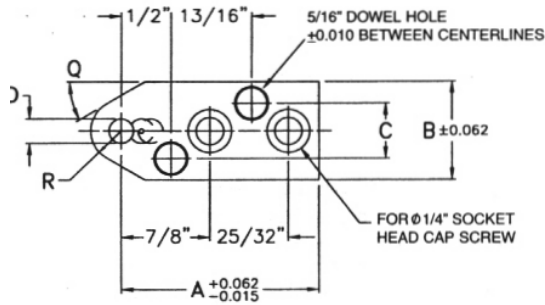
-.0007 to -.0002 for D up to 1"

-.0010 to -.0003 for D > 1"

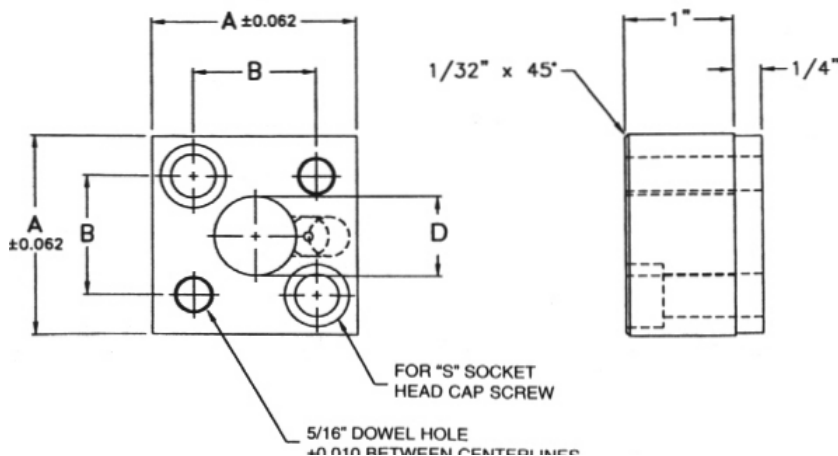
LBER (END TYPE RETAINERS)



LBER25 ONLY



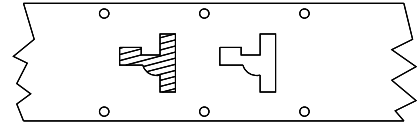
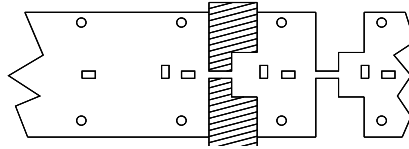
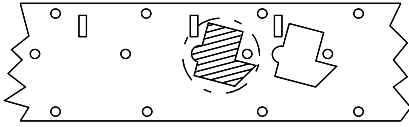
Catalog Number	Nominal D	C	E	F	M	A	Q	R	B
LBER25	1/4 (.250)	9/16	-	-	-	2	30°	5/16	1
LBER37	3/8 (.375)	3/4	9/16	29/32	31/32	2 1/4	30°	3/8	1 1/4
LBER50	1/2 (.500)	3/4	9/16	29/32	31/32	2 1/4	30°	9/16	1 1/4
LBER62	5/8 (.625)	3/4	9/16	29/32	31/32	2 1/4	30°	9/16	1 1/4
LBER75	3/4 (.750)	7/8	1 1/16	1 1/8	1	2 1/2	-	1 1/16	1 3/8
LBER87	7/8 (.875)	7/8	1 1/16	1 1/8	1	2 1/2	-	3/4	1 1/2
LBER100	1 (1.000)	7/8	1 1/16	1 1/8	1	2 1/2	-	13/16	1 5/8
LBER125	1 1/4 (1.250)	1 1/8	1 1/8	7/8	1 1/8	2 3/8	-	1	1 7/8



Catalog Number	Nominal D	A	B	S
LBSR25	1/4 (.250)	1 1/4	5/8	1/4
LBSR37	3/8 (.375)	1 3/8	3/4	5/16
LBSR50	1/2 (.500)	1 1/2	7/8	5/16
LBSR62	5/8 (.625)	1 5/8	1	5/16
LBSR75	3/4 (.750)	1 7/8	1 1/8	3/8
LBSR87	7/8 (.875)	2	1 1/4	3/8
LBSR100	1 (1.000)	2 1/4	1 1/2	3/8
LBSR125	1 1/4 (1.250)	2 1/4	1 1/2	3/8
LBSR150	1 1/2 (1.500)	2 3/4	2	3/8
LBSR175	1 3/4 (1.750)	2 3/4	2	3/8

Die Set Tooling: *Extended Range Punches*

Standard insert construction for holes up to 3"

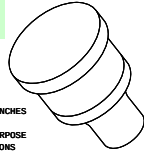


Standard Steel
A2 5% Chrome
59-62Rc

Type

$\overline{X} = \text{Round}$
 $O = \text{Obround}$
 $R = \text{Round}$

TYPE VP_



HEAD TYPE PUNCHES

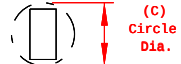
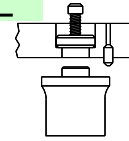
* GENERAL PURPOSE APPLICATIONS

Type

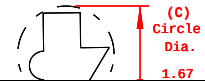


TANG TYPE PUNCHES

- * CLOSE SPACING
- * REDUCED HOLE DIAMETER IN THE RETAINER

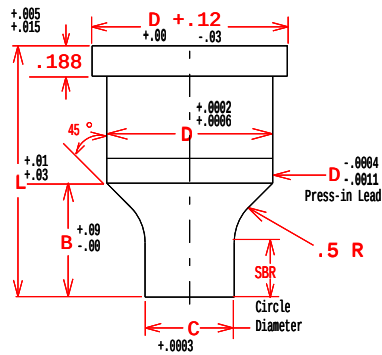


(C)
Circle
Dia.



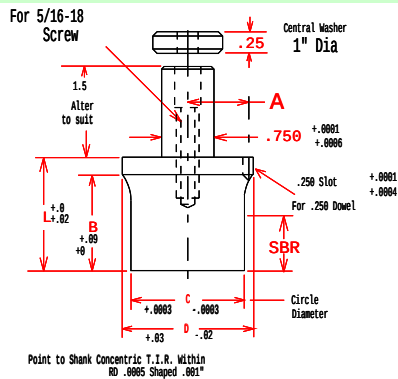
(C)
Circle
Dia.
1.67

X, O, S, SP##



Point to Shank Concentric within .0003 T.I.R.

X, R, O, S, SP##

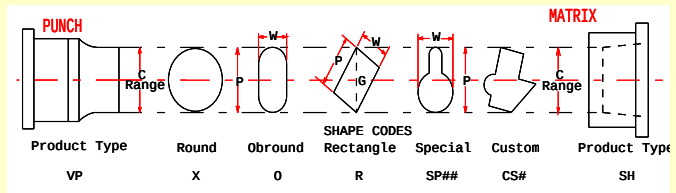


Point to Shank Concentric T.I.R. Within
RD .0005 Shaped .001"

					Cat. No.					
										Min. SBR
		Min.	Max.	Min.		2.25"	2.75"	3.00"	3.50"	
S 1.25	1.25"	.625	1.249	.282	125-	225	275	300	325	.4
	1.50"	.750	1.499	.300	150-					
	1.75"	1.000	1.749	.350	175-					
	2.00"	1.187	1.999	.400	200-					
	2.25"	1.375	2.249	.450	225-					
	2.50"	1.625	2.499	.500	250-					
S 1.5	1.25"	.625	1.249	.282	125-	250	300	325	.65	
	1.50"	.750	1.499	.300	150-					
	1.75"	1.000	1.749	.350	175-					
	2.00"	1.187	1.999	.400	200-					
	2.25"	1.375	2.249	.450	225-					
	2.50"	1.625	2.499	.500	250-					

					Cat. No.				
Point Length	Shank Dia.	C Dia. Range		Point Dim.	Shank Code	Length Code	Dowel Loc.	Nominal Length	Min.
		Min.	Max.	Min.					SBR
S 1.25	1.5"	1.0"	1.5"	.30	150	150	.72	1.5"	.4 "
	2.0"	1.5"	2.0"	.40	200		.97		
	2.5"	2.0"	2.5"	.50	250		1.22		
	3"	2.5"	3.0"	.60	300		1.47		
S 1.5	1.5"	1.0"	1.5"	.30	150	175	.72	1.75	.65"
	2.0"	1.5"	2.0"	.40	200		.97		
	2.5"	2.0"	2.5"	.50	250		1.22		
	3.0"	2.5"	3.0"	.60	300		1.47		

- Determine the C Diameter. Select the centerline of the shape, then determine the diameter of the circle which will encompass the shape. Ex. C=1.67
 - Select Product Type and Shape Code
 - Find Catalog No. Select shank or body diameter required by C diameter. (Die/Matrix generally control spacing because they require larger D diameters for a C range than do punches). Select the overall length (and point length for punches, S, B, C, or D Ex: SPR 25-S200 or VPSP16 200-S250
 - Complete the catalog number by adding:
 - P & W for Standard Shapes
 - For Custom Shapes furnish a detailed print
- The diagram illustrates the method for determining the C Diameter for various shapes. It shows cross-sections of different shapes with a circle of diameter C circumscribed around them. The shapes are labeled: Product Type (VP), Round (X), Obround (O), Rectangle (R), Special (SP##), Custom (CS#), and Product Type (SH). Dimensions P and W are also indicated for some shapes.



	TYPE	Cat. Code	SHAPE, SIZES
Ex:	DS SPR	25-S200	P.125, W.200
Ex:	DS VPSP16	200-S250	A1.500, B.500, C.100

Ex:	TYPE VPC	Cat. Code 20-S300	SHAPE, SIZES Print No.
-----	-------------	----------------------	---------------------------

Die Sets & Components

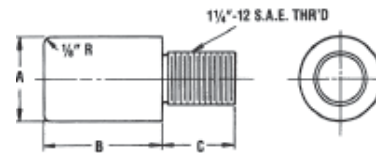
Quality & performance
Quick delivery
Precision Components



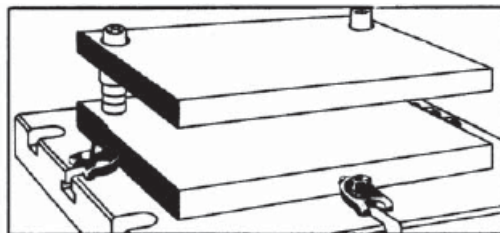
Punch Shanks

Product Features

Steel punch shanks are made to dimensions with accurately cut threads for use on any type of die set.

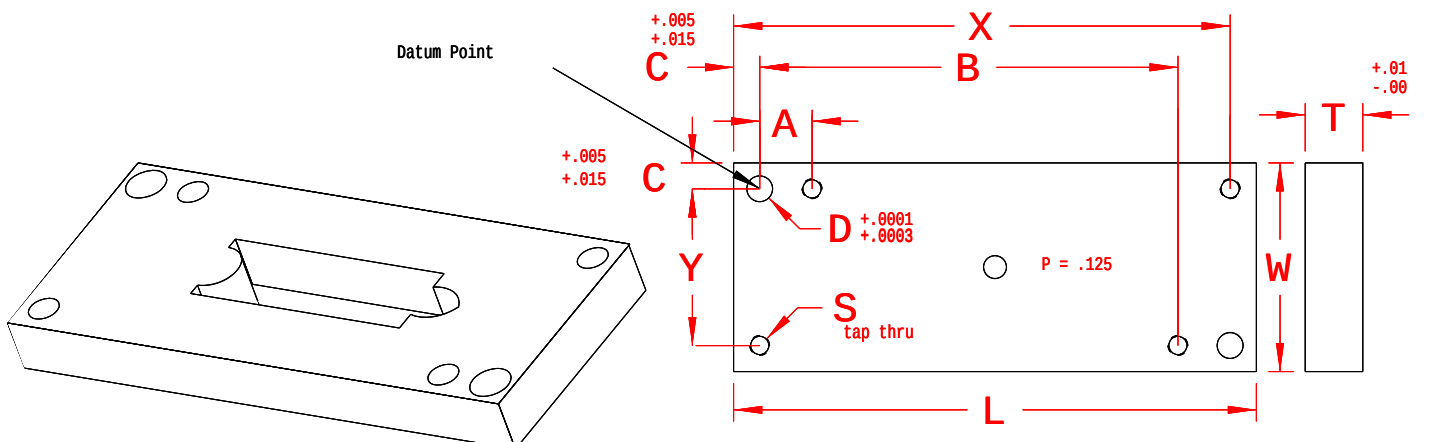
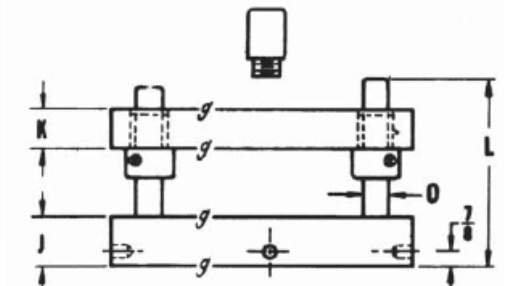
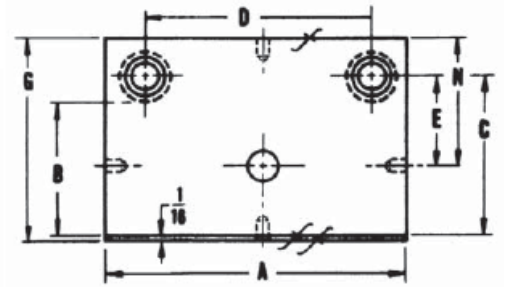
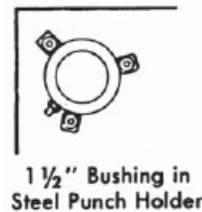
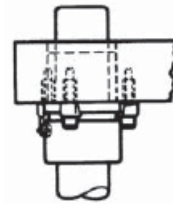


Part Number	Diameter A (in)	Length B (in)	Thread Length C (in)
8-2422-1	1-1/2	2-1/8	1-3/8
8-2424-1			1-1/2
8-2426-1			1-3/4
8-2432-1			2
8-2436-1	1-9/16	2-1/8	2-1/4
8-2440-1			2-1/2
8-2446-1			2-3/4
8-2452-1			3-1/2
8-2522-1	2	2-7/8	1-3/8
8-2524-1			1-1/2
8-2526-1			1-3/4
8-2532-1			2
8-2536-1	2-1/2	2-7/8	2-1/4
8-2540-1			2-1/2
8-2546-1			2-3/4
8-2552-1			3-1/2
8-3222-1	3	2-7/8	1-3/8
8-3224-1			1-1/2
8-3226-1			1-3/4
8-3232-1			2
8-3236-1	3-1/2	2-7/8	2-1/4
8-3240-1			2-1/2
8-3246-1			2-3/4
8-3252-1			3-1/2
8-4022-1	4	2-7/8	1-3/8
8-4024-1			1-1/2
8-4026-1			1-3/4
8-4032-1			2
8-4036-1	4-1/2	2-7/8	2-1/4
8-4040-1			2-1/2
8-4046-1			2-3/4
8-4052-1			3-1/2
8-4822-1	5	2-7/8	1-3/8
8-4824-1			1-1/2
8-4826-1			1-3/4
8-4832-1			2
8-4836-1	5-1/2	2-7/8	2-1/4
8-4840-1			2-1/2
8-4846-1			2-3/4
8-4852-1			3-1/2



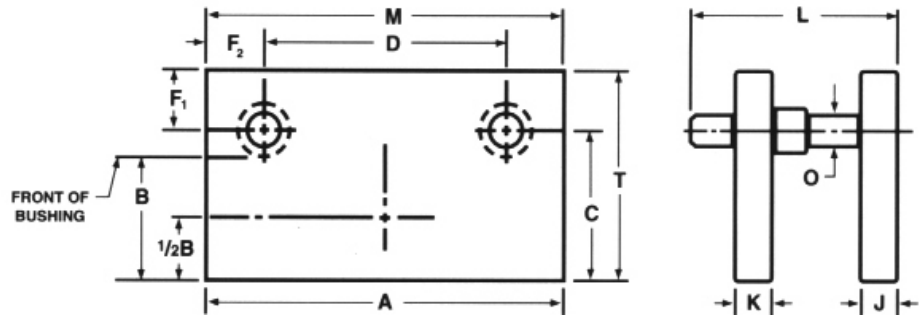
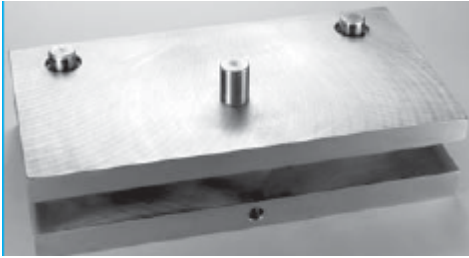
CLAMPING METHOD FOR ALL-STEEL HOLDER

The illustration above shows the space saving method for clamping an all-steel die holder where the bolster plate is equipped with T-slots. Note the lack of interference for stock feed. See the Diemakers' Supplies Catalog for a complete description of clamps and clamping methods.



Two Post Plain Bearing Die Sets

*A



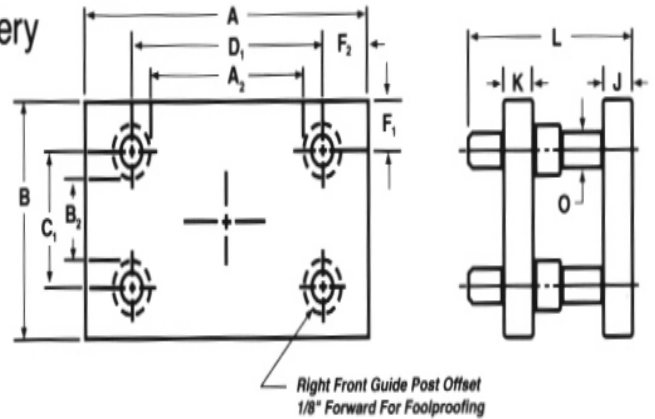
Rectangular Four Post—in stock for immediate delivery

Available with Microme or Non-Plated Guide Posts.

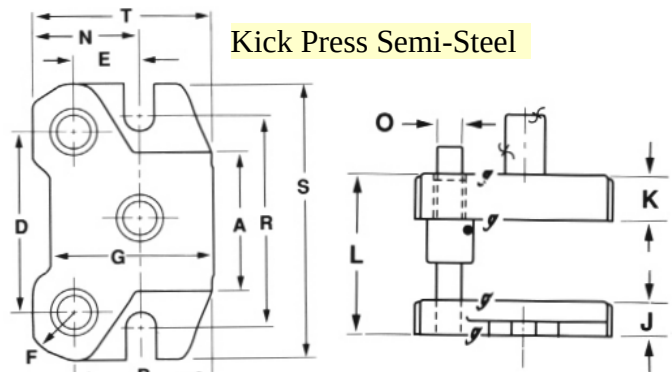
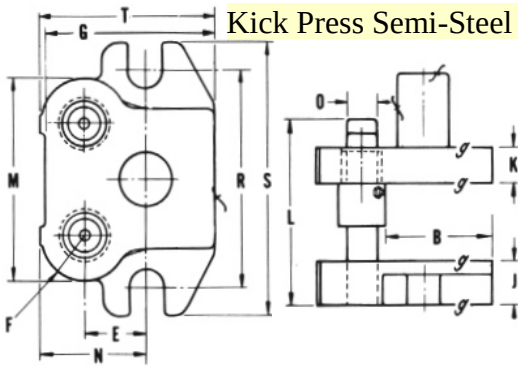
Meets ANSI B 5.25 Standards.

Front and rear edges are machined parallel to guide posts for ease in die building.

Inserted shanks furnished, if required, at additional cost.



Die Sets: Kick Press Semi-Steel

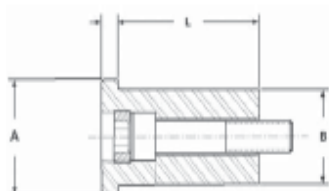


PAD RETAINERS Standard and Reverse Mount



Product Features

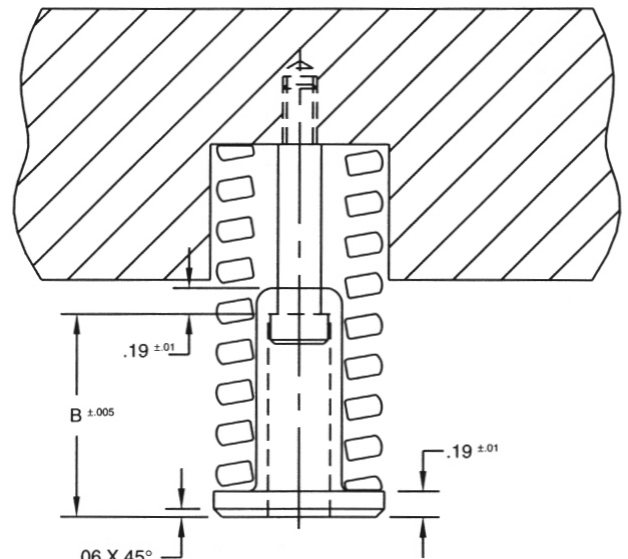
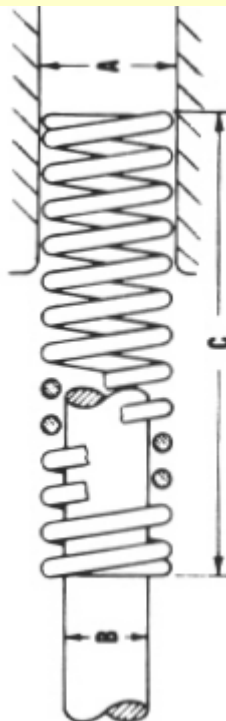
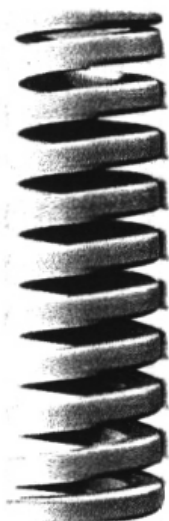
Pad retainers are manufactured from 1144 steel and hardened to 28-34 Rockwell C-scale. They are machined to precise tolerances in order to retain the pad and assure parallelism during use.





Springs & Spring Retainers

SPRINGS: Give us your Desired A=Pocket ID, C=Free Length, C2=Minimum compressed Length, Duty or lbs force desired. We'll reply with part# & value price.



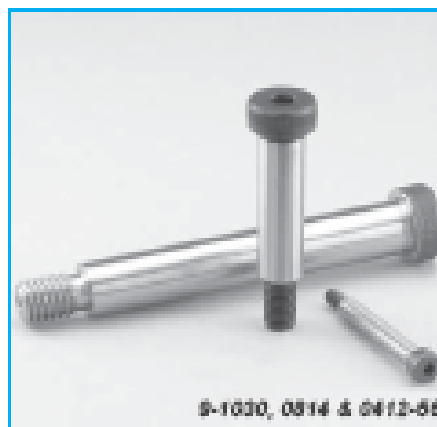
FOR 'C' - SHOULDER SCREW
MATERIAL:
S.A.E. 1144 Rc 28-34
SPRING AND SCREW NOT INCLUI

STRIPPER BOLTS -Inch

Product Features

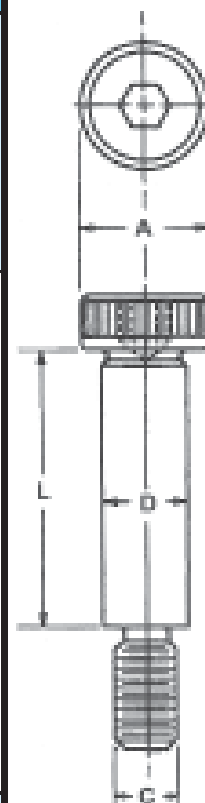
Socket head stripper bolts (shoulder screws) are manufactured to close tolerances specifically for tool and die work. They are made from alloy steel that is heat-treated for additional strength. The final product has close tolerances and fully formed threads for the United Class 3A fit.

The knurled heads makes for sure finger grips that allow for fast assembly. The accurate hex socket provides for non-slip internal wrenching.



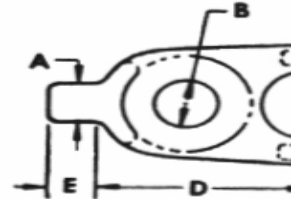
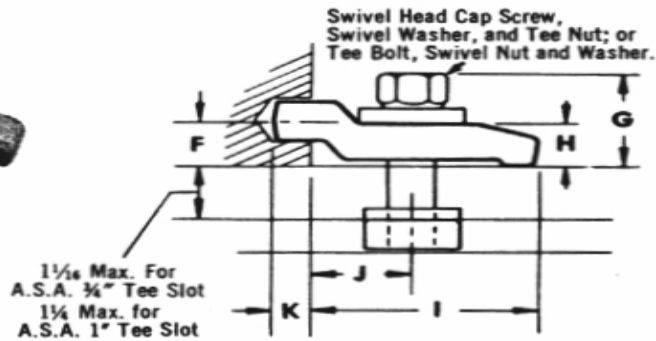
9-1030, 0814 & 0412-08

Part Number	Diam. D (In)	Length L (In)	Thread Pitch	A	C	Part Number	Diam. D (In)	Length L (In)	Thread Pitch	A	C
9-0403-08	1/4	3/8	NC	3/8	#10	9-0824-08	1/2	3	NC	3/4	3/8
9-0404-08		1/2				9-0826-08		3-1/4			
9-0405-08		5/8				9-0828-08		3-1/2			
9-0406-08		3/4				9-0830-08		3-3/4			
9-0408-08		1				9-0832-08		4			
9-0410-08		1-1/4				9-0834-08		4-1/4			
9-0412-08		1-1/2				9-0836-08		4-1/2			
9-0503-08	5/16	3/8	NC	7/16	1/4	9-0838-08		4-3/4			
9-0504-08		1/2				9-0840-08		5			
9-0505-08		5/8				9-1010-08	5/8	1-1/4	NC	7/8	1/2
9-0506-08		3/4				9-1012-08		1-1/2			
9-0508-08		1				9-1014-08		1-3/4			
9-0510-08		1-1/4				9-1016-08		2			
9-0512-08		1-1/2				9-1018-08		2-1/4			
9-0514-08		1-3/4				9-1020-08		2-1/2			
9-0516-08		2				9-1022-08		2-3/4			
9-0603-08	3/8	3/8	NC	9/16	5/16	9-1024-08		3			
9-0604-08		1/2				9-1026-08		3-1/4			
9-0605-08		5/8				9-1028-08		3-1/2			
9-0606-08		3/4				9-1030-08		3-3/4			
9-0608-08		1				9-1032-08		4			
9-0610-08		1-1/4				9-1034-08		4-1/4			
9-0612-08	1/2	1-1/2				9-1036-08	3/4	4-1/2	NC	1.0	5/8
9-0614-08		1-3/4				9-1038-08		4-3/4			
9-0616-08		2				9-1040-08		5			
9-0618-08		2-1/4				9-1044-08		5-1/2			
9-0620-08		2-1/2				9-1048-08		6			
9-0622-08		2-3/4				9-1212-08	3/4	1-1/2			
9-0624-08	1/2	3	NC	3/4	3/8	9-1214-08		1-3/4			
9-0626-08		3-1/4				9-1216-08		2			
9-0628-08		3-1/2				9-1218-08		2-1/4			
9-0630-08		3-3/4				9-1220-08		2-1/2			
9-0632-08		4				9-1222-08		2-3/4			
9-0804-08	1/2	1/2	NC	3/4	3/8	9-1224-08		3			
9-0805-08		5/8				9-1226-08	3/4	3-1/4			
9-0806-08		3/4				9-1228-08		3-1/2			
9-0808-08		1				9-1230-08		3-3/4			
9-0810-08		1-1/4				9-1232-08		4			
9-0812-08		1-1/2				9-1234-08		4-1/4			
9-0814-08	1/2	1-3/4				9-1236-08		4-1/2			
9-0816-08		2				9-1238-08		4-3/4			
9-0818-08		2-1/4				9-1240-08		5			
9-0820-08		2-1/2				9-1244-08		5-1/2			
9-0822-08		2-3/4				9-1248-08		6			



Springs & Clamps

OFFSET

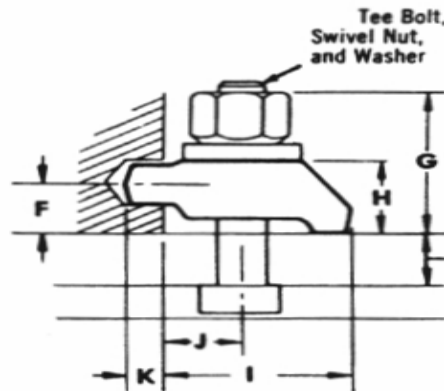


**MOUNTING ASSEMBLY
DRAWING**

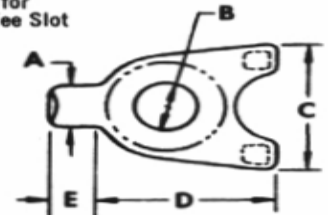
GOLD BOND OFFSET CLAMPS

Bolt Size	A	B	C	D	E	F	G	H	I	J	K	Part Number
5/8 or 3/4	3/4	7/8	2 1/4	3	5/8	7/8	1 3/4	13/16	3	1 1/4	5/8	9-06-301
1	3/4	1 1/8	2 1/2	3 5/8	5/8	7/8	2	15/16	3 5/8	1 9/16	5/8	9-07-301

STRAIGHT



1 1/8 Max. For
A.S.A. 3/4\" Tee Slot
1 1/4 Max. for
A.S.A. 1\" Tee Slot

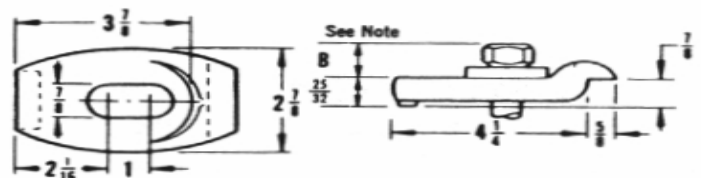


**MOUNTING ASSEMBLY
DRAWING**

GOLD BOND STRAIGHT CLAMPS

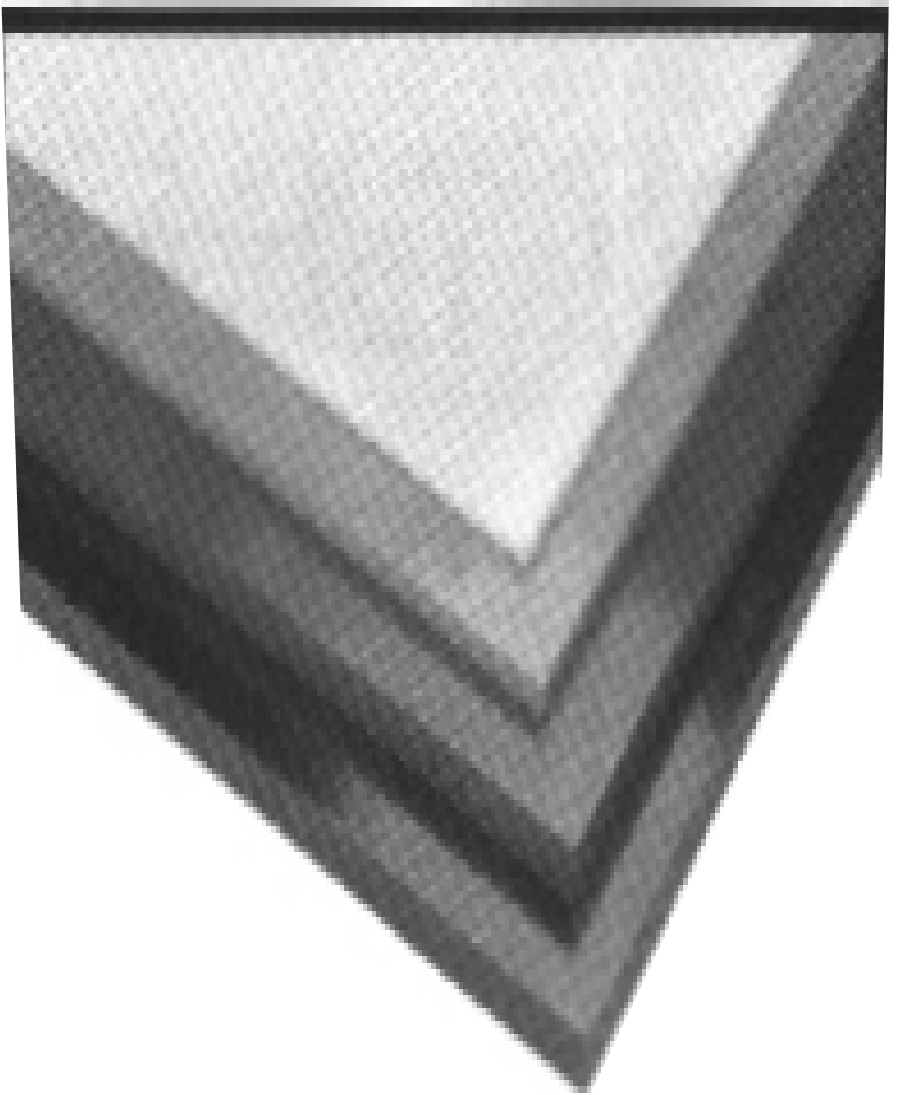
Bolt Size	A	B	C	D	E	F	G	H	I	J	K	Part Number
5/8 or 3/4	3/4	7/8	2 1/4	2 1/2	5/8	7/8	2 3/8	1 5/16	2 1/2	1	5/8	9-03-301
1	3/4	1 1/8	2 3/8	3	5/8	7/8	2 3/4	1 5/16	3	1 1/4	5/8	9-04-301

GOOSE NECK 9-02-301

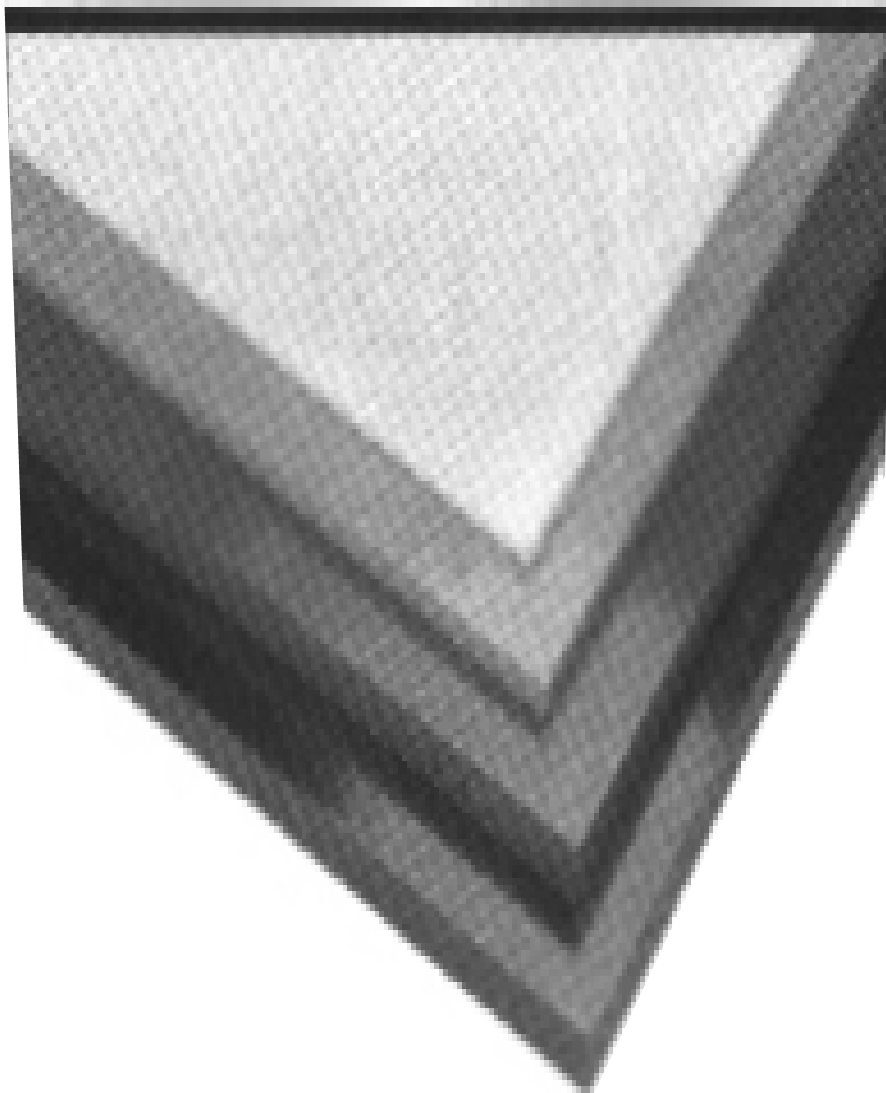


Precision cast: Thickness dimensions are tightly

Width		Length	Thickness						
			1/16"	1/8"	3/16"	1/4"	3/8"	1/2"	5/8"
1"		48"							
2		48							
3		48							
4		48							
6		6							
		12							
		18							
		24							
		36							
		48							
12		12							
		18							
		24							
		36							
		48							
18		18							
		24							
		36							
		48							
24		24							
		36							
		48							
		60							
		72							
48		48							
		96							



1"		48"
2		48
3		48
4		48
6		6
		12
		18
		24
		36
		48
12		12
		18
		24
		36
		48
18		18
		24
		36
		48
24		24
		36
		48
		60
		72
48		48
		96





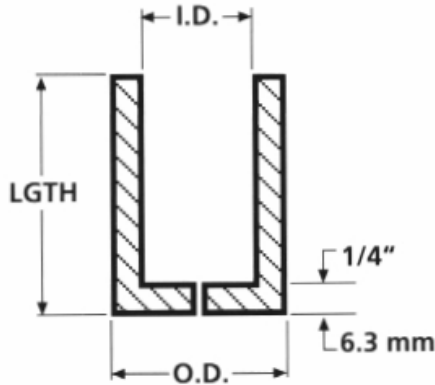
SurStrip™ Urethane Cup Strippers

*A

Stocked in 950A hardness. Other durometers available with minimum 10 pieces.

To order specify Qty, Part No., and durometers.

- **Longer Tool Life:** These stripper generate high holding pressure and strip the blank cleanly from the punch. This results in an optimum working condition for the punch, and lengthens its effective work life.
- **Easy to Use:** Simply push stripper onto punch shank (I.D. is slightly undersized to grip punch body.) First stroke of press forces punch tip to pierce through stripper bottom.



Tolerance - metric

I.D.	Slightly undersize to grip punch
O.D.	+/- .2 mm

METRIC SIZES

I.D. mm	O.D. mm	Lgth. mm	Part No.	Price
6	19	45	MSS-006045	
6	19	53	MSS-006053	
6	19	71	MSS-006071	
8	21	45	MSS-008045	
8	21	53	MSS-008053	
8	21	71	MSS-008071	
10	23	45	MSS-010045	
10	23	53	MSS-010053	
10	23	56	MSS-010056	
10	23	71	MSS-010071	
13	26	45	MSS-013045	
13	26	53	MSS-013053	
13	26	56	MSS-013056	
13	26	71	MSS-013071	
16	30	45	MSS-016045	
16	30	53	MSS-016053	
16	30	56	MSS-016056	
16	30	71	MSS-016071	
20	38	45	MSS-020045	
20	38	53	MSS-020053	
20	38	71	MSS-020071	
25	50	45	MSS-025045	
25	50	53	MSS-025053	
25	50	71	MSS-025071	
30	60	45	MSS-030045	

STANDARD SIZES

I.D.	O.D.	Lgth.	Part No.	Price
3/16"	11/16"	1-1/4"	KSS-316114	
		1-1/2"	KSS-316112	
1/4	3/4	1-1/4"	KSS-014114	
		1-1/2"	KSS-014112	
		1-3/4"	KSS-014134	
5/16	13/16	1-1/4"	KSS-516114	
		1-1/2"	KSS-516112	
		1-3/4"	KSS-516134	
		2"	KSS-516200	
3/8	7/8	1-1/4"	KSS-038114	
		1-1/2"	KSS-038112	
		1-3/4"	KSS-038134	
		2"	KSS-038200	
1/2	1	1-1/4"	KSS-012114	
		1-1/2"	KSS-012112	
		1-3/4"	KSS-012134	
		2"	KSS-012200	
		2-1/4"	KSS-012214	
5/8	1-1/8	1-1/4"	KSS-058114	
		1-1/2"	KSS-058112	
		1-3/4"	KSS-058134	
		2"	KSS-058200	
3/4	1-1/2	1-3/4"	KSS-034134	
		2"	KSS-034200	
		2-1/4"	KSS-034214	
		2-1/2"	KSS-034212	
		2-3/4"	KSS-034234	
7/8	1-3/4	1-3/4"	KSS-078134	
		2"	KSS-078200	
		2-1/4"	KSS-078214	
		2-1/2"	KSS-078212	
		2-3/4"	KSS-078234	
1	2	1-3/4"	KSS-100134	
		2"	KSS-100200	
		2-1/4"	KSS-100214	
		2-1/2"	KSS-100212	
		2-3/4"	KSS-100234	
1-1/4"	2-1/2"	2"	KSS-114200	
		2-1/4"	KSS-114214	
		2-1/2"	KSS-114212	
		2-3/4"	KSS-114234	
		3"	KSS-114300	
1-1/2	2-3/4	2"	KSS-112200	
		2-1/4"	KSS-112214	
		2-1/2"	KSS-112212	
		2-3/4"	KSS-112234	
		3"	KSS-112300	
2	3-1/4	2-1/4"	KSS-200214	
2	4-1/2	2-1/4"	KSS-200214	

URETHANE: Tube Spring & Caps

*A

Stocked in 950A Durometers. Other Durometers available with 12" or 24" minimum lengths.

See page 15 & 16 for additional sizes including metric



Fits Punch Body Diam.	O.D.	Lgth.	Order No.	Lb. Per 1/8" Def.	Price	Use Cap Cat. No.
3/16"	11/16"	1-1/4	KPS-0316 H01104	220		N/A
		1-1/2	KPS-0316 H01102	200		
		12	KPS-0316 H12000	*		
1/4	3/4"	1	KPS-0104 H01000	325		KPC-1000
	High Press.	1-1/4	KPS-0104 H01104	250		
		1-1/2	KPS-0104 H01102	215		
		1-3/4	KPS-0104 H01304	183		
		12	KPS-0104 H12000	*		
	7/8"	1	KPS-0104 V01000	475		KPC-1108
	Very High Press.	1-1/4	KPS-0104 V01104	350		
		1-1/2	KPS-0104 V01102	302		
		1-3/4	KPS-0104 V01304	275		
		12	KPS-0104 V12000	*		
	1"	1	KPS-0104 U01000	712		KPC-1104
	Ultra High Press.	1-1/4	KPS-0104 U01104	547		
		1-1/2	KPS-0104 U01102	399		
		1-3/4	KPS-0104 U01304	348		
		12	KPS-0104 U12000	*		
5/16"	13/16"	1-1/4	KPS-0516 H01104	280		N/A
		1-1/2	KPS-0516 H01102	255		
		1-3/4	KPS-0516 H01304	235		
		2	KPS-0516 H02000	225		
		12	KPS-0516 H12000	*		
3/8"	7/8"	1	KPS-0308 H01000	444		KPC-1108
	High Press.	1-1/4	KPS-0308 H01104	347		
		1-1/2	KPS-0308 H01102	275		
		1-3/4	KPS-0308 H01304	224		
		2	KPS-0308 H02000	199		
		12	KPS-0308 H12000	*		
	1"	1	KPS-0308 V01000	575		KPC-1104
	Very High Press.	1-1/4	KPS-0308 V01104	475		
		1-1/2	KPS-0308 V01102	389		
		1-3/4	KPS-0308 V01304	325		
		2	KPS-0308 V02000	286		
		12	KPS-0308 V12000	*		
	1-1/8"	1	KPS-0308 U01000	800		KPC-1308
	Ultra High Press.	1-1/4	KPS-0308 U01104	593		
		1-1/2	KPS-0308 U01102	522		
		1-3/4	KPS-0308 U01304	450		
		2	KPS-0308 U02000	387		
		12	KPS-0308 U12000	*		

Fits Punch Body Diam.	O.D.	Lgth.	Order No.	Lb. Per 1/8" Def.	Price	Use Cap Cat. No.
1/2"	1"	1"	KPS-0102 H01000	512		KPC-1104
	High Press.	1-1/4	KPS-0102 H01104	340		
		1-1/2	KPS-0102 H01102	325		
		1-3/4	KPS-0102 H01304	275		
		2	KPS-0102 H02000	250		
		24	KPS-0102 H24000	*		
	1-1/8"	1	KPS-0102 V01000	681		KPC-1308
	Very High Press.	1-1/4	KPS-0102 V01104	525		
		1-1/2	KPS-0102 V01102	424		
		1-3/4	KPS-0102 V01304	350		
		2	KPS-0102 V02000	320		
		24	KPS-0102 V24000	*		
	1-1/4	1	KPS-0102 U01000	863		KPC-1102
	Ultra High Press.	1-1/4	KPS-0102 U01104	675		
		1-1/2	KPS-0102 U01102	550		
		1-3/4	KPS-0102 U01304	492		
		2	KPS-0102 U02000	450		
		24	KPS-0102 U24000	*		
5/8	1-1/8	1	KPS-0508 H01000	562		KPC-1308
	High Press.	1-1/4	KPS-0508 H01104	446		
		1-1/2	KPS-0508 H01102	375		
		1-3/4	KPS-0508 H01304	323		
		2	KPS-0508 H02000	295		
		24	KPS-0508 H24000	*		
	1-1/4	1	KPS-0508 V01000	794		KPC-1102
	Very High Press.	1-1/4	KPS-0508 V01104	600		
		1-1/2	KPS-0508 V01102	510		
		1-3/4	KPS-0508 V01304	424		
		2	KPS-0508 V02000	384		
		24	KPS-0508 V24000	*		
	1-3/8	1	KPS-0508 U01000	975		KPC-1508
	Ultra High Press.	1-1/4	KPS-0508 U01104	775		
		1-1/2	KPS-0508 U01102	640		
		1-3/4	KPS-0508 U01304	546		
		2	KPS-0508 U02000	489		
		24	KPS-0508 U24000	*		
3/4	1-3/8	1-1/4	KPS-0304 H01104	747		KPC-1508
	High Press.	1-1/2	KPS-0304 H01102	642		
		1-3/4	KPS-0304 H01304	554		
		2	KPS-0304 H02000	479		
		2-1/4	KPS-0304 H02104	417		

Urethane: Tube - Springs & Caps

*A

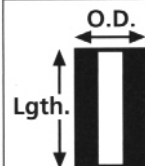
Fits Punch Body Diam.	O.D.	Lgth.	Order No.	Lb. Per 1/8" Def.	Price	Use Cap Cat. No.
3/4"	1-3/8"	2-1/2"	KPS-0304 H02102	380		
		24	KPS-0304 H24000	*		
		1-1/2	KPS-0304 V01104	975		KPC-1304
		Very High Press.	1-1/2	KPS-0304 V01102	810	
			1-3/4	KPS-0304 V01304	688	
			2	KPS-0304 V02000	591	
			2-1/4	KPS-0304 V02104	529	
			2-1/2	KPS-0304 V02102	475	
			2-3/4	KPS-0304 V02304	418	
			24	KPS-0304 V24000	*	
	1-3/4	Ultra High Press.	1-1/4	KPS-0304 U01104	1400	KPC-2108
			1-1/2	KPS-0304 U01102	1200	
			1-3/4	KPS-0304 U01304	1015	
			2	KPS-0304 U02000	896	
			2-1/4	KPS-0304 U02104	796	
			2-1/2	KPS-0304 U02102	707	
			2-3/4	KPS-0304 U02304	551	
			24	KPS-0304 U24000	*	
	7/8	High Press.	1-1/2	KPS-0708 H01102	855	N/A
			1-3/4	KPS-0708 H01304	780	
			2	KPS-0708 H02000	745	
			2-1/4	KPS-0708 H02104	700	
			2-1/2	KPS-0708 H02102	670	
			2-3/4	KPS-0708 H02304	610	
			3	KPS-0708 H03000	560	
			24	KPS-0708 H24000	*	
		Very High Press.	1-1/2	KPS-0708 V01102	1045	KPC-2108
			1-3/4	KPS-0708 V01304	955	
			2	KPS-0708 V02000	910	
			2-1/4	KPS-0708 V02104	855	
			2-1/2	KPS-0708 V02102	820	
			2-3/4	KPS-0708 V02304	750	
			3	KPS-0708 V03000	675	
			24	KPS-0708 V24000	*	
		2 Ultra High Press.	1-1/2	KPS-0708 U01102	1475	KPC-2308
			1-3/4	KPS-0708 U01304	1345	
			2	KPS-0708 U02000	1285	
			2-1/4	KPS-0708 U02104	1205	
			2-1/2	KPS-0708 U02102	1155	
			2-3/4	KPS-0708 U02304	1055	
			3	KPS-0708 U03000	955	
			24	KPS-0708 U24000	*	

Fits Punch Body Diam.	O.D.	Lgth.	Order No.	Lb. Per 1/8" Def.	Price	Use Cap Cat. No.
1"	1-3/4"	High Press.	1-1/4"	KPS-1000 H01104	1137	KPC-210
			1-1/2	KPS-1000 H01102	940	
			1-3/4	KPS-1000 H01304	788	
			2	KPS-1000 H02000	689	
			2-1/4	KPS-1000 H02104	616	
			2-1/2	KPS-1000 H02102	548	
			2-3/4	KPS-1000 H02304	505	
			24	KPS-1000 H24000	*	
		2 Very High Press.	1-1/4	KPS-1000 V01104	1550	KPC-230
			1-1/2	KPS-1000 V01102	1200	
			1-3/4	KPS-1000 V01304	971	
			2	KPS-1000 V02000	854	
			2-1/4	KPS-1000 V02104	770	
			2-1/2	KPS-1000 V02102	700	
			2-3/4	KPS-1000 V02304	636	
			3	KPS-1000 V03000	569	
			4	KPS-1000 V04000	423	
			24	KPS-1000 V24000	*	
	2-1/2	Ultra High Press.	1-1/4	KPS-1000 U01104	2593	KPC-270
			1-1/2	KPS-1000 U01102	2136	
			1-3/4	KPS-1000 U01304	1796	
			2	KPS-1000 U02000	1524	
			2-1/4	KPS-1000 U02104	1316	
			2-1/2	KPS-1000 U02102	1212	
			2-3/4	KPS-1000 U02304	1106	
			3	KPS-1000 U03000	996	
			4	KPS-1000 U04000	734	
			24	KPS-1000 U24000	*	
	1-1/4	2-1/2	2	KPS-1104 H02000	1860	KPC-270
			2-1/4	KPS-1104 H02104	1750	
			2-1/2	KPS-1104 H02102	1675	
			2-3/4	KPS-1104 H02340	1530	
			3	KPS-1104 H03000	1380	
			24	KPS-1104 H24000	*	
	1-1/2	2-3/4	2	KPS-1102 H02000	2105	N/A
			2-1/4	KPS-1102 H02104	1980	
			2-1/2	KPS-1102 H02102	1900	
			2-3/4	KPS-1102 H02304	1730	
			3	KPS-1102 H03000	1565	
			24	KPS-1102 H24000	*	

Caps

Cap O.D.	Cap I.D.	Order No.	Price
1"	3/4"	KPC-1000	
1 1/8"	7/8"	KPC-1108	
1 1/4"	1"	KPC-1104	
1 3/8"	1 1/8"	KPC-1308	
1 1/2"	1 1/4"	KPC-1102	
1 5/8"	1 3/8"	KPC-1508	
1 3/4"	1 1/2"	KPC-1304	
2 1/8"	1 3/4"	KPC-2108	
2 3/8"	2"	KPC-2308	
2 1/2"	2 1/4"	KPC-2708	

Specifications



Springs: Grade- K-950A I.D.- Press fit to punch dia. shown in table. **O.D.-** Press fit to cap I.D. **Length -** Furnished 1/16" longer than table dimension to allow for permanent set that may occur during the first strokes.



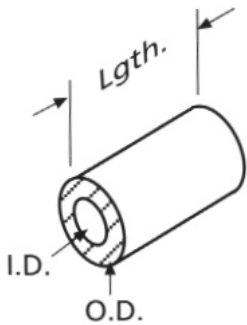
Caps: Grade- K-750A, very tough, hard urethane. Can be drilled, pierced or machined to fit the punch for positive stripping while dampening vibration. Will not mar prefinished stocks. **I.D.-** Press fit to spring. (Use vise or arbor press to assemble caps and springs.)



I.D.	O.D.	Lgth.	Price
3/16"	3/4"	12"	
1/4	5/8	12	
1/4	1-1/8	12	
1/4	1-1/4	12	
1/4	1-1/2	12	
9/32	1	12	
5/16	3/4	12	
5/16	7/8	12	
5/16	1	12	
3/8	3/4	12	
3/8	15/16	12	
3/8	1-1/4	12	
3/8	1-1/2	12	
3/8	2	12	
3/8	2-1/2	12	
7/16	3/4	12	
7/16	7/8	24	
7/16	1-1/4	24	
1/2	1-1/2	24	
1/2	1-3/4	24	

I.D.	O.D.	Lgth.	Price
1/2"	2"	24"	
1/2	2-1/2	24	
1/2	3	24	
9/16	1	24	
9/16	1-1/4	24	
9/16	2	24	
9/16	2-1/2	24	
9/16	3	24	
5/8	1	24	
5/8	1-1/2	24	
5/8	1-3/4	24	
5/8	2	24	
5/8	2-1/2	24	
3/4	1-1/8	24	
3/4	1-1/4	24	
3/4	2	24	
3/4	2-1/2	24	
7/8	1-1/4	24	
7/8	2-1/2	24	
7/8	3	24	
1	1-3/8	24	

I.D.	O.D.	Lgth.	Price
1"	1-1/2"	24"	
1	2-1/4	24	
1	3	24	
1	3-1/4	24	
1	4	24	
1-1/4	2	24	
1-1/4	3	24	
1-1/2	2	24	
1-1/2	2-1/4	24	
1-1/2	2-1/2	24	
1-1/2	3	24	
1-1/2	4	24	
2	2-1/2	24	
2	3	24	
2	3-1/4	24	
2	3-1/2	24	
2	4	24	
2-1/2	4	24	
3	4	24	
3	5	24	
4	5	12	



METRIC: Tube / Spring

Tolerance		
I.D.	7	+/- 0.2
	8.5	
	11	
	14	
	22	
O.D.	15	+/- 0.2
	20	
	25	
	30	
	40	+/- 0.3
	50	
	60	
	80	
	+/- 0.4	

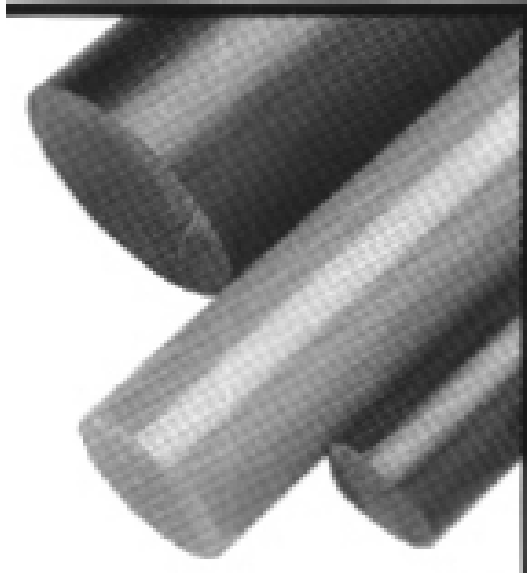
I.D. mm	O.D. mm	Lgth. mm	Price
7	15	25	
7	15	30	
7	15	35	
7	15	40	
7	15	500	
8.5	20	25	
8.5	20	30	
8.5	20	35	
8.5	20	40	
8.5	20	500	
11	25	25	
11	25	30	
11	25	35	
11	25	40	
11	25	45	
11	25	500	
14	30	25	
14	30	30	
14	30	35	
14	30	40	
14	30	45	
14	30	50	

I.D. mm	O.D. mm	Lgth. mm	Price
14	30	60	
14	30	500	
14	40	40	
14	40	50	
14	40	60	
14	40	500	
14	50	50	
14	50	60	
14	50	80	
14	50	500	
14	60	50	
14	60	60	
14	60	80	
14	60	500	
22	80	60	
22	80	80	
22	80	100	
22	80	500	
22	100	80	
22	100	100	
22	100	120	
22	100	500	

Urethane: Solid Rounds

*A

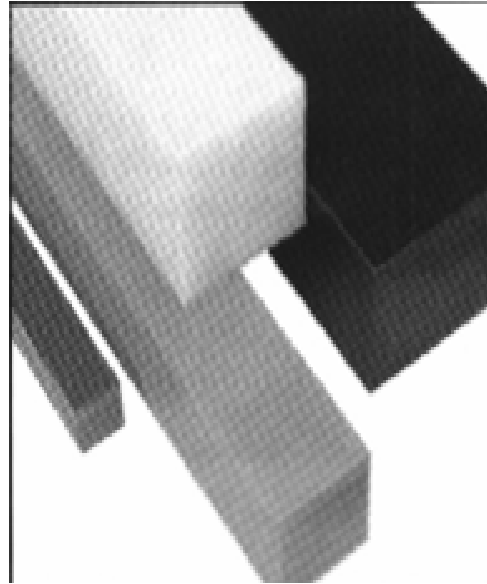
Diameter	Length				
	6"	12"	24"	36"	48"
1/4"					
3/8					
1/2					
5/8					
3/4					
7/8					
1					
1-1/4					
1-1/2					
1-3/4					
2					
2-1/4					
2-1/2					
2-3/4					
3					
3-1/4					
3-1/2					
3-3/4					
4					
4-1/2					
5					
6					
7					
8					



Dia. mm	Tol. +/- mm	Length +5 -0	Price	Length +5 -0	Price
8	0.31	500		1000	\$
10	0.39	500		1000	
15	0.59	500		1000	
20	0.79	500		1000	
25	0.98	500		1000	
30	1.18	500		1000	
40	1.57	500		1000	
50	1.97	500		1000	
60	2.36	500		1000	
70	2.76	500		1000	
80	3.15	500		1000	
100	3.94	500		1000	

Urethane: Squares & Rectangle

Width mm +0 - 0.3	Height mm +0 - 0.3	Length mm +5 - 0	Price
25	25	100	
		415	
		500	
		835	
		1000	
30 *	25	100	
		415	
		500	
		835	
		1000	
50 *	50	100	
		415	
		500	
		835	
		1000	
80 *	30	100	
		415	
		500	
		835	
		1000	
75	50	100	
		415	
		500	
		835	
		1000	
110 *	45	100	
		415	
		500	
		835	
		1000	



Width	Height	Length				
		12"	24"	36"	48"	2"
3/8"	3/8"					
1/2	1/2					
3/4	3/4					
1	1					
1-1/4	1-1/4					
1-1/2	1-1/2					
2 *	2					
2-1/2	2-1/2					
3	3					
4	4					
5	5					
6	6					
3 *	2					

Available with 1" diameter center hole at the same price. To order, specify "with center hole."

Clamping Tape

This double-face tape securely holds Acroform™ and Acro-Hyde™ in place. Eliminates the need for fixtures, clamping devices, bolts, etc.



Description	Part No.	Price
1" x 36 yds	KPT-136	

K-20 Adhesive

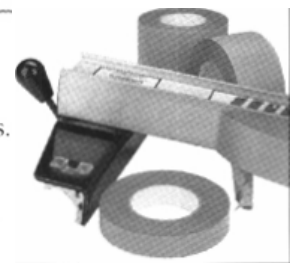
Especially formulated to withstand continuous flexing. Exhibits great strength when used to bond K•Prene® to K•Prene®, metal, or plastic. Two-part kit composed of equal containers of resin and hardener.



Description	Part No.	Price
1/2 Pint Kit (2 – 1/4 Pint Cans)	KPA-202	
1 Pint Kit (2 – 1/2 Pint Cans)	KPA-203	
2 Pint Kit (2 – 1 Pint Cans)	KPA-204	

Slick Strip™ Tape

When applied to machinery beds, fences, rails, etc., this pressure sensitive tape will greatly reduce friction and protect finished stock (wood, metal, etc.) from scratches and dents. To apply, cut to length with scissors, remove blue adhesive protector and apply to clean, dry surface. Work hardens.



Part Number	Width	Length	Price	Part Number	Width	Length	Price
A-SG-0136	1"	36 yards		A-SG-0436	4"	36 yards	
A-SG-0236	2	36 yards		A-SG-0536	5	36 yards	
A-SG-0336	3	36 yards		A-SG-0636	6	36 yards	

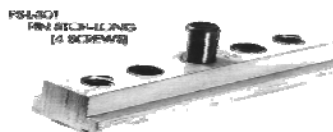
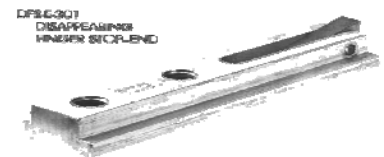
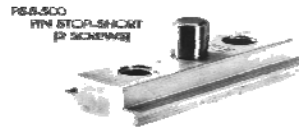
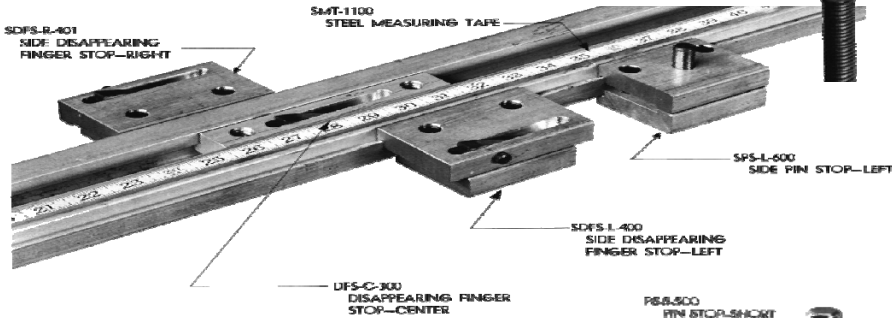
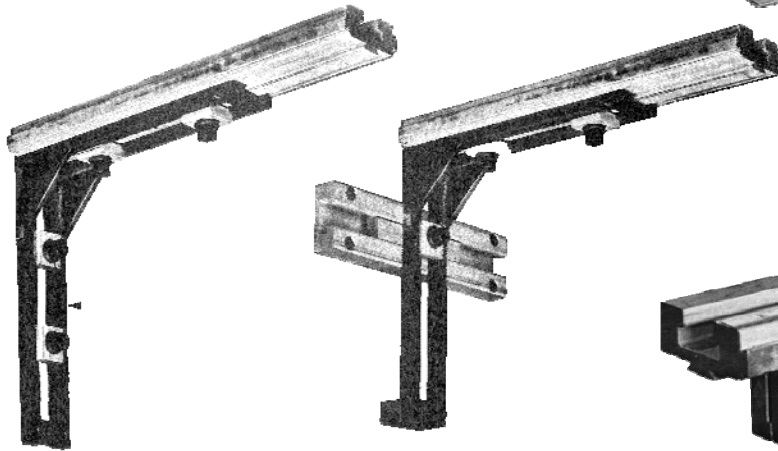
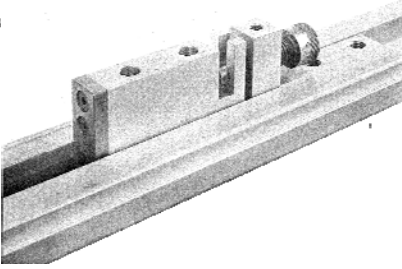
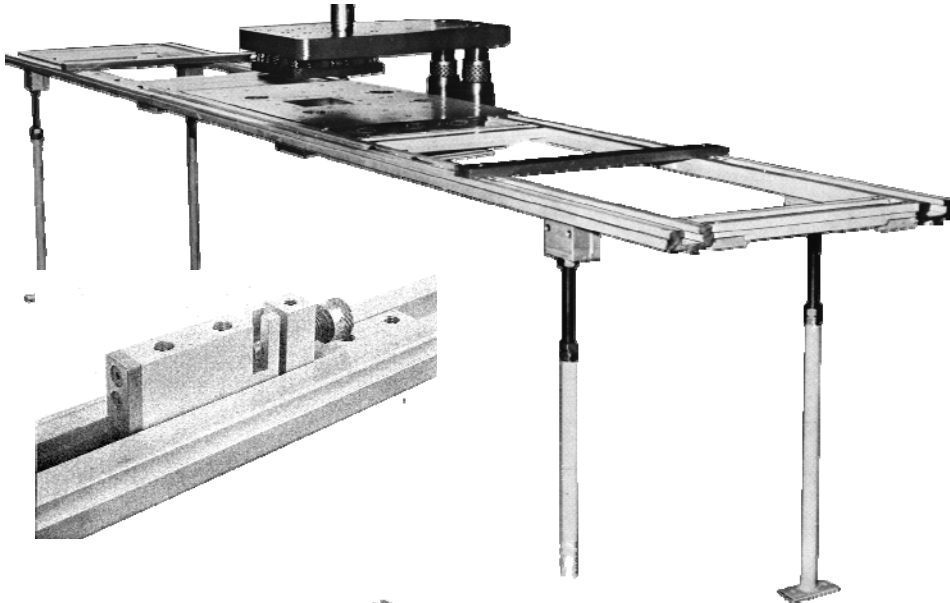


Square and Rectangular Bumpers: Base is 1/8" aluminum plate. Mounting holes are drilled and counterbored for 1/4" socket head cap screws. Stocked in K-400A, K-600A, K-800A, K-900A and K-950A. Custom shapes and sizes are available!



Gage Arms & Tables for Brakes, Shears, Die Sets.

HIGH STRENGTH, LIGHT WEIGHT ALUMINUM EXTRUSIONS



 www.CETOOLING.com
Section 10p

SOURCE CATALOG FOR

**Gage Arms & Tables for
Die Sets Blanking,
Brakes & Shears**

CE TOOLING, INC.
Manufacturer & Distributor of Fab Tools and
Accessories. Allow us to quote your tool needs.

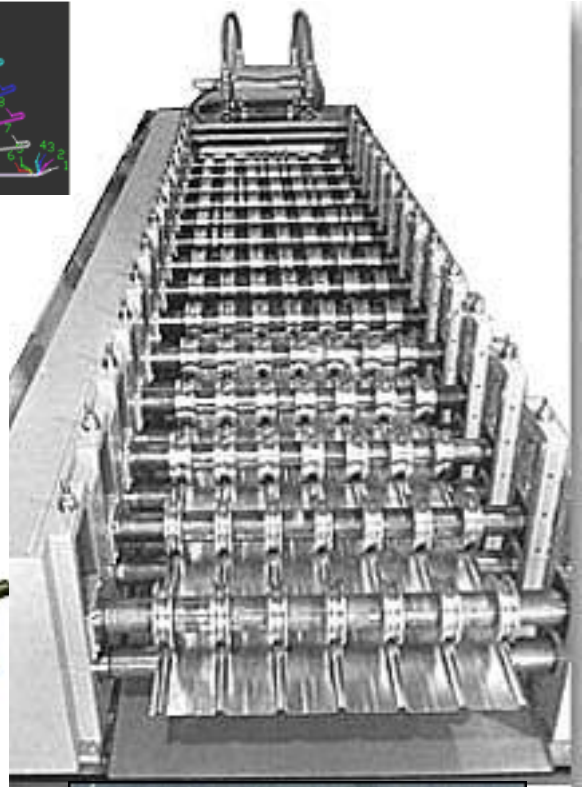
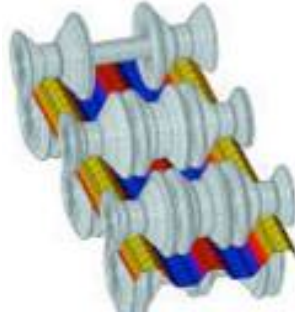
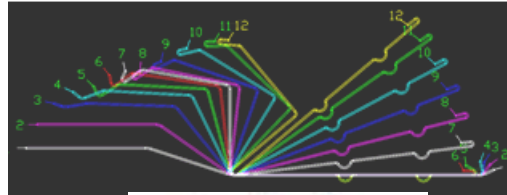
 702 736-2958 Fax 702 736-2058 sales@cetooling.com



Let CE help with all your Roll Forming Lines



Roll Form Tooling



We design and manufacture tools to produce the shape per your specifications. Produced out of 4140 or D2 upon request. 4140 is an oil hardened tool steel that is heat treated to 56 - 58 Rc on the Rockwell Hardness Scale. It is a versatile and long lasting tooling steel. Tolerance are generally $\pm .001$ ".



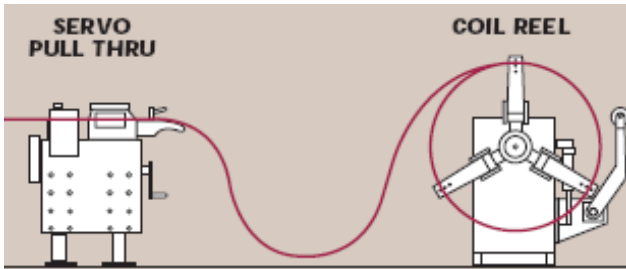
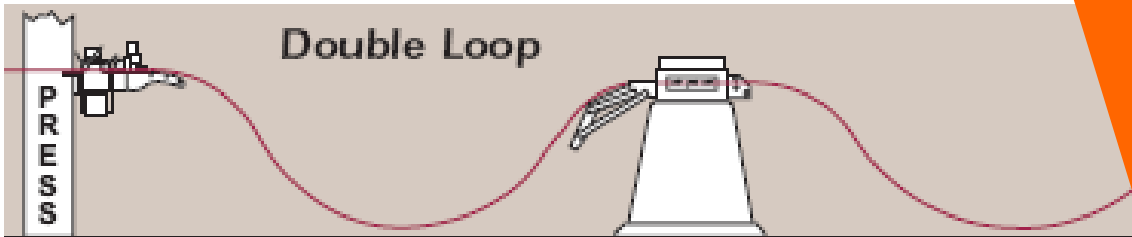
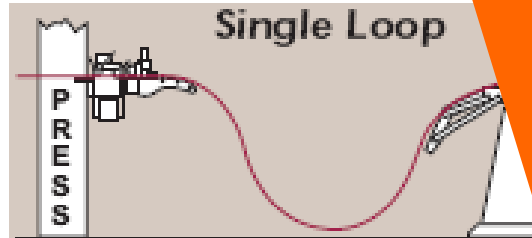
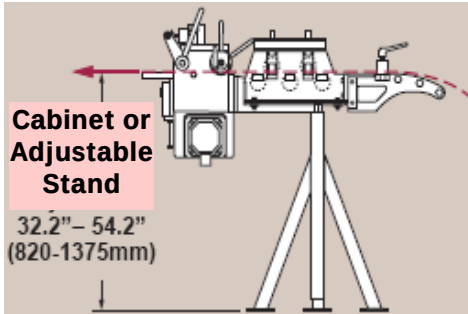
New & Used Equipment



Wire EDM Service



Examples of Press Room Layouts

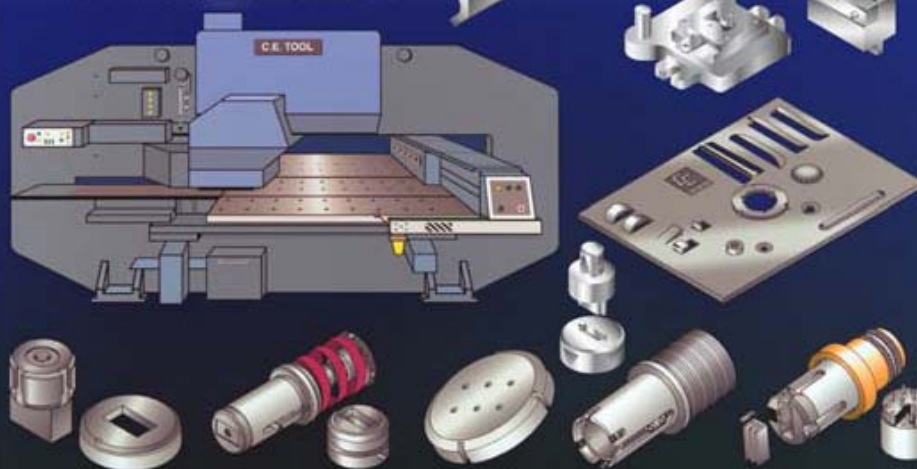


Coil Handling Eq.

Coil Handling Equipment



FABRICATING TOOLS
and Accessories for most
Punching, Bending and
Shearing Equipment



www.cetooling.com

C.E. TOOLING, INC.



C.E. TOOLING, INC.

**FORMING AROUND
THE WORLD**



**MANUFACTURING TURRET PRESS
TOOLING SINCE 1966**



LOCAL SALES REPRESENTATIVE
DISTRIBUTORS