

# C.E. TOOLING



Section

# 4

*Tooling Booklet*



**Murata WIEDEMANN • BEHRENS  
112 • 114 • 212 • Nova • Marathon**

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C.E. Tooling started out in 1966 in Chicago as a tool & die shop. In the late 1970's, we directed our energies exclusively to the manufacturing of tooling for turret and duplicator presses. Presently, C.E. is the third largest independent turret press tooling supplier in the U.S. and is based in North Las Vegas, Nevada. Through our use of the highest steel grades combined with manufacturing processes and procedures developed from over 30 years of producing punches and dies, our Quality and Value is unbeatable! We will continue to strive for excellence to continually earn the business of our current and future customers.

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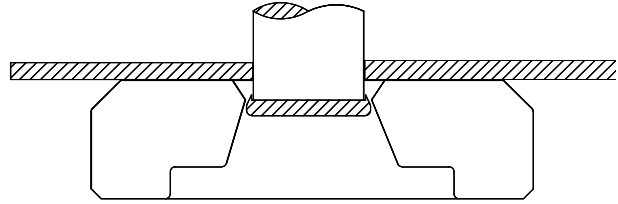
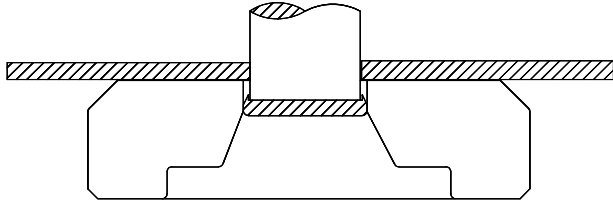


# SLUG TRAP™ DIES

**ELIMINATE SLUG PULLING WITH A SECOND TAPER ON THE DIE WHICH TRAPS THE SLUG PREVENTING IT FROM PULLING BACK UP.**

**Note: Taper shown in diagram is exaggerated to express feature.**

Add "st" to catalog code after D-die part of code. Ex. Die= §§\_D-st-\* Set = §§-PD-st-\* Replace: §§ with Tool Style Code  
 Replace: \_ with the tool Station Replace: \* = s for shaped, or r for round

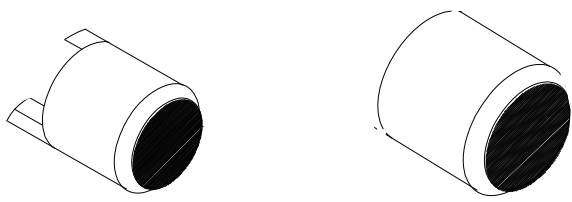


**Improve tooling life of both punches and dies** When a punch strikes a slug that has been pulled on to the top of sheet, great wear can be caused to the cutting edges of both the punch and die. The biggest cause of wear is when the punch comes down partially on a slug. It can side load the punch pushing the punch tip into the die wall. The next cause of wear is the fact that the die clearance is set for clearance for only 1 material thickness.

**Sheet Lubricant** CLM-50 oil base

Reduce galling, increase tool edge life and improve stripping when used with standard tools, forming and cluster (gang) punching. To use, simply spray or wipe this premixed lubricant on every 3-6 sheets placed in the press. CLM-50 Formula may be mixed with kerosene to conserve or for easier sheet cleaning when plating is to be performed.

**Go to page 13 for Urethane Strippers**



**Ejector holes are placed in punch tip sizes >.27"/6.86mm**

**Slug Ejector**

**Bag of 50 .078 Code\*AEJ-R2**

**Bag of .250 " Code \*AEJ-R7**

**Die location pin**

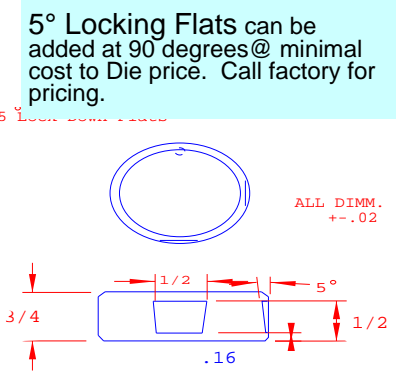
Dowel pin holes are reamed .600"/15mm deep X 1/2" long. Pins are installed by CE. 1/2" long pins can be tapped fully into die to allow easy sharpening. Dowel can be changed by customer to 3/4" long if dowel is wished to bottom out in hole.

**EXTRA PINS or KEYS**

45° Increments		Other Than 45° Inc.	
STA.	PUNCH	PUNCH	DIE
A-C			
D			
E-F			
G-H			
J-L			

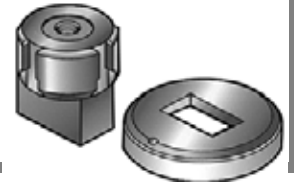
**Shapes Located on Angles Othan 0-90°**

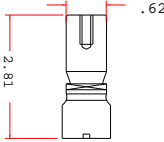

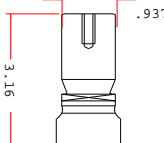
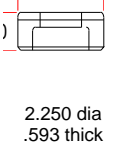
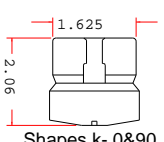

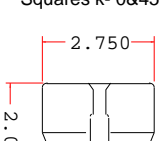
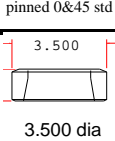
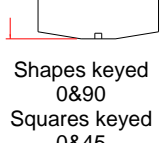
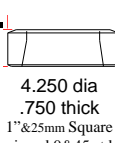
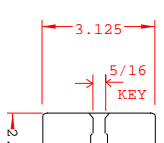

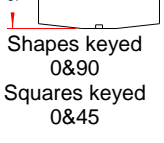

15° Increments		Other Than 15°	
ST.	PUNCH	PUNCH	DIE
A-C			
D			
E-F			
G-H			
J-L			



# 112W Style Tools

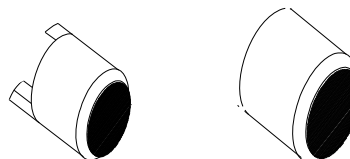
For: BEHRENS, WIEDEMANN, and DI-ACRO Machines with 112 Turrets  
 BELOW PRICES ARE FOR WIDTHS OF .093 (2.36MM) AND ABOVE



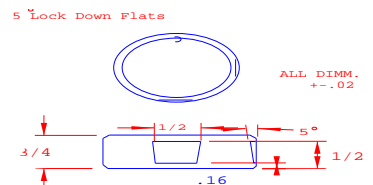
Sta. &	Shape	PUNCH 5/16-18 thread	Part#	Type	Price	Die	Part#	Type	Price
<b>B</b> 0.093-1.000	ROUND		<b>2WBP-r</b>	Standard			<b>2WBD-r</b> 2WBDst-r	Standard Slug Trap™	
	SHAPE		<b>2WBP-s</b>	Standard			<b>2WBD-s</b> 2WBD-st-s	Standard Slug Trap™	
<b>C</b> 1.001-1.500	ROUND		<b>2WCP-r</b>	Standard			<b>2WCD-r</b> 2WCDst-r	Standard Slug Trap™	
	SHAPE		<b>2WCP-s</b>	Standard			<b>2WCD-s</b> 2WCD-st-s	Standard Slug Trap™	
<b>D</b> 1.501-2.000 Standard & Auto Index	ROUND		<b>2WDP-r</b> 2WDPs-r	Standard M2-HSS			<b>2WDD-r</b> 2WDDst-r	Standard Slug Trap™	
	SHAPE		Shapes k- 0&90 Squares k- 0&45	<b>2WDP-s</b> 2WDPs-s	Standard M2- HSS			<b>2WDD-s</b> 2WDD-st-s	Standard Slug Trap™
<b>E</b> 2.001-2.500	ROUND		<b>2WEP-r</b>	Standard M2-HSS			<b>2WED-r</b> 2WEDst-r	Standard Slug Trap™	
	SHAPE		<b>2WEP-s</b>	Standard			<b>2WED-s</b> 2WED-st-s	Standard Slug Trap™	
<b>F</b> 2.501-3.125 Standard & Auto Index	ROUND		<b>2WFP-r</b>	Standard			<b>2WFD-r</b> 2WFDst-r	Standard Slug Trap™	
	SHAPE		Shapes keyed 0&90 Squares keyed 0&45	<b>2WFP-s</b>	Standard			<b>2WFD-s</b> 2WFD-st-s	Standard Slug Trap™
<b>G</b> 3.126-3.500	ROUND		<b>2WGP-r</b>	Standard			<b>2WGD-r</b> 2WGDst-r	Standard Slug Trap™	
	SHAPE		<b>2WGP-s</b>	Standard			<b>2WGD-s</b> 2WGD-st-s	Standard Slug Trap™	
<b>H</b> 3.501-4.125 Behrens Only	ROUND		<b>2WHP-r</b>	Standard			<b>2WHD-r</b> 2WHDst-r	Standard Slug Trap™	
	SHAPE		Shapes keyed 0&90 Squares keyed 0&45	<b>2WHP-s</b>	Standard			<b>2WHD-s</b> 2WHD-st-s	Standard Slug Trap™

For material over 10 gage, **Solid Dies** for **Sta. B&C** are recommended for Rectangle & Square.  
 + 50% of Die cost

Go to page 13 for **Urethane Strippers**






















**5° Locking Flats**  
 5° Locking Flats can be added at 90 degrees @ minimal cost to Die price. Call factory for pricing.



# 114W STYLE TOOLING

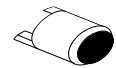
FOR MURATA WIEDEMANN AND BEHRENS STYLE PUNCHING MACHINES  
BELOW PRICES ARE FOR WIDTHS OF .093 (2.36MM) AND ABOVE

Sta. & Range	Shape	A2 Tool Steel Option: M2 HSS 1/2-13 threads	Part#	Description Of Punch Material	Price	Die A2 Steel	Part#	Description Of Die Land	Price
<b>A</b> .093-	ROUND	 .5625	4WAP-r	Standard		 1.5625 dia	4WAD-r 4WADst-r	Standard Slug Trap™	
<b>B</b> .093 - 1.000	ROUND	 1.0625 OD	4WBP-r 4WBPPhs-r	Standard Semi-HSS		 1.5625 dia 1.125 thick	4WBD-r 4WBDst-r	Standard Slug Trap™	
	SHAPE	Shapes k 0 & 90	4WBP-s 4WBP-hs-s	Standard Semi-HSS			4WBD-s 4WBDst-s	Standard Slug Trap™	
<b>C</b> 1.001-1.500	ROUND	 1.3125 OD	4WCP-r 4WCPPhs-r	Standard Semi-HSS		 2.250 dia. 1.125 thick	4WCD-r 4WCDst-r	Standard Slug Trap™	
	SHAPE	Shapes k 0 &	4WCP-s 4WCP-hs-s	Standard Semi-HSS			4WCD-s 4WCDst-s	Standard Slug Trap™	
<b>D</b> 1.501-2.000 Auto Index may be style 112 See Page 5	ROUND	 1.750 OD	4WDP-r 4WDP-hs-r	Standard Semi-HSS		 2.750 dia 1.125 thick 1" & 25mm Square pinned 0 & 45 std	4WDD-r 4WDDst-r	Standard Slug Trap™	
	SHAPE	Shapes k- 0&90 Squares k- 0&45	4WDP-s 4WDP-hs-s	Standard Semi-HSS			4WDD-s 4WDDst-s	Standard Slug Trap™	
<b>E</b> 2.001-2.500	ROUND	 2.500 OD	4WEP-r 4WEP-hs-r	Standard Semi-HSS		 3.500 dia. 1.125 thick	4WED-r 4WEDst-r	Standard Slug Trap™	
	SHAPE		4WEP-s 4WEP-hs-s	Standard Semi-HSS			4WED-s 4WEDst-s	Standard Slug Trap™	
<b>F</b> 2.501-3.000 See Page 4 for Auto Index	ROUND	Shapes keyed @ 0 & 90	4WFP-r 4WFP-hs-r	Standard Semi-HSS		 4.000 dia	4WFD-r 4WFDst-r	Standard Slug Trap™	
	SHAPE	Squares keyed 0&45	4WFP-s 4WFP-hs-s	Standard Semi-HSS			4WFD-s 4WFDst-s	Standard Slug Trap™	
<b>G</b> 3.001-3.500	ROUND	 4.125 OD	4WGP-r	Standard		 4.500 dia 1.125 thick	4WGD-r 4WGDst-r	Standard Slug Trap™	
	SHAPE		4WGP-s	Standard			4WGD-s 4WGDst-s	Standard Slug Trap™	
<b>H</b> 3.501-4.125	ROUND	Shapes keyed @ 0 & 90	4WHP-r	Standard		 5.250 dia 1.125 thick	4WHD-r 4WHDst-r	Standard Slug Trap™	
	SHAPE	Squares keyed @ 0 & 45	4WHP-s	Standard			4WHD-s 4WHDst-s	Standard Slug Trap™	
<b>J</b> 4.126-4.750	ROUND	 5.375 OD	4WJP-r	Standard		 6.000 dia 1.125 thick	4WJD-r 4WJDst-r	Standard Semi-HSS	
	SHAPE	1/2 KEY	4WJP-s	Standard			4WJD-s 4WJDst-s	Standard Semi-HSS	
<b>K</b> 4.751-5.500	ROUND	 5.531	4WKP-r	Standard		 6.500 dia 1.125 thick	4WKD-r 4WKDst-r	Standard Semi-HSS	
	SHAPE		4WKP-s	Standard			4WKD-s 4WKDst-s	Standard Semi-HSS	
<b>L</b> 5.001-6.000	ROUND	Shapes keyed @ 0 & 90	4WLP-r	Standard		 7.500 dia 1.125 thick	4WLD-r 4WLDst-r	Standard Semi-HSS	
	SHAPE	Squares keyed @ 0 & 45	4WLP-s	Standard			4WLD-s 4WLDst-s	Standard Semi-HSS	

Charges for extra keys, or shapes on angles Page \_

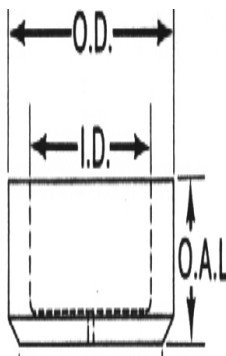


# URETHANE STRIPPERS



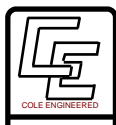
Murata Wiedemann: W20-W30-W45 Series, Centrum-Quantum-Magnum-Motorum-Vectrum Std Shore Hardness Sta.A-F=90, G-L=95

STYLE 112 (ID/OD/HEIGHT) Part# \$Price		STYLE 114 (ID/OD/HEIGHT) Part# \$Price	
"B" STA. .99 X 2" X 1.9	*AUS2WB	"A" Sta. .54X1¼X1.7	*AU4WA1
"C" STA. 1.49X2½" X 2.15	*AUS2WC	"A"Sta. 1"X1.8X1¾Magnum	*AU4WA2
"D" STA. 1.98"X 3"X1½	*AUS2WD	"X-B".84X1.33X1.9 .4X.08slot	*AU4WX
"D" Ribbed for slotting tool	*AUS2WDst	"B" 1.06 X 1.8 X 1.73/2.42	*AU4WB
"D" 1"=25mmSQ 95shore	*AUS2WDsq	"C" 1.75 X 2½ X 2.15	*AU4WC
<b>Auto Index are always 95shore hardness Can be used for regular stations</b>		"D" 2" X 2¾ X 2.12	*AU4WD
"D" Auto-Index 1.94/2.8/1.6	*AUS2Wai	"D" Ribbed for Slotting Tool	*A4WDst
"D" Auto-Index 1" /2mm SQ	*AU2WDsq	"D" Ribbed for 1"/25m SQ	*AU4WDsq
"E" C=C2.8 3.08X4.2X1.5	*AUS2WE	"E/F" STA. 3" X 3¾ X 2.12	*AU4WEF
"E" Ribbed for slotting tool	*AUS2WEst	"E/F"Ribbed for slotting tool	*AU4WEFst
"F" C=3.3 3.08 X 4.2 X1.5	*AUS2WF	"F" Ribbed for 2" / 50m sq	*AU4Wfsq
"F" Ribbed for slotting tool	*AU2WFst	"G/H/J" 4.37 X 5" X 2.15	*AU4WGHJ
"F" Ribbed for 2"/50m SQ	*AU2WFsq	"G/H/J"Ribbed for slotting	*AU4WGHJst
"G" 3.48 X 4.75 X 1.5	*AU2WG	"G/H/J" Ribbed for 2"/50m	*AU4W GHJsq
"G" Slotting Tool	*AUS2WGst	"K/L" STA. MAGNUM	*AUS34
		"K/L"Standard & slotting	*AU4WK/L



Di-Acro: QCT-20 & CAP 1000 B&C 112/212	
"B" 1.12X2.01X1.9 n/ear	*AUS51
"C" 1.6X2.25X1.9 n/ear	*AUS52
"D" E-5 2.13X2.67X1.93	*AUS53
"E" E-6 3.22X4"X1.93	*AUS54
"F" E7 3.5 X4"X1.93	*AUS55
<b>EAR TYPE: WIEDEMANN RA41P/S15/A15</b>	
<b>DI-ACRO: 15TON/20NC/VT36/VT19/3620 *212 only</b>	
<b>BEHRENS: 22TON/PANTOGRAPH/NC1518 NC2532/NC2524/25 Ton</b>	
"B" E-1 ½id X 1¼ X 1"	*AUS41
"B" E-1 ¾id X 1¼ X 1"	*AUS42
"C" E-4 1id X1½X1.18	*AUS43

WIEDEMANN: NC25/S25/RA25/RA425/25TON *212 only	
"B" Sta. E-2 .5"/1.5/1.18	*AUS56
"C" Sta. E-4 1"/1.5/1.18	*AUS57
WIEDEMANN: OLD STYLE W-30 & W-45	
"B" Sta. E-3 1"X2"X1.18	*AUS58
Di-Acro or Wiedemann Sta.D-F for 212 tool ear style	
* "D" STA. E-5 ___/___/1.28	*AUS44
* "E" STA. E-6 2.83/3.15/1.28	*AUS45
* "F" STA. E-7 2.83/3.15/1.28	*AUS46

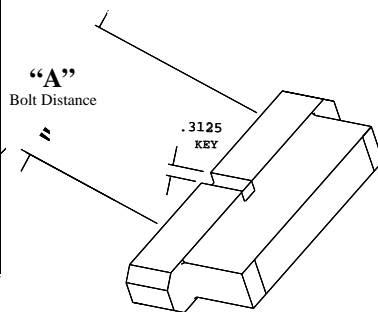
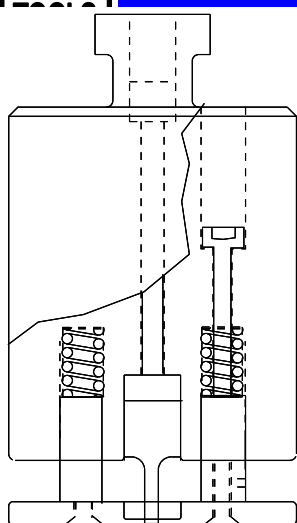


## Mate® Style GUIDED SHEARING PUNCH

Mate® is a registered trade mark of the Mate Punch & Die Co.. Although C.E. manufactures tools to be fully interchangeable with Mate Punch & Die products, there is no affiliation between Mate Punch&Die and C.E. Tooling

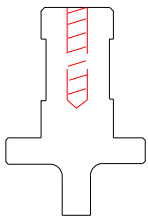
### Compatible Component

Size Range Width .125/3mm - .500/9.5mm Length dependent to holder Station, ref. below chart



### REPLACEMENT INSERT BLADE

Holder Station	Maximum Length	Insert Maximum Length	"A" Dimension Bolt Distance Ref. above diagram	Part# Rectangle or Obround	INSERT PRICE
D	1.500"(38,1) max	1.500" (38,1mm)		*AMA-D-IB-s	
E	2.000"(50,8) max	2.500" (63,5mm)	2.3125	*AMA-E/F-IB-s	
F	3.000"(63,5) max				
G	3.000"(76,2) max	4.2500" (120,65mm)	2.625	*AMAGHJ-IB-s	
H	3.625"(92,1) max				
J	4.250"(108,) max				



# Marathon<sup>®</sup> Style Tooling for Murata Wiedemann

Marathon is a registered trade mark of Mate Precision.

Due to patents, CE is limited to what we can supply for use with Marathon<sup>®</sup> style holders.

STA	Shape	PUNCH Mfg. with M2 Steel	Part#	Punch Price	Slug Trap <sup>™</sup> DIE (A2 Steel)	114 DIE Part#	Die Price	112 DIE Part#	Die Price	Stripper	Price
<b>B</b> .093-1.0	Round Shape		MABP-r			4WBDstr		2WBDstr		MABS-r	
			MABP-s		4WBDsts		2WBDst-		MABS-s		
<b>C</b> 1.001-1.5	Round Shape		MACP-r			4WCDstr		2WCDstr		MACS-r	
			MACP-s		4WCDsts		2WCDst-		MACS-s		
<b>D</b> 1.501-2	Round Shape		MADP-r			4WDDstr		2WDDstr		MADS-r	
			MADP-s		4WDDsts		2WDDst-		MADS-s		
<b>E</b> 2.001-2.5	Round Shape	MAEP-r			4WEDstr		2WEDstr		MAES-r		
		MAEP-s		4WEDsts		2WEDst-		MAES-s			
<b>F</b> 2.501-3	Round Shape	MAFP-r			4WFDstr		2WFDstr		MAFS-r		
		MAFP-s		4WFDsts		2WFDst-		MAFS-s			
<b>G-L</b>	Call for pricing										

## VULCAN<sup>®</sup> Style Tooling for Murata

Vulcan are registered trademarks of Murata Wiedemann, Inc.

Vulcan is a tooling style introduced by Murata Wiedemann, as an alternative to the Marathon<sup>™</sup> style holder system. Vulcan is fully guided, with choice of urethane or metal stripper plates. Were they claim superiority is that punches are keyed, unlike Marathon which realizes on stripper to align punch.

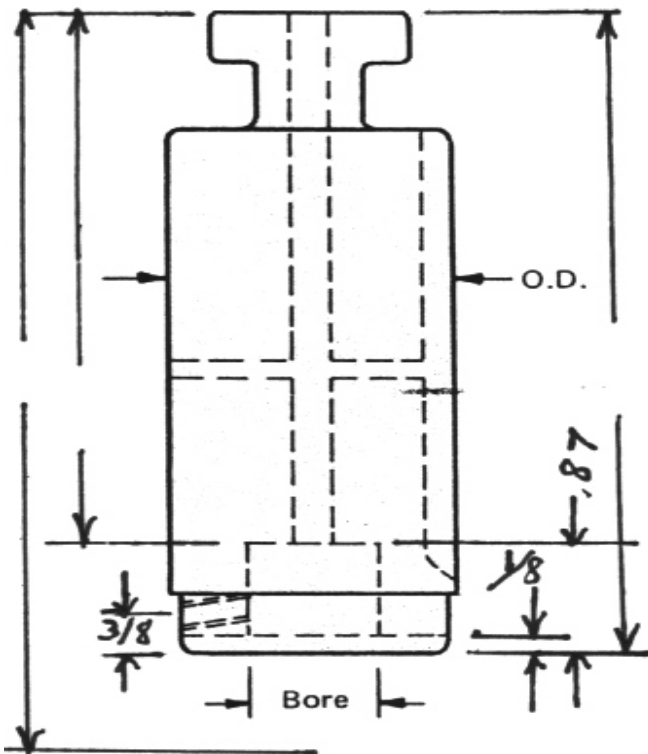
**Slug Trap<sup>™</sup> Dies, used with**



		<b>X/A .093-.5/-12,7</b>		<b>B .093-1.000/25,0</b>		<b>C 1.001-1.50/38</b>		<b>D 1.501-2.00/51</b>	
Description	Shape	Part#	Price	Part#	Price	Part#	Price	Part#	Price
Punch HS Steel	Round Shape	VUAP-r		VUBP-r VUBP-s		VUCP-r VUCP-s			
Die Slug Trap <sup>™</sup>	Round Shape	4WADst-r		4WBDst-r 4WBDst-s		4WCDst-r 4WCDst-s		4WDDst-r 4WDDst-s	
Stripper Metal	Round Shape	VUAS-r		VUBS-r VUBS-s		VUCS-r VUCS-s		VUDS-r VUDS-s	
Stripper Urethane									

		<b>E 2.001-2.500</b>		<b>F 2.501-3.00</b>		<b>G 3.501-4.125</b>		<b>H 4.126-4.750</b>	
Description	Shape	Part#	Price	Part#	Price	Part#	Price	Part#	Price
Punch HSS Steel	Round Shape	VUEP-r VUEP-s		VUFP-r VUFP-s		VUGP-r VUGP-s		VUHP-r VUHP-s	
Die Steel	Round Shape	4WEDst-r 4WEDst-s		4WFDst-r 4WFDst-s		4WGDst-r 4WGDst-s		4WHDst-r 4WHDst-s	
Stripper Metal	Round Shape	VUES-r VUES-s		VUFS-r VUFS-s		VUGS-r VUGS-s		VUHS-r VUHS-s	

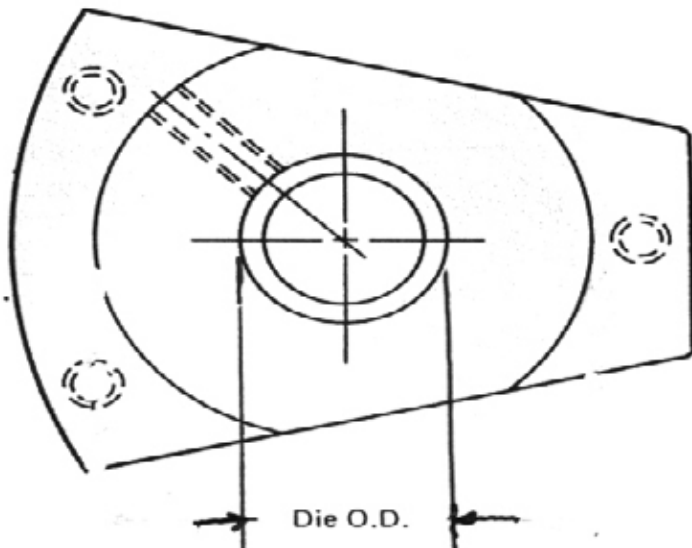
# Old Style WIEDEMANN 117W (old style 112) for models R2-R4H, R4P & R41P



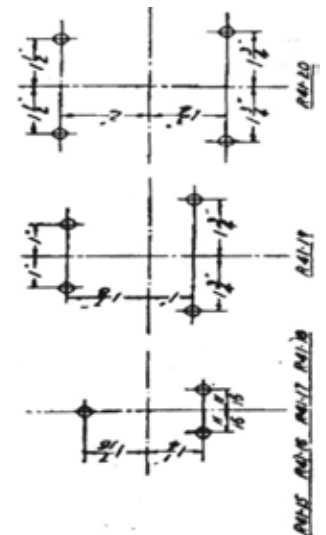
PUNCH HOLDERS			
Part#	Sta.	O.D.	BORE
*APH7X11A0	A - Cx	1. (1-9/32)	.625 (5/8")
*APH7X12A0	Cy	1.562 (1-9/16)	.8125 (13/16")
*APH7X13A0	D	1.281 (1-9/32)	1.500 (1-1/2")
*APH7X14A0	E	1.375 (1-3/8)	2.000 (2")

You can Combine Stations for quantity price.

## DIE HOLDER

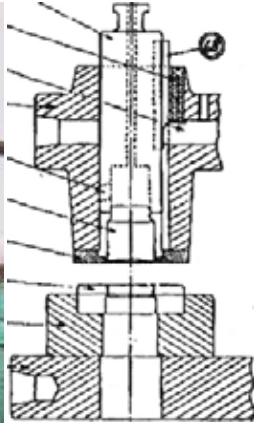


Die Holder code	
WDHA-117A1	
WDHA-117A2	
WDHA-117A3	
WDHA-117A4	
WDHA-117B1	
WDHA-117B2	
WDHA-117CX1	
WDHA-117CX2	
WDHA-117C	
WDHA-117D	
WDHA-117E	





# Wiedemann 117W (old style 112) for models R2-R4H, R4P & R41P



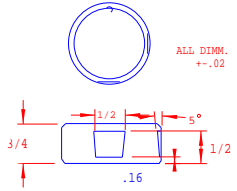
Shapes Located on Angles Other Than 0-90°				
15 Increments			Other Than 15 Inc.	
ST.	Punch	Die	Punch	Die
A-C				
D&E				

EXTRA PINS OR KEYS				
45° Increments			Other than 45° Inc.	
STA.	Punch	Die	Punch	Die
A-C			N/A	
D-E	N/A		N/A	

Add 25% to set price for  
**Clearance** of .003  
(.08mm) & <

Add 50% to die price  
for **Solid Dies.**  
8 Lock Down Flats



**5° Locking Flats**  
Shapes 2p1 Rounds 1p1

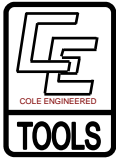
**CE TOOLING, INC.** This is a non standard product line. Delivery 3-6 Work Days

Check you're the I.D. size of your small station die holders to determine which die O.D. to order.  
Sizes which fit with in a .625 diameter circumference can be either **7WAD- = .625 O.D.** , **2WAD- = 1.062 O.D.**, or on some occasions we found customers with **2WBD- = 1.562 O.D.**

Punch Insert-Quills & Sleeves have been discontinued the offering of Punch inserts & Sleeves for sizes <.344 If you must have these please ask, as we may still have some inventory.

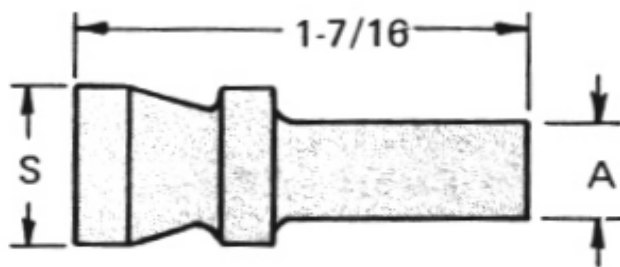
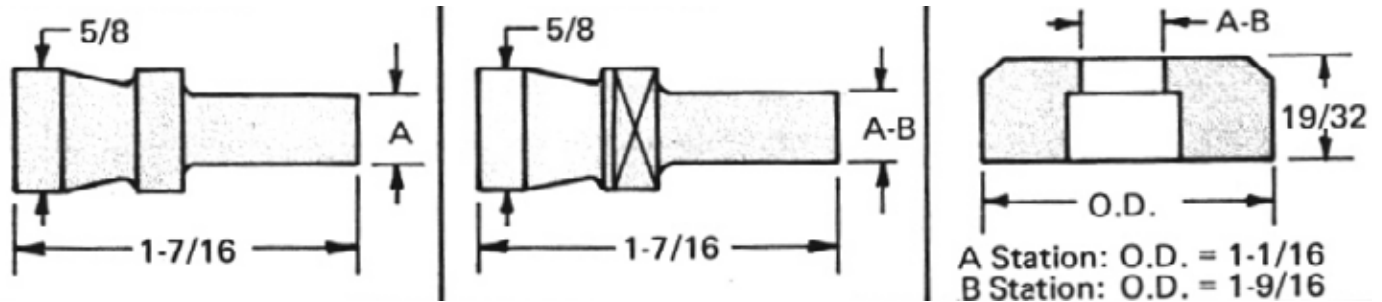
Sta. & Range	Shape	Punch Mfg. with A2 Tool Steel 5/16-18 threads	C.E. Cat. Code	Punch Price	Die	C.E. Cat. Code	Die Price
<b>A</b> .032-.625	ROUND	.625" Shank	7WA5Pr		7WADr .625 	7WADr 2WADr	
	SHAPE	1 7/16 long, not including center point	7WA5Ps		2WADr 1.062 	7WADs 2WADs	
<b>B</b> .626-1.000	ROUND	.625" Shank	7WBP-r		1.562 	7WBD-r	
	SHAPE	x.937 .19-.43/5° 7/16 long W/ center	7WBP-s			7WBD-s	
<b>Cx</b> 1.001-1.250	ROUND	.625" Shank	7WXP-r		1.687 	7WXD-r	
	SHAPE	x.937 .19-.43/5° 7/16 long W/ center	7WXP-s		5°flat	7WXD-s	
<b>Cy</b> 1.001-1.500	ROUND	.8125" Shank	7WYP-r		2.250 	7WCD-r	
	SHAPE	X.937 .19-.43/5° 7/16 long W/ center	7WXP-s		5°flat	7WCD-s	
<b>C-spec</b> 1.001-1.500	ROUND	.937" Shank	7WCP-r		2.250 	7WCD-r	
	SHAPE	x.94 .19-.43/5° 7/16 long W/ Center	7WCP-s			7WCD-s	
<b>D</b> 1.501-2.000	ROUND	1.500" Shank	7WDP-r		2.750 	7WDD-r	
	SHAPE	x5/8 2-.344C.BX.7, "BP	7WDP-s		5°flat	7WDD-s	
<b>QQQ</b> 2.001-2.500	ROUND	2.000" Shank	7WEP-r		3.000 	7WED-r	
	SHAPE	x5/8 2-.344C.BX.7, "BP	7WEP-s		5°flat	7WED-s	
<b>F</b> 2.501-3"	Round	1 7/16 length Removable Center	7WFP-r		4.000 	7WFD-r	

B,C,X & Z360°X15° angle lock is turned into shank,.2from back, continuing for 5/16 Round



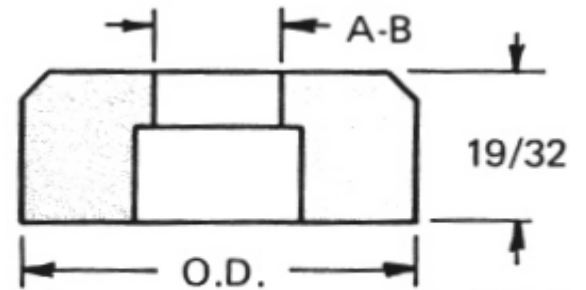
# 117 (old 112) Style Tools

FOR: WIEDEMANN Models R2-R4H & R4P  
 BELOW PRICES ARE FOR WIDTHS OF .093 (2.36MM) AND ABOVE



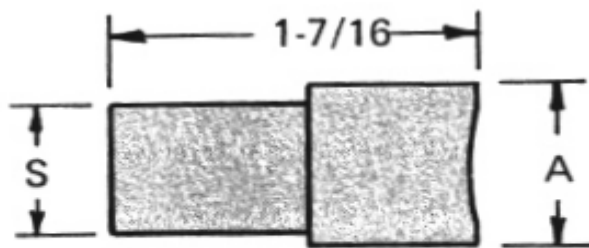
Cx Station: S = 5/8  
 Cy Station: S = 13/16

We have also found C Station S=15/16

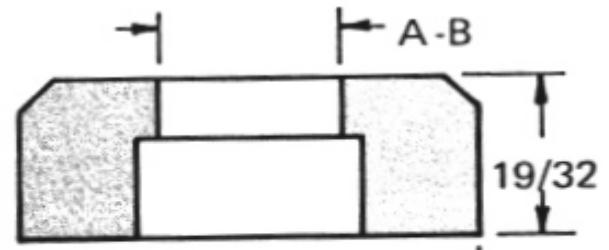


Cx Station: O.D. = 1-11/16  
 Cy Station: O.D. = 2-1/4

C Station: O.D. = 2-1/4



D Station: S = 1-1/2  
 E Station: S = 2"



D Station: O.D. = 2-3/4  
 E Station: O.D. = 3"

Sta. D & E attached with (2) SHCS  
 From Center Sta. D .354 X&Y Form Center Sta. E .442 X&Y

Sta. D C. Bore .5 X .7 deep .344 thru Sta. E C. Bore .625 X .7 deep .406 thru

May have removable or fixed Center Point

Fixed Center = .203Ø pin, Below Head = .75 (+.06, -.02) length Head = .06" total length = .81 (+.06, -.02)  
 Drill .255Ø .75 deep, bottom tap 5/16-18 Set screw installed to secure Fixed Center

# 212B Di-Acro 906 Style Tools

FOR: BEHRENS, WIEDEMANN, AND DI-ACRO MACHINES WITH 212 TURRETS  
 BELOW PRICES ARE FOR WIDTHS OF .093 (2.36MM) AND ABOVE

*These tools are made to INCH dimensions. They will not fit in punch or die holders designed for METRIC dimensions.*

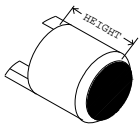
Sta. & Range	Shape	Mfg. with A2 Tool Steel 5/16-18 threads	Part#	Punch Price	Die A2 Steel	Part#	Die Price
<b>B</b> .093-1.000	ROUND		2BBP-r		1.562	2BBD-r	
	SHAPE		2BBP-s		.600	2BBD-s	
<b>C</b> 1.001-1.500	ROUND		2BCP-r		2.250	2BCD-r	
	SHAPE		2BCP-s		.600	2BCD-s	
<b>D</b> 1.501-2.000	ROUND		2BDP-r		2.750	2BDD-r	
	SHAPE		2BDP-s		.750	2BDD-s	
<b>E</b> 2.001-2.500	ROUND		2BEP-r		3.500	2BED-r	
	SHAPE		2BEP-s		.750	2BED-s	
<b>F*</b> 2.501-3.125	ROUND		2BFP-r		4.25	2BFD-r	
	SHAPE		2BFP-s		.750	2BFD-s	
<b>G</b> 3.126-3.500	ROUND		2BGP-r		4.75	2BGD-r	
	SHAPE		2BGP-s		.750	2BGD-s	
<b>H</b> 3.501-4.125	ROUND		2BHP-r		5.125	2BHD-r	
	SHAPE		2BHP-s		.750	2BHD-s	

**\*112- F sta. Used for Auto Index Station on most Behrens machines**

For material over 10 gauge, solid dies for Sta. B & C are recommended for Rectangle & Square Shapes.  
 Add 50% to die cost.

**Ejector holes are placed in punch tip sizes larger than .270"/6.86mm**

**Bag of 50 Each Slug Ejector .078 Code \*AEJ-R2 .250" Code \*AEJ-R7**



Go to page 13 for Model  
 QCT-20 & Cap1000

## STYLE 212 (906 Di-Acro) URETHANE STRIPPERS

Sta.	Description	ID/OD/HEIGHT	CODE	PRICE
"B" STA. (E1)		.5/ 1.25/ 1"	*AUS41	
"B" STA. (E1)		.75/ 1.25/ 1"	*AUS42	
"C" STA. (E4)		1"/ 1.5/ 1.18"	*AUS43	
"D" STA. (E5)		1.75/ 2.08/ 1.25"	*AUS44	
"E" STA. (E6)		2.85/ 3.18/ 1.25"	*AUS45	
"F" STA. (E7)		2.85/3.18/1.25"	*AUS46	

### Shape @ Angles other than 0-90°

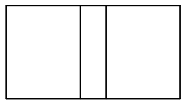
15 Increments					Other than 15 Inc	
ST.	PUNCH	DIE	PUNCH	DIE		
A-C						
D						
E-F						
G-H						
EXTRA PINS OR KEYS						
45° Increments			Other than 45° Inc			
STA.	PUNCH	DIE	PUNCH	DIE		
A-C						
D-H						

# OPTIONAL PUNCH SHEARS

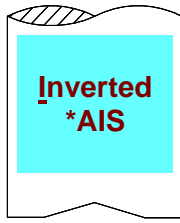
SHEARS Should be Considered for All DIAGONAL DIMENSIONS Over 2"/50.8mm  
And a Minimum Width of .375(9.53MM)



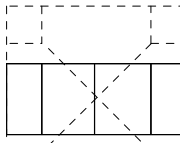
**Roof Top**  
\*ARTS



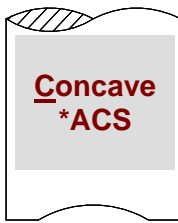
Best all purpose shear for reducing tonnage requirement Nibbling must be performed at 75% of punch size to avoid side loading.



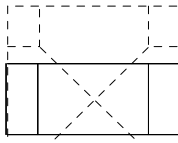
**Inverted**  
\*AIS



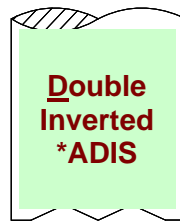
An all purpose shear. Ideal for nibbling.



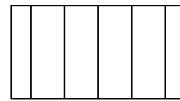
**Concave**  
\*ACS



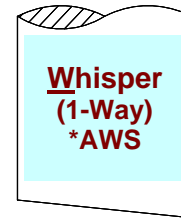
An all purpose shear. Ideal for nibbling. Used over Inverted Shear when punching heavy plate.



**Double Inverted**  
\*ADIS



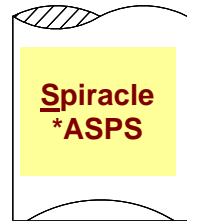
Best Shear for slotting tools, 3" or longer in length.



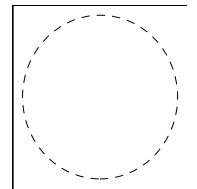
**Whisper (1-Way)**  
\*AWS



Reduces tonnage requirements while reducing slug deformation. **Requires a very Ridged Press.**

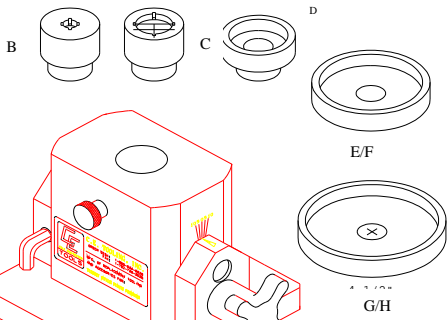


**Spiracle**  
\*ASPS

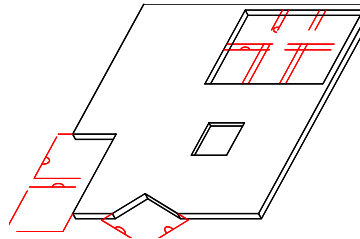


Ideal for rounds or squares < 1.18 30,m. Lessons tool side loading "Easy to sharpen"!

## Punch Sharpening Fixture



**Shear Proofs** were developed for applications such as notching or nibbling where side loading of tools occur. Square or Round Shear Proofs help prevent tool side loading through use of retractable heels. One or more heels enter into the die before the actual punching occurs. This gives ridged support and helps tool line up throughout the stroke of the press.

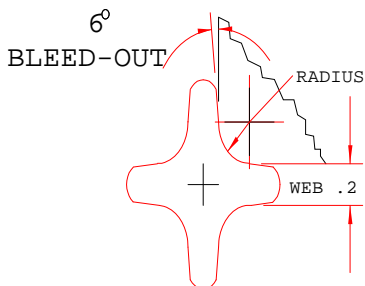
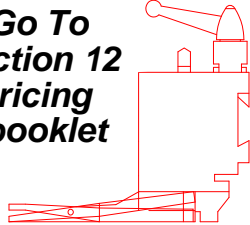


These items are being phased out. Please call to confirm pricing and availability.

## WORK HOLDER PARTS



Go To Section 12 pricing booklet



ORDER SP-44 TO CUSTOM ORD

4-WAY CORNER		
RADIUS	ST	
1/16	.062	B
1/8	.125	B
3/16	.187	B
1/4	.250	C
3/8	.375	C
1/2	.500	D
3/4	.750	E
1.000		E

Sta	SIZE	Punch Used in Mate-Style Holder 112, 114 212	Punch Used in Standard 114 Holder	Shear proof Holders 112 & 212
B	1/2" SQ			
D	1" or 25mm SQ	Body=1.625di.a Length w/tip 2.94	Body=1.75di.a Length w/tip 3.53	
F	2" or 50mm SQ	Body=2.75di.a Length w/tip 2.94	Body=2.5di.a Length w/tip 3.53	
G	2" or 50mm SQ	Body=3.125di.a Length w/tip 2.94	Body=4.125di.a Length w/tip 3.53	

Other variations of Shearproof available per special quote.

Ex. 1-1/8 sq. with 1.875 Body, 3.406 long, 5 w-keys

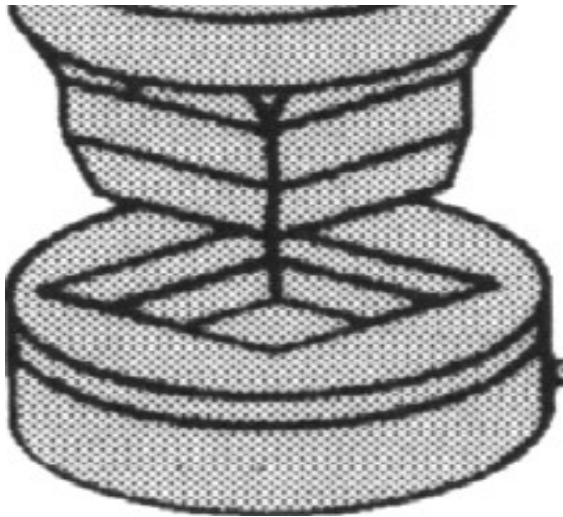
3"Sq. J or K sta. 5.125 Body, \_\_\_\_\_ long .5keys \$970 (Tip only) 2.187L

# SPECIAL SHAPED TOOLS SHIPPED IN 3-10 DAYS

FDS "FIRM DELIVERY SERVICE" (EXPEDITING SERVICE) Guaranteed Delivery in  
**5-days + 10%, 4-days + 20%, 3-Days + 30%, 2-days + 40%, 1-day + 50%**

NOTE: Ar, Br, Cr, means a radius value is requested. Further, a .015" Radius is always recommended on corners less than 90 degrees.

SP-1 SINGLE "D" STD SHAPE PRICE 	SP-2 30, 60, 90 Degree 	SP-3 HEXAGON STD SHAPE PRICE 	SP-4 OCTAGON STD SHAPE PRICE 	SP-5 	SP-6 TEARDROP 	SP-7 	SP-8 KEYWAY (1) 	SP-8 KEYWAY (1) 
SP-9 KEYWAY (2) 	SP-10 KEYWAY (4) 	SP-11 	SP-12 	SP-13 KEYHOLE (1) 	SP-14 KEYHOLE (2) 	SP-15 KEYHOLE (4) 	SP-16 	SP-17 
SP-18 	SP-19 	SP-20 	SP-21 	SP-22 	SP-23 	SP-24 	SP-25 	SP-26 
SP-27 	SP-28 	SP-29 	SP-30 	SP-31 	SP-32 	SP-33 TO APEX 	SP-34 	SP-35 
SP-36 	SP-37 	SP-38 	SP-39 	SP-40 	SP-41 	SP-42 	SP-43 	SP-44 
SP-45 	SP-46 	SP-47 	SP-48 	SP-49 	SP-50 	SP-51 	SP-53 	SP-54 



## ALIGNMENT TOOLS

Assure your tool holders are centered, and aligned.

Sta	__=4W 2W or 2B	Price
B	__B-ALIGN-PD	
C	__C-ALIGN-PD	
D	__D-ALIGN-PD	
E	__E-ALIGN-PD	
F	__F-ALIGN-PD	
G	__G-ALIGN-PD	
H	__H-ALIGN-PD	

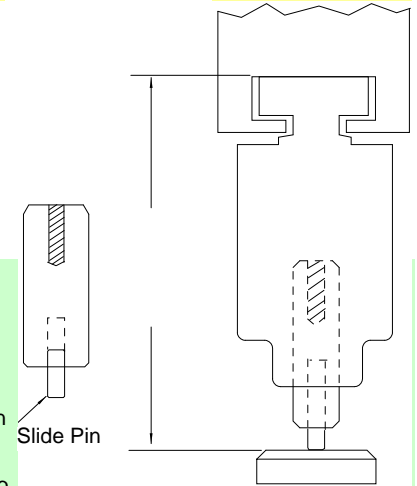
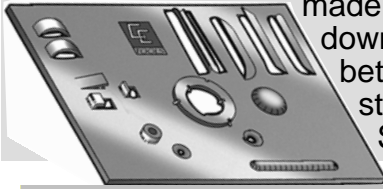
*When using your tooling regardless of shape, always make sure your turret is aligned properly to avoid mis-hitting and damaging either punch, die or both, Increase your tool life and productivity with C E Tooling Alignment Tools for your press!*

# SPECIAL APPLICATION FORMING TOOLS

HIGHER PRODUCTIVITY THROUGH SUPERIOR ENGINEERING

## Tool Overview: Use and Set Up

When setting up a form tool in a punch press, close attention must be made in setting the exact depth the punch comes down forming and literally spanking the material between the form punch and die. For positive stop forms, you will need to get the precise Shut Height of your machine.



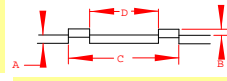
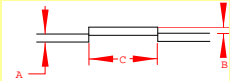
## ELECTRICAL KNOCK OUTS

SINGLE

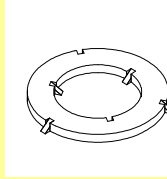
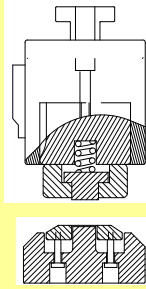
SP-60

DOUBLE

SP-61



Conduit	Actual Size	Conduit	Actual Size
1/2	.875	1 1/2	2.000
3/4	1.125	2"	2.500
1"	1.375	2 1/2	3.000
1 1/4	1.750	3"	3.625

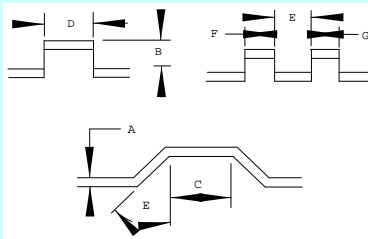
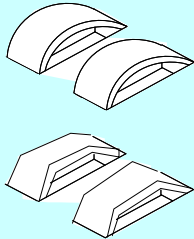


## CE offers a punch to easily measure a machines shut height

C E part numbers: 2WBP-shut or 4WBP-shut, 28AP-shut, STCP-shut & ATBP-shut. It is a (Sta.B) Punch or Guide Unit that accepts a dowel pin (press fit) to slide into it's face. Simply place this punch with pin extended in a holder and load it into turret. Use with any new or (un-sharpened) die (Height:112=.605 114=1.125, ) having a width or diameter less than 5/16 (8mm). Perform a single stroke of press. The dowel pin is pushed into the punch when it make contact with the die face. Now remove the punch holder and measure your machines Shut Height.

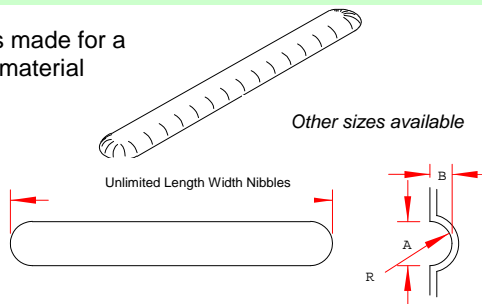
## BRIDGE TOOL

SINGLE Sp-65



## PROGRESSIVE STIFFENING RIB

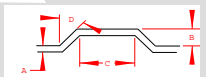
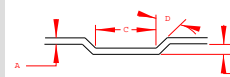
Punch is made for a specific material



Standard Size	"A"	"B"	"R"
	3/8	3/16	3/16

## EMBOSS SHAPED

## Form ROUND OR



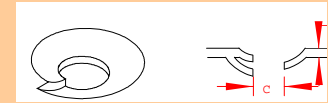
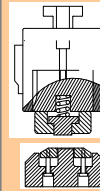
D >= 45° DIE w/No Stripper  
Quick-Set™ Punch and Die Cat.  
Code \*FAT\_PD-D72

D >= 45° DIE w/No Stripper  
Quick-Set™ Punch and Die Cat.  
Code \*FAT\_PD-U63

D < 45° DIE w/Built in Stripper  
Quick-Set™ Punch and Die Cat.  
Code \*FAT\_PD-D72

D < 45° DIE w/Built in Stripper  
Quick-Set™ Punch and Die Cat.  
Code \*FAT\_PD-U63

## THREAD FORM DOWN ONLY



Replaceable Top Inserts \*FIP81 Bottom \*FID81  
**Ordering Notes:**  
Order by Screw & Thread size  
**Limitations** Thread Pitch must be < than material thickness.  
Contact C.E. Tooling Engineers with your specific needs, and they can discuss the feasibility and pricing for Thread

## GROUND SYMBOL

Keyed 4 Ways  
Standard=1/2"Ø +\$50 for non standard Longest horizontal line=3/8 length



**DOWN** Sta. B Punch & Die



**UP** Sta. D Punch & Die

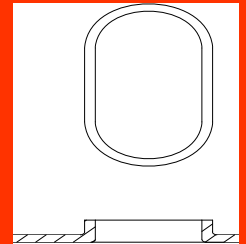
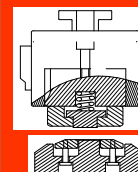


**DOWN** Sta. B Punch & Die



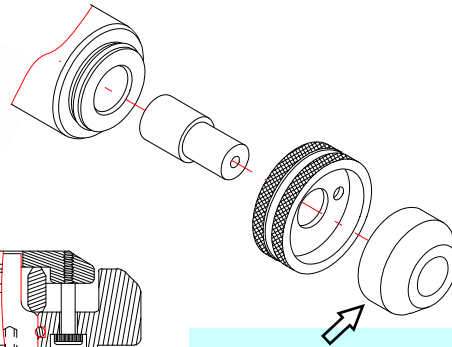
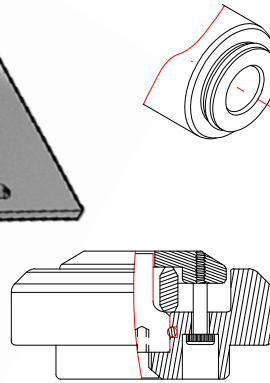
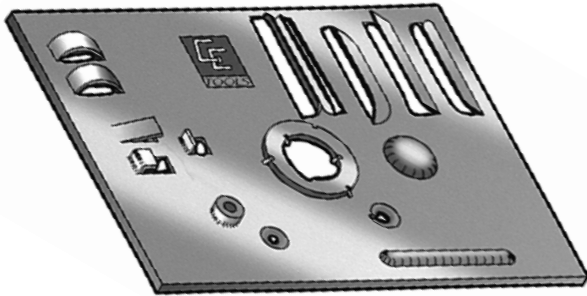
**UP** Sta. D Punch & Die

## EXTRUSION

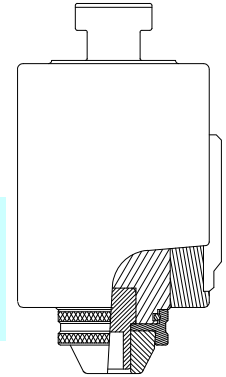


# SAVE! MASTER PUNCH & DIE, Accepts Inserts to Perform Multiple Applications

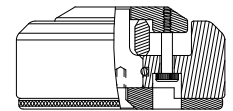
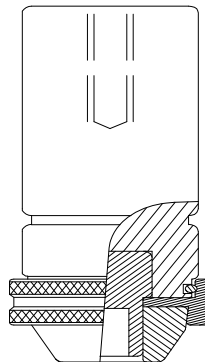
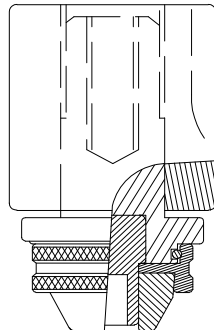
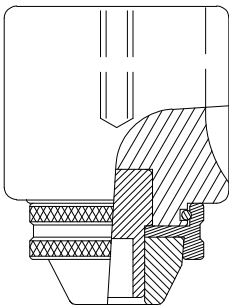
Superior Engineering from C.E. Tooling doesn't just mean Superior Products and Higher Productivity. With C.E., it also means Higher Tool Value.



**Punch Urethane**  
 Form-Down (Yellow) Cat. Code \*FCPUD  
 Form Up (Orange or Blue) Cat. Code \*FCPUU



## Style A    Style B    Style C



### INSERT CHANGING INSTRUCTIONS:

**Die:** Remove two stripper bolts, + center screw. Lift off stripper plate. Die insert can know we replaced. Re assemble stripper plate, checking that hole in stripper is large enough to allow insert end to pass through. (Their are two stripper plate sizes, .28 & .53")

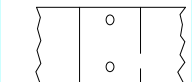
Helpful information is found in our Technical Reference Booklet: *Section 1 page 19-22*

### HALF SHEAR

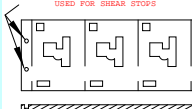
#### FORM DOWN OR FORM UP

Master Unit Accepts Replaceable Half Shear Insert .25" (6.1mm) Maximum B dimension Dedicated Quick-Set Punch Holder and Die must be used for sizes greater than .25" (6.1mm)

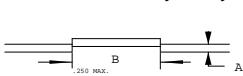
TWO HALF SHEARS USEL FOR ALIGNING TWO SHEETS



USED FOR SHEAR STOPS



Replaceable Insert  
 Top \*FIP51  
 Bottom \*FID51 Delivery 2-5 days



### CENTER POINT

#### FORM DOWN FORM UP

Replaceable Insert  
 Top \*FIP57  
 Standard Die ATB-Dr  
 Delivery 2-5 days

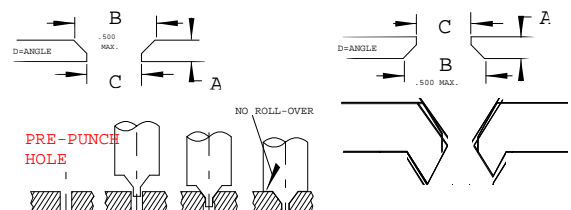
Replaceable Insert  
 Top \*FIP58  
 Bottom \*FID53  
 Delivery 2-5 days

### EXTRUSIONS



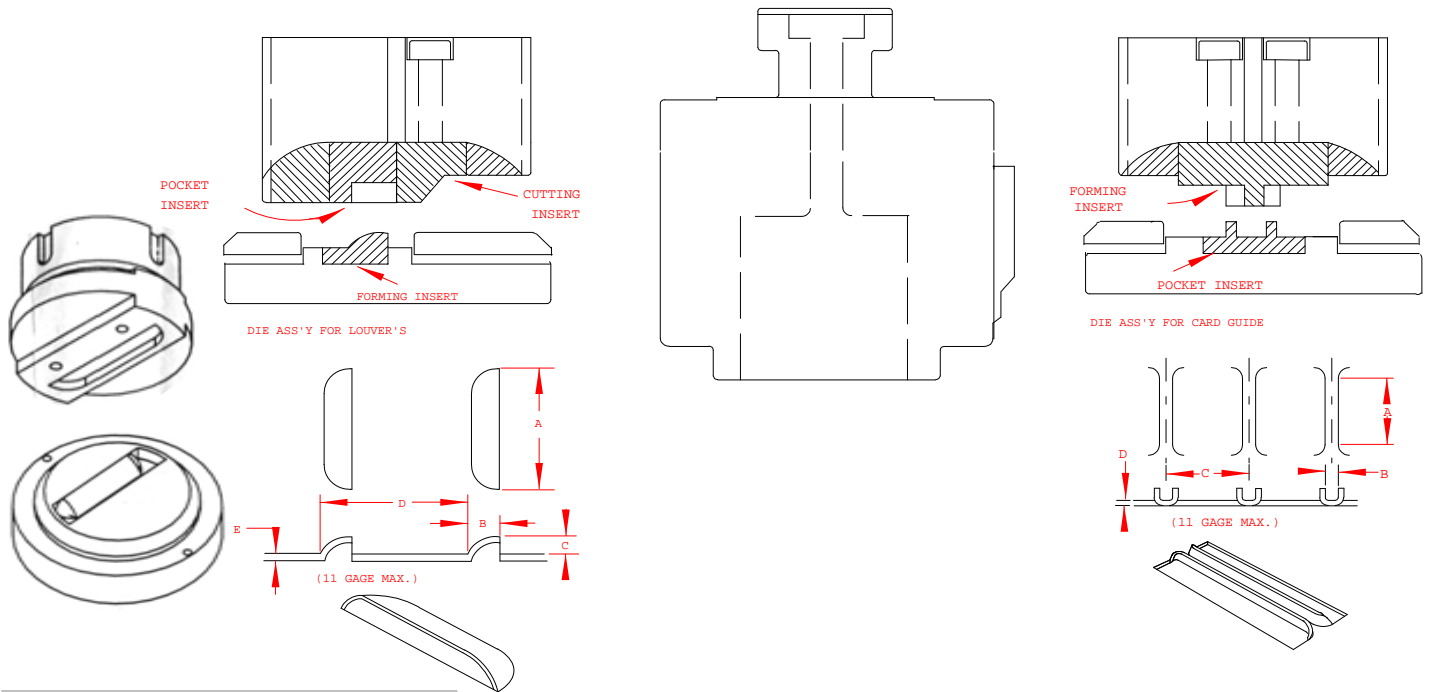
### COINING /Counter Sink

Down \*FIP56 Up \*FIP58 & \*FID58



# LOUVER & CARD GUIDE TOOLS

HIGHER PRODUCTIVITY THROUGH SUPERIOR ENGINEERING

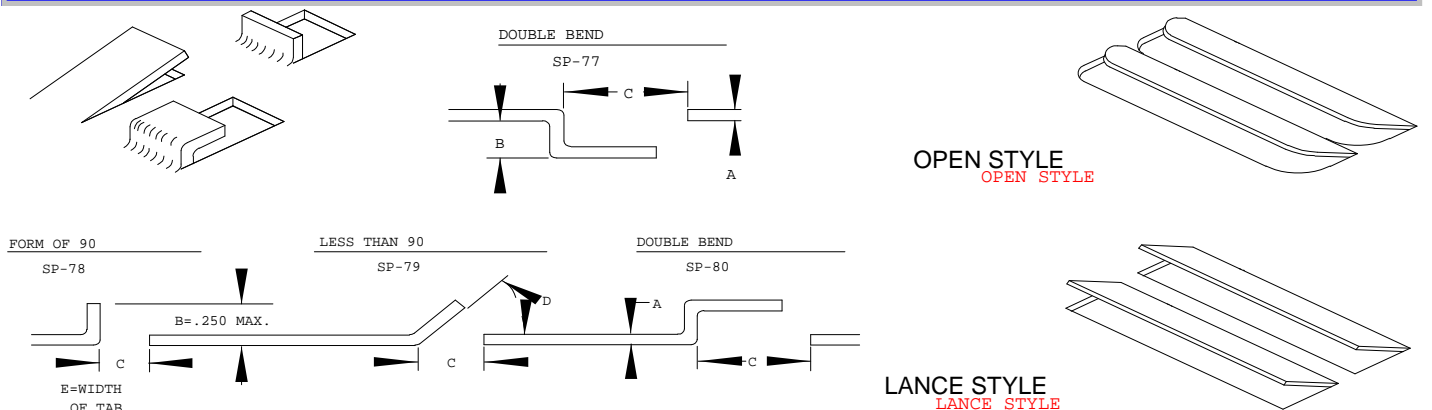


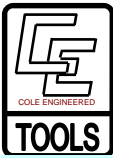
STANDARD LOUVER SIZES			
"A" LENGTH	"B"	"C"	"D"
2"	1/2"	3/16"	3/4"
3"	5/8"	1/4"	15/16"
4"	3/4"	1/4"	1-1/8"

Other size available.  
Max "A" length for Sta.

C.E. TOOLING OFFERS BOTH **STANDARD AND PROGRESSIVE** STYLE LOUVERS AND CARD-GUIDES. PROGRESSIVE TOOLS ARE MADE TO EXACT MATERIAL THICKNESS. THE LENGTH IS UNLIMITED THROUGH NIBBLING OPERATION. Reference P3.23 for further information.

## LANCE & FORMS





# CHARACTER MARKING TOOLS

**DEDICATED MARKING UNITS** Produced to stamp Logo's, Names, Part No., etc.. Contact our tooling engineers to discuss your particular application. Camera Ready Art Work or Cad-.DXF/.IGES files are required for Logo's.

## SHARP FACE CHARACTER STAMP INSERT HOLDERS

Available 1/16, 1/8, & 3/16 width X 1/4 height. 1/8" is standard 1/8 \*ACHAR1/8 stamps .09X.15 1/16 \*ACHAR1/16 stamps .06X.12" • 3/16 \*ACHAR3/16 stamps.156X.23  
 includes widths of: 4 each 1/16, 3/32, 1/8, 2 pc 3/16  
 Spacer Kit \*ASPACER

Lengths: CE & Amada Standard Character Length=.875" WT=.750" (WT old style length=.572" +\$4.50 ea. Insert)

**Note: Units to hold other than .875" character lengths, example .75" or .572" have a \$45-\$95 adder.**

### FORM UP FORM DOWN

**Sta.D**  
Single Row

	Catalog	Price	Catalog	Price
SET	*F4WD-SSU		*F4WD-SSD	
PUNCH	*F4WD-PSU		*F4WD-PSD	
Die	*F4WD-SDU		*F4WD-SDD	
Characters	1/16	1/8	3/16	
Per Row	24	12	8	
	1/16	1/8	3/16	
	24	12	8	

**Sta.D**  
Double Row

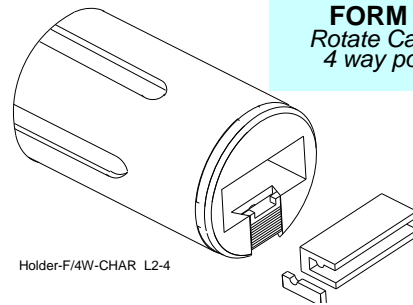
	Catalog	Price	Catalog	Price
SET	*F4WD-SSU		*F4WD-SSD	
Punch	*F4WD-PDU		*F4WD-PSD	
Die	*F4WD-DDU		*F4WD-SDD	
Characters	1/16	1/8	3/16	
Per Row	24	12	8	
	1/16	1/8	3/16	
	24	12	8	

**D sta. Is solid type, no replaceable cartridge**

**Sta.E**  
Single Row

	Catalog	Price	Catalog	Price
SET	*F4WE-SSU		*F4WE-SSD	
PUNCH	*F4WE-PSU		*F4WE-PSD	
Cartridge	*F4WEDCS		*F4WE-CS	
Die w/C	*F4WE-SDU		*F4WE-SDD	
Characters	1/16	1/8	3/16	
Per Row	20	10	6	
	1/16	1/8	3/16	
	16	8	5	

**FORM DOWN**  
Rotate Cartridge for 4 way positioning



Holder-F/4W-CHAR L2-4

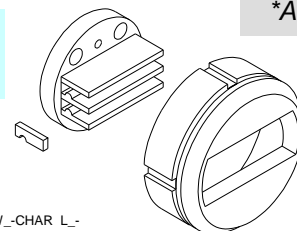
**Accessories:**

- Plunger
- Screws
- \*ASSPLG
- Cartridge Lock
- Small
- \*AchlockA
- Large
- \*AchlockB

**Sta.E**  
Double Row

	Catalog	Price	Catalog	Price
SET	*F4WE-SSU		*F4WE-SSD	
PUNCH	*F4WE-PDU		*F4WE-PDD	
Die w/C	*F4WE-SDV		4WE-D-s-0	
Cartridge	*F4WFDCD		*F4WE-CD	
Characters	1/16	1/8	3/16	
Per Row	16	8	5	
	1/16	1/8	3/16	
	16	8	5	

**FORM UP**  
Keyed for 4pl. location



Holder-F/4W-CHAR L-

**Alternative FORM DOWN**  
Design used for Small Sta. D, and at times larger stations..

**Sta.F**  
Single Row

	Catalog	Price	Catalog	Price
SET	*F4WF-SSU		*F4WF-SSD	
PUNCH	*F4WF-PSU		*F4WF-PSD	
Cartridge	*F4WFDCS		*FATC-CD	
Die	*F4WF-SDU		4WF-D-r	
Character	1/16	1/8	3/16	
Qty Per Row	32	16	10	
	1/16	1/8	3/16	
	32	16	10	

**Sta.F**  
Double Row

	Catalog	Price	Catalog	Price
SET	*F4WF-SSU		*F4WF-SSD	
PUNCH	*F4WF-PSU		*F4WF-PSD	
Cartridge	*F4WFDCS		*FATC-CS	
Die	*F4WF-SDU		4WF-D-r	
Character	1/16	1/8	3/16	
Qty Per Row	32	16	10	
	1/16	1/8	3/16	
	32	16	10	

**Sta.G**  
Single Row

	Catalog	Price	Catalog	Price
SET	*F4WG-SSU		*F4WG-SSD	
PUNCH	*F4WG-PSU		*F4WG-PSD	
Cartridge	*F4WGDCS		*F4WG-CS	
Die	*F4WG-SDU		4WG-D-s-0	
Character	1/16	1/8	3/16	
Qty Per Row	48	24	16	
	1/16	1/8	3/16	
	50	25	16	

**Sta.G**  
Double Row

	Catalog	Price	Catalog	Price
SET	*F4WG-SSU		*F4WG-SSD	
PUNCH	*F4WG-PSU		*F4WG-PSD	
Cartridge	*F4WGDCD		*F4WG-CS	
Die Com-	*F4WG-SDU		ASD-D-s-0	
Character Width	1/16	1/8	3/16	
Qty Per Row	48	24	16	
	1/16	1/8	3/16	
	50	25	16	

**Sta.H**  
Single Row

	Catalog	Price	Catalog	Price
SET	*F4WH-SSU		*F4WH-SSD	
PUNCH	*F4WH-PSU		*F4WH-PSD	
Cartridge	*F4WHDCS		*F4WH-CS	
Die	*F4WH-SDU		4WH-D-S-0	
Character	1/16	1/8	3/16	
Qty Per Row	60	30	20	
	1/16	1/8	3/16	
	60	30	20	

**Sta.H**  
Double Row

	Catalog	Price	Catalog	Price
SET	*F4WH-SSU		*F4WE-SSD	
PUNCH	*F4WH-PSU		*F4WH-PSD	
Cartridge	*F4WHdCS		*F4WH-CS	
Die	*F4WH-SDU		4WH-D-r	
Character	1/16	1/8	3/16	
Qty Per	60	30	20	
	1/16	1/8	3/16	
	60	30	20	

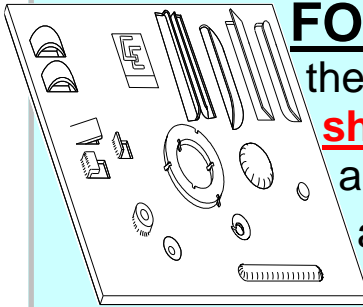
# ENSURE YOUR TOOLS ARE SHARPENED PROPERLY

If facilities aren't available to properly care for your tooling, CE offers it's customers a tool sharpening service at low rates. **1-2 day turn around.**

PUNCH SHARPENING COST <i>FLAT (NO SHEAR)</i>	Qty 1-3	Qty 4-10	Qty 11-25
MAXIMUM DIAGONAL UP TO 2-1/4"			
TIP DIAGONAL 2-1/4 TO 5"			
TIP DIAGONAL 5" TO 8"			

DIE SHARPENING COSTS	Qty 1-3	Qty 4-10	Qty 11-25
O.D. UP TO 2-1/4" DIAMETER			
O.D. OVER 2-1/4 TO 6-1/2"			
O.D. OVER 6" UP TO 11" DIAMETER			

*Have CE remove old Ejector, and add new, There is a minimal additional cost per ejector hole.*  
**2mm/.078" or 3mm/.109" holes +\$ 6mm/.236" or 1/4=.25" + \$ 10mm/.394" or 15mm/.590" + \$**



**FORMING TOOLS** Assure best performance. Using the tool's prints which we keep on file, our tool room will **sharpen, re-set and test your tool.** We can usually turn around a Form Tool in two to three work days. We have a minimal charge to cover labor. Our goal of this service is to assure long term satisfaction with CE Products.

## CORNER RADIUS KITS



**Produce eight (8) different sized radius corners equally and easily.**

- \*Self-Contained Unit means fast easy set-up
- \*Requires a vertical hit from any type press
- \*Punch material up to 13 gage mild steel, 10ga. For 5/16 or 8mm Radi

**Fractional Unit:** Cat. Code \*E-RK1002  
 1/16, 1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2

**Metric Unit:** Cat. Code \*E-RK1001  
 2mm, 3mm, 4mm, 5mm, 6mm, 8mm, 10mm, 12mm

The Corner Radius Kit takes the "Pain" out of corner rounding. This unique, self-contained unit requires only a vertical "hit" from a mach. press, brake, etc... (soft hammer on a bench for short runs) to produce clean corner radii Precision, self-aligning punches and dies make 30 second changeover common.

Shut ht. 3 1/8 • Base 5"x6 1/4 • box 10 1/2 x 6 1/2 • 13 lb.



## NCT<sup>3</sup> Turret Automated Tapping

**TOOLS** Reduce your cost per hole to below \$.01 each Tap up to 180 holes a minute. (Depending on ram speed) Pitch insert change in minutes. Roll form taps. No minimum distance between tapped holes **Pre-Pierce Hole is required prior to tapping.** Tapping tool and Oil Tank is loaded into turret. The "ready punch height will need to be calibrated prior to tapping and the clamp safety zone will need to be set. Oil Housing rests on the backside of the turret and is held in place by two magnets. The tapping unit and oil housing are connected together by supplied hoses. (With Finnpower machines, the tank surrounds the B sta. Yet still allows the station to be used.



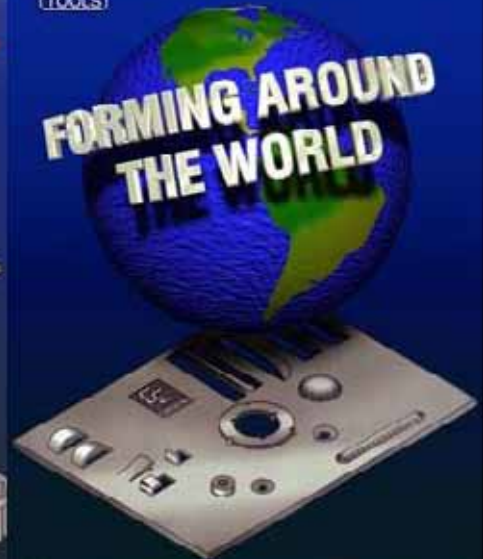
Max. Material Thickness is determined by Pitch. Speed is up to 200 SPM on 1" Centers.

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



**C.E. TOOLING, INC.**

**FORMING AROUND  
THE WORLD**

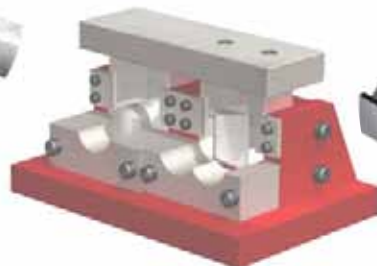
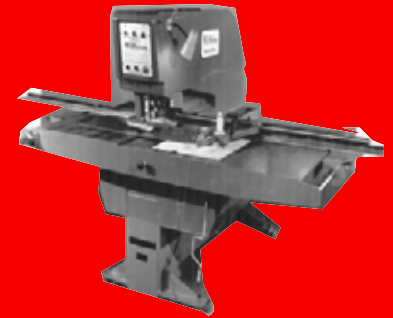


www.cetooling.com

C.E. TOOLING, INC.



**MANUFACTURING TURRET PRESS  
TOOLING SINCE 1966**



**CE TOOLING, INC.**  
2560 W. Brooks Ave.  
N. Las Vegas NV 89032

**[sales@CEtooling.com](mailto:sales@CEtooling.com)**

**Tel. 702 736-2958**

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

**Fax 702 736-3038**



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