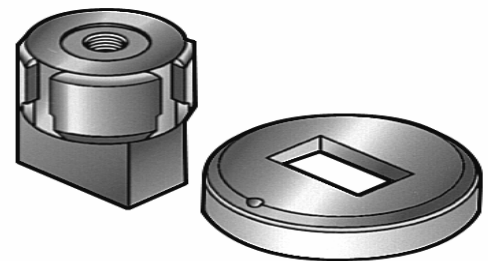
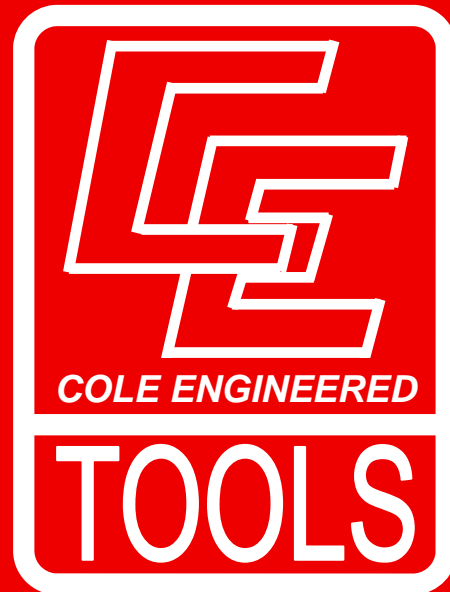


C.E. TOOLING

Section

4

Tooling Booklet



**Murata WIEDEMANN • BEHRENS •
FINNPOWER**

**112W • 114W • 212B • 906 • NOVA •
MARATHON**

TABLE OF CONTENTS

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.

TOOL STYLES	PAGE	Target Ship Date in Work Days
112W Style Tools <i>Murata Wiedemann, Behrens & Di-Acro Machines</i>	5	1-4
114-W Style Tools <i>Murata Wiedemann & Behrens Machines</i>	6	1-4(H-L=3-8)
114-W-hd HEAVY DUTY	7	3-8
212-B Style Tools <i>Behrens, Wiedmann & Di-Acro Machines</i>	8	
902/903 Style Tooling for Di-Acro® equipment	9	2-6
901 & 905 Style Tooling for Di-Acro® equipment	10	
Marathon® Style for Murata Wiedemann <small>Marathon is a trade mark of Mate Precision</small>	12	
Nova™ Style for FINN-POWER Machines <small>Nova is a registered trade mark of Mate Precision</small>	11	
117 (Old 112) For R2-R4H, R4P & R41P	19-22	
URETHANE STRIPPERS	12	1-4
VARI TOOLS 6 Sta. & 12 Sta. Multi-Tools for Wiedemann Style	21	1-4
SPECIAL APPLICATION TOOLS / OPTIONS		
OPTIONAL PUNCH SHEARS •	13	varies
FORMING TOOLS	15-17	
CHARACTER MARKING TOOLS	18	

INDEX

Accessories:	Sec.-1	Coining	15	Marking Tools-Characters etc.	18
Adapters:		Corner Radius Kit	23		
Alignment Tools	17	Ejectors	4,6,8	Shears	13
Ball Riding / Lifter Dies		Keying - Standard Locations	2	Shear Proofs <i>retractable heels</i>	14
Blade Inserts & Holders		Embossing	16	Slug Ejectors	4,6,8
Card Guide	17	Extrusions	15&16	Special Shapes	14
Center Punch	14	Form Tools	14-18	Standard Shapes	2
Chamfer Corners	2	Half Shear	15	Stiffening Rib Tools	16
Character Marking (Insert Style)	18	Lances & Louvers	17	Tooling PACKAGES	
Clearance Chart	Sec-1			Vari-Tools	
Coatings: Technical Info.	Sec-1			Work Holders Parts	<i>Section 12</i>

ADDITIONAL COSTS FOR NON-STANDARD OPTIONS

	RADIUS OR 45° CHAMFERS + \$#.00 per corner		
	PUNCHES	Corners 1-3 X #	4 (all)
Length under 1.625 and any size Radius or Chamfer, add	# X \$10.00		\$10.00
Length over 1.625 & .032 maximum Radius or Chamfer, add	# X \$10.00		\$30.00
Length over 1.625 and Radius or Chamfer over .032 (.8mm), add	# X \$15.00		\$40.00
Add On To All <u>DIES</u> any size Radius or Chamfer	# X \$10.00		\$10.00
No Extra Charge for <u>STRIPPERS</u> or <u>GUIDES</u> When Ordered With Set			

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

Add 50% to die price for **Solid Dies**.

For Widths or Diameters Under .093(2,36mm) Add 30% to set price.
 For Widths or Diameters Under .062(1,57mm) Add 50% to set price.
 For Widths or Diameters Under .046(1,2mm) Add 100% to set price.

Included in add on cost: Dies are produced with a .090 land then a 1.5° relief is given to prevent multiple slugs from stacking causing excessive pressure on punch. Further, punches can be produced with Stubby Punch Design at no additional charge. A Stubby Punch has it's tip (diameter or width) first ground to a size of .187 then a tip is ground to requested size for a length of .225 + thickness to be punched. (If fitted strippers are used, + .125 to tip grind length and use strippers .187 or greater in diameter or width.)

.09 land, then 1.5° relief

Optional STUBBY PUNCH

.187 Dia. or Width

STANDARD KEYING

10 Standard Shapes plus Rounds. (RT Rectangles • SQ=Square • OB=Obround • SD=Single-D • DD=Double-D • LD=Long-D • EQ=Equilateral • OC=Octagon • HX=Hexagon • QD=Quad-D *Add \$10 per set to standard price for LD & EQ*)

LOOKING AT FACE OF PUNCH	LOOKING AT TOP OF DIE

Shapes on Angles or Extra

Visualize location key of tool as it would load into turret. Start with length of shape horizontal Length points to 0°
Rotate shape, not location key.
 A sketch accompanying your order ensures keying as required! Note: Other Manufacturers ordering diagrams may differ from C.E.'s!

10 STANDARD SHAPES

Reference Index Page 4.3 for Deliveries

RECTANGLE • SQUARE • OBRROUND • SINGLE-D
 DOUBLE-D • QUAD-D • HEXAGON • OCTAGON
 ADD \$10 PER SET FOR: LONG-D & EQUILATERAL

EXPEDITING SERVICES

1FDS Place your order by 1 PM PST, Order Ships The Next or Possibly The Same Work Day, Add 25% to order cost.
2FDS • Place your order by 3 PM PST, Order Ships In 1-2 Work Days, Add 10% to order cost.

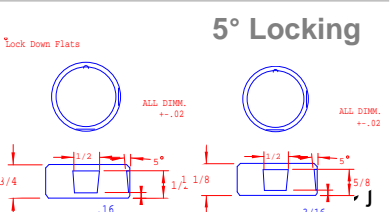
WORK HOLDER PARTS

Call to request pricing sheet for your machine model.
Save! up to 50%

O.E.M.

SPECIAL SHAPES SHIPPED IN 3-10 DAYS

Guaranteed Delivery(Expediting)
 "FIRM DELIVERY SERVICE"
Special Shapes Ordered By 1pm PST to ship in 5 Workdays + 10%, 4 W.D.+20%, 3 W.D.+30%, 2 W.D.+40% or 1-W.D +50%



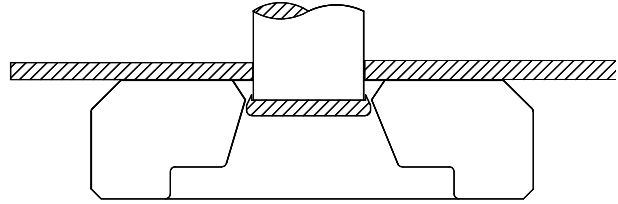
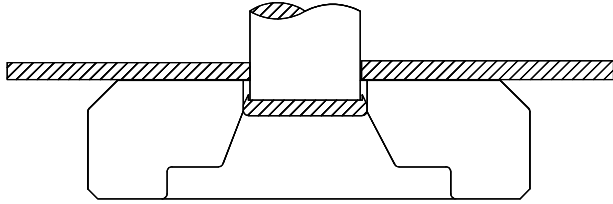


SLUG TRAP™ DIES

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

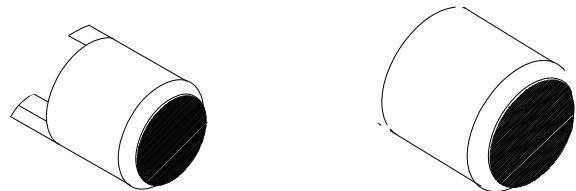


Improve tooling life of both punches and dies When a punch strikes a slug that has been pulled on to the top of sheet, great wear can be caused to the cutting edges of both the punch and die. The biggest cause of wear is when the punch comes down partially on a slug. It can side load the punch pushing 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-

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	DIE	PUNCH	DIE
A-C				
D				
E-F				
G-H				
J-L				

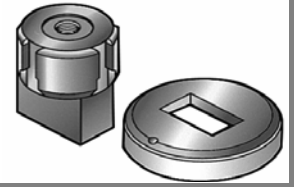
Shapes Located on Angles Othan 0-90°

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

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

112W Style Tools

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



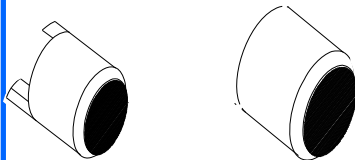
Sta. & Range	Shape	Tool Mfg. with A2 Tool Steel 5/16-18 threads	C.E. Cat. Code	Description Of Punch Material	Price	Die A2 Steel S7 +25%	C.E. Cat. Code	Description Of Die Land	Price
B .093-1.000	ROUND	 Dimensions: .62, 2.81	2WBP-r	Standard		 Dimensions: 1.5625 dia, .593 thick	2WBD-r	Standard	
	SHAPE		2WBP-hs-r	Semi-HSS			2WBDst-r	Slug Trap™	
C 1.001-1.500	ROUND	 Dimensions: .937, 3.16	2WCP-r	Standard		 Dimensions: 2.250 dia, .593 thick	2WCD-r	Standard	
	SHAPE		2WCP-hs-r	Semi-HSS			2WCDst-r	Slug Trap™	
D 1.501-2.000 Standard & Auto Index	ROUND	 Dimensions: 1.625, 2.06 Shapes k- 0&90 Squares k- 0&45	2WDP-r	Standard		 Dimensions: 2.270 dia, .750 thick 1" & 25mm Square pinned 0&45 std	2WDD-r	Standard	
	SHAPE		2WDP-hs-r	Semi-HSS			2WDDst-r	Slug Trap™	
E 2.001-2.500	ROUND	 Dimensions: 2.750, 2.06	2WEP-r	Standard		 Dimensions: 3.500, 3.500 dia, .750 thick	2WED-r	Standard	
	SHAPE		2WEP-hs-r	Semi-HSS			2WEDst-r	Slug Trap™	
F 2.501-3.125 Standard & Auto Index	ROUND	 Shapes keyed 0&90 Squares keyed 0&45	2WFP-r	Standard		 Dimensions: 4.250 dia, .750 thick 1" & 25mm Square pinned 0&45 std	2WFD-r	Standard	
	SHAPE		2WFP-hs-r	Semi-HSS			2WFDst-r	Slug Trap™	
G 3.126-3.500	ROUND	 Dimensions: 3.125, 2.06 5/16 KEY	2WGP-r	Standard		 Dimensions: 4.750 dia, .750 thick	2WGD-r	Standard	
	SHAPE		2WGP-hs-r	Standard			2WGDst-r	Slug Trap™	
H 3.501-4.125 Behrens Only	ROUND	 Shapes keyed 0&90 Squares keyed 0&45	2WHP-r	Standard		 Dimensions: 5.125, 5.125 dia, .750 thick	2WHD-r	Standard	
	SHAPE		2WHP-hs-r	Standard			2WHDst-r	Slug Trap™	

S7 Shock Proof Steel Dies +25% Charges for extra keys or shapes on angles Page 4

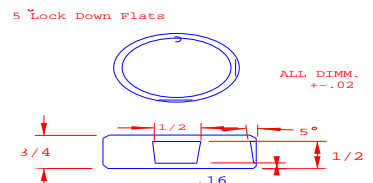
For material over 10 gage, **Solid Dies for Sta. B&C** are recommended for Rectangle & Square.
 + 50% of Die cost

Ejector holes are placed in punch tip sizes greater than .270"/6.86mm
Slug Ejector
 .078 dia. Code *AEJ-R2
 .250 dia Code *AEJ-R7

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: Semi HSS 1/2-13 threads	C.E. Cat. Code	Description Of Punch Material	Price	Die A2 Steel S7 +25%	C.E. Cat. Code	Description Of Die Land	Price
A .093-	ROUND	 .5625	4WAP-r	Standard		 1.5625 dia	4WAD-r 4WADst-r	Standard Slug Trap™	
B .093 - 1.000	ROUND	 1.0625 OD	4WBP-r	Standard		 1.5625 dia 1.125 thick	4WBD-r	Standard	
	SHAPE	Shapes k 0 & 90	4WBP-s	Standard			4WBD-s	Standard	
C 1.001- 1.500	ROUND	 1.3125 OD	4WCP-r	Standard		 2.250 dia. 1.125 thick	4WCD-r	Standard	
	SHAPE	Shapes k 0 &	4WCP-s	Standard			4WCD-s	Standard	
D 1.501- 2.000 See Page	ROUND	 1.750 OD	4WDP-r	Standard		 2.750 dia 1.125 thick	4WDD-r	Standard	
	SHAPE	Shapes k- 0&90 Squares k- 0&45	4WDP-s	Standard			4WDD-s	Standard	
E 2.001- 2.500	ROUND	 2.500 OD	4WEP-r	Standard		 3.500 dia 1.125 thick	4WED-r	Standard	
	SHAPE		4WEP-s	Standard			4WED-s	Standard	
F 2.501- 3.000 See Page	ROUND	Shapes keyed @ 0 & 90	4WFP-r	Standard		 4.000 dia	4WFD-r	Standard	
	SHAPE	Squares keyed 0&45	4WFP-s	Standard			4WFD-s	Standard	
G 3.001- 3.500	ROUND	 5.125 OD	4WGP-r	Standard		 4.500 dia 1.125 thick	4WGD-r	Standard	
	SHAPE		4WGP-s	Standard			4WGD-s	Standard	
H 3.501- 4.125	ROUND	Shapes keyed @ 0 & 90	4WHP-r	Standard		 5.250 dia 1.125 thick	4WHD-r	Standard	
	SHAPE	Squares keyed @ 0 & 45	4WHP-s	Standard			4WHD-s	Standard	
J 4.126- 4.750	ROUND	 5.375 OD	4WJP-r	Standard		 6.000 dia 1.125 thick	4WJD-r	Standard	
	SHAPE	1/2 KEY	4WJP-s	Standard			4WJD-s	Standard	
K 4.751- 5.500	ROUND	 5.375 OD	4WKP-r	Standard		 6.500 dia 1.125 thick	4WKD-r	Standard	
	SHAPE		4WKP-s	Standard			4WKD-s	Standard	
L 5.001- 6.000	ROUND	Shapes keyed @ 0 & 90	4WLP-r	Standard		 7.500 dia 1.125 thick	4WLD-r	Standard	
	SHAPE	Squares keyed @ 0 & 45	4WLP-s	Standard			4WLD-s	Standard	

S7 Shock Proof Steel Dies +25% Charges for extra keys, or shapes on angles Page 4

114W-hd Heavy Duty

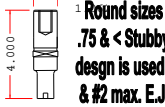


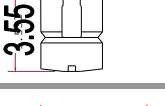
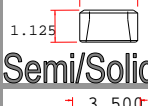
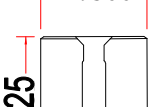
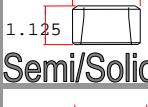
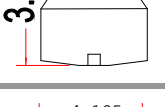
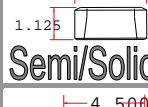
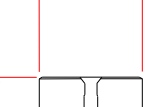

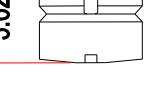

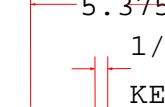
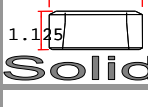
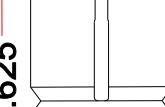
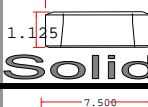
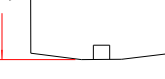

SUGGESTED FOR PUNCHING MATERIAL 1/4" THICK AND GREATER

For: Murata Wiedemann & Behrens Machines with Turrets & Tool Holders accepting 114 tools

FEATURES: **DIES:** Mfg. with S7 Tool steel • Solid or Semi-Solid • Slug Trap™ • Constant Clearance Dies • Radius Corners in the back out of all rectangle and square shapes

PUNCHES: Mfg. with Semi-HSS, A2 or A8 Tool Steel (CE determines actual steel used by station criteria)
 • D station and larger have extended length to allow for Roof Top Shear of 1/16 on D & 1/8 for E-L Station. • 1° Back Taper (Lessens stripping tonnage and reduces gauling).

PUNCHES & DIES: Up to .031 radius in the corners of square and rectangle shapes can be placed on tools at no extra cost. Please Specify. • Special hardening processes are implemented to ensure best strength and wear resistance. Some of these processes are cryogenic freeze and a final tempering of tool after shape is finished assuring all stresses are removed.

Sta. & Range	Shape	Punch mfg. with A2, A8, & S7 Steel 1/2-13 threads	C.E. Cat. Code	Ref. Mate® Code	Punch Price	Die S7 Tool Steel	C.E. Cat. Code	Ref. Mate® Code	Die Price
B 0.093-1.000	ROUND		4WBHDPPr	POHB0A			4WBHDD-str	DOHB00	
	SHAPE		4WBHDPs	POHB_A			4WBHDD-sts	DOHB_0	
C 1.001-1.500	ROUND		4WCHDPPr	POHCOA			4WCHDD-str	DOHC00	
	SHAPE		4WCDHPs	POHC_A			4WCHDD-sts	DOHC_0	
D 1.501-2.000	ROUND		4WDHDPPr	POHDOA			4WDHDD-str	DOHD00	
	SHAPE		4WDHDPs	POHD_A			4WDHDD-sts	DOHD_0	
E 2.001-2.500	ROUND		4WEHDPPr	POHEOA			4WEHDD-str	DOHE00	
	SHAPE		4WEHDPs	POHE_A			4WEHDD-sts	DOHE_0	
F 2.501-3.000	ROUND		4WFHDPPr	POHFOA			4WFHDD-str	DOHF00	
	SHAPE		4WFHDPs	POHF_A			4WFHDD-sts	DOHF_0	
G 3.001-3.500	ROUND		4WGHDPPr	POHGOA			4WGHDD-str	DOHG00	
	SHAPE		4WGHDPs	POHG_A			4WGHDD-sts	DOHG_0	
H 3.501-4.125	ROUND		4WHHDPPr	POHH0A			4WHHDD-str	DOHH00	
	SHAPE		4WHHDPs	POHH_A			4WHHDD-sts	DOHH_0	
J 4.126-4.750	ROUND		4WJHDPPr	POHJOA			4WJHDD-str	DOHJ00	
	SHAPE		4WJHDPs	POHJ_A			4WJHDD-sts	DOHJ_0	
K 4.751-5.500	ROUND		4WKHDPPr	POHKOA			4WKHDD-str	DOHK00	
	SHAPE		4WKHDPs	POHK_A			4WKHDD-sts	DOHK_0	
L 5.501-6.000	ROUND		4WLHDPPr	POHLOA			4WLHDD-str	DOHL00	
	SHAPE		4WLHDPs	POHL_A			4WLHDD-st-s	DOHL_0	

Charges for extra keys, or shapes on angles Page 4

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	C.E. Cat. Code	REF. MATE® CODE	Punch Price	Die A2 Steel S7 Avail.	C.E. Cat. Code	REF. MATE® CODE	Die Price	Punch & Die Cat. Code	Punch & Die Price
B .093-1.000	ROUND		2BBP-r	PO2BOA			2BBD-r	DO2BOA		2BBPD-r	
	SHAPE		2BBP-s	PO2B_A			2BBD-s	DO2B_A		2BBPD-s	
C 1.001-1.500	ROUND		2BCP-r	PO2COA			2BCD-r	DO2COA		2BCPD-r	
	SHAPE		2BCP-s	PO2C_A			2BCD-s	DO2C_A		2BCPD-s	
D 1.501-2.000	ROUND		2BDP-r	PO2DOA			2BDD-r	DO2DOA		2BDPD-r	
	SHAPE		2BDP-s	PO2C_A			2BDD-s	DO2C_A		2BDPD-s	
E 2.001-2.500	ROUND		2BEP-r	PO2EOA			2BED-r	DO2EOA		2BEPD-r	
	SHAPE		2BEP-s	PO2E_A			2BED-s	DO2E_A		2BEPD-s	
F* 2.501-3.125	ROUND		2BFP-r	PO2F0A			2BFD-r	DO2F0A		2BFPD-r	
	SHAPE		2BFP-s	PO2F_A			2BFD-s	DO2F_A		2BFPD-s	
G 3.126-3.500	ROUND		2BGP-r	PO2G0A			2BGD-r	DO2G0A		2BGPD-r	
	SHAPE		2BGP-s	PO2G_A			2BGD-s	DO2G_A		2BGPD-s	
H 3.501-4.125	ROUND		2BHP-r	PO2HOA			2BHD-r	DO2HOA		2BHPD-r	
	SHAPE		2BHP-s	PO2H_A			2BHD-s	DO2H_A		2BHPD-s	

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

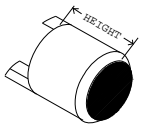
For material over 10 gauge, solid dies for Sta. B & C are recommended for Rectangle & Square Shapes.
Semi-High Speed Steel sta.B or C Punches +25% Shapes, +50% Rounds • S7 Shock Proof Steel Dies, +25%

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	

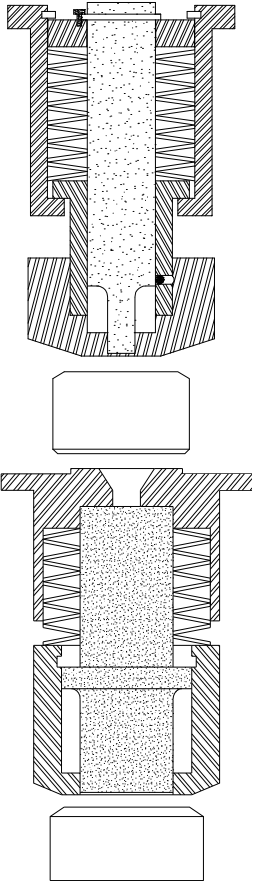
Shape @ Angles other than 0-90°

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									

FINPOWER: Nova™ Style Tools

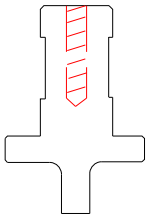
Nova is a Trade Mark of Mate Precision. Although C.E.Tooling manufactures tools to be fully interchangeable with Mate tools, there is no affiliation between our companies.
BELOW PRICES ARE FOR WIDTHS OF .093 (2.36MM) AND ABOVE

Through continued requests by NOVA™ Style tool users searching for an alternative tool source, **we offer this tooling on a limited basis. Initially, our aim is to offer better value and delivery times for special shapes, cluster and forms.**
Deliveries on all shapes (standard or special) punches & dies 1-4 work days & strippers 3-8 days.



DROP IN		A (.093-.500)			B (.093-1.000)			C (1.001-1.500)		
Description	Shape	C.E. CODE	REF MATE® CODE	Price	C.E. CODE	REF MATE® CODE	Price	C.E. CODE	REF MATE® CODE	Price
Guide Assembly <small>Does not include punch, die or stripper</small>		NVAGA	AFNA		NVBGA	AFNAB		NVCGA	AFNAC	
Punch HS Steel	Round Shape	NVAP-r NVAP-s	PANAOA PANA_A		NVBP-r NVBP-s	PANBOA PANB_A		NVCP-r NVCP-s	PANCOA* PANC_A*	
Die A2- Slug Trap™	Round Shape	4WADst-r 4WADst-s	DONBOO DOND_O		4WBDst-r 4WBDst-s	DONBOO DONB_O		4WCDst-r 4WCDst-s	DONCOO DONC_0	
Stripper	Round Shape	NVAS-r NVAS-s	S6NAOA S6NA_A		NVBS-r NVBS-s	S6NBOA S6NB_A		NVCS-r NVCS-s	S6NCOA S6NC_A	
Set Punch, Die, Stripper	Round Shape	nvAPDSst-r nvAPDSst-s	N/A		NVBPDSst-r NVBPDSst-s	N/A		NVCPDSst-r nvCPDSst-s	N/A	
Sleeve Snap Ring		*AnvSSRA	NSSA		*ANVSSRB	NSSB		*ANVSSRC	NSSC	
Punch Snap Ring		*AnvPSRA	NPSA		*ANVPSRB	NPSB		*ANVPSRC	NPSC	
Sleeve		*ANVSLA	NSVA		*ANVSLB	NSVB		*ANVSLC	NSVC	
P. Retaining Pin		*AnvPRPA	NPNA		*ANVPRPB	NPNB		*ANVPRPC	NPNC	
Cap		*ANVCA	NCAA		*ANVCB	NCAB		*ANVCC	NCAC	
Springs		*ANVSPA	NBSA		*ANVSPB	NBSB		*ANVSPC	NBSC	
Punch Guide		*ANVPGA	NRTA		*ANVPGB	NRTB		*ANVPGC	NRTC	
Ball Lock Rings		*AnvBLRA	NLRA		*ANVBLRB	NLRB		*ANVBLRC	NLRC	
Balls		*ANVBA	NRBA		*ANVBB	NRBA		*ANVBC	NRBA	

QUICK SET		D (1.501-2.00)			E (2.001-2.500)			F (2.501-3.00)			G (3.001-3.500)		
Description	Shape	C.E. CODE	REF MATE® CODE	Price	C.E. CODE	REF MATE® CODE	Price	C.E. CODE	REF MATE® CODE	Price	C.E. CODE	REF MATE® CODE	Price
Guide Assembly <small>Excludes punch, & stripper</small>		NVDGA	AFNAE		NVEGA	AFNAE		NVFGA	AFNAG		NVGGGA	AFNAG	
Punch HS Steel	Round Shape	NVDP-r NVDP-s	PANDOA* PAND_A*		NVEP-r NVEP-s	PANEOA PANE_A		NVFP-r NVFP-s	PANFOA PANF_A		NVGP-r NVGP-s	PANGO* PANG_A*	
Die A2 Steel	Round Shape	4WDDst-r 4WDDst-s	DOND00 DOND_0		4WEDst-r 4WEDst-s	DONEO DONE_O		4WFDst-r 4WFDst-s	DONFOO DONF_0		4WGDst-r 4WGDst-s	DONGOO DONG_0	
Stripper	Round Shape	NVDS-r NVDS-s	S6NDOA S6ND_A		NVES-r NVES-s	S6NEOA S6NE_A		NVFS-r NVFS-s	S6NFOA S6NF_A		NVGS-r NVGS-s	S6NGOA S6NG_A	
Set (Punch, Die, Stripper)	Round Shape	nvDPDSst-r nvDPDSst-s	N/A		nvBPDSst-r nvBPDSst-s	N/A		NVCPDSst-r NVCPDSst-s	N/A		NVGPDSst-r nvGPDSst-s	N/A	
Sleeve		*ANVSLD	NSVE		*ANVSLE	NSVB		*ANVSLF	NSVC		*ANVSLG	NSVG	
Springs		*ANVSPD	NBSA		*ANVSPE	NBSB		*ANVSPF	NBSC		*ANVSPG	NBSG	
Stripper Snap Ring		*AnvSSRD	NSSE		*AnvSSRE	NSSE		*ANVSSRF	NSSG		*AnvSSRG	NSSG	
Screw		*ANVSD	NFHG		*ANSE	NFGH		*ANSF	NFHG		*ANVSG	NFHG	



Marathon[®] Style Tooling for Murata Wiedemann

Marathon is a registered trade mark of Mate Precision. There is no affiliation between Mate Precision and C.E. Tooling

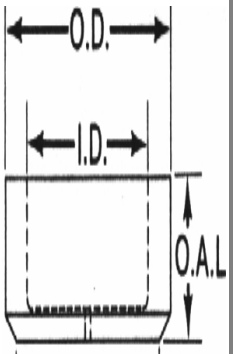
Due to patents, CE is limited to what we can supply for use with Marathon[®] style holders. We offer punches and dies but do not manufacture stripper plates or holder components. If a fitted stripper plate is needed for a special shape or cluster tool, CE will purchase a blank from Mate and modify it.

STA	Shape	PUNCH Mfg. with M2 Steel	C.E. Code	MATE REF CODE	Punch Price	Slug Trap™ DIE (A2 Steel)	CE Code 114 Dies	MATE REF CODE	Die Price	CE Code 112 Dies	MATE [®] REF CODE	Die Price
B .093-1.0	Round Shape		MABP-r	PAMBOA*		↓ 114 Dies ↓ 	4WBDstr	DOSBOO*		2WBDstr	DORBOF*	
			MABP-s	PAMB_A*			1.125	4WBDsts	DOSB_O*		2WBDst-	DORB_F*
C 1.001-1.5	Round Shape		MACP-r	PAMCOA*			4WCDstr	DOSCOO*		2WCDstr	DORCOF*	
			MACP-s	PAMC_A*			1.125	4WCDsts	DOSC_0*		2WCDst-	DORC_F*
D 1.501-2	Round Shape		MADP-r	PAMDOA*			4WDDstr	DOSDOO*		2WDDstr	DORDOF*	
			MADP-s	PAMD_A*			1.125	4WDDsts	DOSD_O*		2WDDst-	DORD_F*
E 2.001-2.5	Round Shape	MAEP-r	PAMEOA*			4WEDstr	DOSEOO*		2WEDstr	DORDEOF*		
		MAEP-s	PAME_A*			1.125	4WEDsts	DOSE_0*		2WEDst-	DORDE_F*	
F 2.501-3	Round Shape	MAFP-r	PAMFOA*			4WFDstr	DOSFOO*		2WFDstr	DORFOF*		
		MAFP-s	PAMF_A*			1.125	4WFDsts	DOSF_0*		2WFDst-	DORF_F*	
G-L	Call for pricing					For 112 See page 5 114 page 6						

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			"A" Sta. .54X1 1/4 X 1.7	*AU4WA1	
"C" STA. 1.49X2 1/2 X 2.15			"A" Sta. 1" X 1.8 X 1 3/4 Magnum	*AU4WA2	
"D" STA. 1.98" X 3" X 1 1/2			"X-B" .84X1.33X1.9 .4X.08slot	*AU4WX	
"D" Ribbed for slotting tool			"B" 1.06 X 1.8 X 1.73/2.42	*AU4WB	
"D" 1"=25mmSQ 95shore			"C" 1.75 X 2 1/2 X 2.15	*AU4WC	
Auto Index are always 95shore hardness			"D" 2" X 2 3/4 X 2.12	*AU4WD	
"D" Auto-Index 1.94/2.8/1.6			"D" Ribbed for Slotting Tool	*A4WDst	
"D" Auto-Index 1" /2mm SQ			"D" Ribbed for 1"/25m SQ	*AU4WDsq	
"E" C=C2.8 3.08X4.2X1.5			"E/F" STA. 3" X 3 3/4 X 2.12	*AU4WEF	
"E" Ribbed for slotting tool			"E/F" Ribbed for slotting tool	*AU4WEFst	
"F" C=3.3 3.08 X 4.2 X 1.5			"F" Ribbed for 2" / 50m sq	*AU4WFsq	
"F" Ribbed for slotting tool			"G/H/J" 4.37 X 5" X 2.15	*AU4WGHJ	
"F" Ribbed for 2"/50m SQ			"G/H/J" Ribbed for slotting	*AU4WGHJst	
"G" 3.48 X 4.75 X 1.5			"G/H/J" Ribbed for 2"/50m	*AU4W GHJsq	
"G" Slotting Tool			"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	

EAR TYPE: WIEDEMANN RA41P/S15/A15
DI-ACRO: 15TON/20NC/VT36/VT19/3620 *212 only
BEHRENS: 22TON/PANTOGRAPH/NC1518 NC2532/NC2524/25 Ton

"B" E-1 1/2id X 1 1/4 X 1"	*AUS41	
"B" E-1 3/4id X 1 1/4 X 1"	*AUS42	
"C" E-4 1id X 1 1/2 X 1.18	*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

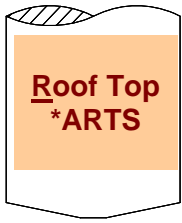
"B" Sta. E-3 1"X2"X1.18	*AUS58	
-------------------------	--------	--

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	

OPTIONAL PUNCH SHEARS

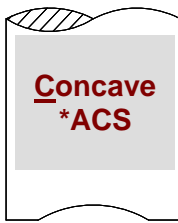
SHEARS Should be Considered for All DIAGONAL DIMENSIONS Over 2"/50.8mm
And a Minimum Width of .375(9.53MM)



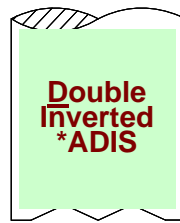
Roof Top
*ARTS



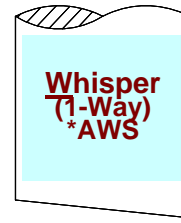
Inverted
*AIS



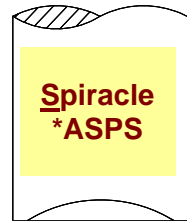
Concave
*ACS



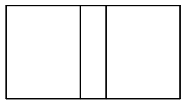
Double Inverted
*ADIS



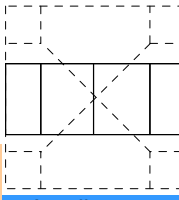
Whisper
(1-Way)
*AWS



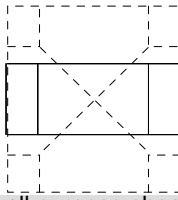
Spiracle
*ASPS



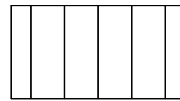
Best all purpose shear for reducing tonnage requirement Nibbling must be performed at 75% of punch size to avoid side loading.



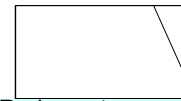
An all purpose shear. Ideal for nibbling.



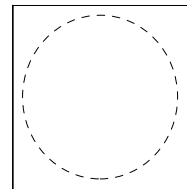
An all purpose shear. Ideal for nibbling. Used over Inverted Shear when punching heavy plate.



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

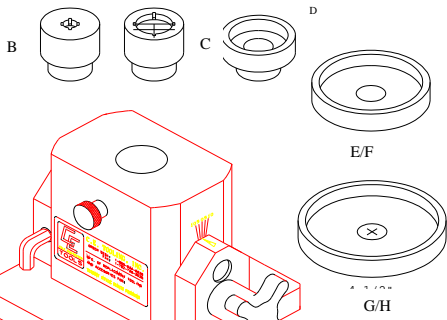


Reduces tonnage requirements while reducing slug deformation. **Requires a very Ridged Press.**

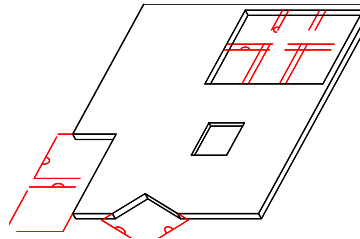


Ideal for rounds or squares < 1.18 30.m. Lessons tool side loading "Easy to sharpen"!

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.

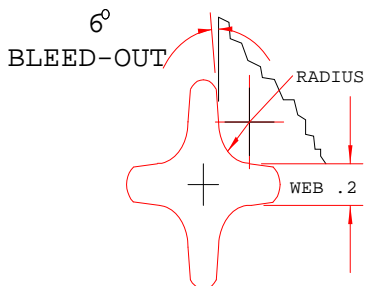
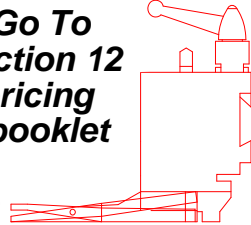


These items are being phased out. Please call to confirm pricing and availability.

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.

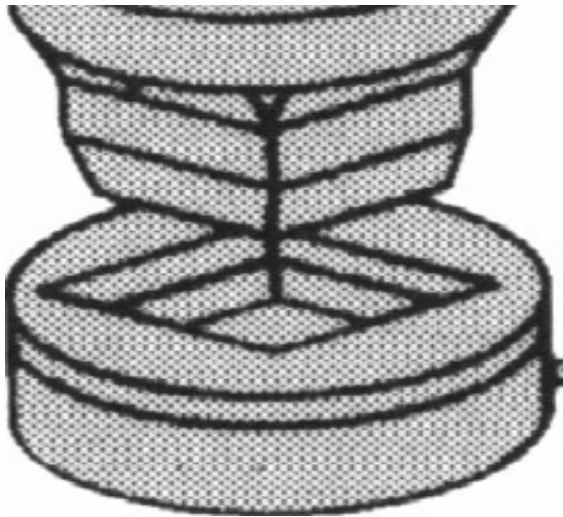
Ex. 1-1/8 sq. with 1.875 Body, 3.406 long, 5 w-keys

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.



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	

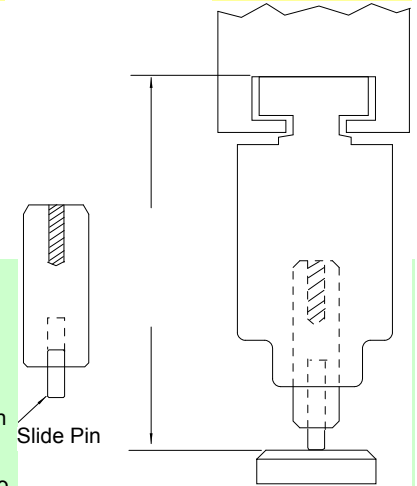
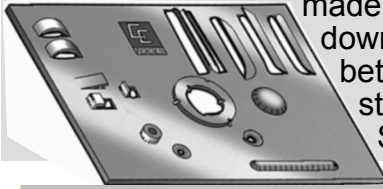
When using your tooling regardless of shape, always make sure your turret is aligned properly to avoid mis-hitting and damaging either punch, die or both, Increase your tool life and productivity with C E Tooling Alignment Tools for your press!

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.



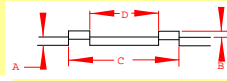
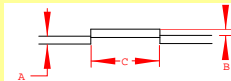
ELECTRICAL KNOCK OUTS

SINGLE

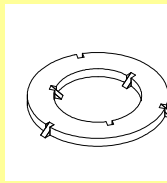
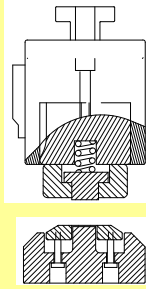
SP-60

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

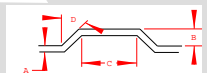
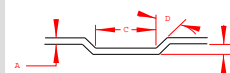


CE offers a punch to easily measure a machines shut height

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.

EMBOSS SHAPED

Form ROUND OR



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

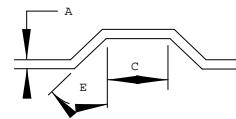
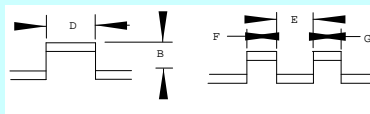
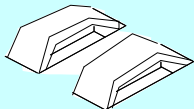
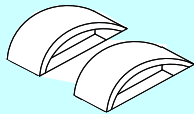
D >= 45° DIE w/No Stripper
Quick-Set™ Punch and Die Cat.
Code *FAT_PD-U63

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

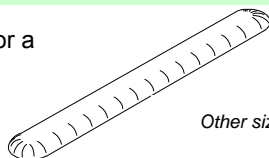
BRIDGE TOOL

SINGLE Sp-65

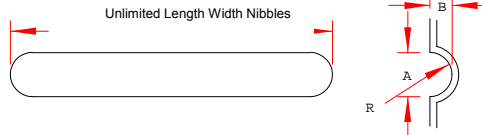


PROGRESSIVE STIFFENING RIB

Punch is made for a specific material

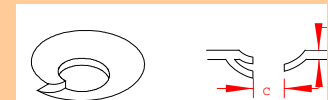
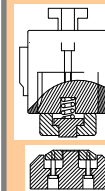


Other sizes available



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

THREAD FORM DOWN ONLY



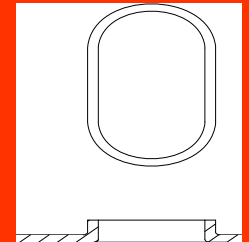
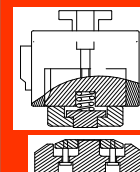
Replaceable Top Inserts *FIP81 Bottom *FID81
Ordering Notes:
Order by Screw & Thread size
Limitations Thread Pitch must be < than material thickness.
Contact C.E. Tooling Engineers with your specific needs, and they can discuss the feasibility and pricing for Thread

GROUND SYMBOL

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

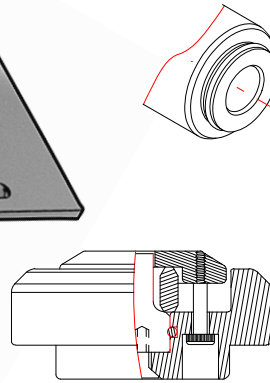
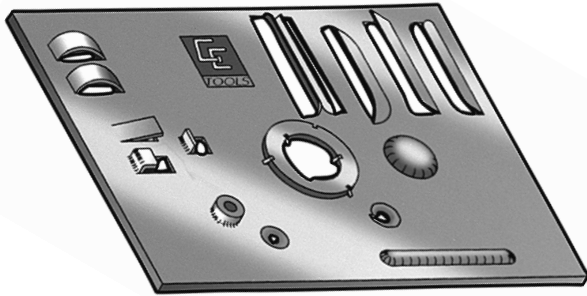
	DOWN Sta. B Punch & Die		UP Sta. D Punch & Die
	DOWN Sta. B Punch & Die		UP Sta. D Punch & Die

EXTRUSION

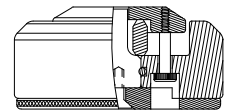
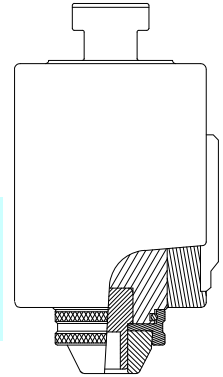


SAVE! MASTER PUNCH & DIE, Accepts Inserts to Perform Multiple Applications

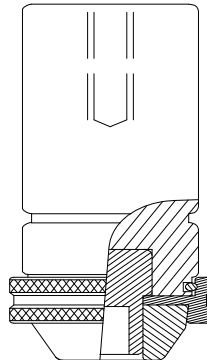
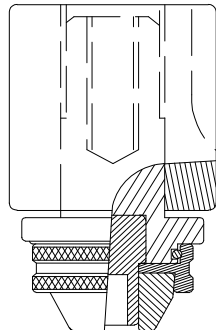
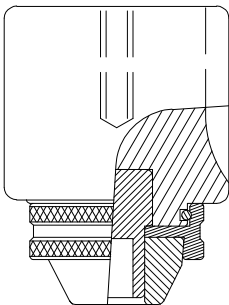
Superior Engineering from C.E. Tooling doesn't just mean Superior Products and Higher Productivity. With C.E., it also means Higher Tool Value.



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")

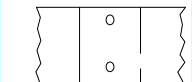
Helpful information is found in our Technical Reference Booklet: *Section 1 page 19-22*

HALF SHEAR

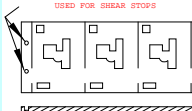
FORM DOWN OR FORM UP

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)

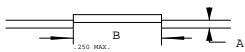
TWO HALF SHEARS USEL FOR ALIGNING TWO SHEETS



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

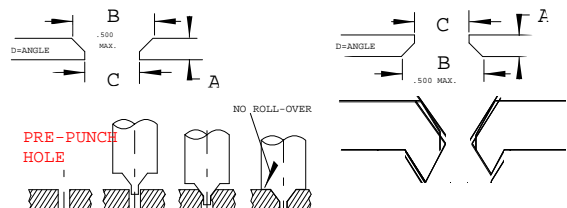
Replaceable Insert
 Top *FIP58
 Bottom *FID53
 Delivery 2-5 days

EXTRUSIONS



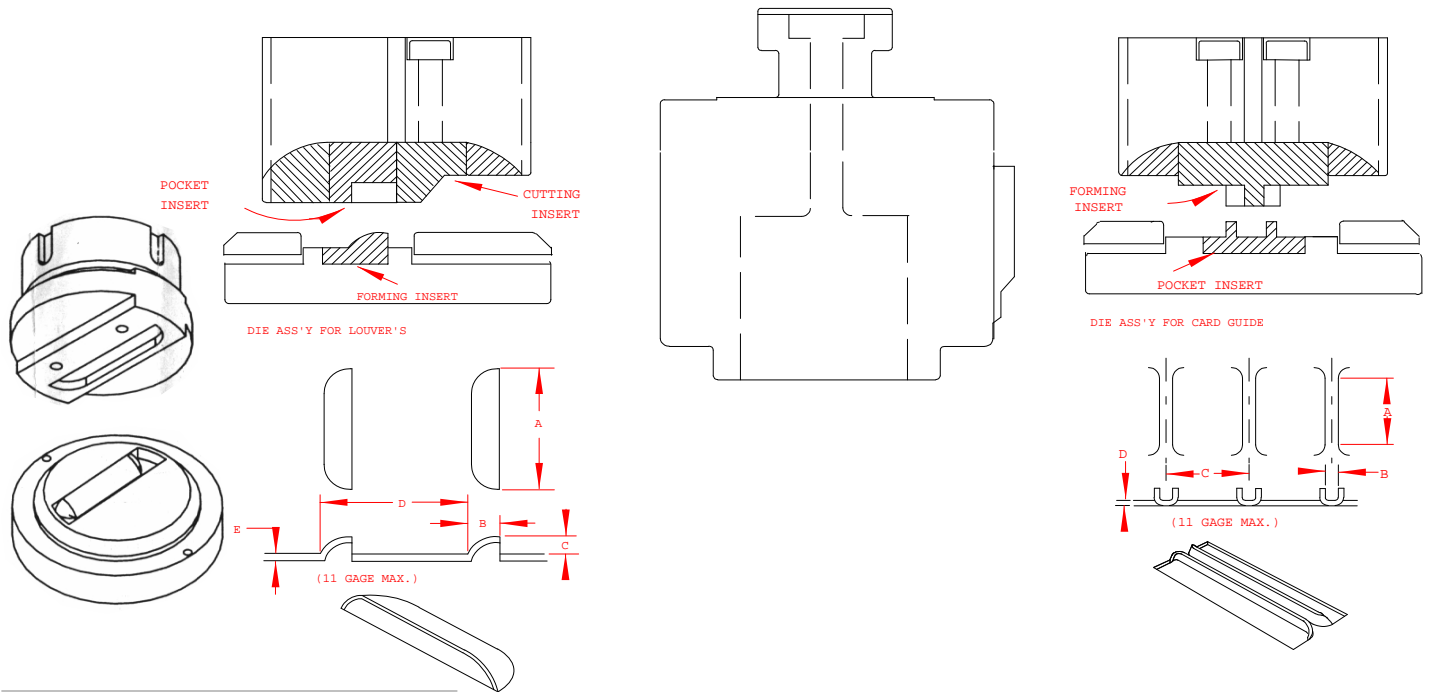
COINING /Counter Sink

Down *FIP56 Up *FIP58 & *FID58



LOUVER & CARD GUIDE TOOLS

HIGHER PRODUCTIVITY THROUGH SUPERIOR ENGINEERING

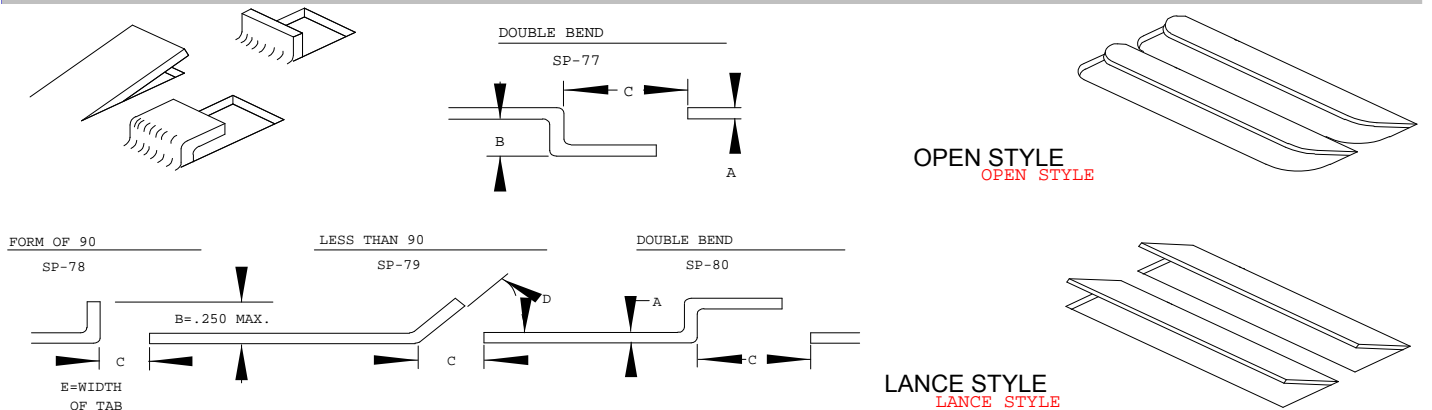


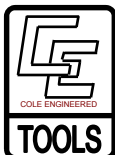
STANDARD LOUVER SIZES			
"A" LENGTH	"B"	"C"	"D"
2"	1/2"	3/16"	3/4"
3"	5/8"	1/4"	15/16"
4"	3/4"	1/4"	1-1/8"

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.

REPLACEABLE CHARACTER STAMPS 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	

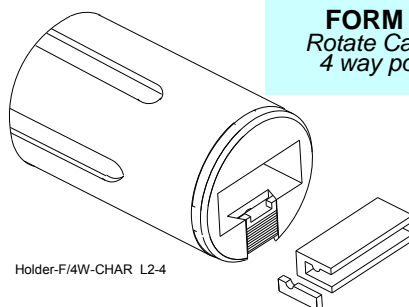
**Sta.E
Single
Row**

	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	

**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	

D sta. Is solid type, no replaceable cartridge



FORM DOWN
Rotate Cartridge for 4 way positioning

Accessories:

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

**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**

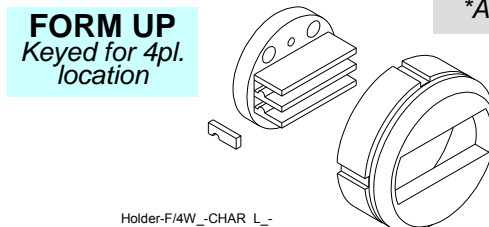
	Catalog	Price	Catalog	Price
SET	*F4WG-SSU		*F4WG-SSD	
PUNCH	*F4WG-PSU		*F4WG-PSD	
Cartridge	*F4WGDCD		*F4WG-CS	
Die Com-	*F4WG-SDU		ASD-D-s-0	
Character Width	1/16	1/8	3/16	
Qty Per Row	48	24	16	
	1/16	1/8	3/16	
	50	25	16	

**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	

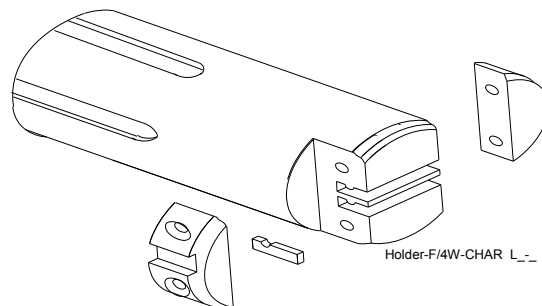
**Sta.H
Double
Row**

	Catalog	Price	Catalog	Price
SET	*F4WH-SSU	\$833.	*F4WE-SSD	
PUNCH	*F4WH-PSU	\$120.	*F4WH-PSD	
Cartridge	*F4WHdCS	700.	*F4WH-CS	
Die	*F4WH-SDU	\$763.	4WH-D-r	
Character	1/16	1/8	3/16	
Qty Per	60	30	20	
	1/16	1/8	3/16	
	60	30	20	



FORM UP
Keyed for 4pl. location

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





117 (old 112) Style Tools

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

C.E. TOOLING, INC. This is a non standard product line. Call For Delivery Times!

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.

The offering of Punch inserts & Sleeves for sizes less than .344 has been discontinued. 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	Punch & Die Cat. Code	Punch & Die Price
A .032-.625	ROUND	.625" Shank 1 7/16 long, not including center point	7WA5Pr		7WADr .625 7WADr	7WADr 2WADr		7WAPDr 72APDr	
	SHAPE		7WA5Ps		2WADr 1.062 2WADs	7WADs 2WADs		7WAPDs 72APDs	
B .626-1.000	ROUND	.625" Shank x.937 .19-.43/5°	7WBP-r		1.562 7WBD-r	7WBD-r		7WBPD-r	
	SHAPE	1 7/16 long W/ center	7WBP-s		.60 7WBD-s	7WBD-s		7WBPD-s	
Cx 1.001-1.250	ROUND	.625" Shank x.937 .19-.43/5° 1 7/16 long	7WXP-r		1.687 7WXD-r	7WXD-r		7WXPDr	
	SHAPE		7WXP-s		.60 7WXD-s	7WXD-s		7WXPDS	
Cy 1.001-1.500	ROUND	.8125" Shank X.937 .19-.43/5° 1 7/16 long	7WYP-r		2.250 7WCD-r	7WCD-r		7WYPD-r	
	SHAPE		7WXP-s		5° flat 7WCD-s	7WCD-s		7WXPDS	
C-spec 1.001-1.500	ROUND	.937" Shank x.94 .19-.43/5°	7WCP-r		2.250 7WCD-r	7WCD-r		7WCPDr	
	SHAPE	1 7/16 long W/ Center	7WCP-s		5° flat 7WCD-s	7WCD-s		7WCPDS	
D 1.501-2.000	ROUND	1.500" Shank x5/8 2-.344C.BX.7, "BP 1 7/16 length	7WDP-r		2.750 7WDD-r	7WDD-r		7WDPDr	
	SHAPE		7WDP-s		5° flat 7WDD-s	7WDD-s		7WDPDS	
QQQQ 2.001-2.500	ROUND	2.000" Shank x5/8 2-.344C.BX.7, "BP 1 7/16 length	7WEP-r		3.000 7WED-r	7WED-r		7WEPDr	
	SHAPE		7WEP-s		5° flat 7WED-s	7WED-s		7WEPDS	
F 2.501-3"	Round	Removable Center	7WFP-r		4.000 7WFD-r	7WFD-r		7WFPD	

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

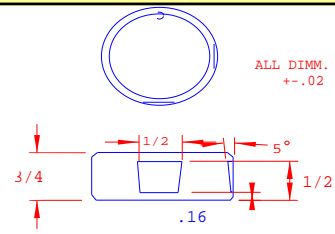
Add 25% to set price for Clearance of .003 (.08mm) & under!

Add 50% to die price for Solid Dies.

5° Locking Flats
 Shapes 2 places @ 90 Degrees,
 Rounds 1 place

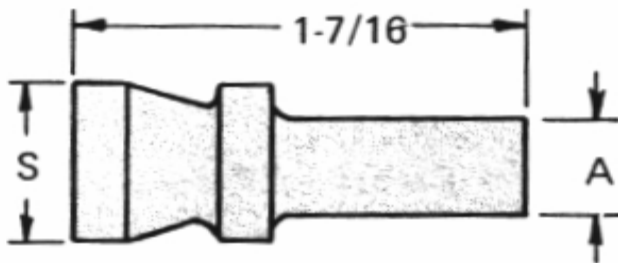
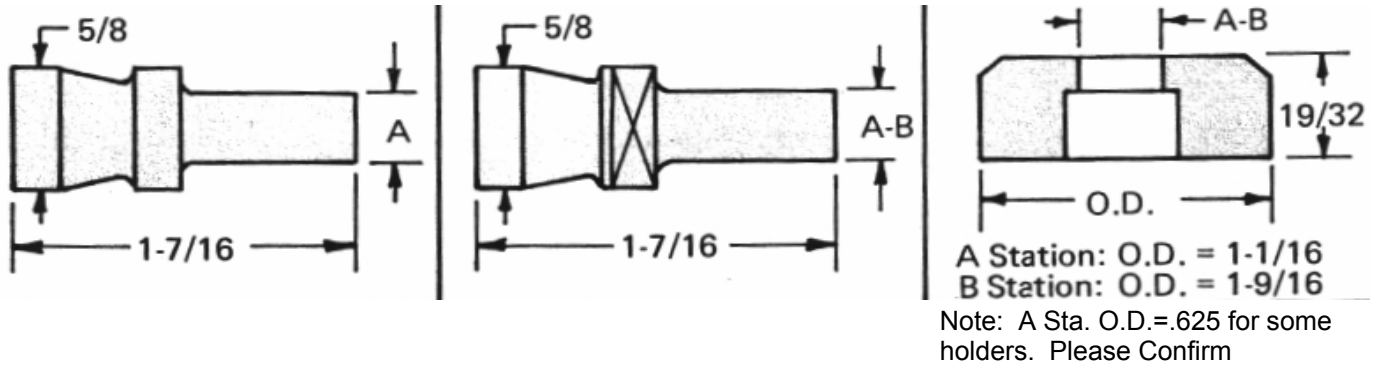
EXTRA PINS OR KEYS				
45° Increments			Other than 45° Inc.	
STA.	PUNCH	DIE	PUNCH	DIE
A-C			N/A	
D-E	N/A	0	N/A	

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



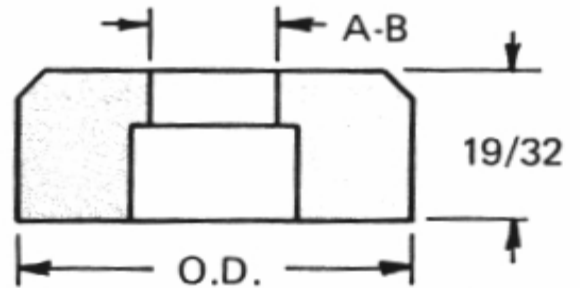
117 (old 112) Style Tools

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



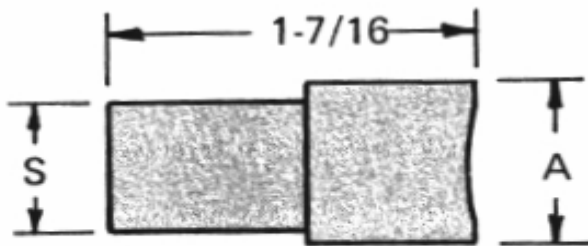
Cx Station: S = 5/8
 Cy Station: S = 13/16

We have also found C Station S=15/16

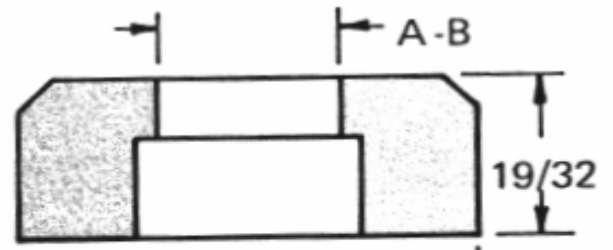


Cx Station: O.D. = 1-11/16
 Cy Station: O.D. = 2-1/4

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



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

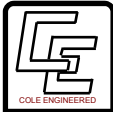


D Station: O.D. = 2-3/4
 E Station: O.D. = 3"

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=.203Øpin, 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

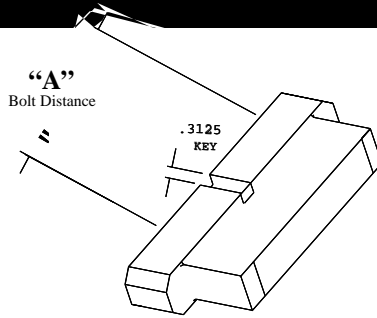
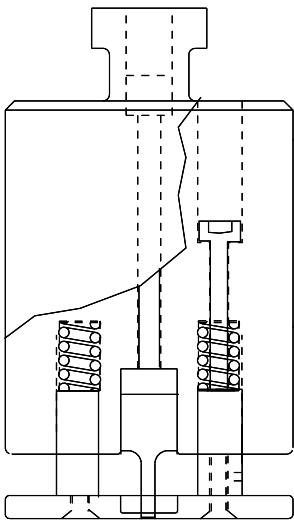


Mate® Style GUIDED SHEARING PUNCH

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



HOLDER COST
 C.E. only Produced Complete Units for Certain Machine Models & Stations. Contact our order desk to see if we have units for your machine.

REPLACEMENT INSERT BLADE

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

VARI TOOL PUNCHES & DIES FOR MURATA, WIEDEMANN, C-2000 & C-3000 PUNCH PRESSES

6-Sta. VARI TOOL Range .032-1.000 (8-25,4)					12-Sta. VARI TOOL Range .032-.500 (8-25,4)				
	DESCRIPTION.	C.E. CODE	REF. MATE®	PRICE		DESCRIPTION.	C.E. CODE	REF. MATE®	PRICE
	PUNCH ROUND	VGP-R	POVWO			PUNCH ROUND	V12P-R	DOVTOA	
	DIE ROUND	VGD-R	DOVWO O			DIE ROUND	V12D-R	DOVT00	
	PUNCH RECTANGLE	VGP-S	POVW1A			PUNCH RECTANGLE	V12P-S	DOVT1A	
	DIE RECTANGLE	VGP-R	DOVW10			DIE RECTANGLE	V12P-S	DOVT10	
	PUNCH OBROUND	VGP-S	POVW2A			PUNCH OBROUND	V12P-S	POVT2A	
	DIE OBROUND	VGP-R	POVW20			DIE OBROUND	V12P-S	DOVT20	
	PUNCH SQUARE	VGP-S	POVW3A			PUNCH SQUARE	V12P-S	POVT3A	
	DIE SQUARE	VGP-R	DOVW30			DIE SQUARE	V12P-S	DOVT30	

ENSURE YOUR TOOLS ARE SHARPENED PROPERLY

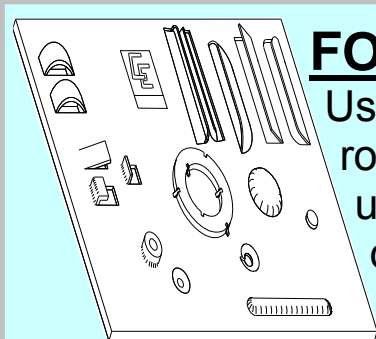
If facilities aren't available to properly care for your tooling, CE offers it's customers a tool sharpening service at low rates.

Generally a 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 primary goal of this service is to assure long term

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 gauge mild steel

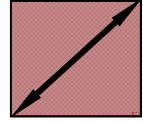
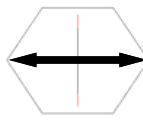
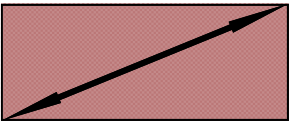
Fractional Unit: Cat. Code *E-RK1002
 1/16, 1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2

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 on sheet stock up to 13 gauge mild steel. Precision, self-aligning punches and dies make 30 second changeover common.

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





Diagonals of Common Square, Rectangles and Hexagons

	0.125	0.156	0.187	0.218	0.250	0.281	0.312	0.343	0.375	0.406	0.437	0.469	0.500			
.125	0.177	0.200	0.225	0.252	0.280	0.308	0.337	0.366	0.395	0.425	0.455	0.485	0.515			
.156	0.200	0.221	0.244	0.269	0.295	0.322	0.349	0.378	0.406	0.435	0.465	0.494	0.524			
.187	0.225	0.244	0.265	0.228	0.313	0.338	0.364	0.391	0.419	0.447	0.476	0.505	0.534			
.218	0.252	0.269	0.288	0.309	0.332	0.356	0.381	0.407	0.434	0.461	0.489	0.517	0.546			
.250	0.280	0.295	0.313	0.332	0.354	0.376	0.400	0.425	0.451	0.477	0.504	0.531	0.559			
.281	0.308	0.322	0.338	0.356	0.376	0.398	0.420	0.444	0.469	0.494	0.520	0.547	0.574			
.312	0.337	0.349	0.364	0.381	0.400	0.420	0.442	0.465	0.488	0.513	0.538	0.563	0.590			
.343	0.366	0.378	0.391	0.407	0.425	0.444	0.465	0.486	0.509	0.532	0.556	0.581	0.607			
.375	0.395	0.406	0.419	0.434	0.451	0.469	0.488	0.509	0.530	0.553	0.576	0.600	0.644			
.406	0.425	0.435	0.447	0.461	0.477	0.494	0.513	0.532	0.553	0.575	0.597	0.620	0.644			
.437	0.455	0.465	0.476	0.489	0.504	0.520	0.538	0.556	0.576	0.597	0.619	0.641	0.664			
.469	0.485	0.494	0.505	0.517	0.531	0.547	0.563	0.581	0.600	0.620	0.641	0.663	0.685			
.500	0.515	0.524	0.534	0.546	0.559	0.574	0.590	0.607	0.625	0.644	0.664	0.685	0.707			

	0.531	0.562	0.593	0.625	0.656	0.687	0.718	0.750	0.781	0.812	0.843	0.875	0.906	0.937	0.968	1.000
.125	0.546	0.576	0.607	0.657	0.668	0.699	0.730	0.760	0.791	0.822	0.853	0.884	0.915	0.946	0.977	1.008
.156	0.554	0.584	0.614	0.644	0.675	0.705	0.736	0.766	0.797	0.827	0.858	0.889	0.920	0.950	0.981	1.012
.187	0.563	0.593	0.623	0.653	0.683	0.713	0.743	0.773	0.803	0.834	0.864	0.895	0.925	0.956	0.987	1.017
.218	0.575	0.604	0.633	0.662	0.692	0.722	0.751	0.781	0.811	0.841	0.872	0.902	0.932	0.963	0.993	1.024
.250	0.587	0.616	0.644	0.673	0.702	0.732	0.761	0.791	0.820	0.850	0.880	0.910	0.940	0.970	1.000	1.031
.281	0.601	0.629	0.657	0.685	0.714	0.743	0.772	0.801	0.830	0.860	0.889	0.919	0.949	0.979	1.009	1.039
.312	0.616	0.643	0.671	0.699	0.727	0.755	0.784	0.813	0.841	0.871	0.900	0.929	0.959	0.988	1.018	1.048
.343	0.633	0.659	0.686	0.713	0.741	0.769	0.797	0.825	0.854	0.882	0.911	0.940	0.969	0.999	1.028	1.057
.375	0.650	0.676	0.702	0.729	0.756	0.783	0.811	0.839	0.867	0.895	0.923	0.952	0.981	1.010	1.039	1.068
.406	0.669	0.694	0.719	0.745	0.772	0.799	0.826	0.853	0.881	0.909	0.936	0.965	0.993	1.022	1.051	1.079
.437	0.688	0.713	0.738	0.763	0.789	0.815	0.841	0.868	0.895	0.923	0.950	0.978	1.006	1.035	1.063	1.092
.469	0.709	0.732	0.737	0.781	0.806	0.832	0.858	0.884	0.911	0.938	0.965	0.993	1.020	1.048	1.076	1.104
.500	0.730	0.753	0.776	0.800	0.825	0.850	0.876	0.901	0.928	0.954	0.981	1.008	1.035	1.063	1.090	1.118

	0.531	0.562	0.593	0.625	0.656	0.687	0.718	0.750	0.781	0.812	0.843	0.875	0.906	0.937	0.968	1.000
.531	0.751	0.774	0.797	0.820	0.844	0.869	0.894	0.919	0.945	0.971	0.997	1.024	1.051	1.078	1.105	1.132
.562	0.774	0.796	0.818	0.841	0.864	0.888	0.913	0.938	0.963	0.988	1.014	1.040	1.067	1.093	1.120	1.147
.593	0.797	0.818	0.840	0.862	0.885	0.908	0.932	0.957	0.981	1.006	1.032	1.057	1.083	1.110	1.136	1.163
.625	0.820	0.841	0.862	0.884	0.906	0.929	0.953	0.976	1.001	1.025	1.050	1.075	1.101	1.127	1.153	1.179
.656	0.844	0.864	0.885	0.906	0.928	0.950	0.973	0.997	1.020	1.044	1.069	1.094	1.119	1.144	1.170	1.196
.687	0.869	0.888	0.908	0.929	0.950	0.972	0.995	1.017	1.041	1.064	1.088	1.113	1.138	1.163	1.188	1.214
.718	0.894	0.913	0.932	0.953	0.973	0.995	1.016	1.039	1.062	1.085	1.108	1.132	1.157	1.181	1.206	1.232
.750	0.919	0.938	0.957	0.976	0.997	1.017	1.039	1.061	1.083	1.106	1.129	1.152	1.176	1.201	1.225	1.250
.781	0.945	0.963	0.981	1.001	1.020	1.041	1.062	1.083	1.105	1.127	1.150	1.173	1.197	1.220	1.245	1.269
.812	0.971	0.988	1.006	1.025	1.044	1.064	1.085	1.106	1.127	1.149	1.171	1.194	1.217	1.241	1.264	1.288
.843	0.997	1.014	1.032	1.050	1.069	1.088	1.108	1.129	1.150	1.171	1.193	1.216	1.238	1.261	1.285	1.308
.875	1.024	1.040	1.057	1.075	1.094	1.113	1.132	1.152	1.173	1.194	1.216	1.237	1.260	1.282	1.305	1.329
.906	1.051	1.067	1.083	1.101	1.119	1.138	1.157	1.176	1.197	1.217	1.238	1.260	1.282	1.304	1.327	1.350
.937	1.078	1.093	1.110	1.127	1.144	1.163	1.181	1.201	1.220	1.241	1.261	1.282	1.304	1.326	1.348	1.371
.968	1.105	1.120	1.136	1.153	1.170	1.188	1.206	1.225	1.245	1.264	1.285	1.305	1.327	1.348	1.370	1.392
1.000	1.132	1.147	1.163	1.179	1.196	1.214	1.232	1.250	1.269	1.288	1.308	1.329	1.350	1.371	1.392	1.414

	1.031	1.062	1.093	1.125	1.156	1.187	1.218	1.250	1.281	1.312	1.343	1.375	1.406	1.437	1.468	1.500
.125	1.039	1.070	1.101	1.132	1.163	1.194	1.225	1.256	1.287	1.318	1.350	1.381	1.412	1.443	1.474	1.505
.156	1.043	1.074	1.105	1.136	1.167	1.198	1.229	1.297	1.291	1.322	1.353	1.384	1.415	1.446	1.477	1.508
.187	1.048	1.079	1.110	1.149	1.171	1.202	1.233	1.264	1.295	1.326	1.357	1.388	1.419	1.450	1.479	1.512
.218	1.054	1.085	1.115	1.146	1.177	1.208	1.238	1.269	1.300	1.331	1.361	1.392	1.423	1.454	1.485	1.516
.250	1.061	1.092	1.122	1.152	1.183	1.214	1.244	1.275	1.305	1.336	1.367	1.398	1.428	1.459	1.490	1.521
.281	1.069	1.099	1.129	1.160	1.190	1.220	1.251	1.281	1.312	1.342	1.373	1.403	1.434	1.465	1.495	1.526
.312	1.078	1.108	1.138	1.168	1.198	1.228	1.285	1.288	1.319	1.349	1.380	1.410	1.441	1.471	1.502	1.532
.343	1.087	1.117	1.146	1.176	1.206	1.236	1.266	1.296	1.327	1.357	1.387	1.417	1.448	1.478	1.508	1.539
.375	1.097	1.127	1.156	1.186	1.216	1.245	1.275	1.305	1.335	1.365	1.395	1.425	1.455	1.486	1.516	1.546
.406	1.108	1.138	1.180	1.196	1.226	1.255	1.285	1.314	1.344	1.374	1.404	1.434	1.464	1.494	1.524	1.554
.437	1.120	1.149	1.178	1.207	1.236	1.266	1.295	1.324	1.354	1.384	1.413	1.443	1.473	1.503	1.533	1.563
.469	1.131	1.161	1.190	1.219	1.248	1.277	1.306	1.335	1.364	1.394	1.423	1.453	1.482	1.512	1.542	1.572
.500	1.146	1.174	1.203	1.231	1.260	1.288	1.317	1.346	1.375	1.405	1.434	1.463	1.492	1.522	1.552	1.581

	1.031	1.062	1.093	1.125	1.156	1.187	1.218	1.250	1.281	1.312	1.343	1.375	1.406	1.437	1.468	1.500
.531	1.160	1.188	1.216	1.244	1.272	1.301	1.329	1.358	1.387	1.416	1.445	1.476	1.503	1.533	1.562	1.591
.562	1.175	1.202	1.230	1.258	1.286	1.314	1.342	1.371	1.399	1.428	1.457	1.486	1.515	1.544	1.573	1.602
.593	1.190	1.217	1.244	1.272	1.300	1.328	1.356	1.384	1.412	1.441	1.472	1.498	1.526	1.555	1.584	1.613
.625	1.206	1.233	1.260	1.287	1.314	1.342	1.370	1.398	1.426	1.454	1.482	1.510	1.539	1.568	1.596	1.625
.656	1.222	1.249	1.275	1.302	1.329	1.357	1.384	1.412	1.440	1.467	1.495	1.524	1.552	1.580	1.609	1.637
.687	1.239	1.266	1.292	1.318	1.345	1.372	1.399	1.427	1.454	1.482	1.509	1.537	1.565	1.593	1.622	1.650
.718	1.257	1.283	1.309	1.335	1.361	1.388	1.415	1.442	1.469	1.496	1.524	1.552	1.579	1.607	1.635	1.663
.750	1.275	1.301	1.326	1.352	1.378	1.405	1.431	1.458	1.485	1.512	1.539	1.566	1.594	1.621	1.649	1.677
.781	1.294	1.319	1.344	1.370	1.395	1.421	1.448	1.474	1.500	1.527	1.554	1.581	1.609	1.636	1.664	1.691
.812	1.313	1.338	1.363	1.388	1.413	1.439	1.465	1.491	1.517	1.544	1.570	1.597	1.624	1.651	1.679	1.706
.843	1.332	1.357	1.381	1.406	1.431	1.454	1.482	1.508	1.534	1.560	1.587	1.613	1.640	1.667	1.694	1.721
.875	1.352	1.376	1.401	1.425	1.450	1.472	1.500	1.526	1.552	1.577	1.604	1.630	1.656	1.683	1.710	1.737
.906	1.391	1.415	1.438	1.462	1.486	1.511	1.535	1.560	1.585	1.611	1.636	1.662	1.688	1.714	1.740	1.767
.937	1.394	1.417	1.441	1.464	1.489	1.513	1.538	1.563	1.588	1.613	1.638	1.664	1.690	1.690	1.742	1.769
.968	1.415	1.438	1.461	1.485	1.523	1.533	1.557	1.581	1.606	1.631	1.657	1.682	1.708	1.733	1.759	1.786
1.000	1.436	1.459	1.482	1.505	1.529	1.553	1.577	1.601	1.625	1.650	1.675	1.700	1.726	1.751	1.777	1.803

	1.031	1.062	1.093	1.125	1.156	1.187	1.218	1.250	1.281	1.312	1.343	1.375	1.406	1.437	1.468	1.500
1.031	1.458	1.481	1.503	1.526	1.549	1.573	1.596	1.620	1.645	1.669	1.694	1.719	1.744	1.769	1.795	1.820
1.062	1.481	1.503	1.525	1.547	1.568	1.593	1.617	1.641	1.664	1.689	1.713	1.739	1.763	1.788	1.813	1.838
1.093	1.503	1.525	1.547	1.569	1.592	1.614	1.638	1.661	1.687	1.709	1.733	1.759	1.781	1.806	1.831	1.856
1.125	1.526	1.547	1.569	1.591	1.613	1.636	1.659	1.682	1.705	1.729	1.753	1.778	1.801	1.825	1.848	1.875
1.156	1.549	1.568	1.592	1.613	1.635	1.657	1.680	1.702	1.726	1.749	1.773	1.797	1.821	1.845	1.869	1.894
1.187	1.573	1.593	1.614	1.636	1.657	1.679	1.703	1.724	1.747	1.770	1.793	1.817	1.841	1.865	1.889	1.913
1.218	1.596	1.617	1.638	1.659	1.680	1.702	1.724	1.746	1.768	1.791	1.814	1.837	1.861	1.885	1.909	1.933
1.250	1.620	1.641	1.661	1.682	1.703	1.724	1.746	1.768	1.790	1.813	1.835	1.858	1.882	1.905	1.929	1.953
1.281	1.645	1.664	1.685	1.705	1.726	1.747	1.768	1.790	1.812	1.834	1.857	1.879	1.902	1.926	1.949	1.973
1.312	1.669	1.689	1.709	1.729	1.749	1.770	1.791	1.813	1.834	1.856	1.878	1.901	1.922	1.947	1.968	1.993
1.343	1.694	1.713	1.733	1.753	1.773	1.793	1.814	1.835	1.857	1.878	1.900	1.923	1.945	1.968	1.991	2.014
1.375	1.719	1.739	1.759	1.778	1.797	1.817	1.837	1.858	1.879	1.901	1.923	1.945	1.967	1.989	2.012	2.035
1.406	1.744	1.763	1.787	1.801	1.821	1.841	1.861	1.882	1.902	1.924	1.945	1.967	1.989	2.010	2.033	2.056
1.437	1.769	1.788	1.806	1.825	1.845	1.865	1.885	1.905	1.926	1.947	1.968	1.989	2.010	2.033	2.054	2.078
1.468	1.795	1.813	1.831	1.848	1.869	1.889	1.909	1.929	1.949	1.968	1.991	2.012	2.033	2.054	2.077	2.099
1.500	1.820	1.838	1.856	1.875	1.894	1.913	1.933	1.953	1.973	1.993	2.014	2.035	2.056	2.078	2.099	2.121

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**

Die-Set, Brake Press, Iron Worker, Shears, C-Frame, Tube&Pipe

Specializing in tooling and machine parts for:

**Amada, Behrens, Boschert, Chassis Maker, Di-Acro[®],
Ehrt, Euromach, Finnpower, Haco, Murata Wiedemann,
Nisshinbo, Omes, Pullmax, Rainer, Roper Whitney,
Salvagnini, Simasv, Strippit[®], Trumpf, Raskin, W.A. Whitney
and similar presses**



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

sales@cetooling.com

Tel. 702 736-2598

www.cetooling.com

Fax 702 736-3038



LOCAL SALES REPRESENTATIVE
DISTRIBUTORS

