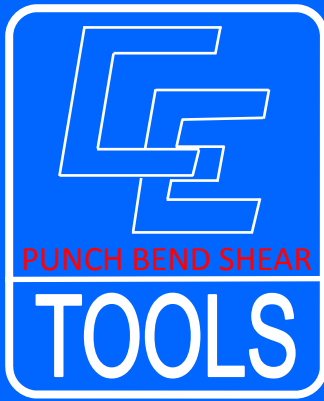




CE TOOLING

Section

3.7

See Section 1 For Technical Information



EUROMAC

(AT/TR/MT) TOOLING



Slug Ejectors

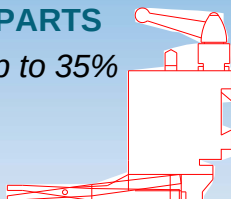
By default holes are placed in punch tip sizes $>.270"/6.86\text{mm}$

EJECTOR For Hole Size	Clover 	Square AT,AS,ST 
.078/2mm		N/A
.109/3mm	*AEJ-C3	*AEJ-S3 24pc
6mm-.25"	*AEJ-C6	*AEJ-S6 24pc
.394/10mm	*AEJC10	*AEJ-S10 24pc
.594/15mm		*AEJ-S6 24pc

WORK HOLDER PARTS



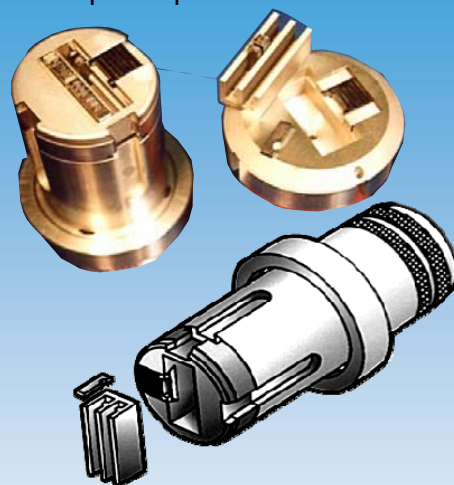
Save! up to 35%



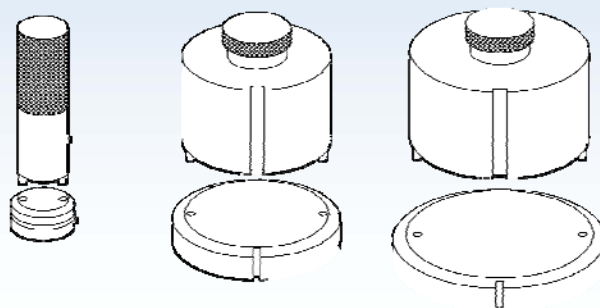
KEYS:
Turret-Guides

Character Marking

Accepts Replaceable Inserts.



ALIGNMENT TOOLS



Dwg:\cnc-jobp\ALN-TOOL.2d

Station Adapters Thick Turret



To Use	Description	Part#	Price
A in B	Punch	ATB-PA	
A in B	Die	ATB-DA	

1/2" Sta. A keyed	ATA-ALIGN-PD	
1/2" A non-keyed	ATA-ALIGN-PD2	
Not shown, used with keyed unit, to align multi-3 die holder. Place keyed unit in outer position and non-keyed in inner position.		
1-1/4 Sta. B	ATB-ALIGN-PD	
2-1/2 Sta. C	ATC-ALIGN-PD	
3-1/2 Sta. D	ATD-ALIGN-PD	
4- 1/2" Sta. E	ATE-ALIGN-PD	



EUROMAC BX Model Thick or Trumpf style tools. Option: MTE 4, 6 or 10

EUROMAC MTX PUNCHING MACHINE

MTX Technical features:

- **Rigid monobloc C-frame** in normalized meehanite nodular iron with 650N/mm² of resistance, with easy access from three sides for processing standard sheets and material of special size and shape
- **Innovative 5 station center** with automatic tool change up to 50 tools (patent pending)
- Each station can be equipped with single thick turret tools (dimensions A, B, C, D) or with **Multitools MTE 4 - 6 - 10** (patent no. CE 0875310) to finish the workpiece in one programme and in one set up

EUROMAC ZX PUNCHING MACHINE

ZX Technical Features:

- **Rigid monobloc C-frame** in normalized meehanite nodular iron with 650N/mm² of resistance, with easy access from three sides for processing standard sheets and material of special size and shape
- **Up to 720 strokes per minute** in nibbling mode
- **Easy, fast and efficient programming** with Euromac's own intuitive **CNC**
- **Multitasking:** production continues while you make a new program
- **Automatic setting of the clamps** before starting a programme (patent pending)



ULTRA-Tec™ STYLE TOOLS

Also for use in Quick-Hit Standard, ABS & Euromac MTE4

Ultra Style A/B HOLDERS		
Description	Part Code	Price
A Holder		
Driver Ass'y	ATADAU	
Guide K0 & 90	ATAGU1	
Guide K0 & 45	ATAGU2	
B Holder		
Driver Ass'y	ATBDAU	
Guide K0 & 90	ATBGU1	
Guide K0 & 45	ATBGU2	



	Description	Part#	Price
A STATION	Sta. A Punch		US-\$
	Sta. A Round	ATAPur	
	Sta. A Shape	ATAPus	
	STRIPPER		
	Round	ATASur	
	Shape	ATASus	
	DIE w/Slug Feature		
	Round	ATADmstr	
	Shape	ATADmsts	
	Shim 3pc .4, .8, 1.2	*AATADS	
B STATION	Punch		
	Round	ATBPur	
	Shape	ATBPus	
	STRIPPER		
	Round	ATBSur	
	Shape	ATBSus	
	DIE w/Slug Feature		
	Round	ATBDMstr	
	Shape	ATBDMsts	
	Shim 3pc .4, .8, 1.2	*AATBDS	
C STATION	PUNCH		
	Round	ATCPmr	
	Shape	ATCPms	
	STRIPPER		
	Round	ATCSulr	
	Shape	ATCSuls	
	DIE w/Slug Feature		
	Round	ATCDstr	
	Shape	ATCDsts	
	Shim 3pc .4, .8, 1.2	*AATCDS	
D STATION	PUNCH		
	Round	HT.DP1RO	
	Shape	HT.DP2**	
	STRIPPER		
	Round	ATDSur	
	Shape	ATDSuls	
	DIE w/Slug Feature		
	Round	ATDDstr	
	Shape	ATDDsts	
	Shim 3pc .4, .8, 1.2	*AATDDS	

Ultra, QuickHit™ are trade marks of Mate Precision



UNLOCK

Unlock Guide from Punch Driver Assembly

Hold guide in left hand
Turn adjusting Ring Clockwise



ADJUSTING or Disassembly

Adjust punch height.

Continue holding guide
Twist Driver Assembly

The punch will raise with
counter clockwise and lower
into stripper with clockwise turns



LOCKING

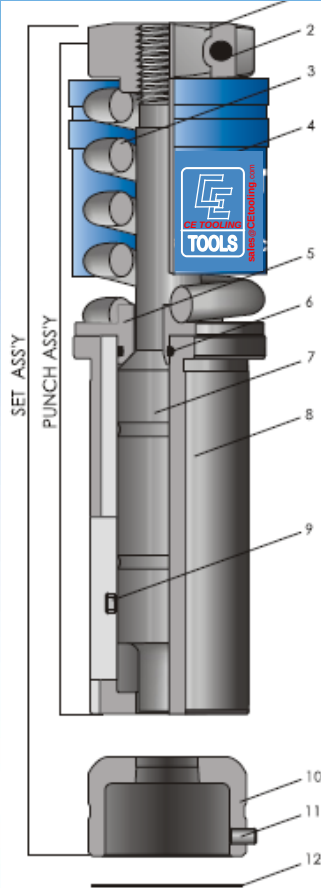
Locking the Guide to Driver Assembly

Push in button.
Button should slide.
If it stops in middle
turn driver assembly
clockwise then again
push button.



METRIC (Industry Standard) NCT & ABS Style

1¼ Station B Range .501-1.250"/12.7-31.7mm



NTC Standard	Part # * = r-round s-shape	Round	Shape
PUNCH ASSEMBLY	ATA-Pam-*		
DIE	AT-B-D-*		
DIE w/Slug Trap™ S/F	AT-B-Dst-*		
Die w/Slug Z Hugger S/O	ATB-B-Dso-*		
PUNCH	ATB-Pm-*		
GUIDE –Closed end	ATB-Gm-*		

Punch Coating Options:

TiN (gold) coating. TiCN (grey/blue), +

COMPONENT PARTS	CE Part #	\$ Price
PUNCH HEAD • Solid	AT-B-Hm	
PUNCH HEAD • Side Lock	AT-B-Hm-SL	
COIL SPRING	AT-B-Sm	
DISC SPRING Set (20)	AT-B-DS-m	
SPRING RETAINER	AT-B-SRm	
Extended B Dimension to Give More Punch Life  After .08"/2,mm Grind Red ATBSR2 After .16"/4,mm Grind Green ATBSR4		
O-RING	ATBG-Oring-m	
Die Shim 3pc .4, .8, 1.2	ATBDS	

[illegible]

TiN (gold) coating. TiCN (grey/blue),

Z-Tooling Standard	CE Part # *= r-round s-shape	Round	Shape
PUNCH ASSEMBLY closed	AT-B-Pam-ky.*	183.00	245.00
PUNCH ASSEMBLY -open	AT-B-PAm-Ok.*		
DIE	AT-B-D.*		
DIE w/Slug Trap™ S/F	AT-B-Dst.*		
Die w/Slug Z Hugger S/O	ATB-B-Dso.*		
PUNCH	AT-B-Pm.*		
GUIDE –Closed	ATB-Gm-ky.*		
Guide –Open RSP	ATBGmrsp*		
Stripper Plate RSP	ATB-S.*		

Page 5

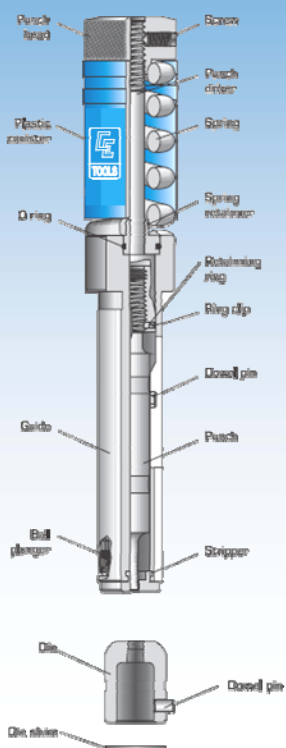


WT S90/HP Style *Standard & WLS-ABS*

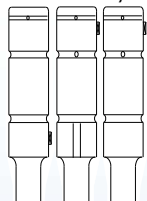
1/2 Sta.A *Range .093-.500"/2,36-12,7mm* 1-1/4 Sta.B *Range .501-1.250"/12.7-31.7mm*

Max. Material 7 ga. MS

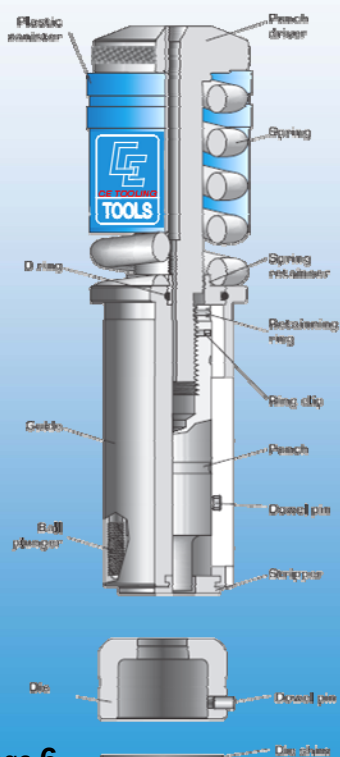
Max. Material 1/4=6m MS



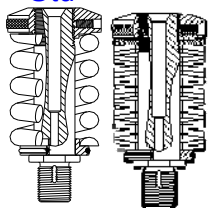
HP™ ABS,



Description	Part#	Round	Shape
Punch & Guide Assembly	ATA-Paw9-*		
Punch & Guide Ass'y abs-wls	ATA-Paw9L-*		
PUNCH	ATA-Pw9-*		
PUNCH WLS - ABS	ATAPw9v-*		
Guide RSP Std Style	ATAGw9-*		
Guide RSP ABS / WLS Style	ATAGw9v-*		
STRIPPER PLATE	ATA-Sw9-*		
Stripper Plate ABS/WLS style	ATA-Sw9v-*		
DIE	ATA-D-*		
DIE w/SLUG TRAP™ S/F	ATA-D-st-*		
Die w/SLUG HUGGER™ S/O	AT-A-Dso-*		
Driver Assembly Std	ATADAs90		



STD HP
Std



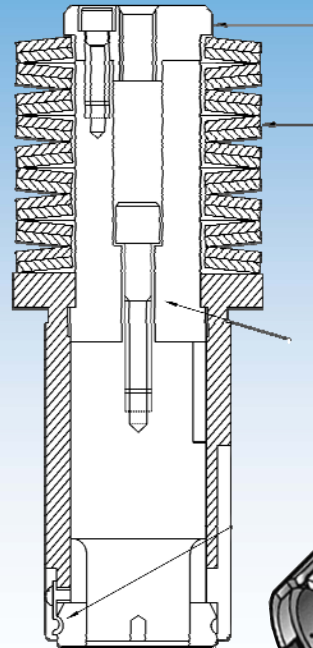
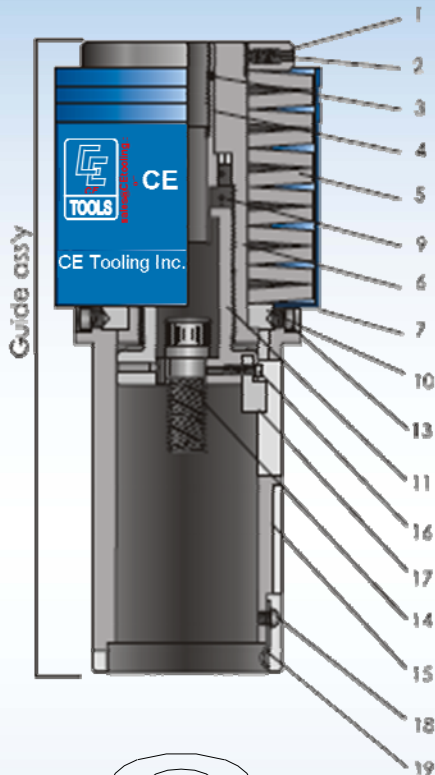
Description	Part#	Round	Shape
Punch & Guide Assembly	ATB-Paw9-*		
Punch & Guide Ass'y abs-wls	ATB-Paw9L*		
PUNCH	ATB-Pw9-*		
Punch WLS - ABS	ATBPw9v-*		
Guide RSP Std Style	ATB-Gw-*		
Guide RSP WLS -ABS Style	ATB-Gi-V-rps-*		
STRIPPER PLATE	ATB-Sw9-*		
STRIPPER PLATE WLS-ABS	ATB-Sw9v-*		
DIE	ATB-D*		
DIE w/SLUG TRAP™ S/F	ATB-D-st-*		
Die w/SLUG HUGGER™ S/O	AT-B-Dso-*		
Driver Assembly Std	ATBDAs90		



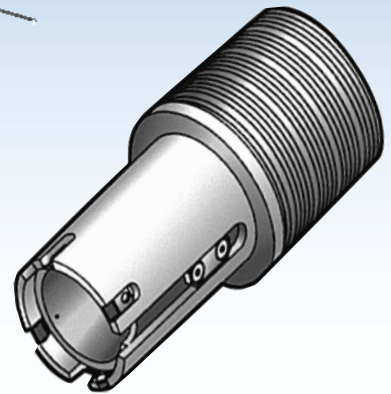
METRIC NCT, Z-Tool, Ultra Similar M12 Thread

Full Body Style 2 Sta. C Range 1.251-2.000" / 31,76—50,8mm

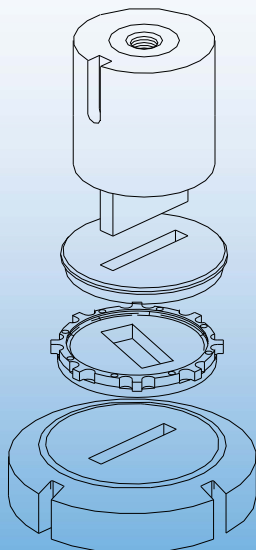
Push Button Adjustable Length
Holder Standard & ABS
Key 0,90&45 Part# ATCGAmE82



NCT Amada
Compatible
Non-Adjustable
Holders
Key 0 & 90
Part# ATCGA



Adapter use C tool in D sta. turret			
To Use	Description	Part#	Price
C in D	Punch	ATD-CPA	
C in D	Die	ATD-	



STRIPPER STYLES
AM Style for CE or Amada
WT Style for S90/HP
UL Style for Mate UltraTec

DESCRIPTION	Part # * R-round S-shape	ROUND	SHAPE
PUNCH <i>m=metric or i=inch threads</i>	ATC-Pm-*		
Punch Shim 3pc .4, .8, 1.2	*AATPPS		
STRIPPER Available as AM, WT, Ultra	ATC-S-AM- ATC-S-WT- ATC-S-UL-*		
Strip Guard Adhesive Discs	*A06085		
DIE	ATC-D-*		
DIE w/Slug Trap™ S/F	ATC-Dst-*		
Die w/Slug Z Hugger S/O	ATC-Dso-*		
Die Shim 3pc .4, .8, 1.2	*AATCDS		

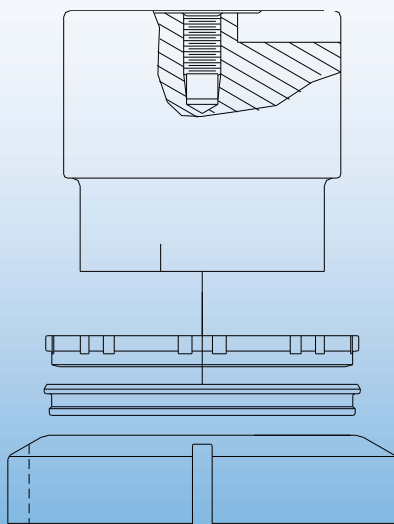
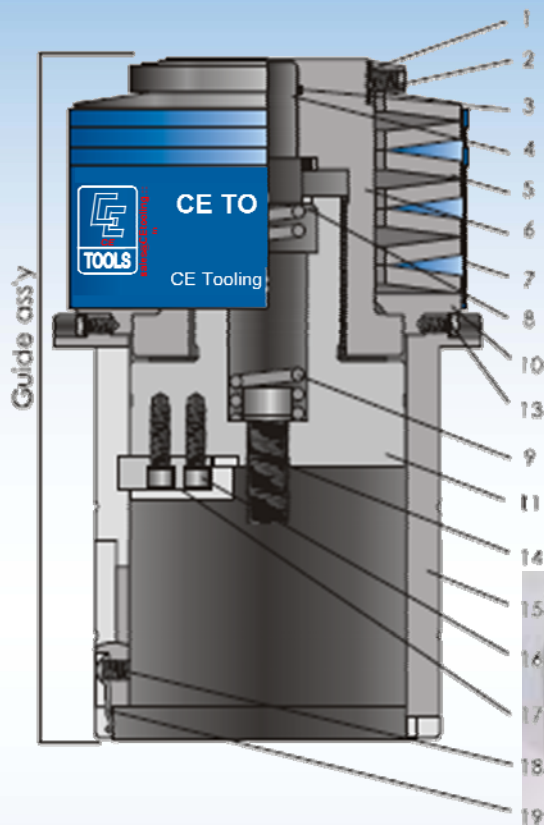


METRIC NCT, Z-Tool, Ultra Equivalent M12 Thread

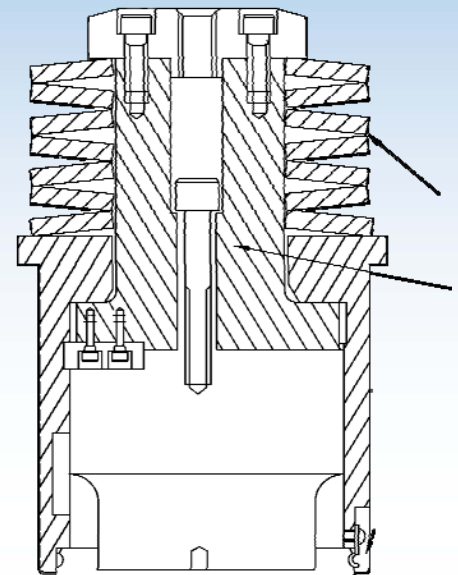
Full Body Style 3½ Sta. D Range 2.001 - 43500"/50.81 -

Push Button Adjustable Length
Holder **Standard & ABS**

Key: 0&90 Part# ATDGAmE81



**NCT Amada
Compatible Non-
Adjustable Holders**
Key 0,90&45
Part# ATDGA



Adapter use D tool in E sta. turret

To Use	Description	Part#	Price
C in D	Punch	ATD-CPA	
C in D	Die	ATD-	



DESCRIPTION	Part # * R-round S-shape	Round	Shape
PUNCH <i>m=metric or i=inch threads</i>	ATD-P <u>m</u> -*		
Punch Shim 3pc .4, .8, 1.2	*AATPPS		
STRIPPER Available as AM, WT, ULtra	ATD-S-AM-* ATD-SWT-* ATD-S-UL-*		
DIE	ATD-D-*		
DIE w/Slug Trap™ S/F	ATD-Dst-*		
Die w/Slug Z Hugger S/O	ATD-Dso*		
Die Shim 3pc .4, .8, 1.2	*AATDDS		

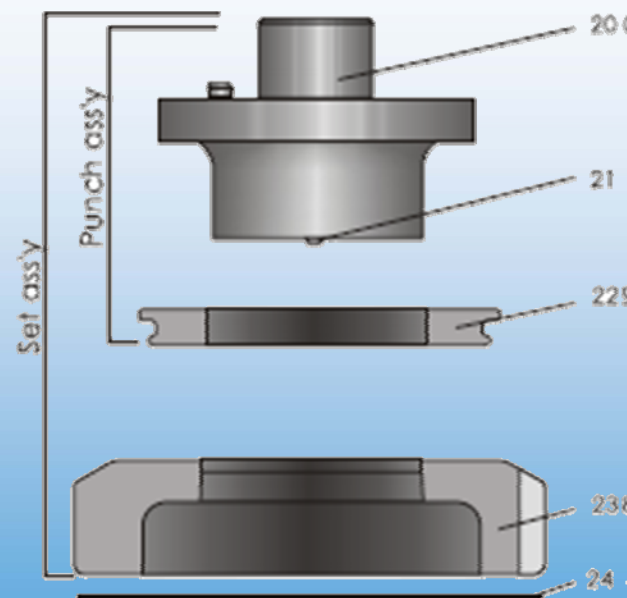
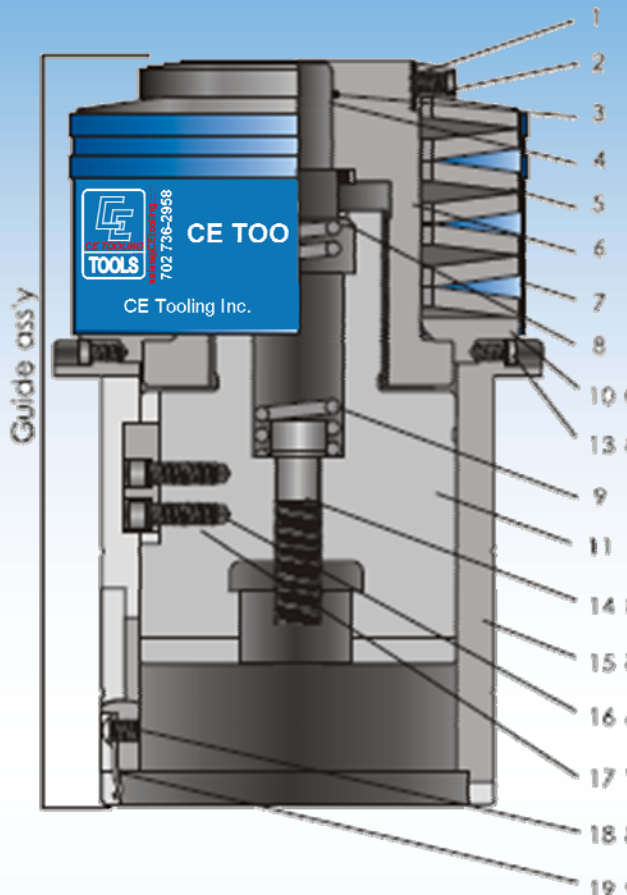


S90 Series 90/HP Style

3-1/2 Sta. D Range 2.001 - 4.500"/50.81 - 88,9mm

**Push Button Adjustable
Length Holder** *Standard & ABS*

Key: 0,90&45 ATDGAw9v2



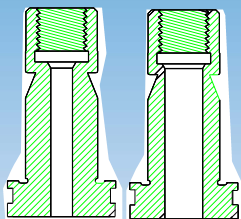
DESCRIPTION	Part#	ROUND	SHAPE
SET Punch, Die &	ATD-PDSwt-*		
PUNCH	ATD-Pwt-*		
STRIPPER <i>Standard</i>	ATD-S-wt-*		
STRIPPER "ABS"	ATD-S-wt-abs*		
DIE	ATD-D-*		
DIE w/Slug Trap™ S/F	ATD-D-st-*		
Die w/Slug Z Hugger S/O	ATD-Dso*		
Die Shim 3pc .4, .8, 1.2	*AATDDS		



TRUMPF PUNCH

PUNCH CHUCKS

0a (TR0aPC)
0b (TR0aPC) \$50.00

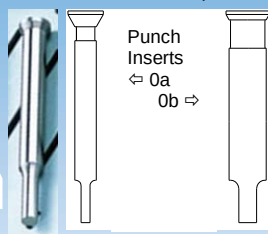


SIZE 0a

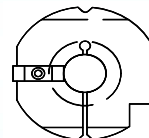
.031-.236
(.8-6,mm)

SIZE 0b

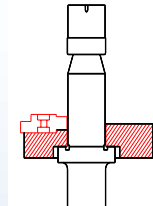
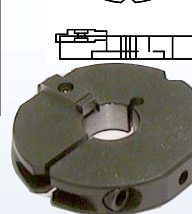
.236-.413
(6,-10,5mm)



Station	RANGE DIAGONALLY Pricing for Tip Sizes of .093(2,3mm) &>	ROUND Part #	Price	SHAPE Part #	Price Station 2&3 OB
0a	.031-.236 / ,8-6.0mm	TR0aPr		TR0aPs	
0b	.237 -.413 / 6,0-10,5mm	TR0bPr		TR0bPs	
I 74mm length	.031-.590 / ,8-15,mm	TR1Pr		TR1Ps	
	.591-1.181 / ,8-30,mm				
II 77mm length	1.182-1.575"/30,-40,0mm	TR2aPrW		TR2aPsW	
	1.182-2" / 30,-50,8mm	TR2bPrW		TR2bPsW	
	2.001-2.362"/50,8-60,0mm	TR2cPrW		TR2cPsW	
	2.363-3" / 60,1-76,2mm	TR2dPrW		TR2dPsW	
III 77mm	3.001-3.5" / 76,2-88,9mm	TR3aPrR		TR3PsR	
	3.501-4" / 88,9-101,6mm	TR3bPrR		TR3PsR	



ALIGNMENT
RING



Coating	STA.	SIZE 0	SIZE I	Size IIa&b	Size IIc&d	Size III
TiN Best for Alum.						
TiCN or Alpha						

SIZE & TYPE	Mate	Trumpf	Cat.	PRICE
SIZE 0 & 1 ATC	VANTE	7336-OJS/02	TRAR-0/2	
SIZE 2 & 3 ATC	VAPTE	7336-1JS/02	TRAR-1/2	
Heavy Duty I & II	VANTF	7336-1JS/04	TRAR-1/4	

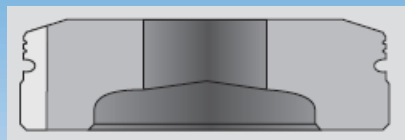


TRUMPF DIE



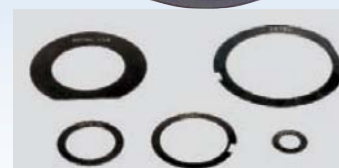
SIZE 0 & I DIE

SIZE II DIE



DIE ADAPTER

Converts	PART #	PRICE
1 TO 2	TRDA1-2	



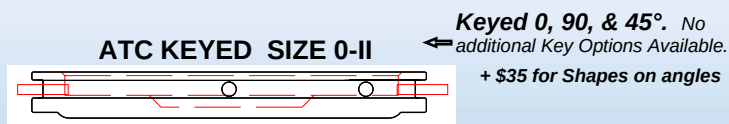
Station	Size Range -DIAGONALLY	Part# Round	Price	Part# Shaped	Price
I	.093-1.260 2,4-32,mm	TR1-D-r		TR1-D-s	
	.093-1.528* 2,4-38.8mm*				
II	1.261-3.032 32,-77,mm	TR2-D-r		TR2-D-s	

Size III DIE keyed 0, 90 & 45 **Only One Key Location on ATC**
(Auto Tool Change). For ATC, specify radial or Tangent Setting
Size 3 Dies & Strippers are 2-3 week delivery

DIE SHIM	Qty per	SIZE 1		SIZE 2	
		Code	Price	Code	Price
0.1mm	3	P.DP-T1XD01		P.DP-T2XD01	
0.3mm	3	P.DP-T1XD03		P.DP-T2XD03	
0.5mm	3	P.DP-T1XD05		P.DP-T2XD05	
3-Each	9	P.DP.T1XD		P.DP.T2XD	

TRUMPF STRIPPER PLATES

Order Strippers by Punch size + Clearance: If Clearance is not specified .06"/1.5mm will be used. When punching materials >16gage .06"/1.5mm, .2" 1.5mm is a good clearance. NOTE: **.4"10,mm should be the minimum actual width or diameter ordered** to prevent punch flange from bottoming out on stripper. This is because punch tips lengths are stubbed for sizes <.4



				Round		Shaped
0, I, & II	Up to 3.032 77,mm	ATC:KEYED	TR1-Sa-*		TR1-Sa-s*	
		MTC:Non-Keyed	TR1-Sm-*		TR1-Sm-s*	
		Rotation Grp. H	TR1-S5-*		TR1-S5-s*	
Sta. 0 & 1 Urethane Pop On Stripper		Sta. 0a (.24 hole) *ATROaUS Sta. 0b (.41 hole) *ATRObUS		Sta.1: Available with 3 different .890, and 1.190 Cat# *		



HEAVY DUTY TOOLING

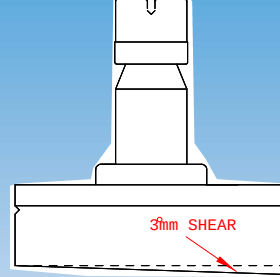
SIZE I

.407-1.181 10,3-30mm



SIZE II

1.182-3.0 30,01-76,2mm



Alignment Ring for Heavy Duty Punch

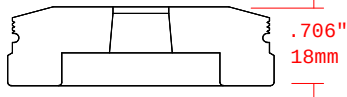


Ring Complete	TRAR-1/4
Spare Key	TRAR-1/4-K
Key Screw	TRAR-1/4-KS
Clamp	TRAR-1/4-CS

STATION	RANGE /DIAGONALLY	ROUND	PRICE	SHAPED	PRICE
I	.407-1.181 (10,3-30,mm)	TR1-Phd-r-RD		TR1-Phd-s	
II	1.182-2" (30,-50,8mm)	TR2a-Phd-r-RD		TR2a-Phd-sW	
	2.001-3" (50,8-76,2mm)	TR2b-Phd-r-RD		TR2b-Phd-Sr	

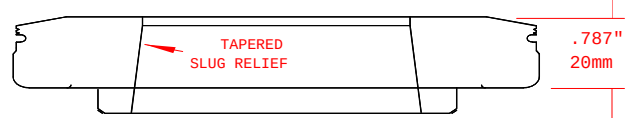
SIZE I DIE

Maximum Opening .984+.059 .25, +1,5mm



SIZE II DIE

Maximum Opening 2.126+.059 54mm + 1,5mm



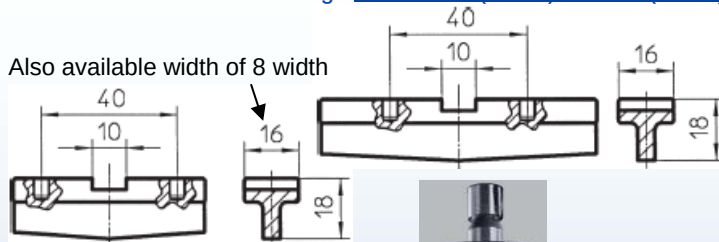
0 & I	.Max. .984 +.059	TR1-D-r-RD		TR1-D-s★	
II	Max. 2.125 +.125	TR2-Dhd-r-RD		TR2-Dhd-s★	

REPLACEMENT INSERT BLADE PUNCH

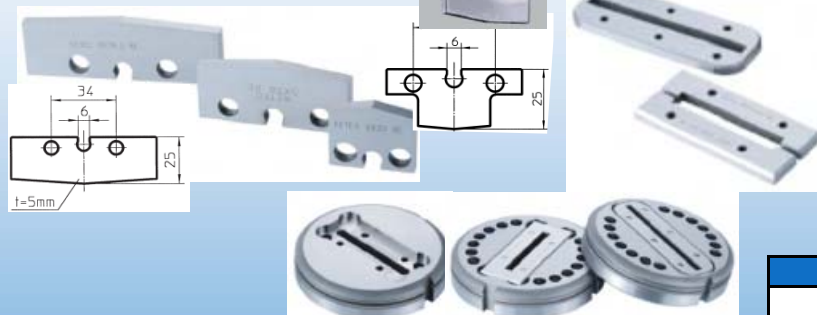
Reduce costs of common used slotting punches

Size Range Width .125 (3,mm) - .3158 (8,mm) Length 1.5(38,mm) -3.000(76,2mm)

Also available width of 8 width



Industry Standard



	Part#	PRICE
PUNCH HOLDER	TRTOQ500	
KEY	TRTOQ510	
Screw for Punch Blade	TRTOQ520	
Punch Blade 5 X 30 or .200 X 1.181	TRTOQ530	
Punch Blade 5 x 56mm or .200 X	TRTOQ540	
Punch Blade 5 X 76.2mm or .200 X	TRTOQ550	

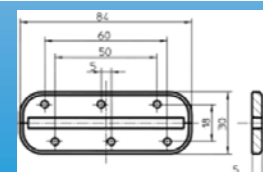
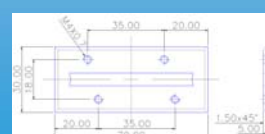


SP-50 Micro Joint
+25 to Punch or Die Blades

	Part#	PRICE
DIE HOLDER 1 No brush for RE blade	TRTOQ620	
DIE HOLDER 2 with brush for RE blade	TRTOQ630	
DIE HOLDER 3 No brush for OB blade	TRTOQ640	
DIE HOLDER 4 with brush for OB blade	TRTOQ650	

Note: For thickness below 3.0mm; 1.0mm grind life for blade

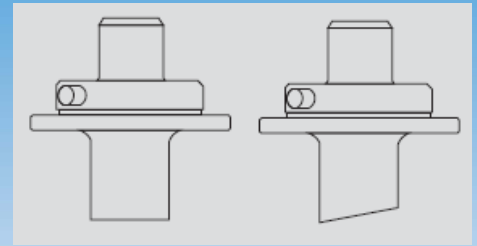
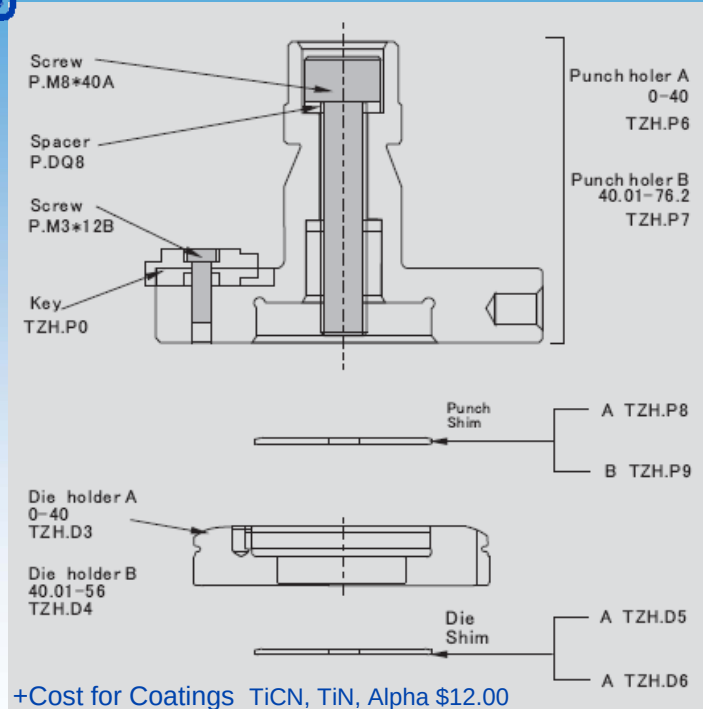
	DIE BLADE	Part#	PRICE
RE =Rectangle	5 x 30mm or .200 X Solid	TRTOQ560	
	5 X 30mm or .200 X Assembly	TRTOQ570	
	5 x 56mm or .200 X Solid	TRTOQ580	
	5 X 56mm or .200 X Assembly	TRTOQ590	
OB = Obround	5 x 76.2mm or .200 X Solid	TRTOQ600	
	5 X 76.2mm or .200 X Assembly	TRTOQ610	





RP: 2•4•1™/ Next™ Style

2•4•1 is registered trade mark of Wilson Tool International Next is registered trade mark of Mate Precision Tooling



Description	Part#	Round	Shape
Punch Holder 0-40mm	TR4aPH		
Punch Shim 1-40mm	TZH.P8		
Punch Holder 40.1-56mm	TR4bPH		
Punch Shim 40.1-56mm	TZH.P9		
Die Holder 0-40mm	TR4aDH		
Die Shim 0-40mm	TZH.D5		
Die Holder 40.1-56mm	TR4bDH		
Die Shim -56mm	TZH.D6		
Punch Insert 2.36-30	TR4aPI-*		
Punch Insert -40mm	TR4bPI-*		
Punch Insert -56mm	TR4cPI-*		
Punch Insert -66mm	TR4dPI-*		
Punch Insert -76.2mm	TR4ePI-*		
Die Insert -40mm	TR4aDI		
Die Insert -56mm	TR4bDI		





EUROMAC MULTI-TOOL

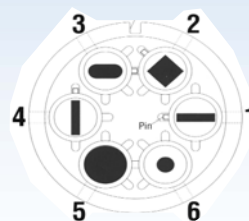
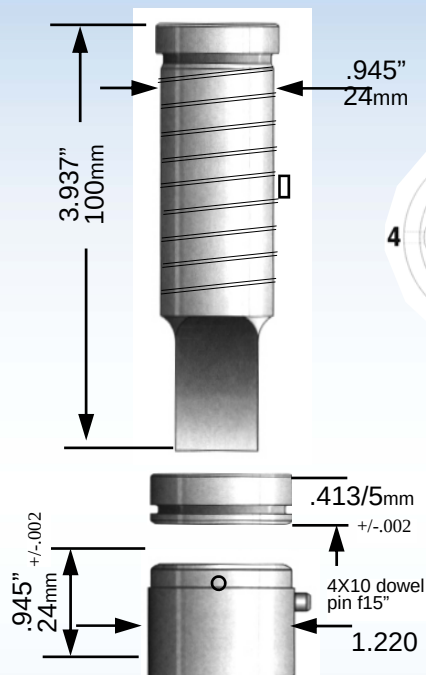
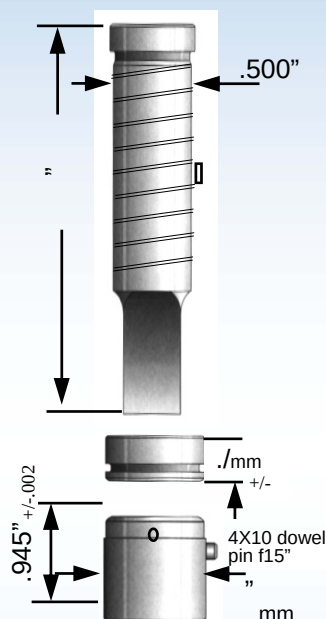
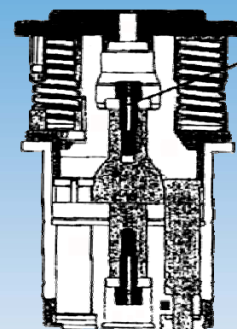
XMT™ 6 & 10 Station XMTE-6&10 Long

PUNCH Grind Life: .059"/1.5mm • Minimum length MTZ=2.716"/69mm XMT = 3.82"/97mm

XMT12.7
Range 12mm/.500"

XMT24
24mm/.945"

XMTE6 (Long)



Shaped Dies and Strippers (MTZ only) have pin holes for pinning of 0 & 90 (Squares 0 & 45)

For shapes on other angles add \$15 to Die and \$15 to Stripper

Go to Page 2 for ordering diagram for tools on Angles

Extra pins on Die or Stripper other than listed above are not available.

STYLE	Shape	Punch M2 Steel CATALOG CODE	PRICE Dia. or Width >.093 2,3mm	Coatings TiN & Alpha	Die A2 Steel Slug Trap™ CATALOG CODE	PRICE Dia. or Width >.093 2,3mm	Stripper CATALOG CODE	PRICE Dia. or Width >.093 2,3mm
XMT 12.7	Round	MTFP-r		+\$11.00 Part# Coat- TiCN or Coat- Alpha	MTFD-r		MTFS-r	
	Shape	MTFP-s			MTFD-s		MTFS-s	
XMT24 E6-Long	Round	MTEP-r		+\$12.00 Part# Coat- TiCN or Coat- Alpha	MTED-r		MTES-r	
	Shape	MTEP-s			MTED-s		MTES-s	
Pack of 32pc Die Shim					*AMSFZ			

XMT E6-Long Dies= MT-Z Stripper = MT-Z with no dowel pin



EUROMAC MTE# Multi-Tool

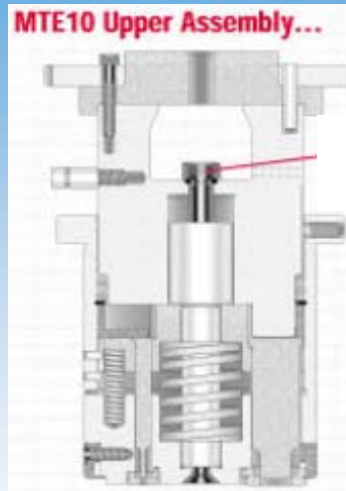
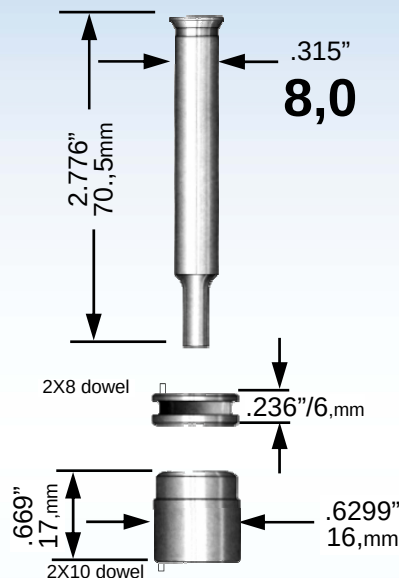
12, 20, 24 Station style **X** = MTE10

Range .030-.315" ,8-8.0mm

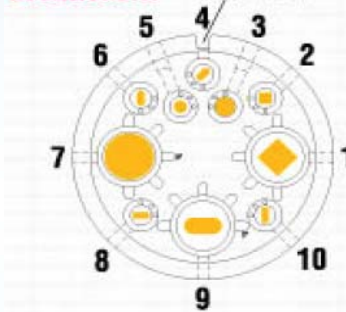
PUNCH Grind Life: .060"/1,5mm

Minimum length 2.716/69mm

DIE Grind Life: .06"/1,5MM



MTE10 Die Holder Station Locations...



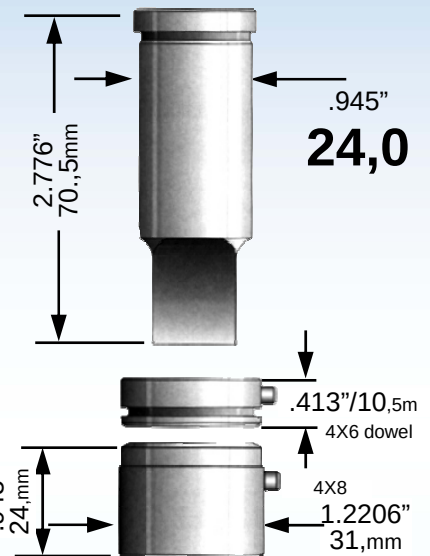
6,8 & 10 Station style **Z** = MTE6 & 10

Range .030-.945" ,8-24 mm

PUNCH Grind Life: .060"/1,5mm

Minimum length 2.716/69mm

DIE Grind Life: .06"/1,5MM



STYLE	Shape	Punch M2 Steel CATALOG CODE	PRICE Dia. or Width >.093 2,3mm	Coatings TinC & Alpha	Die A2 Steel Slug Trap™ CATALOG CODE	PRICE Dia. or Width >.093 2,3mm	Stripper CATALOG CODE	PRICE Dia. or Width >.093 2,3mm
X _{MT8} 12, 20, 24 MTE10	Round	MTXP-r		+ Part# Coat- TiCN or Coat- Alpha	MTXD-r		MTXS-r	
	Shape	MTXP-s			MTXD-s		MTXS-s	
Z _{MT24} 6 & 8 MTE6	Round	MTZP-r		+ Part# Coat- TiCN or Coat- Alpha	MTZD-r		MTZS-r	
	Shape	MTZP-s			MTZD-s		MTZS-s	
		Pack of 32pc Die Shim	Pack of 32pc Die Shim		*AMSFZ			

Shaped Dies and Strippers have four (1) pin hole. Customer should specify location of shape

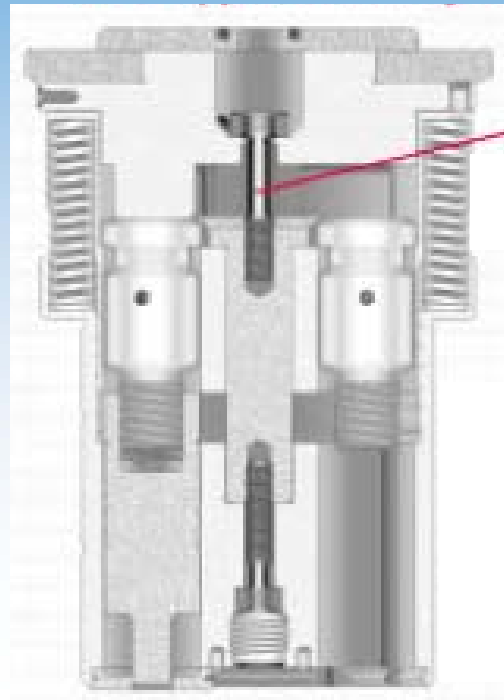
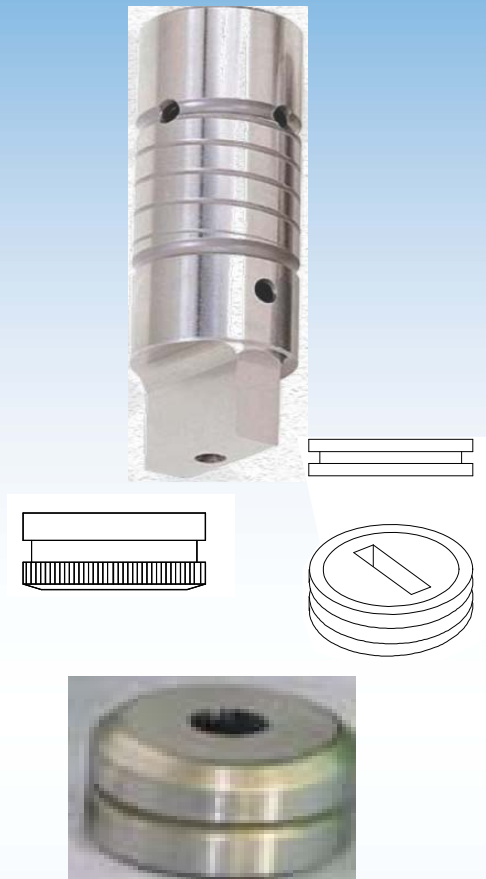
For shapes on other angles \$15 to Die and \$15 to Stripper

Go to Page 2 for ordering diagram for tools on Angles

Sorry, Extra pins on Die or Stripper other than listed above are not available.

CE TOOLING, INC. EUROMAC MTE4 Multi-Tool

MTE4™ 4 Station Multi-Tool



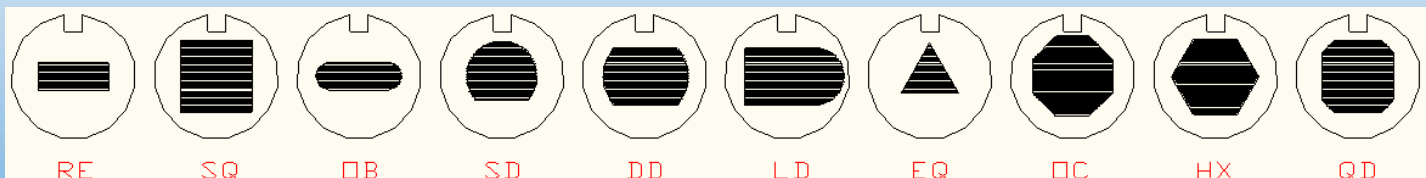
Size Range 501-1.250"/12,7-31,7mm

Description	Part#	round	shape
1¼ Punch M2	ATB-Pu-*		
1¼ Stripper Plate	ATB-Su*		
1¼ DIE w/SLUG TRAP™	ATB-Dst-M*		

STANDARD KEYING DIE SIZES I & II

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

Dies only have 1 key. Shapes shown with Key at 0°. Request 90° or 45° no additional fee.



DIES KEYED ON ANGLES OTHER THAN 0° INCREMENTS

STATION	Of 15° increments	Other Than 15°
I SMALL		
II MEDIUM		
III LARGE		

EXTRA KEY WAY ON DIES

Please Fax a Print Showing Location of Extra Key(s) in Relationship to Shape

STATION	Of 15° increments	Other Than 15°
I SMALL		
II MEDIUM		
III LARGE	Not Available	Not Available



SPECIAL APPLICATION FORMING TOOLS

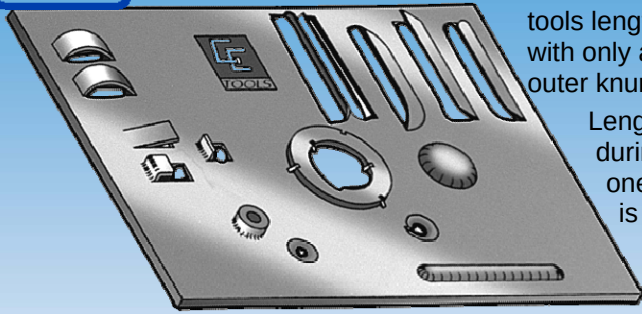
HIGHER PRODUCTIVITY THROUGH SUPERIOR ENGINEERING

EXCLUSIVELY From C.E. TOOLING The QUICK-SET™

This patented tool length adjustment unit allows for set up of form

tools length to as close as .0025" with only a lift and turn of the outer knurled collar.

Length can't change during use. A half to one hour set up time is now reduced to minutes.



ELECTRICAL SINGLE Sp-60

KNOCK OUTS DOUBLE Sp-61

Pipe	Actual Size	Pipe	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

EMBOSES ROUND OR SHAPED

Form Down Sp74

Form Up Sp63

BRIDGE TOOL SINGLE Sp-65

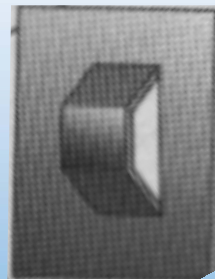
BRIDGE TOOL DOUBLE Sp-66

THREAD FORM DOWN ONLY

Replaceable Top *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 Form Tooling



EXTRUSION



GROUND SYMBOL Keyed 4 Ways

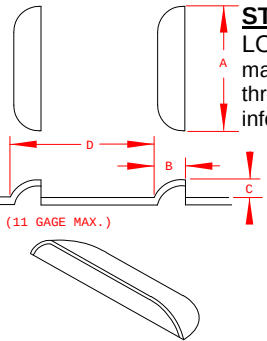
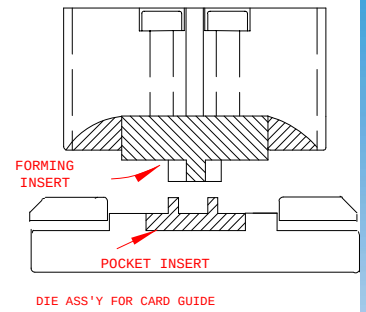
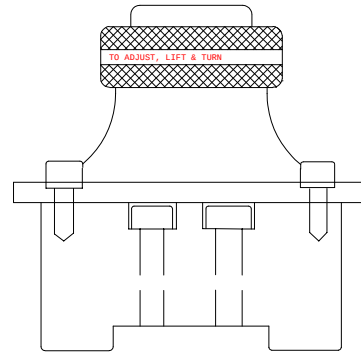
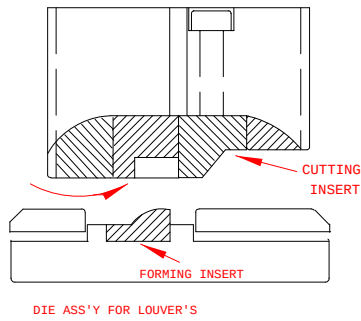
DOWN Sta. A = \$235 Sta. B =
UP Sta. A = N/A Sta. B =

DOWN Sta. A = \$250 Sta. B = \$290
UP Sta. A = N/A Sta. B = \$365

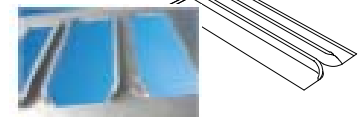
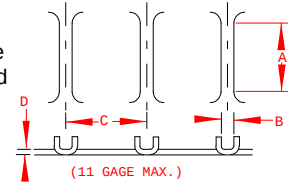
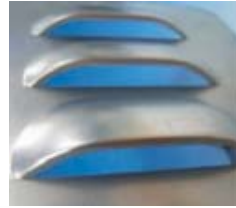
Standard = 1/2" Ø Longest horizontal line = 3/8" length
+\$50 for non standard +for Quick-Set Adj. Head



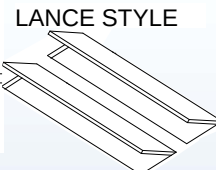
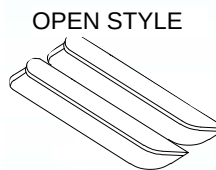
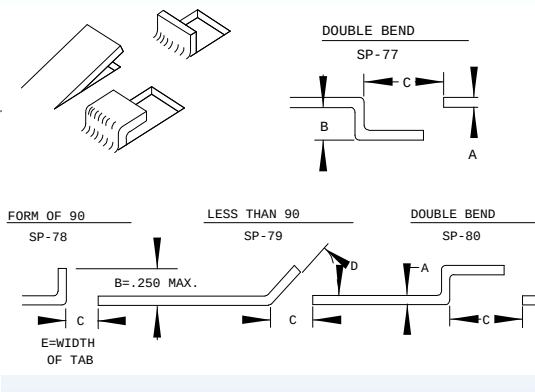
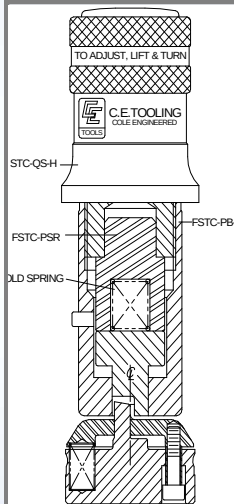
LOUVER & CARD GUIDE TOOLS



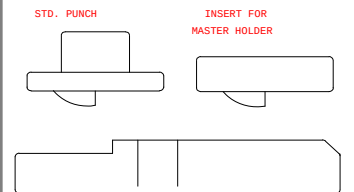
STANDARD & PROGRESSIVE styles of LOUVERS & CARD-GUIDES. Progressive tools are made to exact material thickness. The length is unlimited through nibbling. Reference Section 1 for further information



LANCE & FORMS



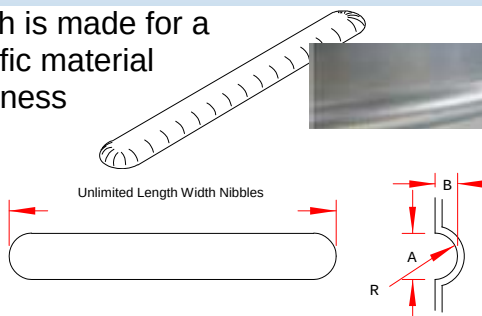
Form Down LOUVER



"A" Length	"B"	"C"	"D"
2"	1/2"	3/16"	3/4"
2-1/2"	1/2"	3/16"	3/4"
3"	5/8"	1/4"	15/16"
3-1/2"	5/8"	1/4"	15/16"
4"	3/4"	1/4"	1-1/8"
4-1/2"	3/4"	1/4"	1-1/8"

PROGRESSIVE STIFFENING RIB

Punch is made for a specific material thickness



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

Other sizes available

Sheet Lifter Dies



Lifter dies are placed in turret on each side of a form tool.



Form Inserts for CE, WT & Amada Style Holders

COINING /Counter Sink Inserts/Chips

For pre-pierce hole size, See chart/formula in Technical Reference booklet Section 1

PRE-PUNCH HOLE

NO ROLL-OVER

RECOMMENDED IF "H" IS THICKER THAN MATERIAL

1-1/4" Station Shown with QS & dedicated punch

CE Style Insert
*FIP56 \$84.30

WT Style Insert
*FIPWT56 \$84.30

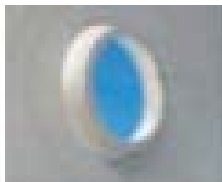
Amada Style Chip
#43114
CE#*FIP56AM \$84.30

Form Up

CE

Dedicated die is suggested over

EXTRUSIONS INSERTS

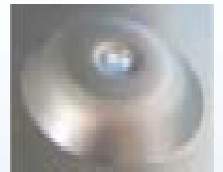


Down *FIP54 \$71.20

Up *FIP50 & *FID50 \$78.75

HEIG DETERMI BY PRE-PU

EMBOSS & EXTRUSION



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

Inserts/Chips For CE Holder

Top=*FIP51 *FID51

For WT Style Holder

P.Chip = CE# *FIP51wt

D.Chip = CE *FID51wt

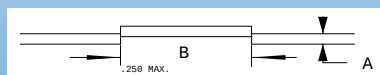
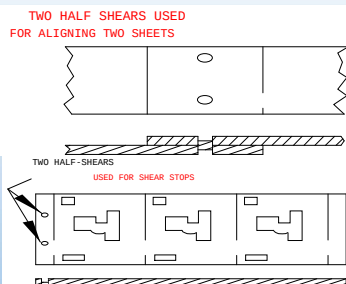
For sizes>.25"(6,1mm) *FIPWT56

For Amada Style Holder

code Set PA203202S Punch Ass'y
PA203202P Die Ass'y PA203202D

P. Chip 8700069 = CE *FIP51am

D. Chip 5511491 = CE *FID51am



Replaceable Insert

Top *FIP51

Bottom *FID51

CENTER POINT



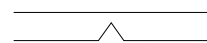
Replaceable Insert

For CE Holder Top *FIP57

For WT *FIP57wt

For Amada

Use with No hole Die ATB-Dr



Replaceable Insert

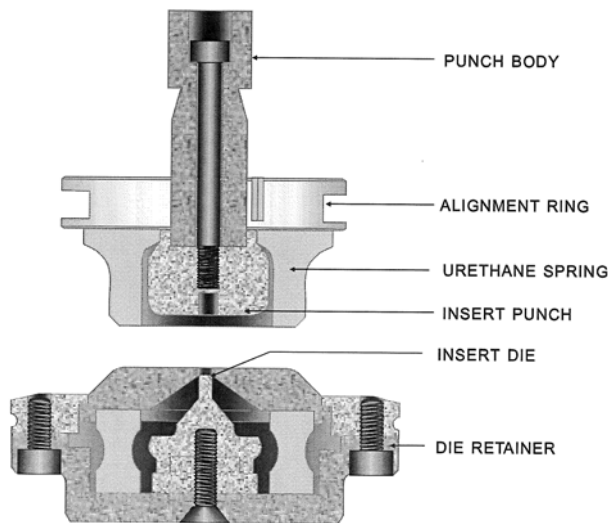
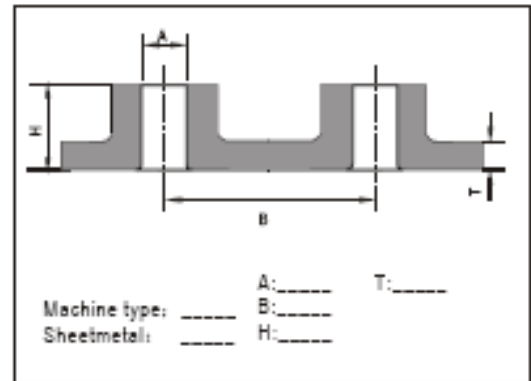
For CE Holder Top FIP58

Bottom *FID53

For WT Top *FIP58wt Bottom

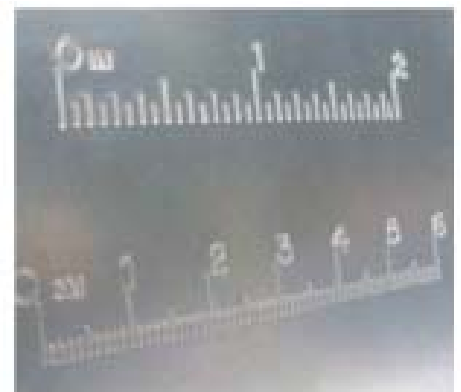
*FID53wt

EXTRUSION



- 1、 Replaceable insert design on extrusion Dia. Less 6.35mm.
- 2、 B station, Max. thickness: 2mm for mild steel or AL. 1mm for stainless.
- 3、 Max. H: 2 - 2.5 X T.
- 4、 Need prepunch.
- 5、 Two Types: Form up and Form down.
- 6、 Please fill in the above form.

Multi-SCRIBE



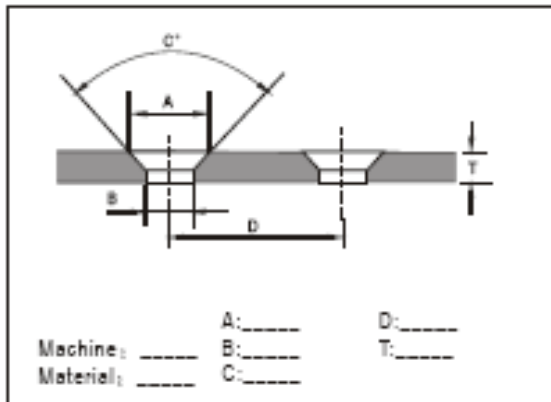
Machine type: _____
Sheetmetal: _____
Thickness: _____
Size: _____
Depth: _____

- 1、 Mark letters and number on sheetmetal.
- 2、 Require different punch pressure for letter size and depth.
- 3、 Form up or form down.
- 4、 Please fill in the left form.



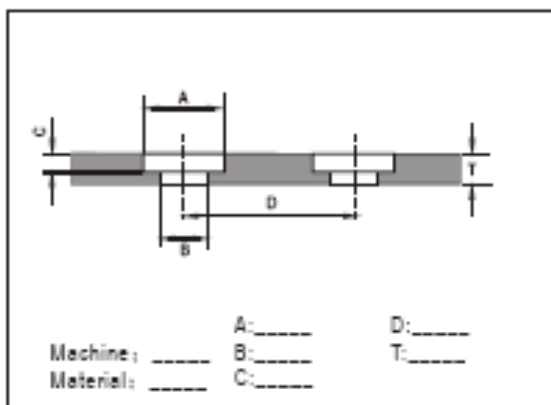
SPECIAL APPLICATION FORMING TOOLS

HIGHER PRODUCTIVITY THROUGH SUPERIOR ENGINEERING



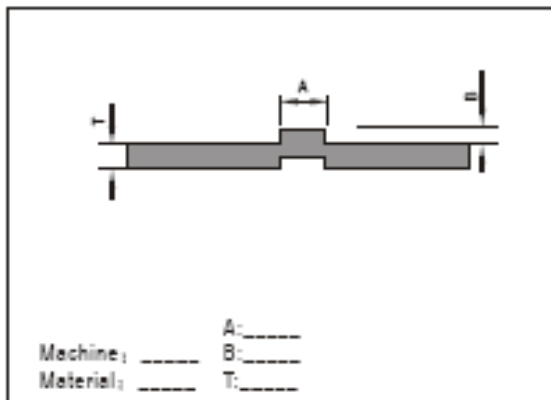
Coining tool

1. Advise to prepunch in all coining.
2. Two Types: Form up and Form down.
3. Please fill in the form on the left.



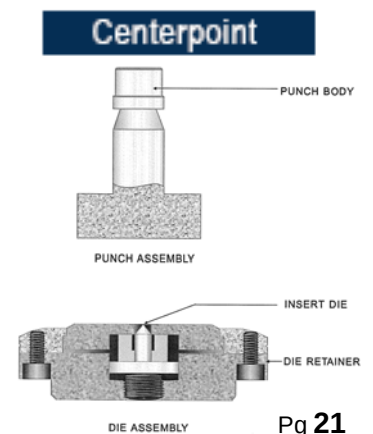
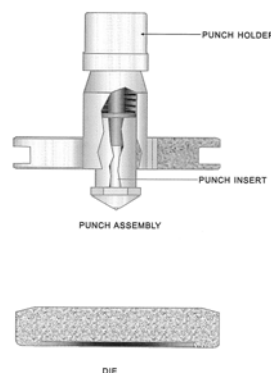
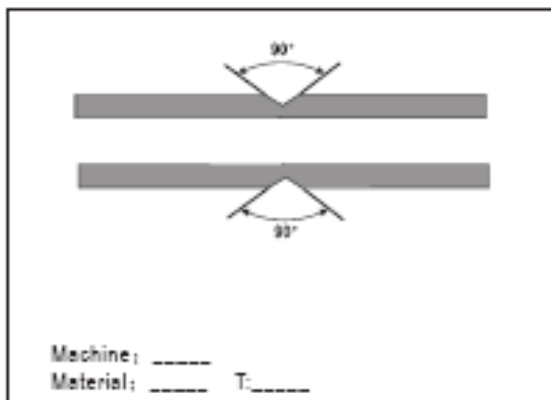
Coining tool

1. Advise to prepunch in all coining.
2. Two Types: Form up and Form down.
3. Please fill in the form on the left.



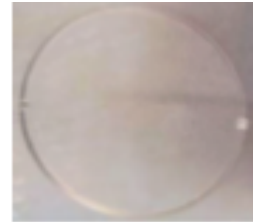
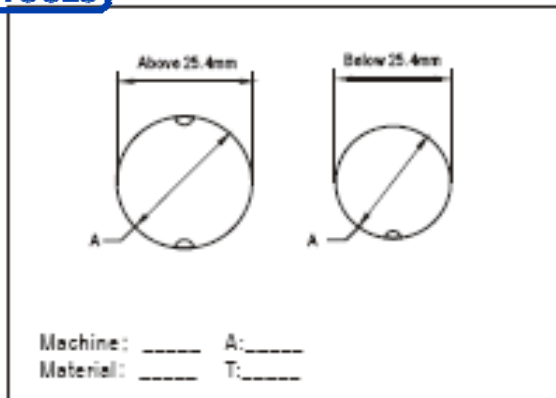
Half shear

1. Max. B size :0.6 X thickness.
2. Two Types: Form up and Form down.
3. Slow machine speed to give tool enough time to strip.



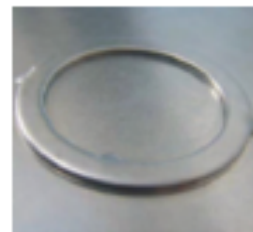
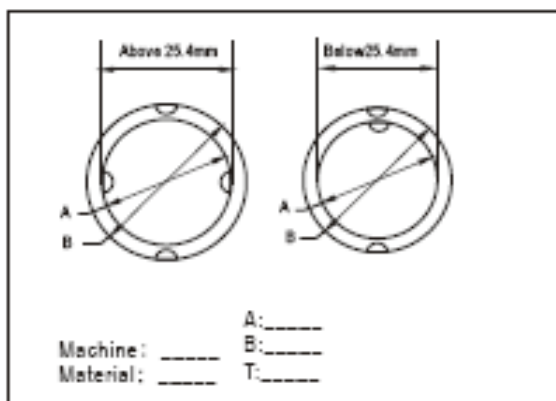
SPECIAL APPLICATION FORMING TOOLS

HIGHER PRODUCTIVITY THROUGH SUPERIOR ENGINEERING



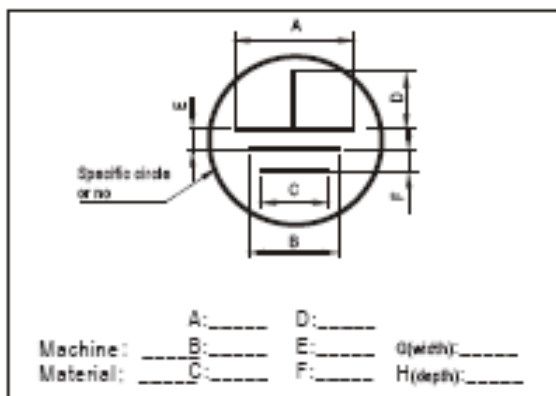
Knockout tool

- 1、 Most of EKO only use in small range of material thickness
- 2、 Stocked sizes: $\phi 22.2$ $\phi 28.6$
- 3、 Only replace inserts to change size.



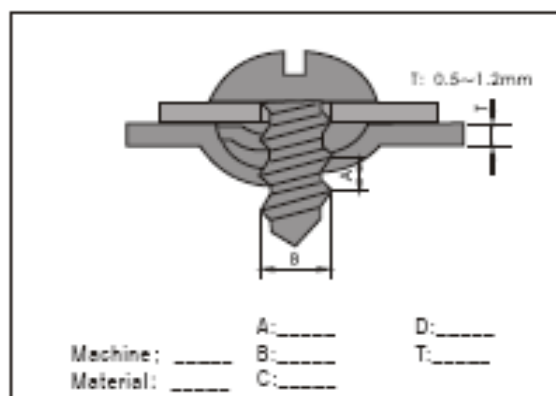
Knockout tool

- 1、 Most of EKO only use in small range of material thickness
- 2、 Stocked sizes: $\phi 22.2$ $\phi 28.6$
- 3、 Only replace inserts to change size.



Stamping tool

- 1、 Form up or form down.
- 2、 Can make other symbol besides ground symbol.
- 3、 Dash tool can make various symbol in auto index station
- 4、 Please fill in the above form.



Thread form



- 1、 Form up or form down.
- 2、 Please fill in the above form.



LOUVER CLOSED END STYLE TOOLS

C.E. TOOLING OFFERS BOTH
STD=DEDICATED "A"
OR PROGRESSIVE
 STYLE LOUVERS AND CARD-GUIDES.

STANDARD SIZES

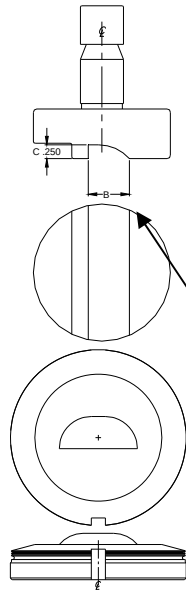
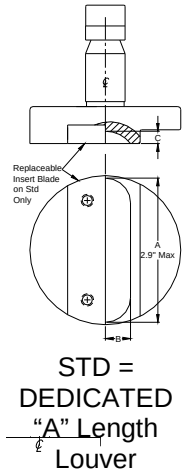
"A" LENGTH	"B"	"C"	"D"
1.25" 30mm	1/2"	3/16"	3/4"
2" 50mm			
2-	5/8"	1/4"	15/16"

Other size available.

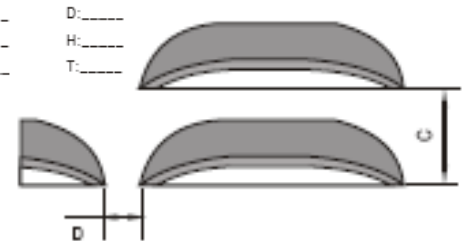
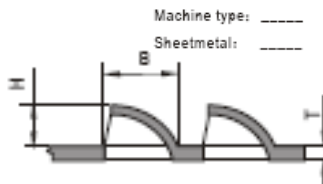
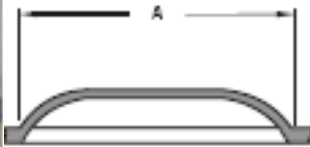
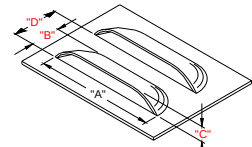
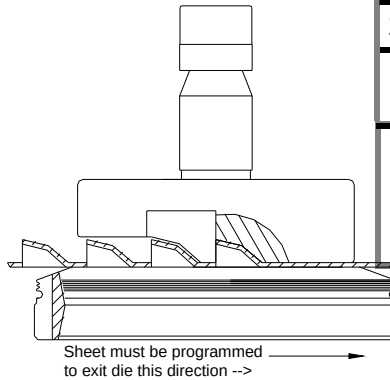
Max "A" Length Sta. 1: 1 1/4" / 30mm

Sta. II: 2.9" 60mm

Progressive "A" is unlimited.



Progressive/Nibbled Louver, "A" is unlimited. Requires more gentle radius than Dedicated. Further, Punch is made to set material thickness. See Section 1 page 16 for Further Info.

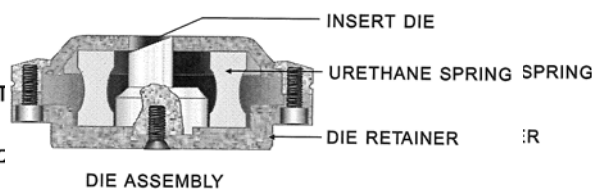
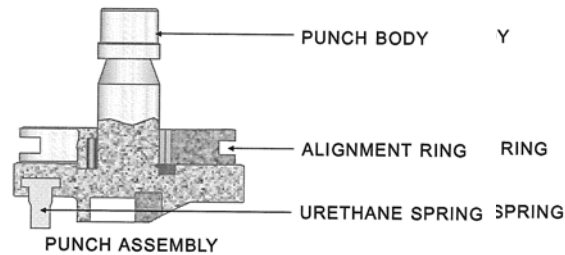
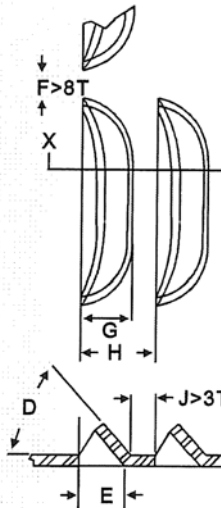
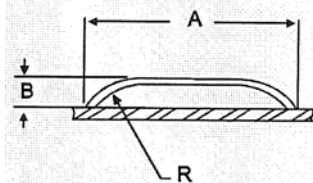


Machine type: _____
 Sheetmetal: _____

A: _____
 B: _____
 C: _____

D: _____
 H: _____
 T: _____

LOUVER CLOSED END, STRAIGHT



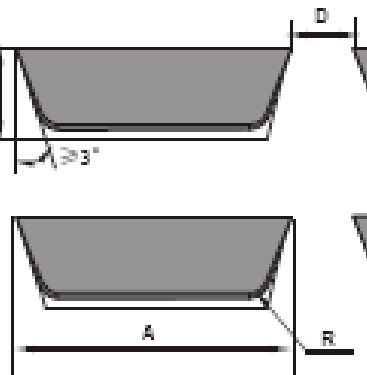
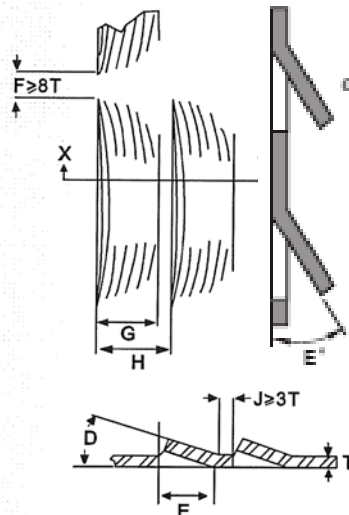
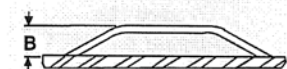
GENERAL INFO

Machine Type:	
Machine Model:	
Material Type:	
Tool Component:	

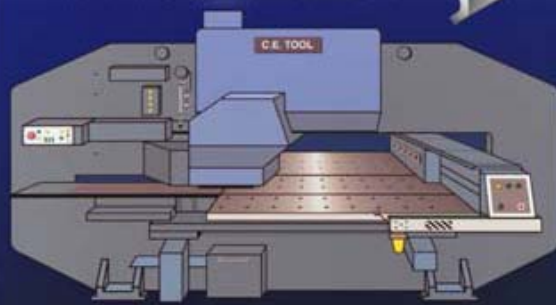
TOOL INFO

A	
B	
C(Angle):	
D(Angle):	
E:	
F:	
G:	
H:	
J:	
R:	
T(Thickness):	

LOUVER CONTINUOUSLY PROGRESSIVE

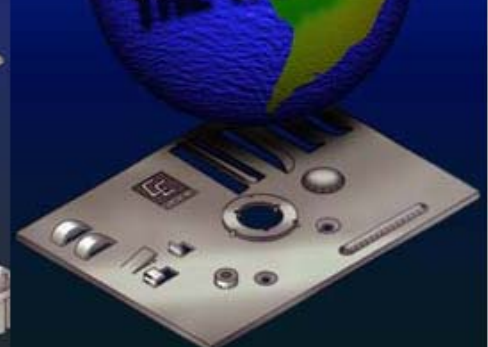


**FABRICATING TOOLS
and Accessories for most
Punching, Bending and
Shearing Equipment**



C.E. TOOLING, INC.

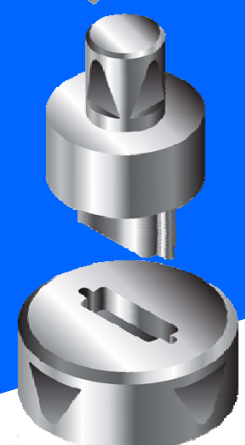
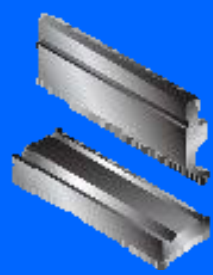
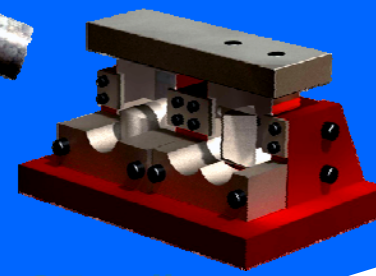
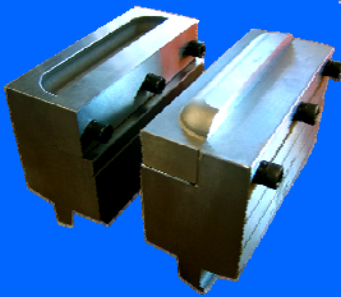
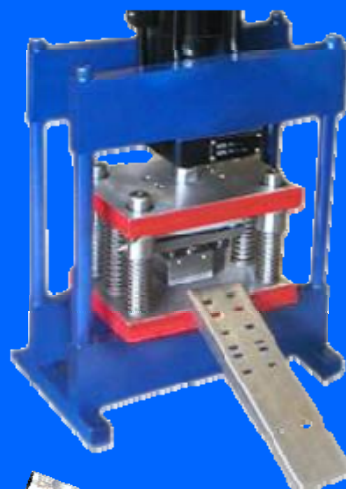
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C.E. TOOLING, INC.



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2560 W. Brooks Ave.
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ventas@CEtooling.com

skype [cetooling](https://www.skype.com/name/cetooling) or [cetooling-espanol](https://www.skype.com/name/cetooling-espanol)

Tel. 702 736-2958

Fax 702 736-3038



AGENT

