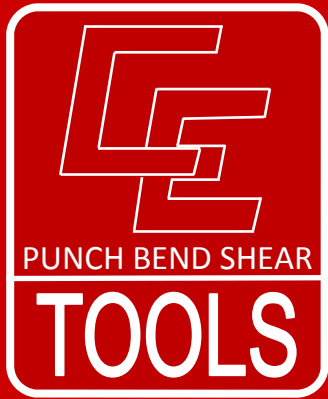
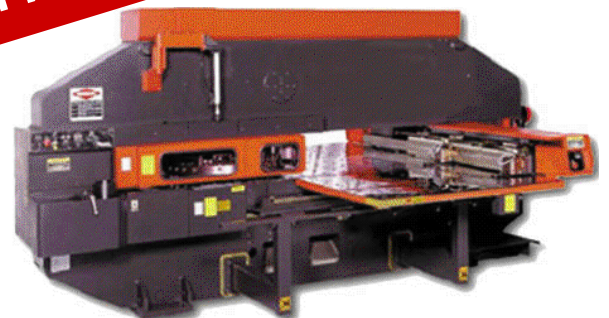
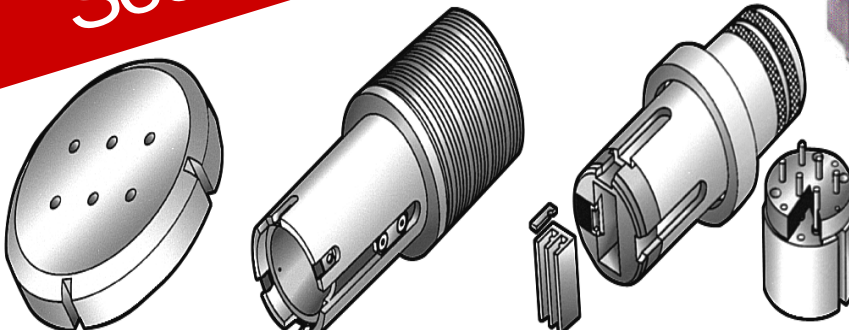




CE TOOLING

Section **3**
Tooling Booklet

See Section 1 For Technical Information



Amada • Strippit/LVD • Finnpower • Nisshinbo • Boschert • Etc...

STRIPPIT® is a Registered Trade Mark of the IDEX Corporation Inc.

THICK TURRET (AT) TOOLING

July. 2012



CE TOOLING

Tool Style Index

Search Catalog for specific items with Ctrl-F	Page
EUROMACH, FINPOWER, MATRIX: Multi Tools	
METRIC: Amada Style NCT, & Z-Tool Style Station A-F	
METRIC: Amada Style Air Blow, NCT, Z-Tool & Ultra Style Station A-E	
S80/INCH Style Original Inch-S80 & Old Style Tooling	
S90/HP Style HD, & Series 90 are registered trade marks of Wilson Tool	
Ultra® Style Tools Ultra Tec, Ultra XT, & XTM are registered trade mark of Mate Precision Tooling	

Dies Types: To allow the slug to fall through die land, a taper relief is given to allow slug to pass through with little drag.



Standard Round



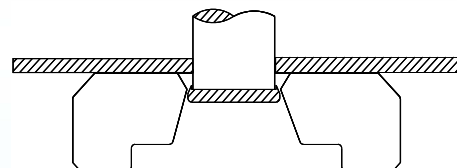
Straight + Positive



Option S/O

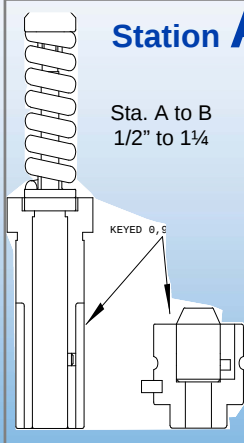


Option



Station Adapters Thick Turret

Sta. A to B
1/2" to 1 1/4"



To Use	Description	Part#	Price
A in B	Punch	ATB-PA	\$180.00
A in B	Die	ATB-DA	\$125.00
B in C	Punch	ATC-BPA	\$335.00
B in C	Die	ATC-BDA	\$150.00
B in D	Punch	ATD-BPA	\$450.00
B in D	Die	ATD-BDA	\$200.00
C in D	Punch	ATD-CPA	372.50
C in D	Die	ATD-	150.00



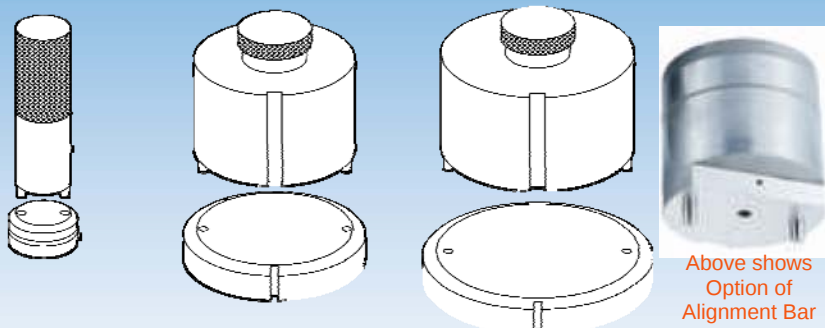
Character Marking

Accepts Replaceable Character Insert





CE TOOLING



Above shows
Option of
Alignment Bar

Punch Sharpening Fixture

To tallest point= 9.1"



Sta. A keyed	ATA-ALIGN-PD	
A non-keyed	ATA-ALIGN-PD2	
Not shown, used with keyed unit, to align multi-3 die holder. keyed unit placed in outer non-keyed in inner		
Sta. B	ATB-ALIGN-PD	
Sta. C	ATC-ALIGN-PD	
Sta. D	ATD-ALIGN-PD	
Sta. E	ATE-ALIGN-PD	
Optional feature allows attachment of alignment bar used to align Index (C-axis) or Multi-Tool or turret styles that have bolt station holders (Ex. Finnpower) Operator uses dial indicator on magnetic base (not included) to move axis and bring orientation with in .001"/.025mm		
Add \$90.00 to basic alignment tool (+ -ab to above part#) .		
Alignment bar used for all stations part# *A-ALIGN-bar \$75.00		

STRIP GUARD Adhesive Disks

Stripper / Guide	Dia.	Qty	Part#	Price
1/2	.87	10 pcs	*A06082	
1-1/4	1.75	10 pcs	*A06084	
2"	2.2	10 pcs	*A06085	
3-1/2	3.67	10 pcs	*A06086	
4-1/2	4.67	10 pcs	*A06088	
Reduces marring of material by the stripper. Just peel off adhesive backing, and attach to stripper face. Use sharp knife blade to cut out stripper opening.				

Slug Ejectors By default holes are placed in punch tip sizes >.270"/6.86mm		
EJECTOR For Hole Size	Clover 	Round  4W, 2W, 2B
.078/2mm		*AEJ-R2 50pc \$32.50
.109/3mm	*AEJ-C3 \$1.25	
6mm-.25"	*AEJ-C6 \$1.25	*AEJ-R7 50pc \$32.50
.394/10mm	*AEJC10 \$1.25	
.594/15mm		

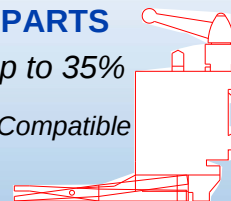
**Amada
Machine
Parts
See
Section 11
booklet.**

WORK HOLDER PARTS



Save! up to 35%

O.E.M. Compatible



KEYS:
Turret-Guides
Section 11
Booklet





STANDARD KEYING

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

LOOKING AT FACE OF PUNCH		LOOKING AT TOP OF DIE
	Sta. A & B $\frac{1}{2}$ • $1\frac{1}{4}$	
	Sta. C 2"	
	Sta. D 3½"	
	Sta. E 4½"	
	Series 80 Sta.C-E 2"-4½"	
		SPECIAL SHAPES SHIPPED IN 2-8 days Expediting: 3 days 10%, 2 days 30%, 1 day 50%

Shapes on Angles or Extra Key Locations. Die View

Visualize location key positioned as tool would load into turret. Start with length of shape horizontal. (Length points to 0°) Next Rotate shape, not location key.

A sketch accompanying your order ensures keying as required! Note: Other Manufactures ordering diagrams may differ from C.E.'s!

Expediting FDS=Firm Delivery Service

• Order by 1pm,

Tool Styles: AT, AS, ST:
1 day FDS=25% 2 day FDS=10%

Tool Styles 36tc, 28st, 92/93
1 day FDS=50% 2 day FDS=25%



ULTRA-TecTM 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	
GuideK0,45,90	ATAGU2	
B Holder		
Driver Ass'y	ATBDAU	
Guide K0 & 90	ATBGU1	
GuideK0,45,90	ATBGU2	



Ultra, QuickHitTM are trade marks of Mate Precision



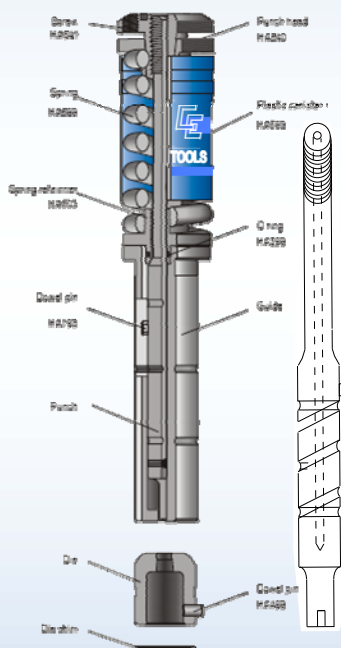
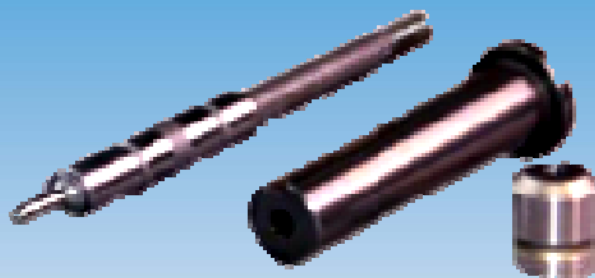
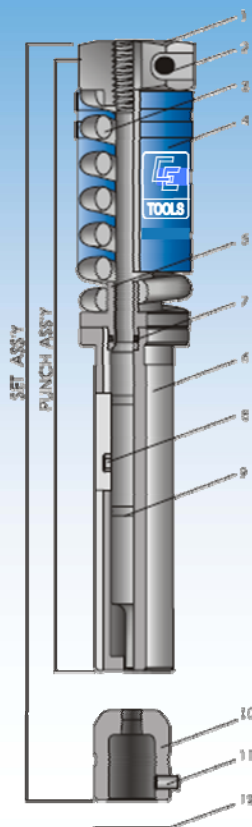
	Description	Part#	Price
A STATION	Sta. A Punch		US-\$
	Sta. A Round	ATAPur	
	Sta. A Shape	ATAPus	
	STRIPPER		
	Round	ATASur	
	Shape	ATASus	
	DIE w/Slug Feature		
	Round	ATADmstr	
	Shape	ATADmsts	
	Shim 3pc .4, .8, 1.2	AATADS	
B STATION	Punch		
	Round	ATBPur	
	Shape	ATBPus	
	STRIPPER		
	Round	ATBSur	
	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	



METRIC (Industry Standard) NCT & ABS Style

1/2 Station A Range .093-.500"/2,36-12,7mm

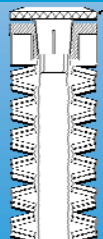
Max. Material 7 ga. MS



NTC Standard	CE Part # * = r-round s-shape	Round	Shape
PUNCH ASSEMBLY	AtAPAm-*		
DIE	ATAD-*		
DIE w/Slug Trap™ S/F	ATADst-*		
Die w/Slug Z Hugger S/O	ATADso-*		
PUNCH	ATAPm-*		
GUIDE	ATAG-m*		

NCT AIR BLOW	CE Part #	Round	Shape
PUNCH ASSEMBLY	ATA-PAv-*		
DIE	AT-A-D-*		
DIE w/Slug Trap™ S/F	AT-A-D-st*		
DIE w/Slug Z Hugger S/O	AT-A-D-so*		
DIE w/Power Vacuum Die	ATA-D-v*		
Die Shim 3pc .4, .8, 1.2	*AATADS		
PUNCH M-2 High Speed	AT-A-Pv-*		
GUIDE	AT-A-Gv-*		

HEAVY DUTY	CE Part #	Round	Shape
Punch Ass'y	ATAPAm-hd*		
PUNCH	ATAPm-hd-*		
Punch Ass'y ABS	ATAPAvhd-*		
PUNCH ABS	ATAPvhd-*		

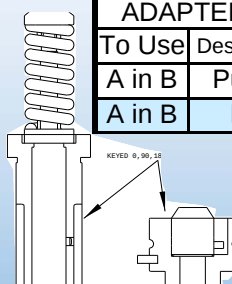


PUNCH HSS (M2)
+ 1° Back taper to
assist stripping, and
reduce gauling

DISC SPRING
Max. 1/4" M.S.

ADAPTER Use A in Sta. B Turret

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



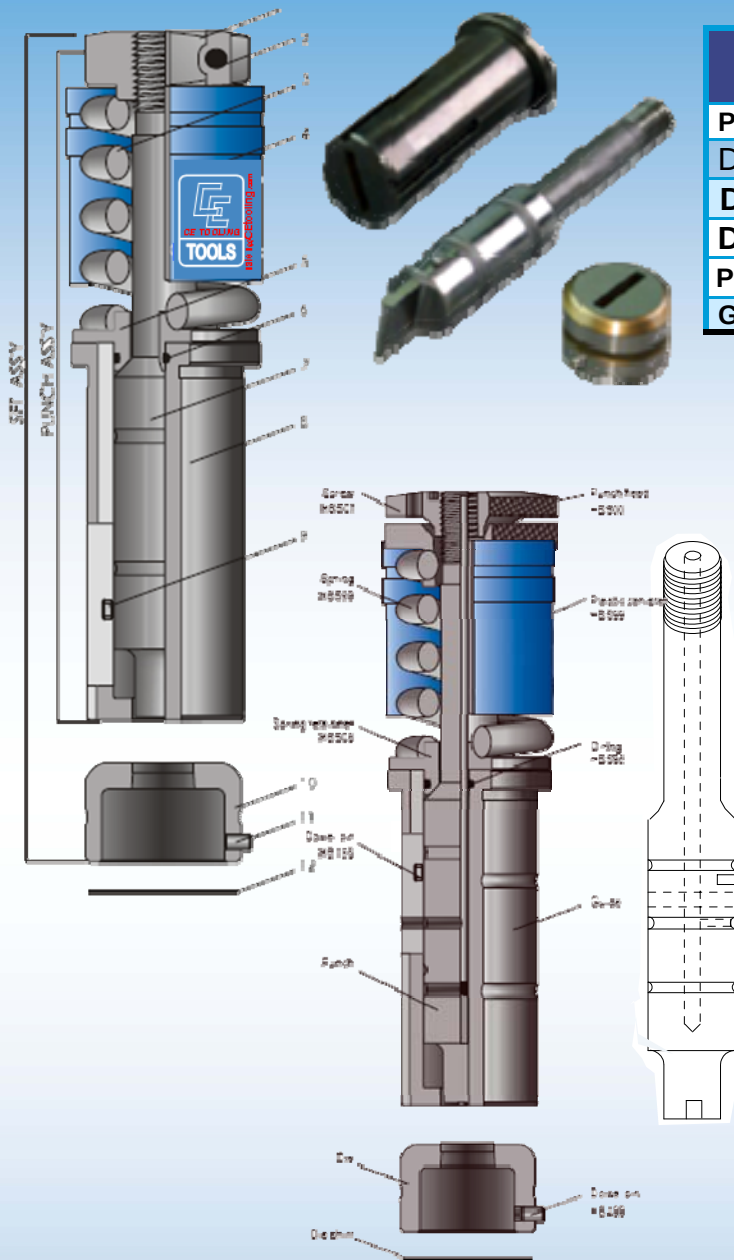
COMPONENT PARTS	CE Part #	
PUNCH HEAD Side Lock	AT-A-Hm	
COIL SPRING	AT-A-Sm	
DISC SPRING (Set of 24)	AT-A-DS-m	
SPRING RETAINER	AT-A-SRm	
Extended B Dimension to Give More Punch Life		
After .08"/2,mm Grind Red ATASR2		
After .16"/4,mm Grind (Green)		
O-RING	ATAG-Oring-m	
Die Shim 3pc .4, .8, 1.2	AATADS	



METRIC (Industry Standard) NCT & ABS Style

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

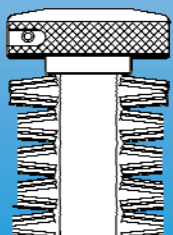
Max. Material 1/4=6m MS



NCT 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-*		

NCT AIR BLOW	Part #	Round	Shape
Punch Assembly	ATB-PAV-		
DIE	AT-B-D-*		
DIE w/Slug Trap™ S/F	AT-B-D-st*		
Die w/Slug Z Hugger S/O	AT-B-D-so*		
Die w/Power Vacuum Die	ATB-D-v-*		
PUNCH	AT-B-Pv-*		
GUIDE –Solid	AT-B-Gv-*		
Guide –Open RSP	ATBGv-rsp-*		
Stripper RSP	ATB-S-abs-*		

HEAVY DUTY	CE Part #	Round	Shape
Punch Ass'y	ATBPAm-hd*		
PUNCH	ATBPm-hd-*		
Punch Ass'y ABS	ATBPVhd-*		
PUNCH ABS	ATBPvhd-*		



PUNCH HSS (M2)
1° Back taper to assist
stripping, and reduce
gauling
Triple Temper

DISC SPRING
Max. 3/8" M.S.

8COMPONENT 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	AATBDS	

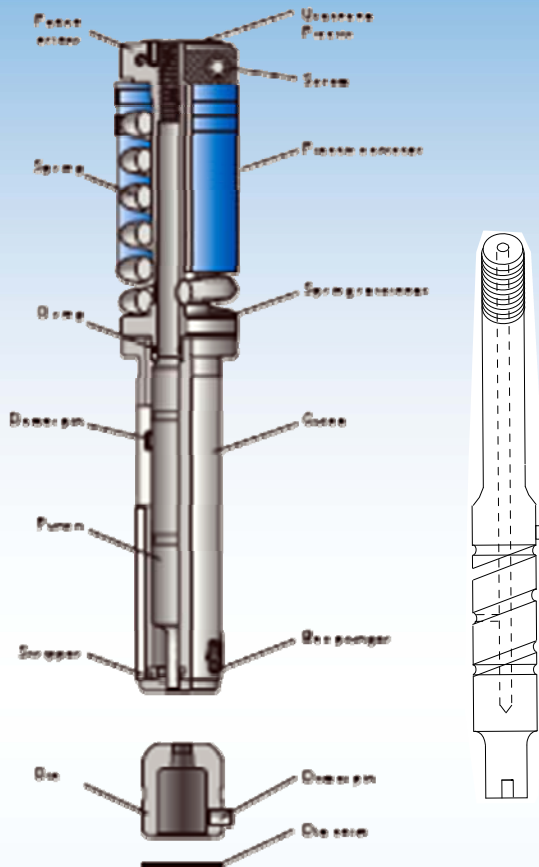


METRIC Z-Tooling Std & ABS style

1/2 Station A Range .093-.500"/2,36-12,7mm

Max. Material 7 ga. MS

Compatible to Amada **Z-Tooling**
Spring Pack



Z-Tooling Standard	CE Part # * = r-round s-shape	Round	Shape
PUNCH Assembly solid guide	ATA-Pam-ky-*		
PUNCH ASSEMBLY w/RSP	AT-A-PAM-OkY*		
DIE	AT-A-D-*		
DIE w/Slug Trap™ S/F	AT-A-Dst-*		
Die w/Slug Z Hugger S/O	AT-A-Dso-*		
PUNCH	AT-A-Pm-*		
GUIDE –Closed	AT-A-Gm*		
Guide –Opened RSP	AT-A-GmO-*		
Guide RSP Stripper Plate	ATA-Sw		

Z-Tooling ABS	CE Part #	Round	Shape
Punch Assembly solid guide	ATA-PAv-ky-*		
Punch Assembly –w/RSP	ATA-PAV-kyO-*		
DIE	AT-A-D-*		
DIE w/Slug Trap™ S/F	AT-A-D-st*		
DIE w/Slug Z Hugger S/O	AT-A-D-so*		
DIE w/Power Vacuum Die	ATA-D-v*		
PUNCH	AT-A-Pv-*		
GUIDE –Solid Guide	AT-A-Gv-w-*		
Guide –escepts RSP	AT-A-Gky-wO-*		
RSP Stripper Plate	AT-A-Sw *		



COMPONENT PARTS	CE Part #	Price
Driver Assembly	ATADA-KY	
Die Shim 3pc .4, .8, 1.2	AATADS	

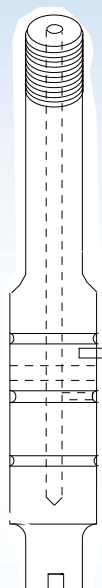
Station **Adapters** Thick Turret



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



**Compatible to Amada *Z-Tooling*
Spring Pack**



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

Z-Tooling ABS	CE. Part #	Round	Shape
PUNCH Assembly <i>solid guide</i>	ATB-PAv-ky*		
PUNCH ASSEMBLY <i>w/RSP</i>	ATB-PAvo-ky*		
DIE	AT-B-D-*		
DIE w/Slug Trap™ S/F	AT-B-D-st*		
DIE w/Slug Z Hugger S/O	AT-B-D-so*		
Die w/Power Vacuum Die	ATB-D-v-*		
PUNCH	AT-B-Pv-*		
GUIDE –Solid	AT-B-Gv-*		
Guide –escepts <i>RSP</i>	ATB-Gvrsp-*		
<i>RSP</i> Stripper Plate	ATB-S-abs-*		

COMPONENT PARTS	CE Part #	Price
Driver Assembly	ATBDA-KY	
Die Shim 3pc .4, .8, 1.2	AATBDS	





INCH S80 Series Original Series 80

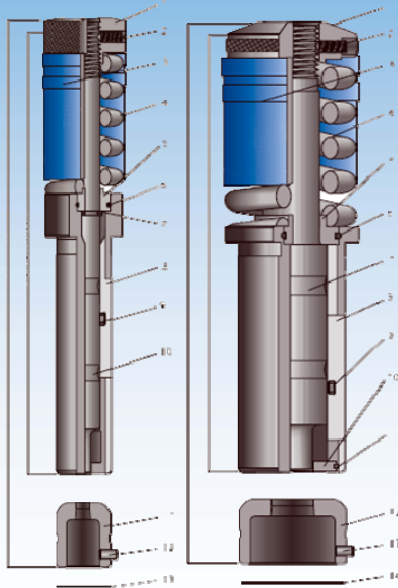
1/2 Sta.A Range .093-.500"/2,36-12,7mm 1-1/4 Sta.B Range .501-1.250"/12.7-31.7mm

Standard Pricing is for Punch Tip Sizes .093 (2,3mm) and Above

Max. Material 7 ga. MS

1/2 Sta. A

1-1/4 Sta. B



WT COMPATIBLE DESCRIPTION	Part # *= R-round S-shape	ROUND	SHAPE	Round	Shape
PUNCH ASSEMBLY	AT-a/b-PAi-*				
DIE	AT-a/b-D-*				
DIE w/Slug Trap™ S/F	AT-a/b-Dst-*				
Die w/Slug Z Hugger S/O	AT-a/b-Dso-*				
PUNCH includes Retain Clip	AT-a/b-Pi-*				
GUIDE Fitted	AT-a/b-Gi*				



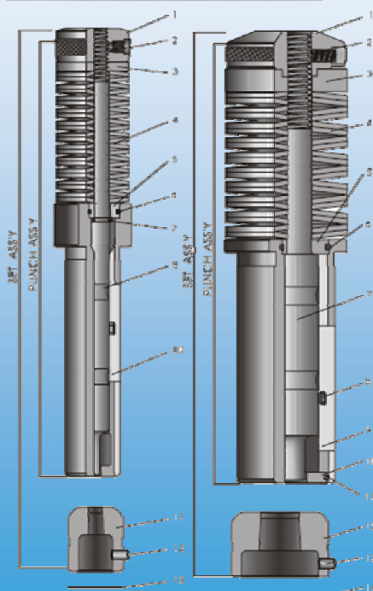
COMPONENT PARTS	Part #	\$	\$
PUNCH HEAD = WT	AT-a/b-Hi		
PUNCH HEAD Side Lock	AT-a/b-Hi-sl		
COIL SPRING	AT-a/b-Si		
SPRING RETAINER	AT-a/b-Sri		
O-RING	ATAGOring-m		
Strip Guard Adhesive Disc	*A06084		
Die Shim 3pc .4, .8, 1.2	AATa/bDS		

Heavy Duty Series SPH80 (Inch)



Max. material 1/4"/6,mm mild steel
1° total back taper on punch tips to reduce gauling build up and stripping pressure.

WT COMPATIBLE	Part #	Round	Shape	Round	Shape
PUNCH ASSEMBLY	AT-a/b-PAi-hd*				
DIE	AT-a/b-D-*				
DIE w/Slug Trap™ S/F	AT-a/b-Dst-*				
Die w/Slug Z Hugger S/O	AT-a/b-Dso-*				
PUNCH (MD Heavy Duty)	AT-a/b-Pi-hd-*				
GUIDE Fitted	AT-a/b-Gi-*				



	COMPONENT PARTS	Part#	Price	Price
1	PUNCH HEAD	AT-a/b-Hi		
	PUNCH HEAD Side Lock	AT-B-Hi-sl		
2	Set Screw Long Coin Point	*A6297		
4	SPRING DISC Set (_ /20)	AT-a/b-DS-I		
5	SPRING SUPPORT /Retainer	AT-a/b-Sri		
6	O-Ring for Spring Support	AT-a/b G-Oring		
7	Punch Retainer Clips 4pc	AT-a/bPC		
	Punch Shims pack of 25pc			
	Strip Guard Adhesive Disc 10pc	*A06082		
	Die Shim 3pc .4, .8, 1.2	AAT-a/b-DS		

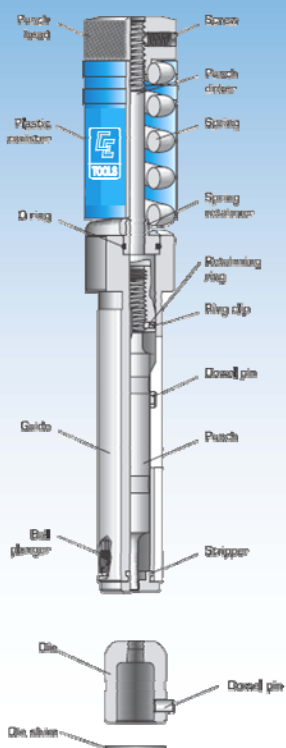


WT S90/HP Style *Standard & WLS-ABS*

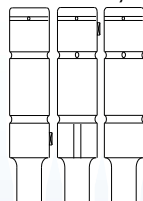
1/2 Sta.A *Range .093-.500"/2,36-12,7mm* 1-1/4 Sta.B *Range .501-1.250"/12.7-31.7mm*

Max. Material 7 ga. MS

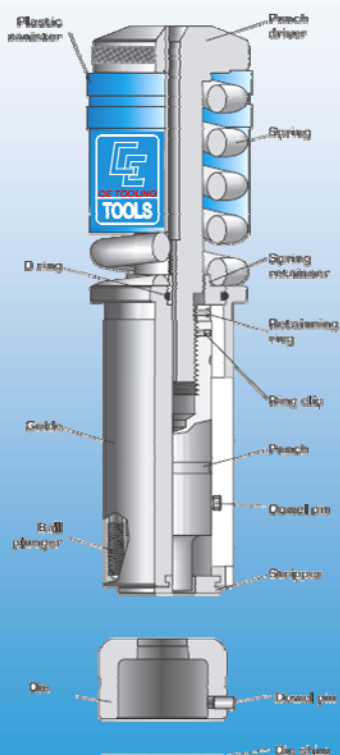
Max. Material 1/4=6m MS



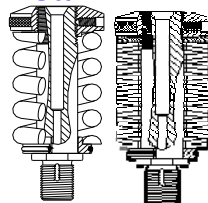
HP™ ABS,



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-Ds0-*		
Driver Assembly Std	ATADAs90		
Die Shim 3pc .4, .8, 1.2	AAT-a/b-DS		



STD HP
Std



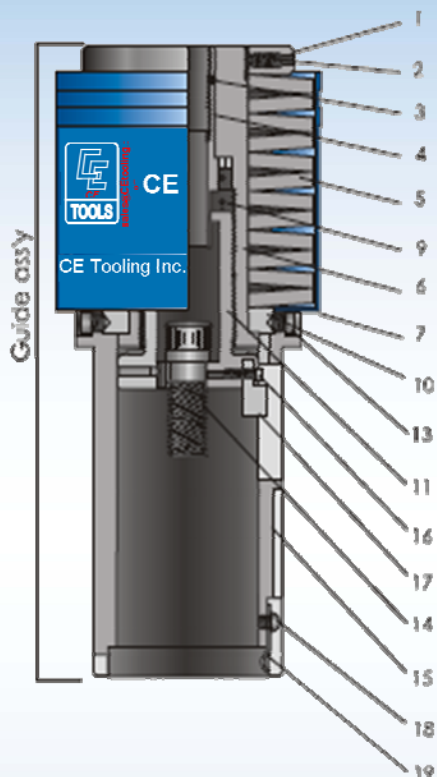
Description	Part#	Round	Shape
Punch & Guide Assembly	ATB-Paw9-*		
Punch & Guide Ass'y abs-wls	ATB-Paw9L*		
PUNCH	ATB-Pw9-*		
Punch WLS - ABS	ATBPw9v-*		
Guide RSP Std Style	ATB-Gw-*		
Guide RSP WLS -ABS Style	ATB-Gi-V-rps-*		
STRIPPER PLATE	ATB-Sw9-*		
STRIPPER PLATE WLS-ABS	ATB-Sw9v-*		
DIE	ATB-D*		
DIE w/SLUG TRAP™ S/F	ATB-D-st-*		
Die w/SLUG HUGGER™ S/O	AT-B-Ds0-*		
Driver Assembly Std	ATBDAs90		
Die Shim 3pc .4, .8, 1.2	AATBDS		



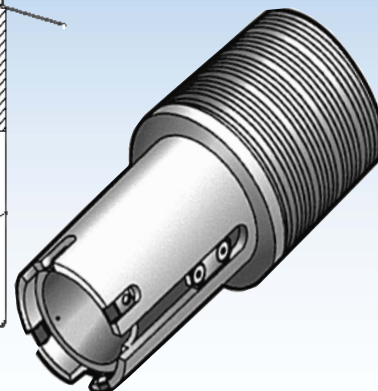
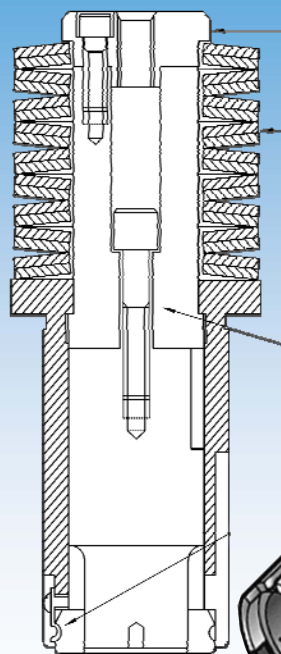
METRIC NCT, Z-Tool, Ultra Similar M12 Thread

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

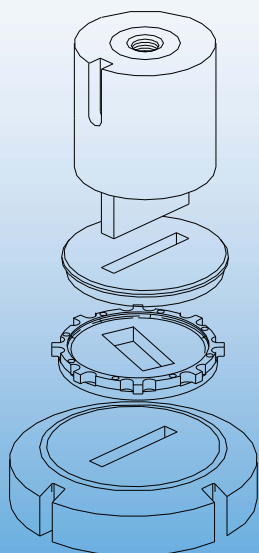
Push Button Adjustable Length
Holder Standard & ABS
Key 0,90&45 Part# ATCGAmE82



NCT Amada Compatible
Non-Adjustable
Holders Use Shims
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-CDA	
B in C	Punch	ATC-BPA	
B in C	Die	ATC-BDA	



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 Similar M12 Thread Full Body Style 3½ Sta. D Range 2.001 - 43500"/50.81 - 88,9mm

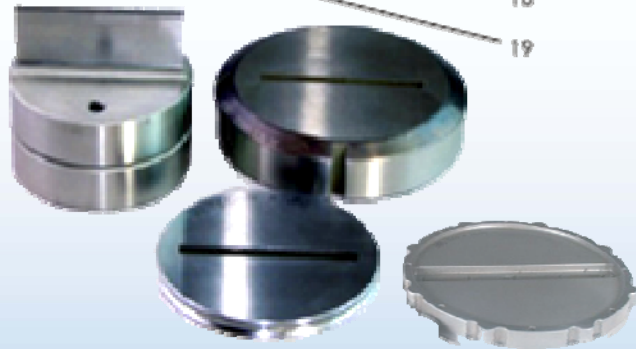
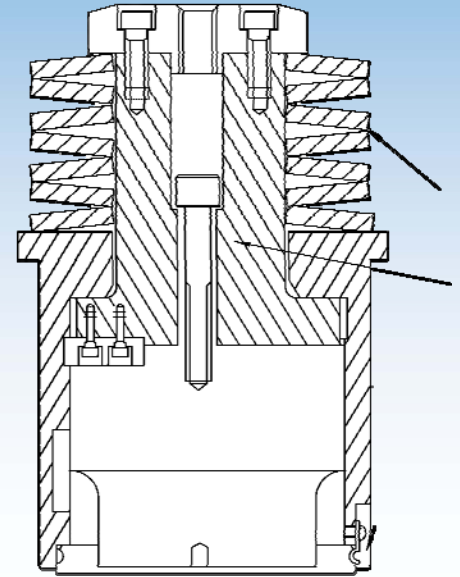
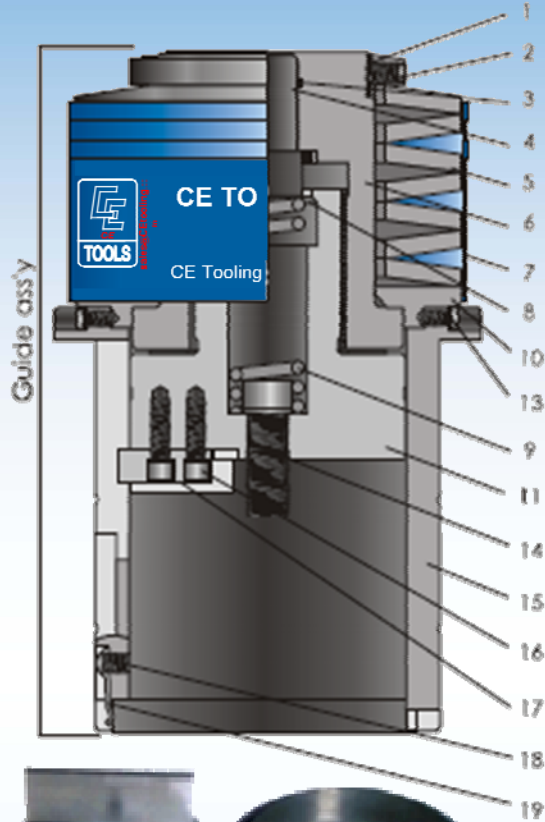
Push Button Adjustable Length
Holder **Standard & ABS**

Key: 0&90 Part# ATDGAmE81

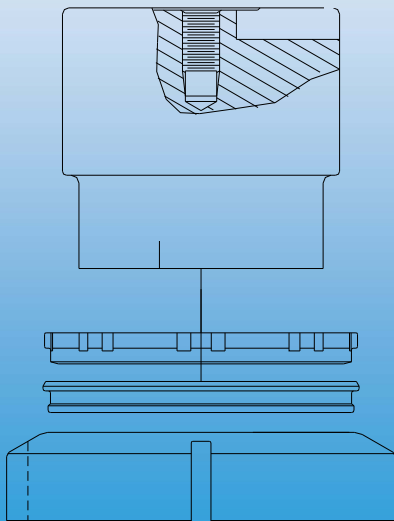
NCT Amada Compatible Non-Adjustable Holders Use Shims

Key 0 & 90

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-	
B in D	Punch	ATD-BPA	
B in D	Die	ATD-BDA	

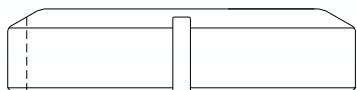
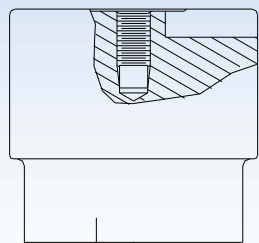


DESCRIPTION	Part # * R-round S-shape	Round	Shape
PUNCH <i>m=metric or i=inch threads</i>	ATD-P <u>m</u> -*		
Punch Shim 3pc .4, .8, 1.2	*AATPPS		
STRIPPER Available as AM, WT, ULtra	ATD-S-AM-* ATD-SWT-* ATD-S-UL-*		
DIE	ATD-D-*		
DIE w/Slug Trap™ S/F	ATD-Dst-*		
Die w/Slug Z Hugger S/O	ATD-Dso*		
Die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



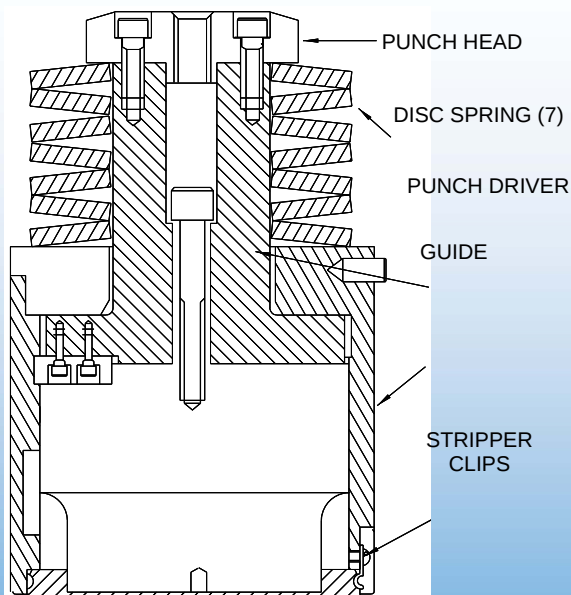
METRIC NCT, Z-Tool, Ultra Equivalent M12 Thread Full Body Style 4 1/2 Sta. E Range 3.501 - 4.500"/88.92 - 114.3mm

For use in Holders Styles: E&M Series + Amada Z-Tool, Alpha & NCT, Mate® Ultra Tec® & Ultra XT® and WT "Old Style" Standard & WLS



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>	ATE-P _m -* ATE-P _i -*		
STRIPPER —Available as AM, WT, ULtra	ATE-S-AM-* ATE-S-WT-* ATE-S-UL-*		
DIE	ATE-D-*		
DIE w/Slug Trap™ S/F	ATE-D-st-*		
Die w/Slug Z Hugger S/O	ATE-D-so-*		
Die Shim 3pc .8,	AATEDS		



NCT AMADA Compatible	CE Part #	Price
LS™GUIDE ASSEMBLY	ATE-GA	
PUNCH HEAD	ATE-PH	
S.H.C.S. (M8X20)	ATCDE-8X20	
SPRING DISC (7)	ATDE-SD	
PUNCH DRIVER	ATE-PD	
DRAW BOLT <i>i=1/2"orm=</i> M12 X70	ATDE-DB-_X70	
GUIDE Keyed 0,90°	*A ATE-G	
KEY (W/M5X8 S.H.C.S.)	AT-DE-K	
STRIPPER CLIPS W/SCREWS	AT-CDE-SC	

Amada 6" Sta. F

SIZE RANGE 4.501-6.000"/114.3-152.4mm

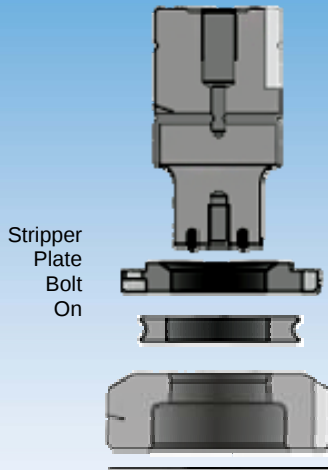
DESCRIPTION	CE PART #	ROUND	SHAPE
PUNCH	ATF-P-m-*		
STRIPPER	ATF-S-am-		
DIE	ATF-D-*		



ABS-Series (Metric) *M14 Thread* Z-Tool Style

For machines equipped with ABS/Air Blow System)

For use in Holders Styles: *Amada Z-Tool & Alpha*



Sta. C, 2" Range 1.251-1.85" / 31,76 - 47mm	Part#	\$ Round	\$ Shape
PUNCH <i>M14 thread</i>	AT-C-Pv-*		
STRIPPER <i>Bolt On</i>	AT-C-Sbv-*		
STRIPPER <i>Z-Style</i>	ATC-S-mv-*		
DIE	AT-C-D-*		
DIE w/Slug Trap™ S/F	AT-C-Dst-*		
Die w/Slug Z Hugger S/O	ATC-Dso-*		

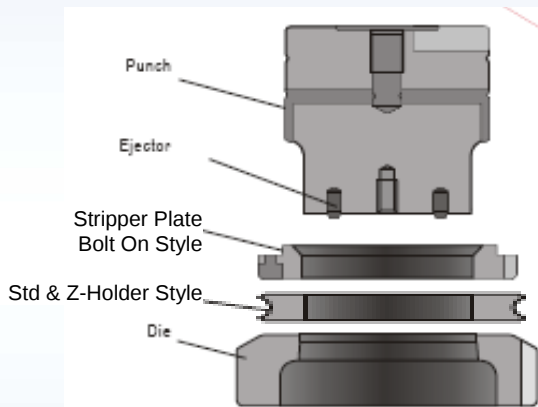
Sta. A Maximum material 3/8" Mild Steel

Rounds<1.251" +\$10 to punch, Shapes Diagonal <1.251" +\$15

Shaped Punches Keyed 0 for location at 0 & 90° Additional Keys add \$50

Shaped Dies Keyed 0 & 90° Squares 0 & 45° Additional Die Keys + \$25

Shapes on angles + \$25 each to Punch, Die & Stripper



Sta. D, Range 1.851-3.370" / 47,01-85,6mm	Part #	Round	Shape SHAPE
PUNCH <i>M2 M14 thread</i>	AT-D-Pv-*		
STRIPPER <i>Bolt On</i>	AT-D-Sbv-*		
STRIPPER <i>Z-Style</i>	ATD-S-mv-*		
	ATC-Swt-*		
DIE	AT-D-D-*		
DIE w/Slug Trap™ S/F	AT-D-Dst-*		
Die w/Slug Z Hugger S/O	ATD-Dso*		

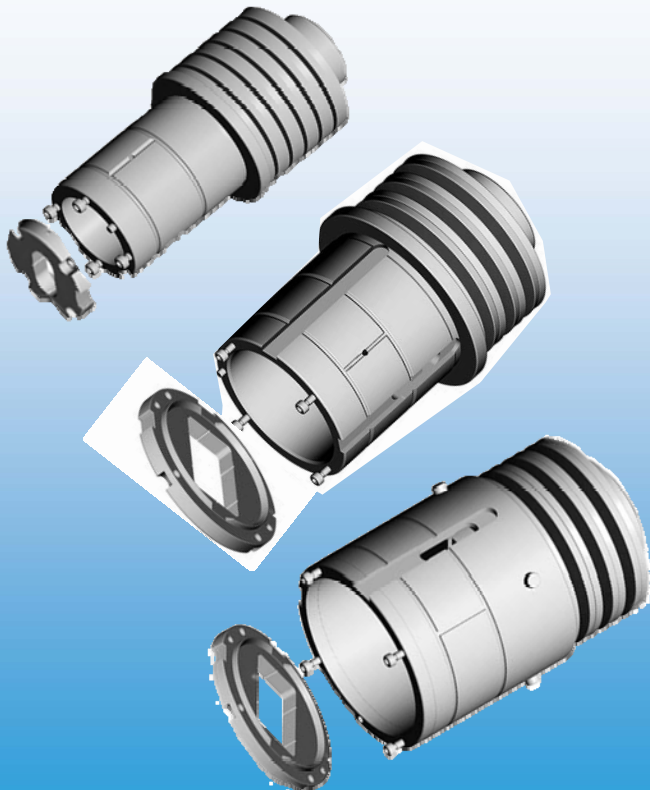
Sta. D Maximum material 3/8" Mild Steel

Rounds<2.001" +\$10 to punch, Shapes Diagonal <2.001" +\$25

Shaped Punches Keyed 0 for location at 0 & 90° Additional Keys add \$50

Shaped Dies Keyed 0 & 90° Squares 0 & 45° Additional Die Keys + \$25

Shapes on angles + \$25 each to Punch, Die & Stripper



Sta. E Range 2.851-4.370" / 85,61-110,5mm	Part#	Round	Shape SHAPE
PUNCH <i>M2 M14 thread</i>	AT-E-Pv-*		
STRIPPER <i>Bolt On</i>	AT-E-Sbv-*		
STRIPPER <i>Z-Style</i>	ATE-S-mv-*		
	ATC-Swt-*		
DIE	AT-E-D-*		
DIE w/Slug Trap™ S/F	AT-E-Dst-*		
Die w/Slug Z Hugger S/O	ATE-D-so-*		

Sta. E Maximum material 3/8" Mild Steel

Rounds<2.001" +\$10 to punch, Shapes Diagonal <2.001" +\$25

Shaped Punches Keyed 0 for location at 0 & 90° Additional Keys add \$50.

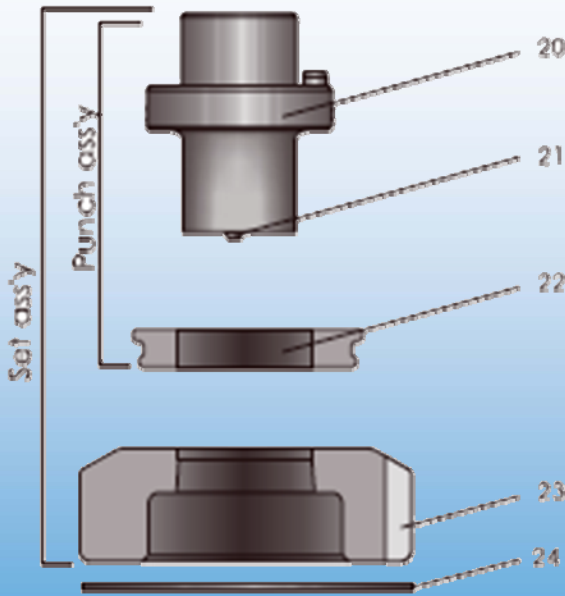
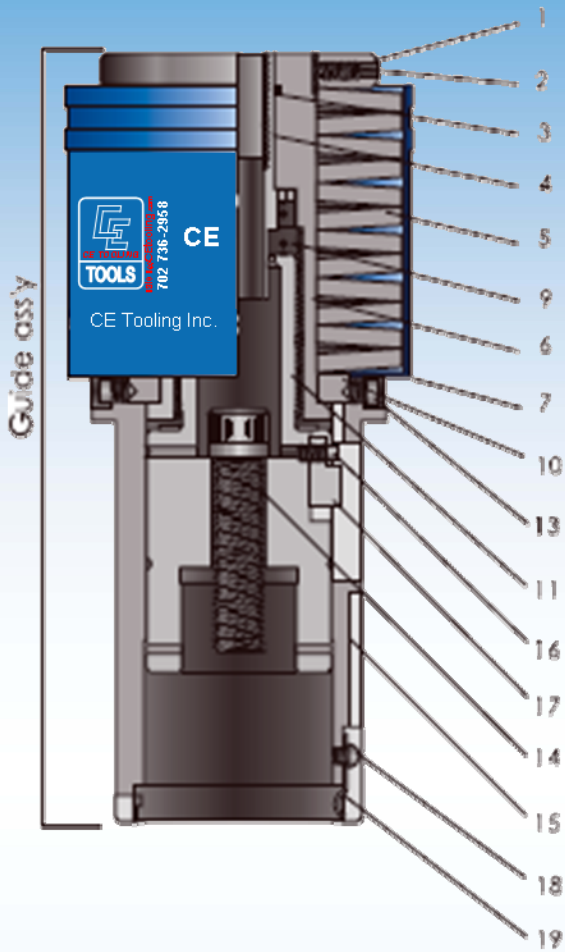
Shaped Dies Keyed 0 & 90° Squares 0 & 45° Additional Die Keys + \$25

Shapes on angles + \$25 each to Punch, Die & Stripper



S90/HP STYLE TOOLS

2 Sta. C Range 1.251-2.0"/31,76-50,8mm



Push Button Adjustable
Length Holder **Standard & ABS**
 Key: 0,90&45 Part# ATCGAw9v2

Item 18 \$1.40 each
 Item 19 \$2.80 each



DESCRIPTION	Part#	Round	Shape
SET Punch, Die & Stripper (Standard Stripper & Die)	ATC-PDSwt-*		
PUNCH	ATC-Pwt-*		
STRIPPER <u>Standard</u>	ATC-S-wt-*		
STRIPPER "ABS"	ATC-S-wt-abs-*		
DIE	ATC-D-*		
DIE w/Slug Trap™ S/F	ATC-D-st-*		
Die w/Slug Z Hugger S/O	ATC-D-so-*		
Die Shim 3pc .4, .8, 1.2	AATCDS		

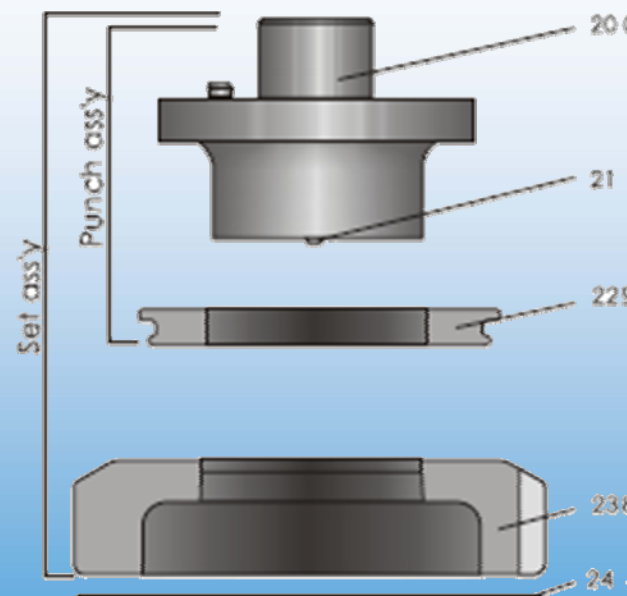
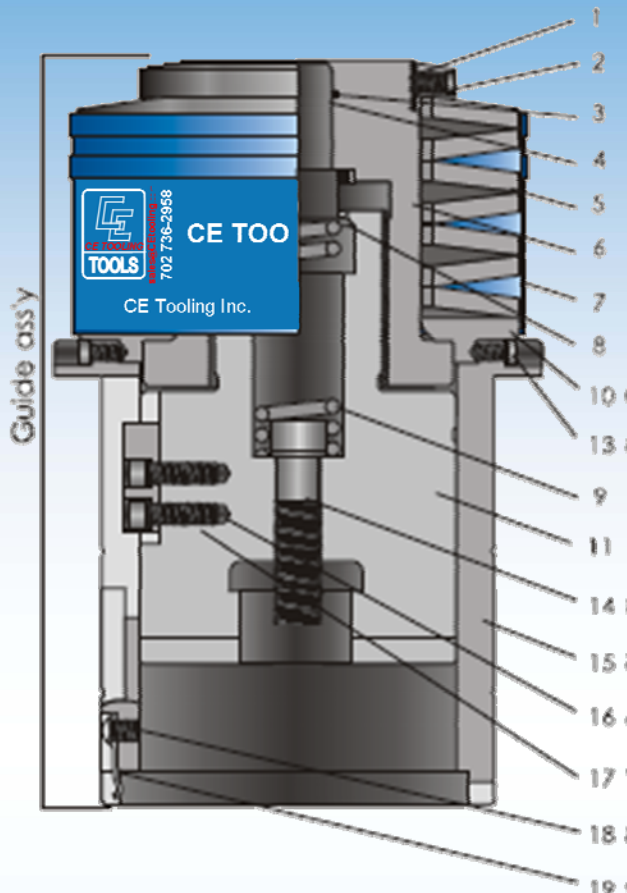


S90/HP STYLE TOOLS

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



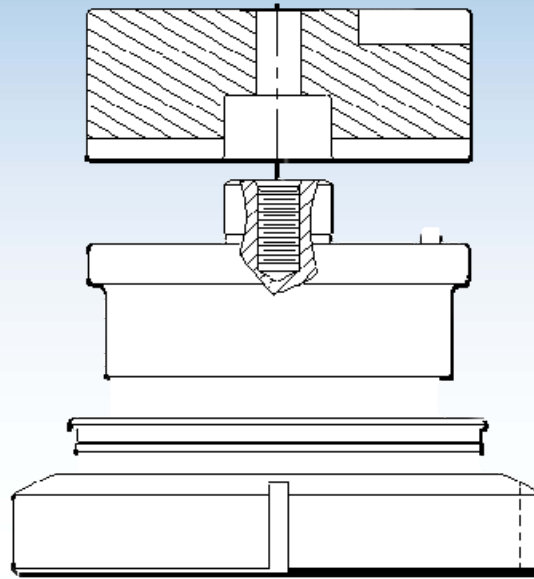
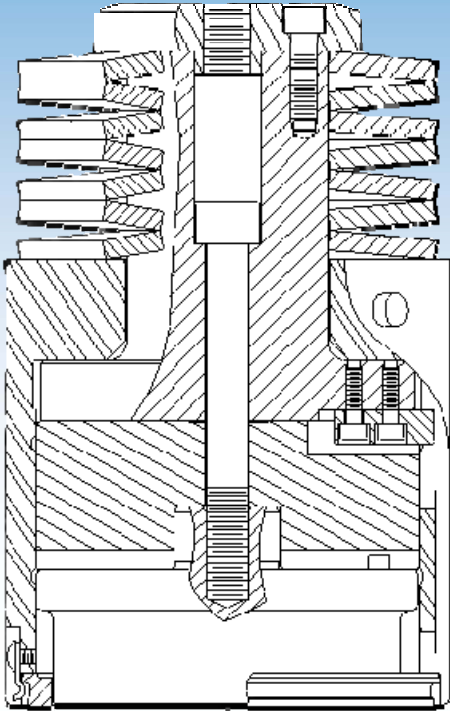
DESCRIPTION	Part#	ROUND	SHAPE
SET Punch, Die &	ATD-PDSwt-*		
PUNCH	ATD-Pwt-*		
STRIPPER <i>Standard</i>	ATD-S-wt-*		
STRIPPER "ABS"	ATD-S-wt-abs*		
DIE	ATD-D-*		
DIE w/Slug Trap™ S/F	ATD-D-st-*		
Die w/Slug Z Hugger S/O	ATD-Dso*		
Die Shim 3pc .4, .8, 1.2	AATDDS		



S90/HP STYLE TOOLS

4-1/2 Sta. E Range 3.501 - 4.500"/88.92 - 114.3mm

Adjustable length holder not yet available. Below is Industry standard holder with adapter for WT Punch.



Adapters enable use of S80/90/HP Style Punches

ATEGAWT \$1,209.25

Adapter Only:

ATEADWT \$294.25

STRIPPER STYLES

AM Style for use in CE, or Amada mfg. Guides

WT Style for use with S90/HP style of guides

UL Style for use with Mate

Description	Part #	\$
LS™ Guide Assembly	ATE-GAwT	
PUNCH HEAD	ATE-PH	
S.H.C.S. (M8X20)	ATCDE-8X20	
SPRING DISC (7)	ATDE-SD	
PUNCH DRIVER	ATE-PD	
DRAW BOLT 1/2"-13X_0	ATDE-DB-iX_	
GUIDE Keyed 0,90°	*A ATE-G	
KEY (W/M5X8 S.H.C.S.)	AT-DE-K	
STRIPPER CLIPS w/SCREWS	AT-CDE-SC	
WT Punch Adapter	*A-ATEADWT	



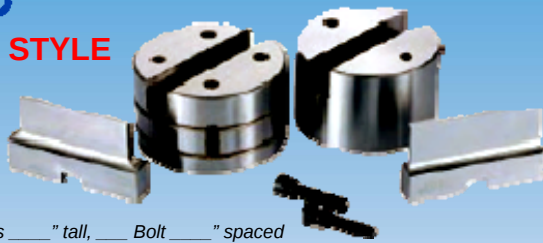
DESCRIPTION	CE Part #	ROUND	SHAPE
SET Punch, Die & Stripper	ATE-PDSwt-*		
PUNCH	ATE-Pwt-*		
STRIPPER <u>Standard</u>	ATE-S-wt-*		
STRIPPER "ABS"	ATE-S-wt-abs		
DIE	ATE-D-*		
DIE w/Slug Trap™ S/F	ATE-D-st-*		
Die w/Slug Z Hugger S/O	ATE-D-so-*		
Die Shim 3pc .8,	AATEDS		



Insert BLADES For use in Full Body Holders E or M

Size Range Width .125 (3,mm) - .500 (12.7mm) Length 1.968" (50,mm) -4.400(110,8mm)

AMADA STYLE

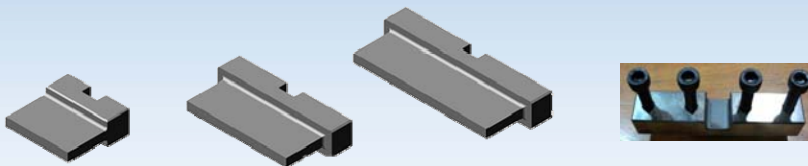


Insert Blades ____" tall, ____ Bolt ____" spaced

AMADA Style Insert Blades

BLADE	Part#	#	PRICE	Notes
1.968 - 3.400 50 -86,mm	ATD-IBam-RT			Blade Width ____"
3.401-4.400" 86,-110,mm	ATE-IBam-RT			
Bolts w/lock washer				

Mate Ultra® Style Slitting Tools



Insert Blades (mm) 18 wide X 45,5 tall, 5mm Bolt 44 & 54

Description	CE Part #	Mate #	\$-Price
2" C Station			
Punch Blade 1.875diag.Max.	*A-ATCPM42i	PAAP_AA	
Die Plate	*A-ATCDAM62i	D0KP_0	
Ultra Stripper	*A-ATCSAMU92	S6UCOP	
3-1/2" D Sta.			
Punch Blade	*A-ATDPM43i	PAAQ_0	
Die Plate	*A-ATDDAM63i	D0KQ_0	
Ultra Stripper	*A-ATDSAMU93	S6UDOP	
4-1/2" E Sta.			
Punch Blade	*A-ATEPM44i	PAAR_A	
Die Plate	*A-ATEDAM64i	D0KR_0	
Ultra Stripper	*A-ATESAMU94	S6UEOP	

CE & WT Original Blade

Body Cost
D, 3-1/2_ *A-ATD-IH_ \$235
E, 4-1/2_ *A-ATE-IH_ \$255
_ =m-M12 or i-1/2" Thread

Z-Tool ABS

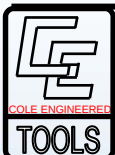
D, 3-1/2v *A-ATD-IHv \$315
E, 4-1/2v *A-ATE-IHv \$335



Insert Blades 1.81" tall, 5/16 Bolt 2.75" spaced

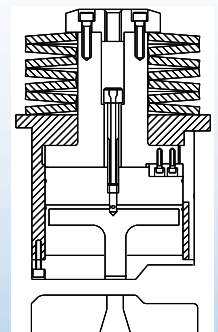
Compatible with

BLADE	8#	WT #	PRICE	Notes
1.968 - 3.400 50 -86,mm	ATD-IB-RT	1967		Blade Width 750" 19.05mm
3.401-4.400" 86,-110,mm	ATE-IB-RT	1970		
Spare Bolts	ATE-IH-BW	SHCS 3/8-16 X 1 1/2" Long		



Sta. D & E CLOSE TO CLAMPS

Genuine AMADA	Part# Standard	Sta. D	Sta. E	Part# ABS	Sta. D	Sta. E
PUNCH HSS steel	AT_Pm-s-s	159.20	242.00	AT_Pv-s		
STRIPPER PLATE	AT_S-bp-sh	240.75	272.85	AT_Sabs-sh		
DIE w/SLUG TRAP™ S/F	AT_D-sh-S	219.00	341.00			
Die w/SLUG HUGGER™ S/O	AT_Dsh-st-	240.00	380.00			
GUIDE ASSEMBLY	AT_GAsh	590.50	805.80	AT_GAsh		



WT Style Dura Blade Holders

D Station (3 1/2")

SET=Everything	Part#	US-\$
RECT. 0° & 90°	ATDdbSET	
Punch		
Blade	HR.DP1RE	
Pin	ATdb-Pin	
Stripper		
Rect.	ATDSdbrt	
Die W-relief		
Rect.	ATDshrt	
Guide Ass'y		
RECT. 0° & 90°	ATDGadb	
Bolt		

E Station (4 1/2")

SET=Everything	Part#	US-\$
RECT. 0° & 90°	ATEdbSET	
Punch		
Blade	HR.DP1RE	
Pin	ATdb-Pin	
Stripper		
Rect.	ATESdbrt	
Die W-relief		
Rect.	ATEsh2rt	
Guide Ass'y		
RECT. 0° & 90°	ATEGadb	
Bolt		





EUROMAC, FINN-POWER

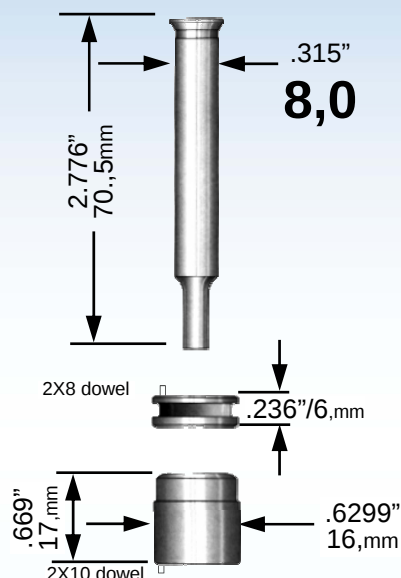
See Sec3.7 EUROMAC TOOLING CATALOG

12, 20, 24 Station style **X**_{MT8} **MTE10**

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

PUNCH Grind Life: .060"/1,5mm
Minimum length 2.716/69mm

DIE Grind Life: .06"/1,5MM minimum
length=.609/15,5mm

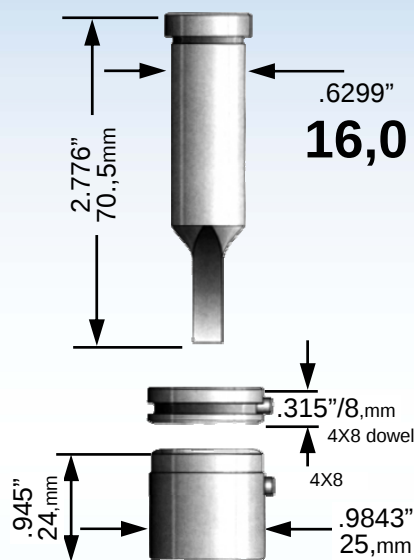


6 & 10 Station style **Y**_{MT16}

Range .030-0.630" 8-16.0mm

PUNCH Grind Life: .060"/1,5mm
Minimum length 2.716/69mm

DIE Grind Life: .06"/1,5MM
Minimum length=.885/22,5mm

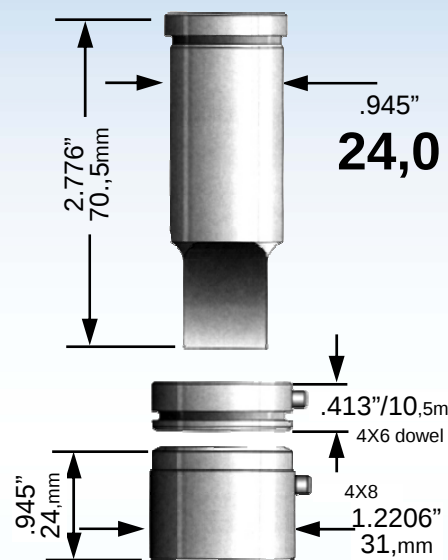


6,8 & 10 Station style **Z**_{MT24} **MTE6 & 10**

Range .030-.945" ,8-24.0mm

PUNCH Grind Life: .060"/1,5mm
Minimum length 2.716/69mm

DIE Grind Life: .06"/1,5MM
Minimum length=.885/22,5mm



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		+\$10.00 Part# Coat- TiCN or Coat- Alpha	MTXD-r		MTXS-r	
	Shape	MTXP-s			MTXD-s		MTXS-s	
Y _{MT16} 6 & 10 Sta.	Round	MTYP-r		+\$11.00 Part# Coat- TiCN or Coat- Alpha	MTYD-r		MTYS-r	
	Shape	MTYP-s			MTYD-s		MTYS-s	
Z _{MT24} 6 & 8 MTE6	Round	MTZP-r		+\$12.00 Part# Coat- TiCN or Coat- Alpha	MTZD-r		MTZS-r	
	Shape	MTZP-s			MTZD-s		MTZS-s	
Pack of 32pc Die Shim					*AMSFZ			

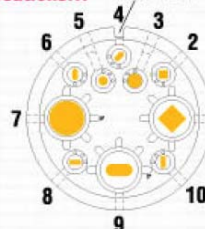
Shaped Dies and Strippers have four (1) pin hole.

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

MTE10 Die Holder Station
Locations...

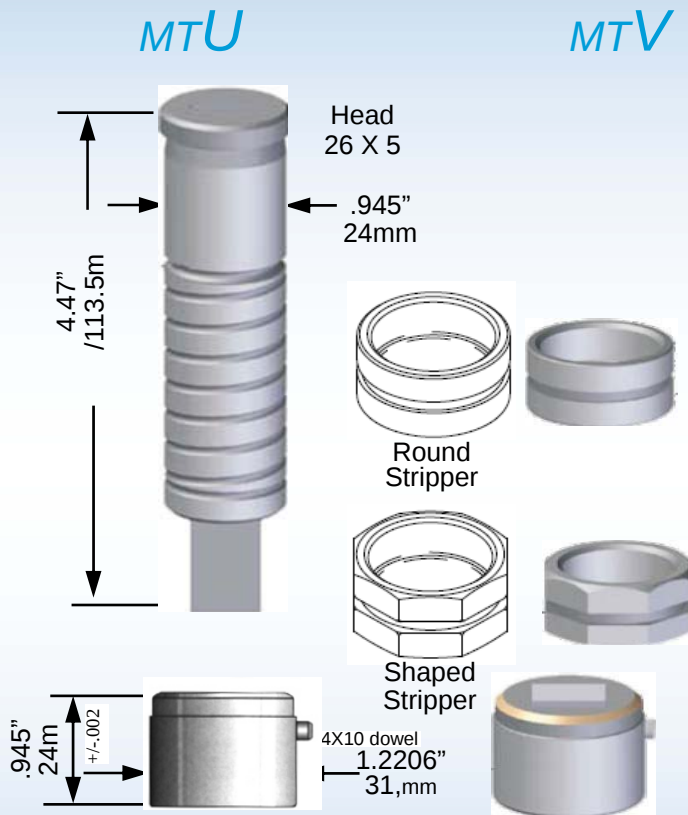




Multi-MATRIX 6/24 & 10/18

**6 Station Holder for use in Thick Turret 3½”
Sta. D Compatible to Amada, Durma, IMAC, and
similar presses** *MTU 6/24 Range -.945”/ 24.mm* *MTV 10/18
Range -.708/ 18.mm*

PUNCH Grind Life: .12”/3,0mm Minimum length MTU or MTV=2.716/110,5mm VMT=3.82”/97mm



Shaped Dies only req. 1 pin Holder is keyed for 0 90 & 45
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	Die A2 Steel Slug Trap™ CATALOG CODE	PRICE Dia. or Width >.093 2,3mm	Stripper CATALOG CODE	PRICE Dia. or Width >.093 2,3mm
MTU Dies= MT-Z	Round	MTUP-r		MTZD-r		MTUS-r	
	Shape	MTUP-s		MTZD-s		MTUS-s	
MTV	Round	MTVP-r		MTVD-r		MTVS-r	
	Shape	MTVP-s		MTVD-s		MTVS-s	



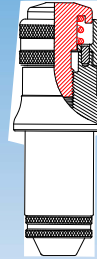
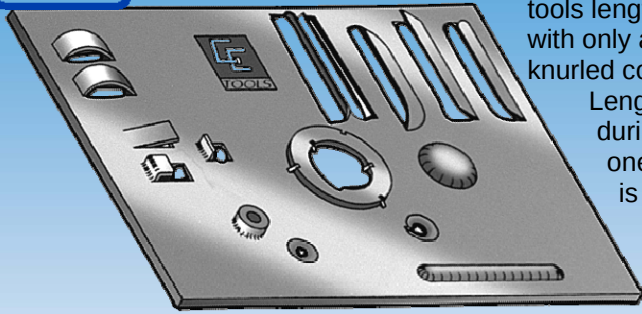
SPECIAL APPLICATION FORMING TOOLS

HIGHER PRODUCTIVITY THROUGH SUPERIOR ENGINEERING

EXCLUSIVELY From CE 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

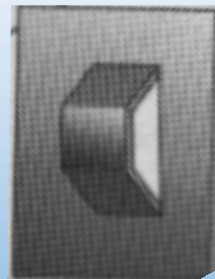
DOUBLE Sp-66

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



GROUND SYMBOL

Keyed 4 Ways

 DOWN	Sta. A = \$235	Sta. B = \$275
 UP	Sta. A = N/A	Sta. B = \$350

 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 +\$75 for Quick-Set Adj.Head

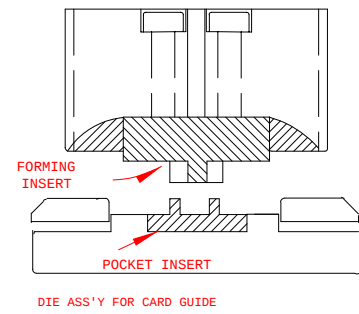
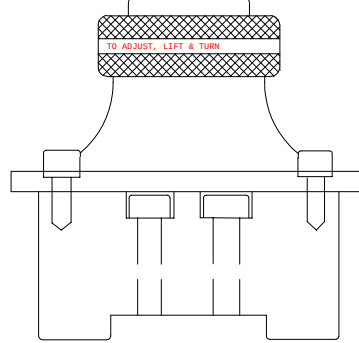
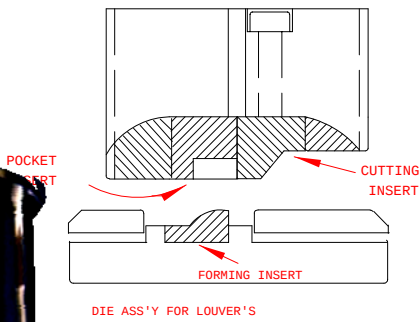


EXTRUSION

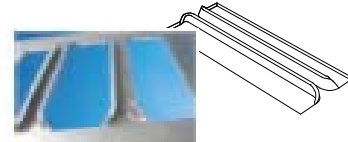
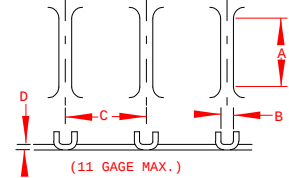
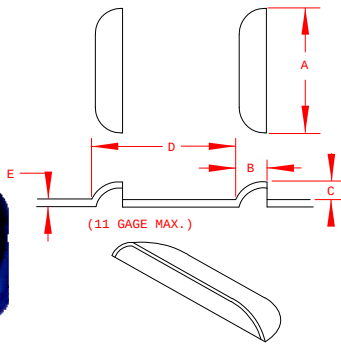




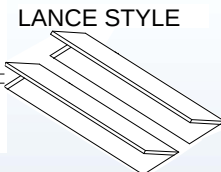
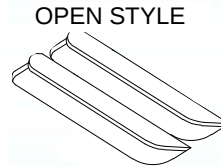
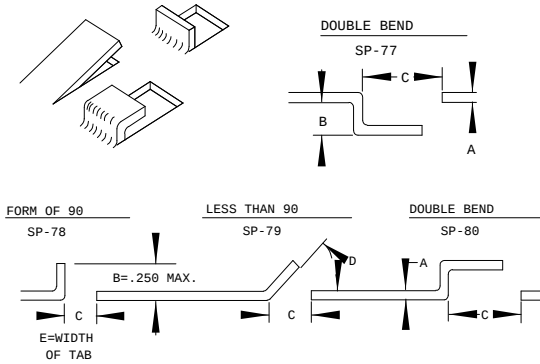
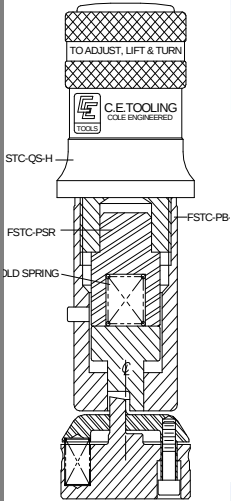
LOUVER & CARD GUIDE TOOLS



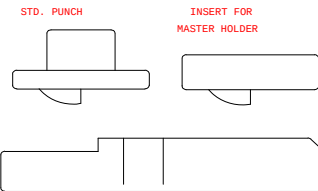
STANDARD & PROGRESSIVE styles of LOUVERS & CARD-GUIDES. Progressive tools made to exact material thickness. Length unlimited through nibbling but ends are more gradual radius. Reference Section 1 for further information



LANCE & FORMS



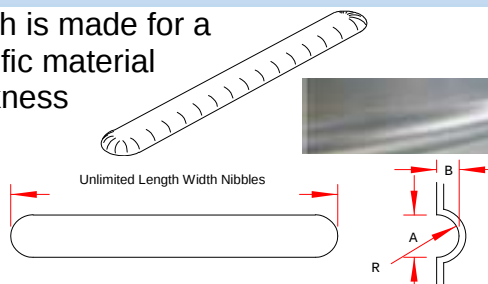
Form Down LOUVER



"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

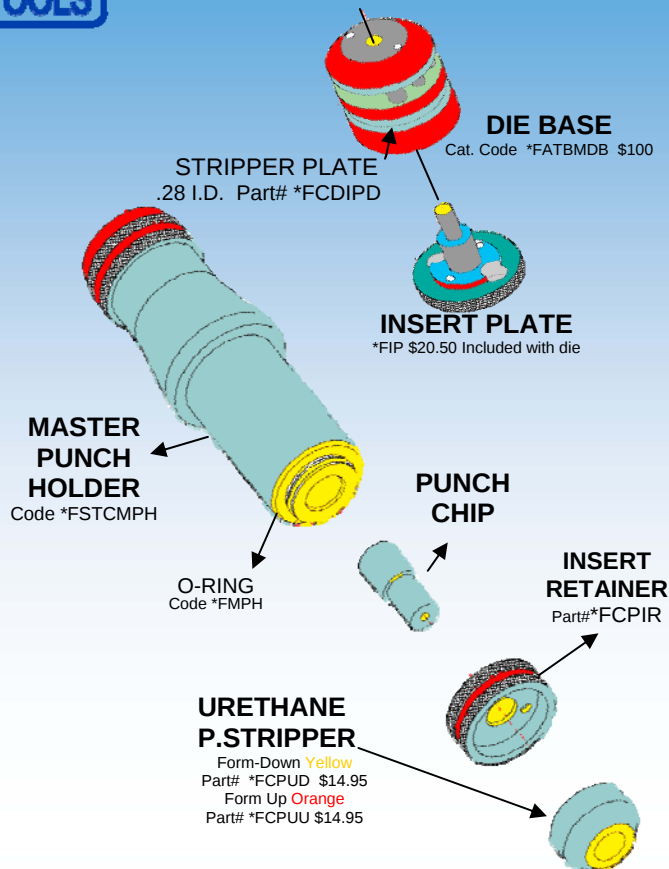
Sheet Lifter Dies



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



SINGLE FORM TOOL HOLDER Accepts Inserts to perform many common form applications, \$ave!

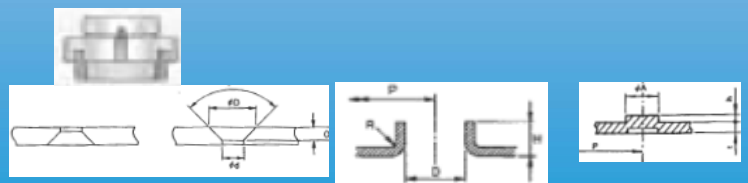
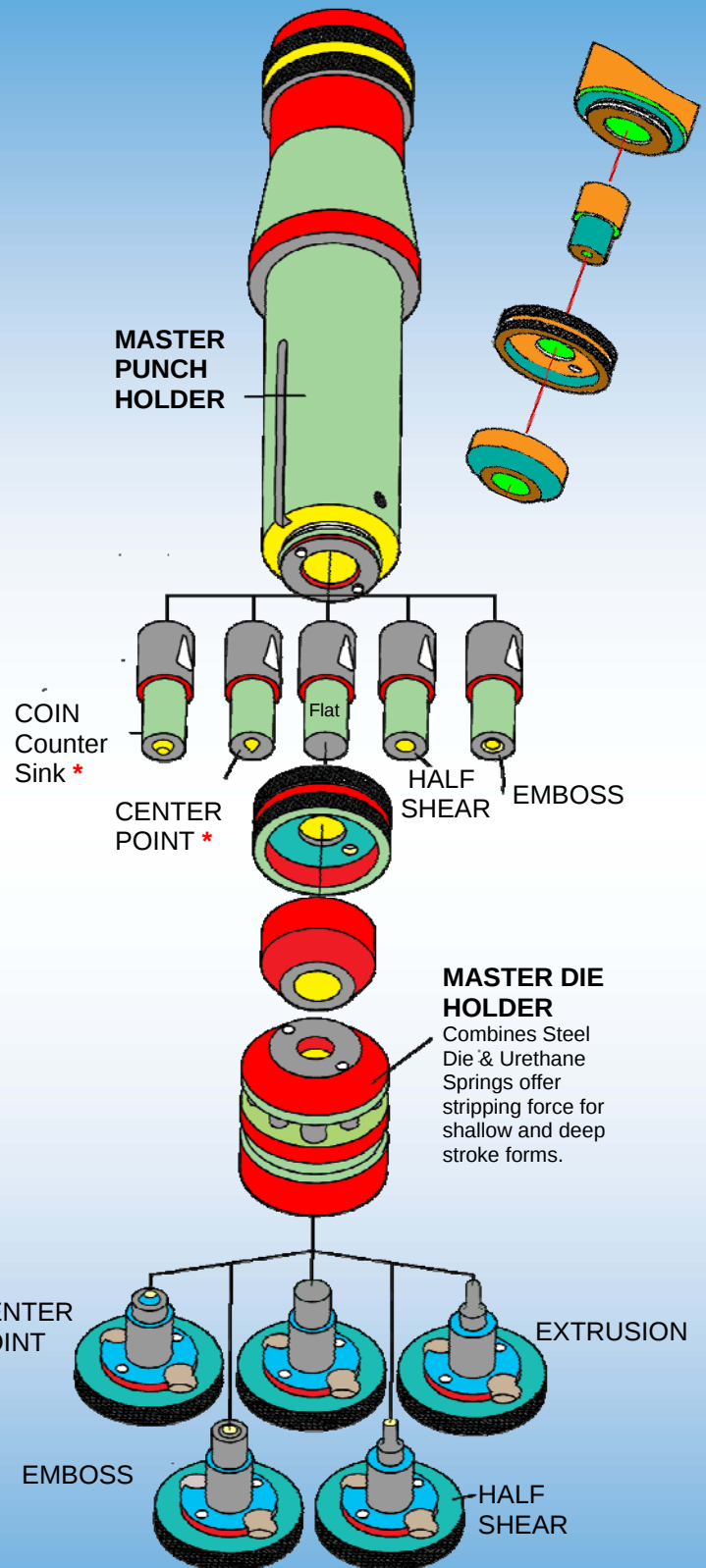
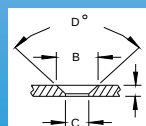
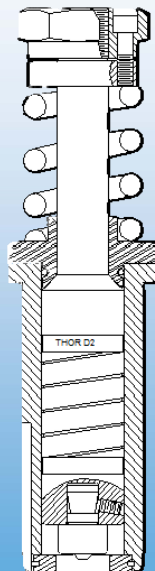
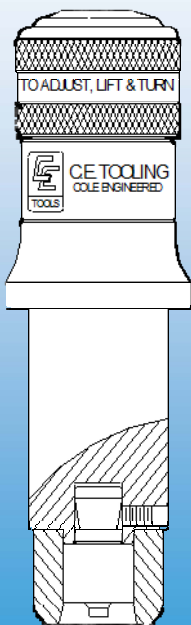


CE can supply Inserts & Die for use in competitor master Form Holders at reduced cost!



Quick-Set accept Amada or WT Inserts

Dedicated Style

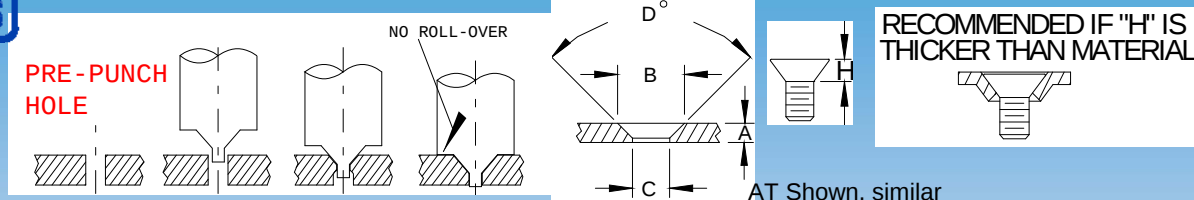




Form Inserts for CE, WT & Amada Style

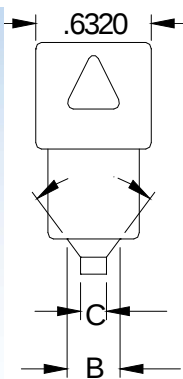
COINING /Counter Sink Inserts/Chips

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

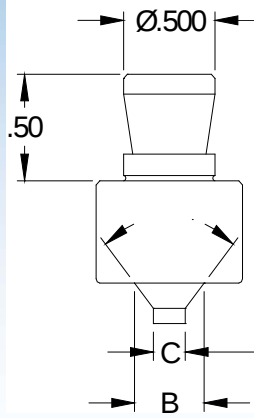


AT Shown, similar available for ST/AS in Sta. 1/2 or 5/8

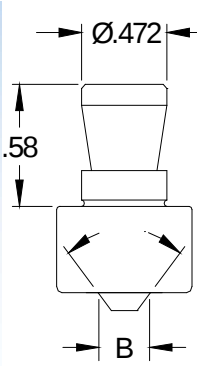
CE Style Insert *FIP56 \$84.30



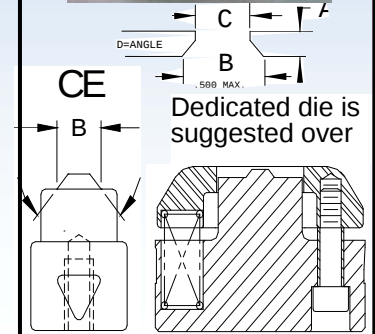
WT Style Insert *FIPWT56 \$84.30



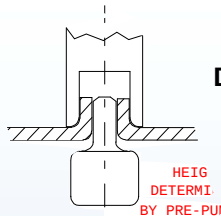
Amada Style Chip #43114 CE#*FIP56AM \$84.30



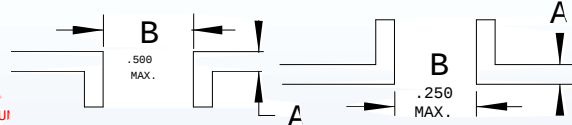
Form Up



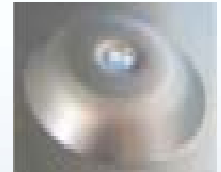
EXTRUSIONS INSERTS



Down *FIP54 \$71.20 Up *FIP50 & *FID50 \$78.75



EMBOSS & EXTRUSION



HALF SHEAR

FORM DOWN OR FORM UP

CET Master Holder Accepts Replaceable Half Shear Insert Max. B .25"/6,1mm Larger than this uses a dedicated Holder

Inserts/Chips For CET Holder

Top=*FIP51 \$71.20 *FID51 \$84.00

For WT Style Holder

P.Chip = CET# *FIP51wt

D.Chip = CET *FID51wt

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

For Amada Style Holder

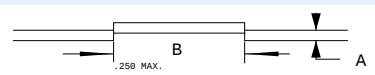
code Set PA203202S Punch Ass'y

PA203202P Die Ass'y PA203202D

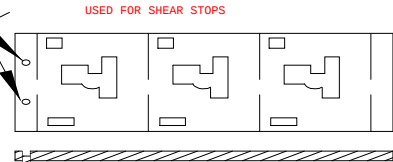
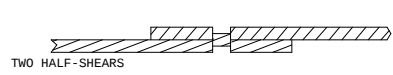
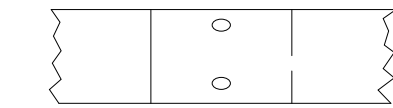
P. Chip 8700069 = CE *FIP51am

D. Chip 5511491 = CE *FID51am

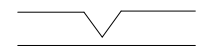
code=*fipWT-56 sizes > .25"(6,1mm)



TWO HALF SHEARS USED FOR ALIGNING TWO SHEETS



CENTER POINT



Replaceable Insert

For CET Holder Top *FIP57 \$50.30

For WT *FIP57wt \$50.30

For Amada ____-

Use with No hole Die ATB-Dr



Replaceable Insert

For CE Holder Top FIP58 \$71.20

Bottom *FID53 \$57.80

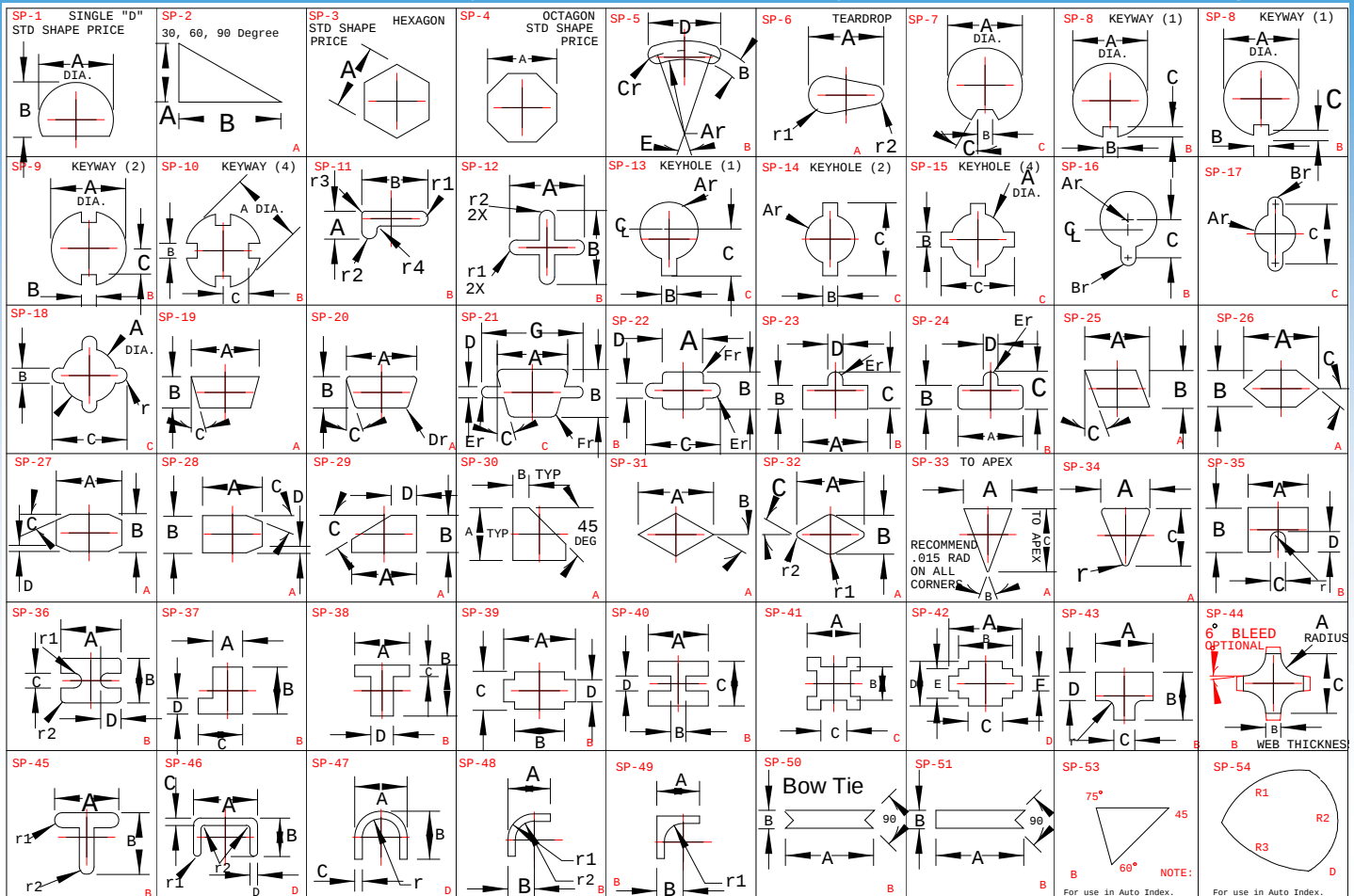
For WT Top *FIP58wt Bottom

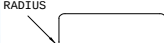
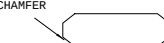
*FID53wt

SPECIAL SHAPED TOOLS SHIP IN 1-5 WORK DAYS

Standard Delivery is 3-5 work days. Expedite Guarantee 3 days, +10%, 2 days +30%, 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.



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

ADDITIONAL COSTS FOR TOOL OPTIONS	A	B	C	D	E
PUNCH: Additional Key Locations 45° Increments Sta. B: 45° & 180° increments only	35	35	40	50	60
PUNCH: Shapes on Angles No charge for 45° Inc.	15	22	25	30	35
PUNCH COATING TiN Titanium Nitride/GOLD, TiNC Titanium Carbo Nitride/blue-gray	18	33	50	60	75
GUIDE: Additional Keys Ref. Standard Keying for shapes is 0 & 90°, SQ 0 & 45°	\$5	n/a	n/a	n/a	n/a
GUIDE: Non-Fitted Round Opening instead of being fitted to shape.	10	n/a	n/a	n/a	n/a
GUIDE: Shapes on Angles	20	n/a	n/a	n/a	n/a
GUIDE: Sizes of Rounds or Shaped Widths .063-.092	+25%				
GUIDE: Sizes of Rounds or Shaped Width .032-.062	+50%				
DIE: Additional Key Locations 45° Increments	10	\$35			
DIE: Additional Key Locations other than 45° Increments	20	50	55	60	
DIE: Shapes on Angles No charge for 45° Inc.	15	22	25	30	35
Sizes of Rounds or Shaped Widths .063-.092	+25%				
Sizes of Rounds or Shaped Width .032-.062	+50%				
DIE: Clearances Under .004" / 1.6mm	+25%				

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



C.E. TOOLING, INC.

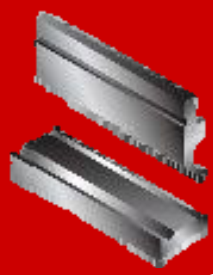
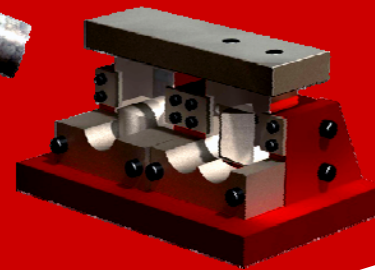
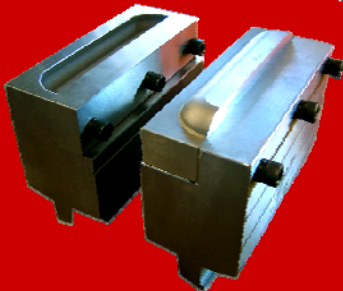
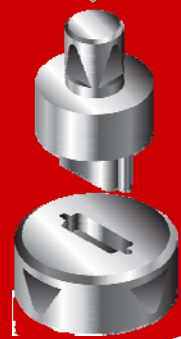
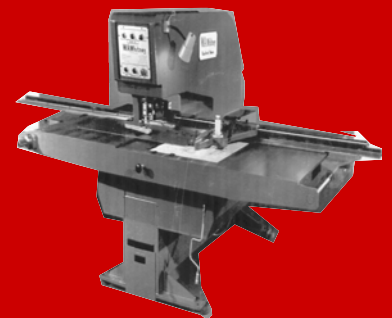
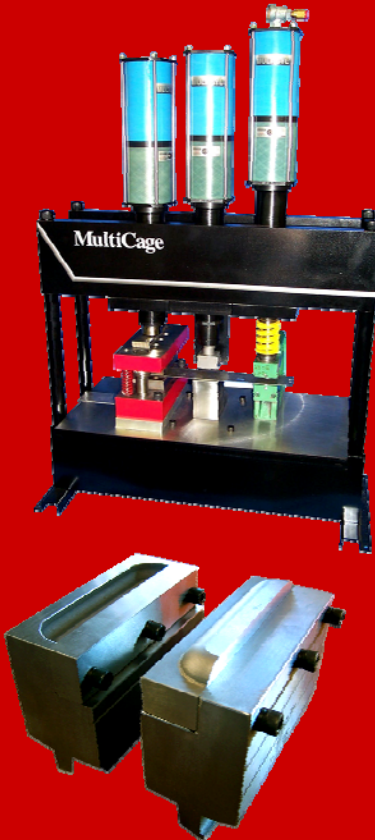
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THE WORLD**



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Fax 702 736-3038



AGENT