

# ML TECHNOLOGIES

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Cad/Cam | Toolings | Accessories



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**THICK TURRET  
TRUMPF TYPE  
MURATA TYPE  
SALVAGNINI  
THIN TURRET**

**HIGH PERFORMANCE TURRET PUNCH PRESS TOOLING**

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**BASIC TYPE TOOLING**



**FAB TYPE TOOLING-QUICK ADJUST**



**FAB 2 TYPE TOOLING-QUICK ADJUST**



**FAB 90 TYPE TOOLING-QUICK ADJUST**



**FAB ULTRA TYPE TOOLING**



**FULLY GUIDED TYPE TOOLING**



**SLITTING AND CLOSE TO CLAMP**



**HEAVY DUTY TOOLING**



**MT TOOLING-MULTI TOOL**



**MT TOOLING-MULTI TOOL**



**CLUSTER TOOL**



P30

**AUTO GRINDER**



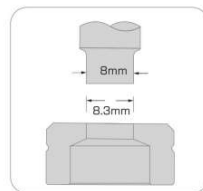
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**ACCESSORIES**



P32-36

**TECHNICAL INFO**



P37-38

	A/B STATION				C/D/E STATION		
	BASIC	FAB/FAB 2	FAB 90	FAB ULTRA	BASIC	FAB/FAB 2	FAB 90
Punch grind life	2.0mm	5.0mm	6.3mm	6.0mm	2.0mm	6.0mm	8.0mm
Adjust	need tools	no tools	no tools	no tools	need shims	no shims	no shims
Compatible	Amada original	Amada NEX	Wilson S90	Mate Ultra	Amada original	Amada alpha	Wilson S90

## BASIC TYPE-THICK TURRET TOOLING



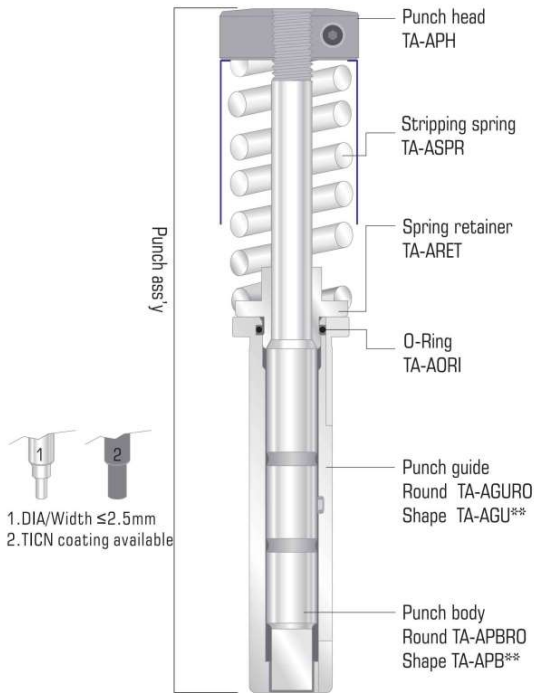
**Basic style** thick turret tooling from AFAB is OEM compatible, with several design feature, including:

- \* Economic tooling, Big saving for investing tools
- \* Premium precision long punches.
- \* Round punch heads with two thread holes for rotating in 1/2" A and 1-1/4" B stations
- \* Lock punch by bolt beside
- \* Hardened guides for reduced friction and longer service life.
- \* Punch regrinding life only 2.0mm

**BASIC TYPE (metric)**



1/2" A STATION (max. Diameter/diagonal 12.7mm)

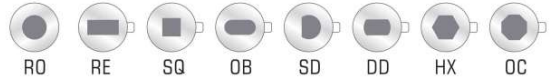


\*Max. Allowable Tonnage: 6 Tonne  
 \*Max. Thickness ≤ 4.0mm MS, ≤ 3.0mm SS  
 \*Min. Dia/Width: AL 0.75xT, MS 1.0xT, SS 2.0xT  
 \*Ejector for size > 6mm



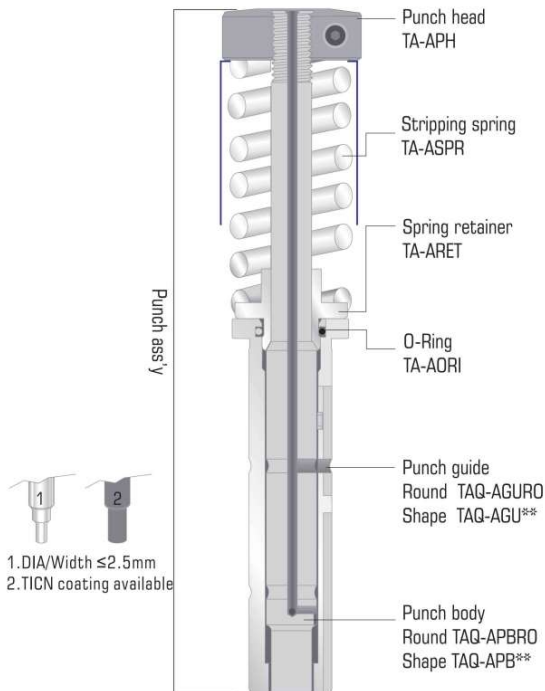
BASIC TYPE-STD.		
	ROUND	SHAPE
PUNCH ASS'Y	① TA-APARO	② TA-APA**
PUNCH BODY	③ TA-APBRO	④ TA-APB**
GUIDE	⑤ TA-AGURO	⑥ TA-AGU**
DIE	⑦ TA-ADIRO	⑧ TA-ADI**

Die pin location and shape code



BASIC STD. TYPE

**AIR BLOW SYSTEM**

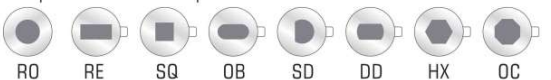


\*Max. Allowable Tonnage: 4.5 Tonne  
 \*Max. Thickness ≤ 4.0mm MS, ≤ 3.0mm SS  
 \*Min. Dia/Width: AL 0.75xT, MS 1.0xT, SS 2.0xT  
 \*Ejector for size > 6mm



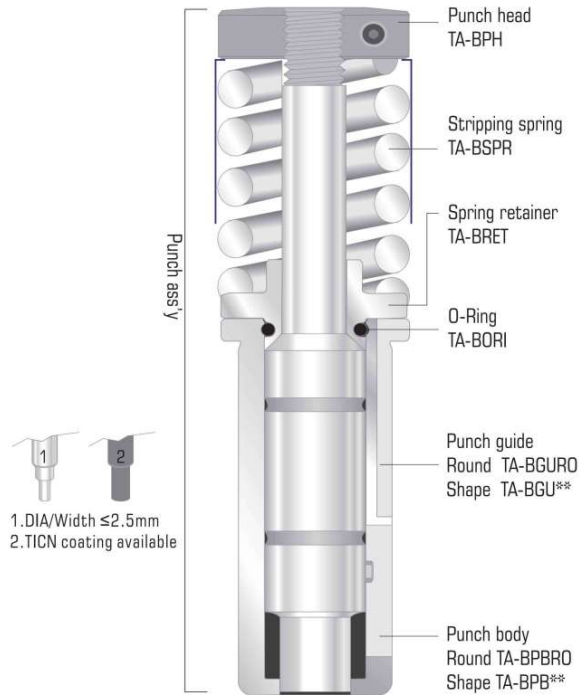
BASIC TYPE-AIR BLOW SYSTEM		
	ROUND	SHAPE
PUNCH ASS'Y	① TAQ-APARO	② TAQ-APA**
PUNCH BODY	③ TAQ-APBRO	④ TAQ-APB**
GUIDE	⑤ TAQ-AGURO	⑥ TAQ-AGU**
DIE	⑦ TAQ-ADIRO	⑧ TAQ-ADI**

Die pin location and shape code



BASIC ABS TYPE

BASIC STD. TYPE



\*Max.Allowable Tonnage: 17 Tonne  
 \*Max.Thickness≤6.35mm  
 \*Min. Dia/Width: AL 0.75xT, MS 1.0xT, SS 2.0xT  
 \*Ejector for size >6mm



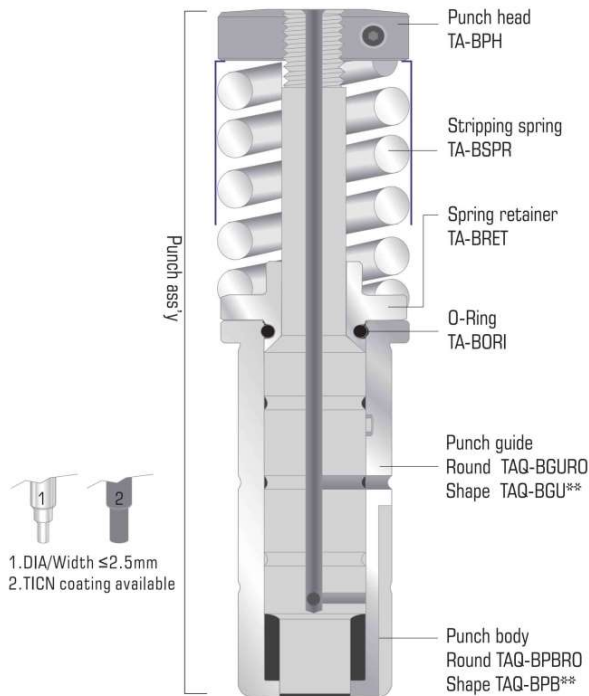
BASIC TYPE-STD.		
	ROUND	SHAPE
PUNCH ASS'Y	1 TA-BPARO	2 TA-BPA**
PUNCH BODY	3 TA-BPBRO	4 TA-BPB**
GUIDE	5 TA-BGURO	6 TA-BGU**
DIE	7 TA-BDIRO	8 TA-BDI**

Die pin location and shape code



**AIR BLOW SYSTEM**

BASIC ABS TYPE

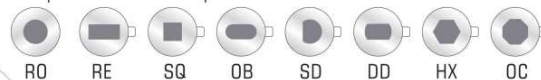


\*Max.Allowable Tonnage: 16 Tonne  
 \*Max.Thickness≤6.35mm  
 \*Min. Dia/Width: AL 0.75xT, MS 1.0xT, SS 2.0xT  
 \*Ejector for size >6mm



BASIC TYPE-AIR BLOW SYSTEM		
	ROUND	SHAPE
PUNCH ASS'Y	1 TAQ-APARO	2 TAQ-APA**
PUNCH BODY	3 TAQ-APBRO	4 TAQ-APB**
GUIDE	5 TAQ-AGURO	6 TAQ-AGU**
DIE	7 TAQ-ADIRO	8 TAQ-ADI**

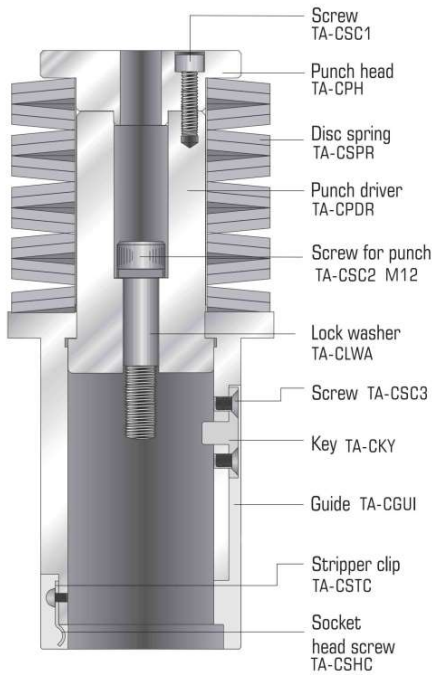
Die pin location and shape code



**BASIC TYPE (metric)**



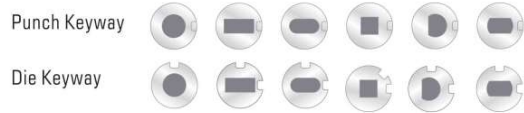
2" C STATION (max. Diameter/diagonal 50.8mm)



- \*Max. Thickness ≤ 6.35mm
- \*Min. Dia/Width: AL 0.75xT, MS 1.0xT, SS 2.0xT
- \*Ejector for size > 6mm
- \*TICN coating available
- \*Optional: Rooftop punch

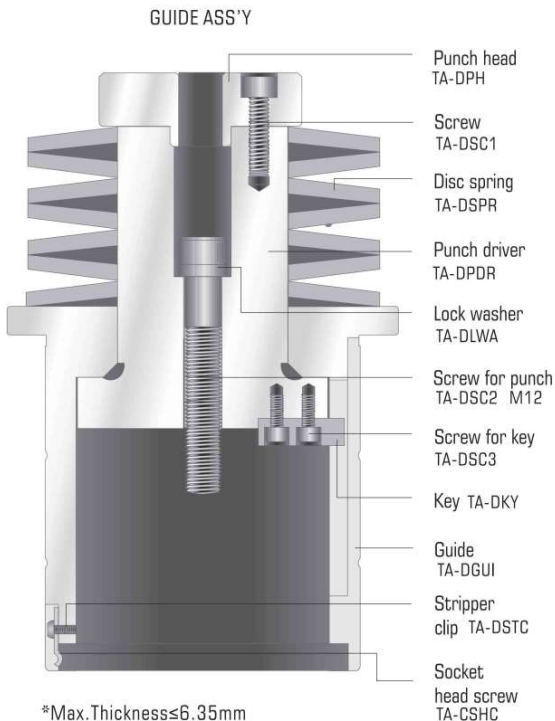


BASIC TYPE-STD.		
	ROUND	SHAPE
GUIDE ASS'Y	① TA-CGA	① TA-CGA
PUNCH BODY	③ TA-CPBRO	④ TA-CPB**
STRIPPER	⑤ TA-CSTRO	⑥ TA-CST**
DIE	⑦ TA-CDIRO	⑧ TA-CDI**



BASIC TYPE C STATION

3 1/2" D STATION (max. Diameter/diagonal 88.9mm)



- \*Max. Thickness ≤ 6.35mm
- \*Min. Dia/Width: AL 0.75xT, MS 1.0xT, SS 2.0xT
- \*Ejector for size > 6mm
- \*TICN coating available
- \*Optional: Rooftop punch

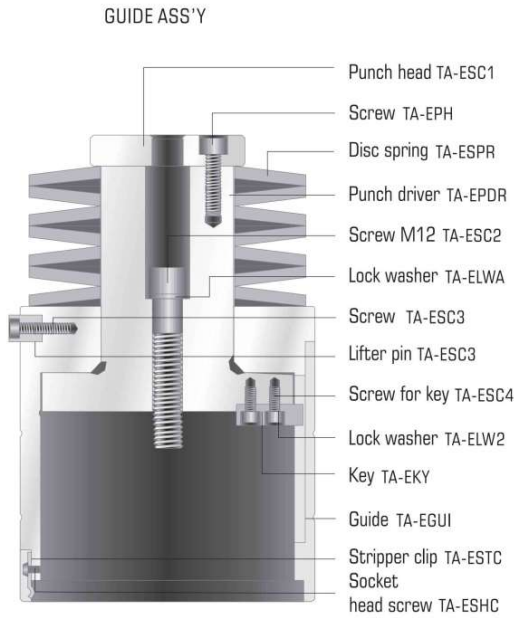


BASIC TYPE-STD.		
	ROUND	SHAPE
GUIDE ASS'Y	① TA-DGA	① TA-DGA
PUNCH BODY	③ TA-DPBRO	④ TA-DPB**
STRIPPER	⑤ TA-DSTRO	⑥ TA-DST**
DIE	⑦ TA-DDIRO	⑧ TA-DDI**



BASIC TYPE D STATION

BASIC TYPE E STATION



BASIC TYPE-STD.		
	ROUND	SHAPE
GUIDE ASS'Y	① TA-EGA	① TA-EGA
PUNCH BODY	③ TA-EPBRO	④ TA-EPB**
STRIPPER	⑤ TA-ESTRO	⑥ TA-EST**
DIE	⑦ TA-EDIRO	⑧ TA-EDI**

\*Max.Thickness≤6.35mm

\*Min. Dia/Width: AL 0.75xT, MS 1.0xT, SS 2.0xT

Punch Keyway



**2" C STATION**



**3 1/2" D STATION**



**4 1/2" E STATION**



### FAB TYPE-QUICK ADJUST TOOLING



**FAB style** thick turret tooling from AFAB is High performance and low cost solution, with several design feature, including:

- \* Install pre-load spring pack.
- \* Premium precision long amada punches.
- \* Fast, easy punch length adjustment, reduces downtime and increases productivity.
- \* Hardened guides for reduced friction and longer service life.
- \* Extend regrind life up to 5.0mm

0.5mm grinding wire

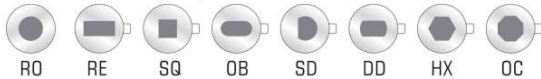
FAB STD. TYPE



3 SPRING PACK



Die pin location and shape code



FAB TYPE-STD.		
	ROUND	SHAPE
PUNCH ASS'Y	1 TF-APARO	2 TF-APA**
SPRING PACK	3 TF-ASP	3 TF-ASP
PUNCH BODY	4 TA-APBRO	5 TA-APB**
GUIDE	6 TF-AGURO	7 TF-AGU**
STRIPPER	8 TF-ASTRO	9 TF-AST**
DIE	10 TA-ADIRO	11 TA-ADI**

\*Max. Allowable Tonnage: 6 Tonne  
 \*Max. Thickness ≤ 4.0mm MS, ≤ 3.0mm SS  
 \*Min. Dia/Width: AL 0.75xT, MS 1.0xT, SS 2.0xT  
 \*Ejector for size > 6mm

FAB ABS TYPE



FAB TYPE-AIR BLOW SYSTEM		
	ROUND	SHAPE
PUNCH ASS'Y	12 TFQ-APARO	13 TFQ-APA**
SPRING PACK	3 TF-ASP	3 TF-ASP
PUNCH BODY	14 TAQ-APBRO	15 TAQ-APB**
GUIDE	16 TFQ-AGURO	17 TFQ-AGU**
STRIPPER	18 TFQ-ASTRO	19 TFQ-AST**
DIE	20 TAQ-ADIRO	21 TAQ-ADI**

\*Max. Allowable Tonnage: 4.5 Tonne  
 \*Max. Thickness ≤ 4.0mm MS, ≤ 3.0mm SS  
 \*Min. Dia/Width: AL 0.75xT, MS 1.0xT, SS 2.0xT  
 \*Ejector for size > 6mm

5mm grinding lire



FAB TYPE-STD.		
	ROUND	SHAPE
PUNCH ASS'Y	1 TF-BPARO	2 TF-BPA**
SPRING PACK	3 TF-BSP	3 TF-BSP
PUNCH BODY	4 TA-BPBRO	5 TA-BPB**
GUIDE	6 TF-BGURO	7 TF-BGU**
STRIPPER	8 TF-BSTRO	9 TF-BST**
DIE	10 TA-BDIRO	11 TA-BDI**

\*Max. Allowable Tonnage: 17 Tonne  
 \*Max. Thickness ≤ 6.35mm  
 \*Min. Dia/Width: AL 0.75xT, MS 1.0xT, SS 2.0xT  
 \*Ejector for size > 6mm



FAB TYPE-AIR BLOW SYSTEM		
	ROUND	SHAPE
PUNCH ASS'Y	12 TFQ-BPARO	13 TFQ-BPA**
SPRING PACK	3 TA-BSP	3 TA-BSP
PUNCH BODY	14 TAQ-BPBRO	15 TAQ-BPB**
GUIDE	16 TFQ-BGURO	17 TFQ-BGU**
STRIPPER	18 TFQ-BSTRO	19 TFQ-BST**
DIE	20 TAQ-BDIRO	21 TAQ-BDI**

\*Max. Allowable Tonnage: 16Tonne  
 \*Max. Thickness ≤ 6.35mm  
 \*Min. Dia/Width: AL 0.75xT, MS 1.0xT, SS 2.0xT  
 \*Ejector for size > 6mm

FAB STD. TYPE

FAB ABS TYPE

5mm grinding wire

FAB STD. TYPE

FAB ABS TYPE

**STANDARD**

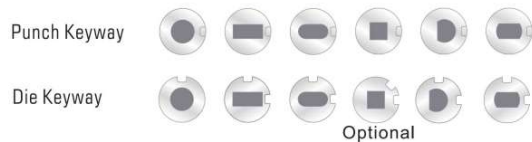
**AIR BLOW SYSTEM**



FAB TYPE-STD.		
	ROUND	SHAPE
GUIDE ASS'Y	① TF-CGA	① TF-CGA
PUNCH BODY	③ TA-CPBRO	④ TA-CPB**
STRIPPER	⑤ TA-CSTRO	⑥ TA-CST**
DIE	⑦ TA-CDIRO	⑧ TA-CDI**

FAB TYPE-AIR BLOW SYSTEM		
	ROUND	SHAPE
GUIDE ASS'Y	① TFQ-CGA	① TFQ-CGA
PUNCH BODY	③ TAQ-CPBRO	④ TAQ-CPB**
STRIPPER	⑤ TAQ-CSTRO	⑥ TAQ-CST**
DIE	⑦ TA-CDIRO	⑧ TA-CDI**

\*Max. Thickness ≤ 6.35mm  
 \*Min. Dia/Width: AL 0.75xT, MS 1.0xT, SS 2.0xT  
 \*Ejector for size > 6mm  
 \*TiCN coating available  
 \*Optional: Rooftop punch



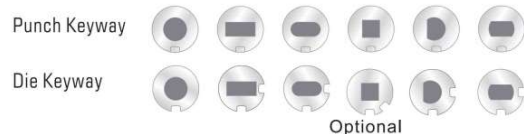
5mm grinding lire



FAB TYPE-STD.		
	ROUND	SHAPE
GUIDE ASS'Y	① TF-DGA	① TF-DGA
PUNCH BODY	③ TA-DPBRO	④ TA-DPB**
STRIPPER	⑤ TA-DSTRO	⑥ TA-DST**
DIE	⑦ TA-DDIRO	⑧ TA-DDI**

FAB TYPE-AIR BLOW SYSTEM		
	ROUND	SHAPE
GUIDE ASS'Y	① TFQ-DGA	① TFQ-DGA
PUNCH BODY	③ TAQ-DPBRO	④ TAQ-DPB**
STRIPPER	⑤ TAQ-DSTRO	⑥ TAQ-DST**
DIE	⑦ TA-CDIRO	⑧ TA-CDI**

\*Max. Thickness ≤ 6.35mm  
 \*Min. Dia/Width: AL 0.75xT, MS 1.0xT, SS 2.0xT  
 \*Ejector for size > 6mm  
 \*TiCN coating available  
 \*Optional: Rooftop punch



FAB STD. TYPE

FAB ABS TYPE

5mm grinding life

FAB STD. TYPE

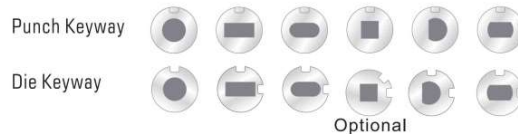
FAB ABS TYPE



FAB TYPE-STD.		
	ROUND	SHAPE
GUIDE ASS'Y	① TF-EGA	① TF-EGA
PUNCH BODY	③ TA-EPBRO	④ TA-EPB**
STRIPPER	⑤ TA-ESTRO	⑥ TA-EST**
DIE	⑦ TA-EDIRO	⑧ TA-EDI**

FAB TYPE-AIR BLOW SYSTEM		
	ROUND	SHAPE
GUIDE ASS'Y	① TFQ-EGA	① TFQ-EGA
PUNCH BODY	③ TAQ-EPBRO	④ TAQ-EPB**
STRIPPER	⑤ TAQ-ESTRO	⑥ TAQ-EST**
DIE	⑦ TA-EDIRO	⑧ TA-EDI**

\*Max.Thickness≤6.35mm  
 \*Min. Dia/Width: AL 0.75xT, MS 1.0xT, SS 2.0xT  
 \*Ejector for size > 6mm  
 \*TiCN coating available  
 \*Optional: Rooftop punch



## FAB 2 TYPE-QUICK ADJUST TOOLING



**FAB 2 style** thick turret tooling from AFAB is High performance tooling, develop on FAB type, with several design feature, including:

- \* Install pre-load spring pack, with self lock button
- \* Premium precision long amada punches with pin, round punch with anti-rotation pin.
- \* Fast, easy punch length adjustment, reduces downtime and increases productivity.
- \* Hardened guides for reduced friction and longer service life.
- \* Extend regrind life up to 5.0mm
- \* C.D.E station guide assembly similar with AMADA Alpha

5mm grinding lite

FAB 2 STD. TYPE



FAB 2 ABS TYPE



FAB 2 TYPE-STD.		
	ROUND	SHAPE
PUNCH ASS'Y	1 TF2-APARO	2 TF2-APA**
SPRING PACK	3 TF2-ASP	3 TF2-ASP
PUNCH BODY	4 TF2-APBRO	5 TA-APB**
GUIDE	6 TF2-AGURO	7 TF2-AGU**
STRIPPER	8 TU-ASTRO	9 TU-AST**
DIE	10 TA-ADIRO	11 TA-ADI**

\*Max.Allowable Tonnage:6 Tonne  
 \*Max.Thickness≤4.0mm MS,≤3.0mm SS  
 \*Min. Dia/Width: AL 0.75xT, MS 1.0xT, SS 2.0xT  
 \*Ejector for size > 6mm



FAB 2 TYPE-AIR BLOW SYSTEM		
	ROUND	SHAPE
PUNCH ASS'Y	12 TF2Q-APARO	13 TF2Q-APA**
SPRING PACK	3 TF2-ASP	3 TF2-ASP
PUNCH BODY	14 TF2Q-APBRO	15 TAQ-APB**
GUIDE	16 TF2Q-AGURO	17 TF2Q-AGU**
STRIPPER	18 TUQ-ASTRO	19 TUQ-AST**
DIE	20 TAQ-ADIRO	21 TAQ-ADI**

\*Max.Allowable Tonnage:4.5 Tonne  
 \*Max.Thickness≤4.0mm MS,≤3.0mm SS  
 \*Min. Dia/Width: AL 0.75xT, MS 1.0xT, SS 2.0xT  
 \*Ejector for size > 6mm



5mm grinding lire



FAB 2 TYPE-STD.		
	ROUND	SHAPE
PUNCH ASS'Y	① TF-BPARO	② TF-BPA**
SPRING PACK	③ TF-BSP	③ TF-BSP
PUNCH BODY	④ TA-BPBRO	⑤ TA-BPB**
GUIDE	⑥ TF-BGURO	⑦ TF-BGU**
STRIPPER	⑧ TF-BSTRO	⑨ TF-BST**
DIE	⑩ TA-BDIRO	⑪ TA-BDI**

\*Max.Allowable Tonnage:17 Tonne  
 \*Max.Thickness≤6.35mm  
 \*Min. Dia/Width: AL 0.75xT, MS 1.0xT, SS 2.0xT  
 \*Ejector for size >6mm



FAB 2 TYPE-AIR BLOW SYSTEM		
	ROUND	SHAPE
PUNCH ASS'Y	⑫ TFQ-BPARO	⑬ TFQ-BPA**
SPRING PACK	③ TA-BSP	③ TA-BSP
PUNCH BODY	⑭ TAQ-BPBRO	⑮ TAQ-BPB**
GUIDE	⑯ TFQ-BGURO	⑰ TFQ-BGU**
STRIPPER	⑱ TFQ-BSTRO	⑲ TFQ-BST**
DIE	⑳ TAQ-BDIRO	㉑ TAQ-BDI**

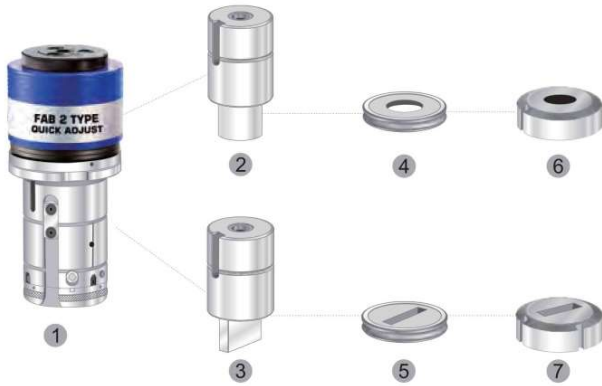
\*Max.Allowable Tonnage:16Tonne  
 \*Max.Thickness≤6.35mm  
 \*Min. Dia/Width: AL 0.75xT, MS 1.0xT, SS 2.0xT  
 \*Ejector for size >6mm

FAB 2 STD. TYPE

FAB 2 ABS TYPE

ALPHA GUIDE ASSEMBLY

FAB 2 STD. TYPE

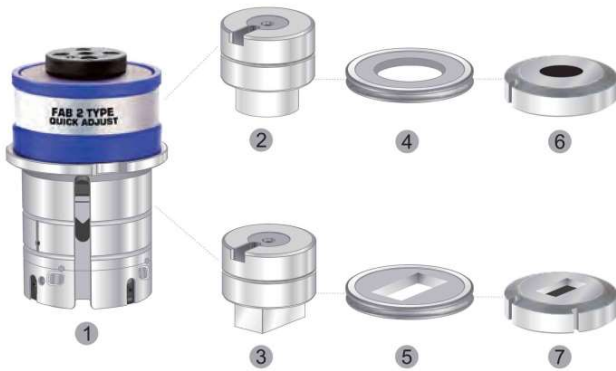


2" C STATION (max.Diameter/diagonal 50.8mm)

FAB 2 TYPE-C STATION		
	ROUND	SHAPE
GUIDE ASS'Y	① TF2-CGA	① TF2-CGA
PUNCH BODY	② TA-CPBRO	③ TA-CPB**
STRIPPER	④ TA-CDIRO	⑤ TA-CST**
DIE	⑥ TA-CDIRO	⑦ TA-CDI**

- \*Use Basic punch body,stripper
- \*Max.Allowable Tonnage:17 Tonne
- \*Max.Thickness ≤ 6.35mm
- \*Min. Dia/Width: AL 0.75xT, MS 1.0xT, SS 2.0xT
- \*Ejector for size > 6mm

3 1/2" D STATION (max.Diameter/diagonal 88.9mm)



FAB 2 TYPE-D STATION		
	ROUND	SHAPE
GUIDE ASS'Y	① TF2-DGA	① TF2-DGA
PUNCH BODY	② TA-DPBRO	③ TA-DPB**
STRIPPER	④ TA-DSTRO	⑤ TA-DST**
DIE	⑥ TA-DDIRO	⑦ TA-DDI**

- \*Use Basic punch body,stripper
- \*Max.Allowable Tonnage:17 Tonne
- \*Max.Thickness ≤ 6.35mm
- \*Min. Dia/Width: AL 0.75xT, MS 1.0xT, SS 2.0xT
- \*Ejector for size > 6mm

4 1/2" E STATION (max.Diameter/diagonal 114.3mm)



FAB 2 TYPE-E STATION		
	ROUND	SHAPE
GUIDE ASS'Y	① TF2-EGA	① TF2-EGA
PUNCH BODY	② TA-EPBRO	③ TA-EPB**
STRIPPER	④ TA-ESTRO	⑤ TA-EST**
DIE	⑥ TA-EDIRO	⑦ TA-EDI**

- \*Use Basic punch body,stripper
- \*Max.Allowable Tonnage:17 Tonne
- \*Max.Thickness ≤ 6.35mm
- \*Min. Dia/Width: AL 0.75xT, MS 1.0xT, SS 2.0xT
- \*Ejector for size > 6mm

**FAB 90 TYPE-QUICK ADJUST, HIGH PERFORMANCE TOOLING**



**FAB 90 style** thick turret tooling from AFAB is compatible with wilson 90/HP type tooling with several design feature, including:

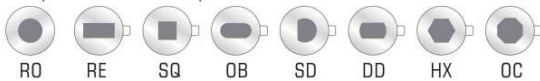
- \* Premium precision S90 punches.
- \* Fast easy punch length adjusting, Exchange punch stripper quickly
- \* Hardened guides for reduced friction and longer service life.
- \* Regrind life 6.3mm.

6mm grinding lire

FAB90 STD. TYPE



Die pin location and shape code



FAB 90 TYPE-STD.		
	ROUND	SHAPE
PUNCH ASS'Y	1 T9-APARO	2 T9-APA**
SPRING PACK	3 T9-ASP	3 T9-ASP
PUNCH BODY	4 T9-APBRO	5 T9-APB**
GUIDE	6 T9-AGURO	7 T9-AGU**
STRIPPER	8 T9-ASTRO	9 T9-AST**
DIE	10 TA-ADIRO	11 TA-ADI**

\*Max.Allowable Tonnage:6 Tonne

\*Max.Thickness≤4.0mm MS, ≤3.0mm SS

\*Min. Dia/Width: AL 0.75xT, MS 1.0xT, SS 2.0xT

\*Ejector for size >6mm



FAB90 ABS TYPE



FAB 90 TYPE-AIR BLOW SYSTEM		
	ROUND	SHAPE
PUNCH ASS'Y	12 T9Q-APARO	13 T9Q-APA**
SPRING PACK	3 T9-ASP	3 T9-ASP
PUNCH BODY	14 T9Q-APBRO	15 T9Q-APB**
GUIDE	16 T9Q-AGURO	17 T9Q-AGU**
STRIPPER	18 T9Q-ASTRO	19 T9Q-AST**
DIE	20 TAQ-ADIRO	21 TAQ-ADI**

\*Max.Allowable Tonnage:4.5 Tonne

\*Max.Thickness≤4.0mm MS, ≤3.0mm SS

\*Min. Dia/Width: AL 0.75xT, MS 1.0xT, SS 2.0xT

\*Ejector for size >6mm

6mm grinding wire



FAB 90 TYPE-STD.		
	ROUND	SHAPE
PUNCH ASS'Y	1 T9-BPARO	2 T9-BPA**
SPRING PACK	3 T9-BSP	3 T9-BSP
PUNCH BODY	4 T9-BPBRO	5 T9-BPB**
GUIDE	6 T9-BGURO	7 T9-BGU**
STRIPPER	8 T9-BSTRO	9 T9-BST**
DIE	10 TA-BDIRO	11 TA-BDI**

\*Max.Allowable Tonnage:17 Tonne  
 \*Max.Thickness≤6.35mm  
 \*Min. Dia/Width: AL 0.75xT, MS 1.0xT, SS 2.0xT  
 \*Ejector for size >6mm



FAB 90 TYPE-AIR BLOW SYSTEM		
	ROUND	SHAPE
PUNCH ASS'Y	12 T9Q-APARO	13 T9Q-APA**
SPRING PACK	3 T9-BSP	3 T9-BSP
PUNCH BODY	14 T9Q-BPBRO	15 T9Q-BPB**
GUIDE	16 T9Q-BGURO	17 T9Q-BGU**
STRIPPER	18 T9Q-BSTRO	19 T9Q-BST**
DIE	20 TAQ-BDIRO	21 TAQ-BDI**

\*Max.Allowable Tonnage:16 Tonne  
 \*Max.Thickness≤6.35mm  
 \*Min. Dia/Width: AL 0.75xT, MS 1.0xT, SS 2.0xT  
 \*Ejector for size >6mm

FAB90 STD. TYPE

FAB90 ABS TYPE

8mm grinding wire

FAB90 STD. TYPE

**STANDARD**



**AIR BLOW SYSTEM**

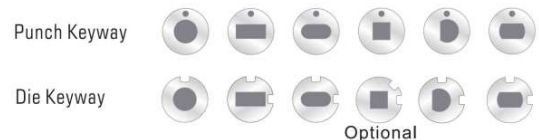


FAB90 ABS TYPE

FAB 90 TYPE-STD.		
	ROUND	SHAPE
GUIDE ASS'Y	1 T9-CGA	1 T9-CGA
PUNCH BODY	3 T9-CPBRO	4 T9-CPB**
STRIPPER	5 T9-CSTRO	6 T9-CST**
DIE	7 TA-CDIRO	8 TA-CDI**

FAB 90 TYPE-AIR BLOW SYSTEM		
	ROUND	SHAPE
GUIDE ASS'Y	1 T9Q-CGA	1 T9Q-CGA
PUNCH BODY	3 T9-CPBRO	4 T9-CPB**
STRIPPER	5 T9Q-CSTRO	6 T9Q-CST**
DIE	7 TA-CDIRO	8 TA-CDI**

\*Max. Thickness 6.35mm  
 \*Min. Dia/Width: AL 0.75xT, MS 1.0xT, SS 2.0xT  
 \*Ejector for size > 6mm  
 \*TICN coating available  
 \*Optional: Rooftop punch



8mm grinding wire

**STANDARD**

**AIR BLOW SYSTEM**



FAB 90 TYPE-STD.		
	ROUND	SHAPE
GUIDE ASS'Y	① T9-DGA	① T9-DGA
PUNCH BODY	③ T9-DPBRO	④ T9-DPB**
STRIPPER	⑤ T9-DSTRO	⑥ T9-DST**
DIE	⑦ TA-DDIRO	⑧ TA-DDI**

FAB 90 TYPE-AIR BLOW SYSTEM		
	ROUND	SHAPE
GUIDE ASS'Y	① T9Q-DGA	① T9Q-DGA
PUNCH BODY	③ T9-DPBRO	④ T9-DPB**
STRIPPER	⑤ T9Q-DSTRO	⑥ T9Q-DST**
DIE	⑦ TA-DDIRO	⑧ TA-DDI**

\*Max. Thickness ≤ 6.35mm  
 \*Min. Dia/Width: AL 0.75xT, MS 1.0xT, SS 2.0xT  
 \*Ejector for size > 6mm  
 \*TICN coating available  
 \*Optional: Rooftop punch



FAB90 STD. TYPE

FAB90 ABS TYPE

8mm grinding wire

FAB90 STD. TYPE

FAB90 ABS TYPE

**STANDARD**

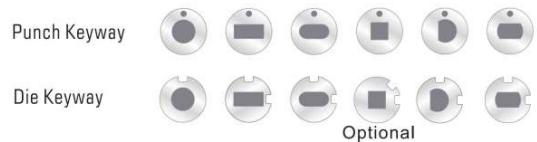
**AIR BLOW SYSTEM**



FAB 90 TYPE-STD.		
	ROUND	SHAPE
GUIDE ASS'Y	① T9-EGA	① T9-EGA
PUNCH BODY	③ T9-EPBRO	④ T9-EPB**
STRIPPER	⑤ T9-ESTRO	⑥ T9-EST**
DIE	⑦ TA-EDIRO	⑧ TA-EDI**

FAB 90 TYPE-AIR BLOW SYSTEM		
	ROUND	SHAPE
GUIDE ASS'Y	① T9Q-EGA	① T9Q-EGA
PUNCH BODY	③ T9-EPBRO	④ T9-EPB**
STRIPPER	⑤ T9Q-ESTRO	⑥ T9Q-EST**
DIE	⑦ TA-EDIRO	⑧ TA-EDI**

\*Max.Thickness6.35mm  
 \*Min. Dia/Width: AL 0.75xT, MS 1.0xT, SS 2.0xT  
 \*Ejector for size > 6mm  
 \*TICN coating available  
 \*Optional:Rooftop punch





**FAB ULTRA TYPE-QUICK ADJUST, HIGH PERFORMANCE TOOLING**



**FAB ULTRA style** thick turret tooling from AFAB is compatible with mate ultra type tooling with several design feature, including:

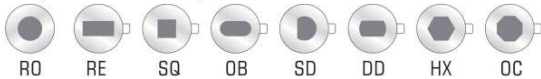
- \* Premium precision ultra punches.
- \* Fast easy punch length adjusting, Exchange punch stripper quickly.
- \* Hardened guides for reduced friction and longer service life.
- \* Regrind life 6.0mm.

bmm grinding wire

FAB ULTRA TYPE



Die pin location and shape code



FAB ULTRA TOOLING SYSTEM		
	ROUND	SHAPE
PUNCH ASS'Y	1 TU-APARO	2 TU-APA**
SPRING PACK	3 TU-ASP	3 TU-ASP
PUNCH BODY	4 TU-APBRO	5 TU-APB**
GUIDE	6 TU-AGURO	7 TU-AGU**
STRIPPER	8 TU-ASTRO	9 TU-AST**
DIE	10 TA-ADIRO	11 TA-ADI**

\*Max. Allowable Tonnage: 6 Tonne

\*Max. Thickness ≤ 4.0mm MS, ≤ 3.0mm SS

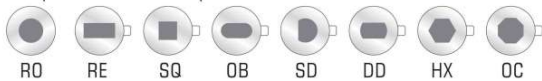
\*Min. Dia/Width: AL 0.75xT, MS 1.0xT, SS 2.0xT

\*Ejector for size > 6mm

6mm grinding wire



Die pin location and shape code



FAB ULTRA TYPE



FAB ULTRA TOOLING SYSTEM		
	ROUND	SHAPE
PUNCH ASS'Y	① TU-BPARO	② TU-BPA**
SPRING PACK	③ TU-BSP	③ TU-BSP
PUNCH BODY	④ TU-BPBRO	⑤ TU-BPB**
GUIDE	⑥ TU-BGURO	⑦ TU-BGU**
STRIPPER	⑧ TU-BSTRO	⑨ TU-BST**
DIE	⑩ TA-BDIRO	⑪ TA-BDI**

\*Max. Allowable Tonnage: 17 Tonne

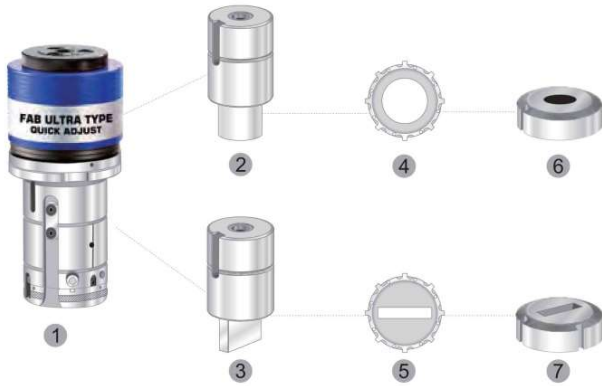
\*Max. Thickness ≤ 6.35mm

\*Min. Dia/Width: AL 0.75xT, MS 1.0xT, SS 2.0xT

\*Ejector for size > 6mm

bmm grinding wire

FAB ULTRA TYPE

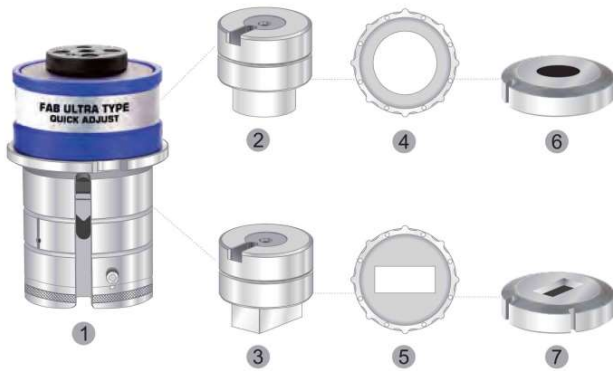


2" C STATION (max.Diameter/diagonal 50.8mm)

FAB ULTRA TYPE-C STATION		
	ROUND	SHAPE
GUIDE ASS'Y	① TU-CGA	① TU-CGA
PUNCH BODY	② TA-CPBRO	③ TA-CPB**
STRIPPER	④ TU-CDIRO	⑤ TU-CST**
DIE	⑥ TA-CDIRO	⑦ TA-CDI**

- \*Use Basic punch body
- \*Max.Allowable Tonnage:17 Tonne
- \*Max.Thickness ≤ 6.35mm
- \*Min. Dia/Width: AL 0.75xT, MS 1.0xT, SS 2.0xT
- \*Ejector for size > 6mm

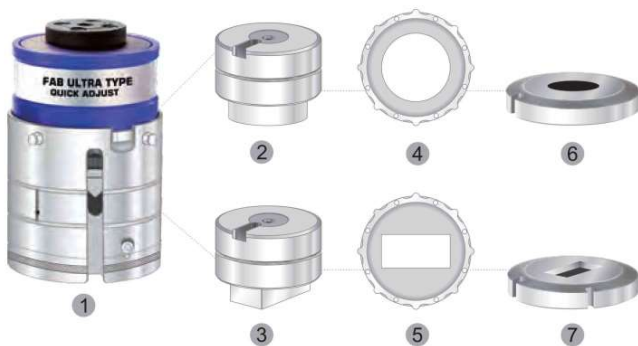
3 1/2" D STATION (max.Diameter/diagonal 88.9mm)



FAB ULTRA TYPE-D STATION		
	ROUND	SHAPE
GUIDE ASS'Y	① TU-DGA	① TU-DGA
PUNCH BODY	② TA-DPBRO	③ TA-DPB**
STRIPPER	④ TU-DSTRO	⑤ TU-DST**
DIE	⑥ TA-DDIRO	⑦ TA-DDI**

- \*Use Basic punch body
- \*Max.Allowable Tonnage:17 Tonne
- \*Max.Thickness ≤ 6.35mm
- \*Min. Dia/Width: AL 0.75xT, MS 1.0xT, SS 2.0xT
- \*Ejector for size > 6mm

4 1/2" E STATION (max.Diameter/diagonal 114.3mm)



FAB ULTRA TYPE-E STATION		
	ROUND	SHAPE
GUIDE ASS'Y	① TU-EGA	① TU-EGA
PUNCH BODY	② TA-EPBRO	③ TA-EPB**
STRIPPER	④ TU-ESTRO	⑤ TU-EST**
DIE	⑥ TA-EDIRO	⑦ TA-EDI**

- \*Use Basic punch body
- \*Max.Allowable Tonnage:17 Tonne
- \*Max.Thickness ≤ 6.35mm
- \*Min. Dia/Width: AL 0.75xT, MS 1.0xT, SS 2.0xT
- \*Ejector for size > 6mm

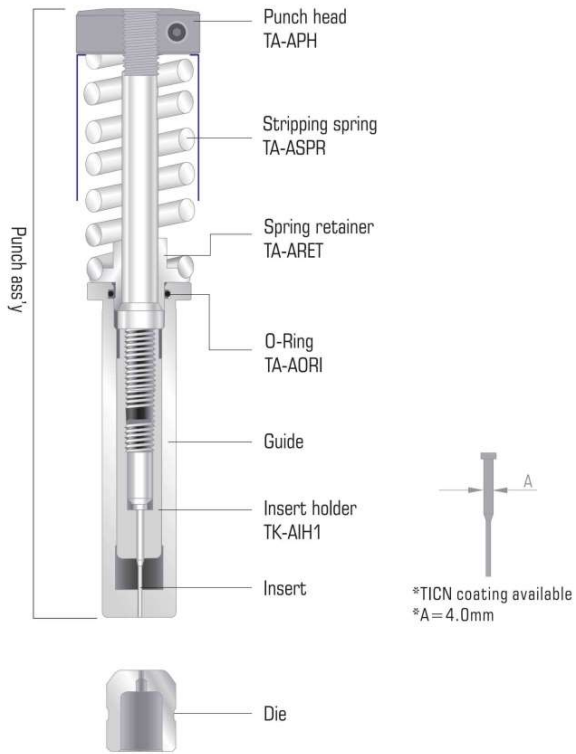
## FULLY GUIDED TYPE-THICK TURRET TOOLING



**FULLY GUIDED style** is special design for very small and very slim size,  
with several design feature, including:

- \* Longer support for punch tip by stripper or guide
- \* Accurate close clearance between punch and guide or stripper.
- \* Advise punch in TiCN coating.
- \* Quick adjust spring pack optional.
- \* Max grinding life on punch 2mm
- \* At least double punch life, reduce punch damaging.

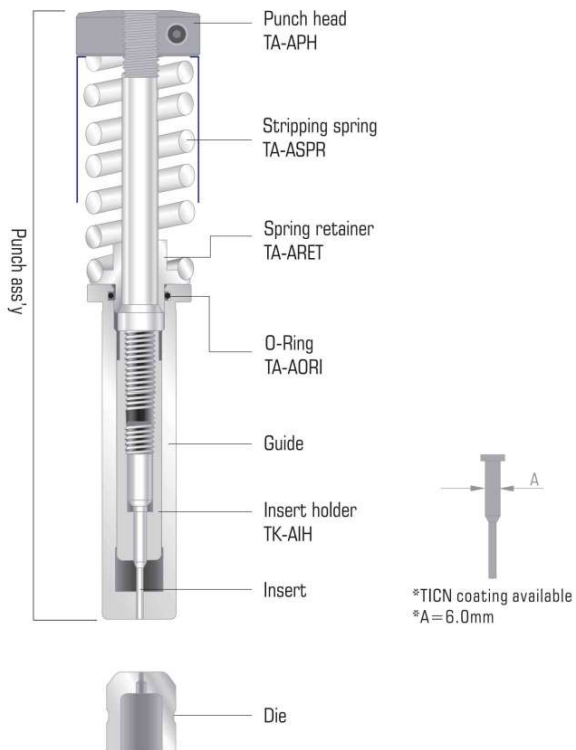
FULLY GUIDED TYPE



FULLY GUIDED-SMALL DIAMETER	
PUNCH ASS'Y	1 TK-APA1
GUIDE	2 TK-AGU1
INSERT ASS'Y	3 TK-APB1
INSERT	4 TK-API1
DIE	5 TK-ADIRO

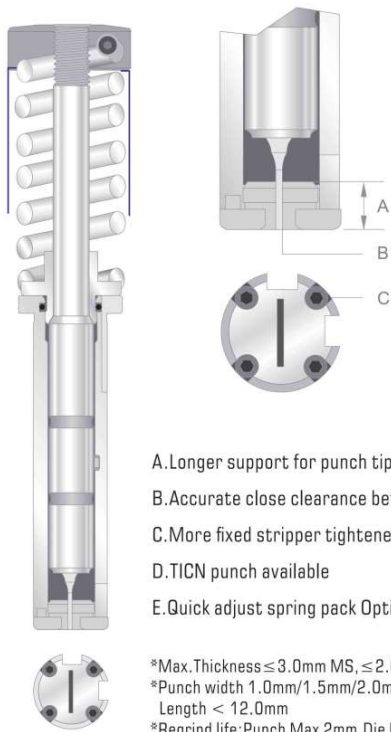
\*Insert size:0.8-3.99mm  
 \*Max.Thickness ≤ 2.0mm MS, ≤ 1.0mm SS  
 \*Min. Dia/Width: AL 0.75xT, MS 1.0xT, SS 2.0xT  
 \*Max grind life in die:1-1.5mm  
 \*Not for precision hole(Tolerance less ± 0.02)

1/2" A STATION (max.Diameter/diagonal 5.99mm)



FULLY GUIDED-SMALL DIAMETER	
PUNCH ASS'Y	1 TK-APA2
GUIDE	2 TK-AGU2
INSERT ASS'Y	3 TK-APB2
INSERT	4 TK-API2
DIE	5 TK-ADIRO

\*Insert size:0.8-5.99mm  
 \*Max.Thickness ≤ 2.0mm MS, ≤ 1.0mm SS  
 \*Min. Dia/Width: AL 0.75xT, MS 1.0xT, Advise not for SS  
 \*Max grind life in die:1-1.5mm  
 \*Not for precision hole(Tolerance less ± 0.02)



- A. Longer support for punch tip by stripper
- B. Accurate close clearance between punch and stripper
- C. More fixed stripper tightened by 4 screws
- D. TiCN punch available
- E. Quick adjust spring pack Optional

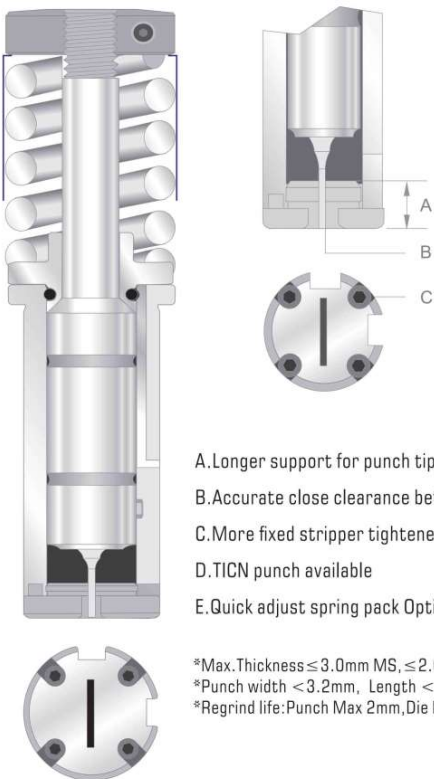
\*Max. Thickness ≤ 3.0mm MS, ≤ 2.0mm SS  
 \*Punch width 1.0mm/1.5mm/2.0mm/2.5mm/3.0mm  
 Length < 12.0mm  
 \*Regrind life: Punch Max 2mm, Die Max 1mm



FULLY GUIDED-A STATION	
PUNCH ASS'Y	① TK-APA**
PUNCH BODY	② TK-APB**
GUIDE	③ TK-AGU**
STRIPPER	④ TK-AST**
DIE	⑤ TK-ADI**



1 1/4" B STATION (max.Diameter 3.2X30mm)



- A. Longer support for punch tip by stripper
- B. Accurate close clearance between punch and stripper
- C. More fixed stripper tightened by 4 screws
- D. TiCN punch available
- E. Quick adjust spring pack Optional

\*Max. Thickness ≤ 3.0mm MS, ≤ 2.0mm SS  
 \*Punch width < 3.2mm, Length < 30.0mm  
 \*Regrind life: Punch Max 2mm, Die Max 1-1.5mm



FULLY GUIDED-B STATION	
PUNCH ASS'Y	① TK-BPA**
PUNCH BODY	② TK-BPB**
GUIDE	③ TK-BGU**
STRIPPER	④ TK-BST**
DIE	⑤ TK-BDI**





2" C STATION (max.Diameter/diagonal 47mm)

FULLY GUIDED TYPE-C STATION	
GUIDE ASS'Y	1 TK-CGA
PUNCH BODY	2 TA-CPB**
STRIPPER	3 TK-CST**
DIE	4 TA-CDI**

\*Use Basic punch body  
 \*Max.Allowable Tonnage:17 Tonne  
 \*Max.Thickness ≤ 6.35mm  
 \*Min. Dia/Width: AL 0.75xT, MS 1.0xT, SS 2.0xT  
 \*Ejector for size > 6mm



3 1/2" D STATION (max.Diameter/diagonal 85mm)

FULLY GUIDED TYPE-D STATION	
GUIDE ASS'Y	1 TK-DGA
PUNCH BODY	2 TA-DPB**
STRIPPER	3 TK-DST**
DIE	4 TA-DDI**

\*Use Basic punch body  
 \*Max.Allowable Tonnage:17 Tonne  
 \*Max.Thickness ≤ 6.35mm  
 \*Min. Dia/Width: AL 0.75xT, MS 1.0xT, SS 2.0xT  
 \*Ejector for size > 6mm



4 1/2" D STATION (max.Diameter/diagonal 110mm)

FULLY GUIDED TYPE-D STATION	
GUIDE ASS'Y	1 TK-EGA
PUNCH BODY	2 TA-EPB**
STRIPPER	3 TK-EST**
DIE	4 TA-EDI**

\*Use Basic punch body  
 \*Max.Allowable Tonnage:17 Tonne  
 \*Max.Thickness ≤ 6.35mm  
 \*Min. Dia/Width: AL 0.75xT, MS 1.0xT, SS 2.0xT  
 \*Ejector for size > 6mm



### Slitting and Close to clamp-THICK TURRET TOOLING

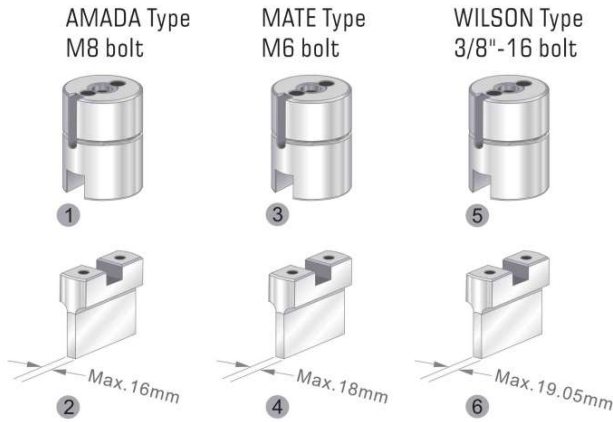


#### Slitting style

- \* Lower cost for punch
- \* Especially for cutting size.
- \* Rooftop for D.E station, reduce punch tonnage and noise
- \* On quick set spring pack,punch life 5mm
- \* TiCN coating advised

#### Close to clamp style

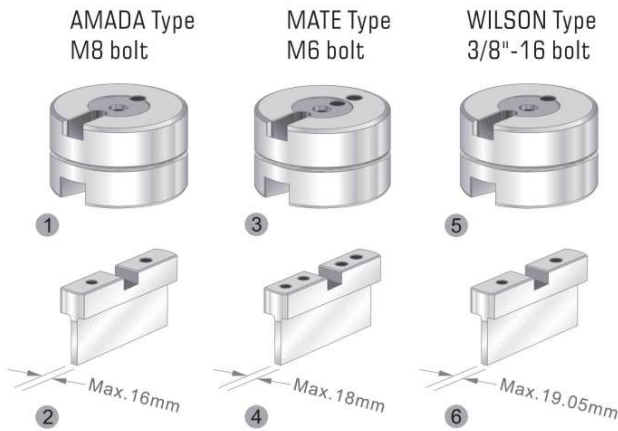
- \* Punch sheet near clamp assembly,Mini 35mm close.
- \* Double relief available
- \* Button to quick set stripper is available.
- \* Punch blade compatible with amada,mate,wilson.



2" C STATION (MAX.Length 50mm)

SLITTING TYPE-C STATION		
	HOLDER	INSERT
AMADA TYPE	① TS-CPHAM	② TS-CPBAM
MATE TYPE	③ TS-CPHMT	④ TS-CPBMT
WILSON TYPE	⑤ TS-CPHWT	⑥ TS-CPBWT

Available shape Rectangle Oblong QR Micro-joint



3 1/2" D STATION (MAX.Length 85mm)

SLITTING TYPE-C STATION		
	HOLDER	INSERT
AMADA TYPE	① TS-DPHAM	② TS-DPBAM
MATE TYPE	③ TS-DPHMT	④ TS-DPBMT
WILSON TYPE	⑤ TS-DPHWT	⑥ TS-DPBWT

Available shape Rectangle Oblong QR Micro-joint



4 1/2" E STATION (MAX.Length 110mm)

SLITTING TYPE-C STATION		
	HOLDER	INSERT
AMADA TYPE	① TS-EPHAM	② TS-EPBAM
MATE TYPE	③ TS-EPHMT	④ TS-EPBMT
WILSON TYPE	⑤ TS-EPHWT	⑥ TS-EPBWT

Available shape Rectangle Oblong QR Micro-joint

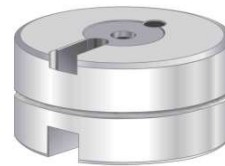
D Station Max 85mm

E Station Max 110mm



Guide assembly  
TS-DGA

Guide assembly  
TS-EGA



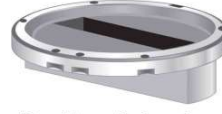
Insert holder  
TS-DPHAM

Insert holder  
TS-EPHAM



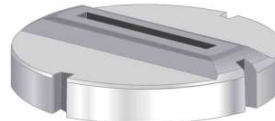
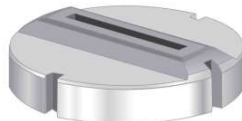
Insert blade  
TS-DPBAM

Insert blade  
TS-EPBAM



Double relief stripper  
TS-DSTAM

Double relief stripper  
TS-ESTAM



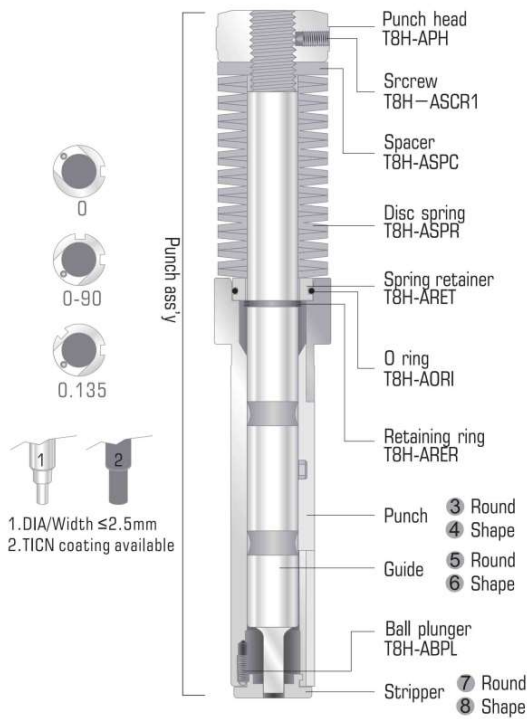
Double relief Die  
TS-DDIAM

Double relief Die  
TS-EDIAM



Use this tool close to work holder clamps. The stripper and the die are relieved so the clamp can pass between the upper and the lower unit. No need to reposition the clamps, saves time, improves piece part quality.

HEAVY DUTY TYPE



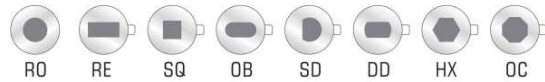
\*Max. Allowable Tonnage: 17 Tonne  
 \*Max. Thickness ≤ 6.35mm  
 \*Min. Dia/Width: AL 0.75xT, MS 1.0xT, SS 2.0xT  
 \*Ejector for size > 6mm

A STATION (max. Diameter/diagonal 12.7mm)



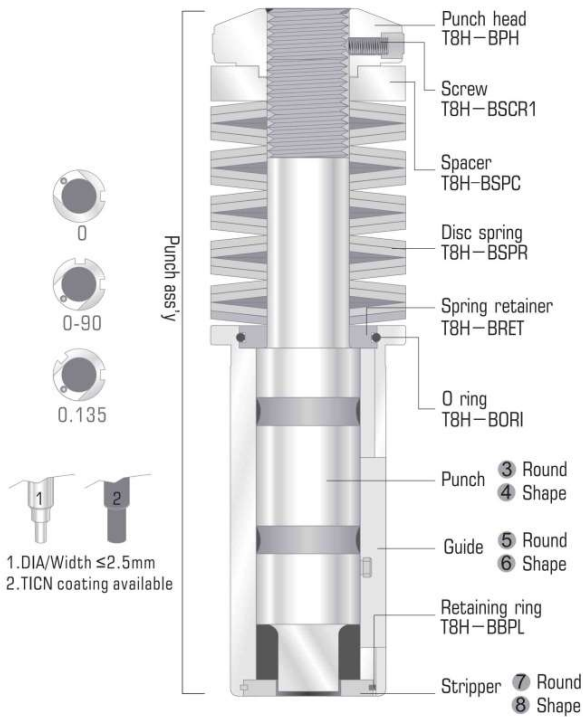
HEAVY DUTY TYPE		
	ROUND	SHAPE
PUNCH ASS'Y	1 T8H-APARO	2 T8H-APA**
PUNCH BODY	3 T8-APBRO	4 T8-APB**
GUIDE	5 T8-AGURO	6 T8-AGU**
STRIPPER	7 T8-ASTRO	8 T8-AST**
DIE	9 TA-ADIRO	10 TA-ADI**

Die pin location and shape code



AIR BLOW SYSTEM

HEAVY DUTY TYPE



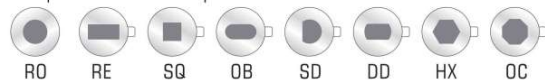
\*Max. Allowable Tonnage: 17 Tonne  
 \*Max. Thickness ≤ 6.35mm  
 \*Min. Dia/Width: AL 0.75xT, MS 1.0xT, SS 2.0xT  
 \*Ejector for size > 6mm

B STATION (max. Diameter/diagonal 31.7mm)

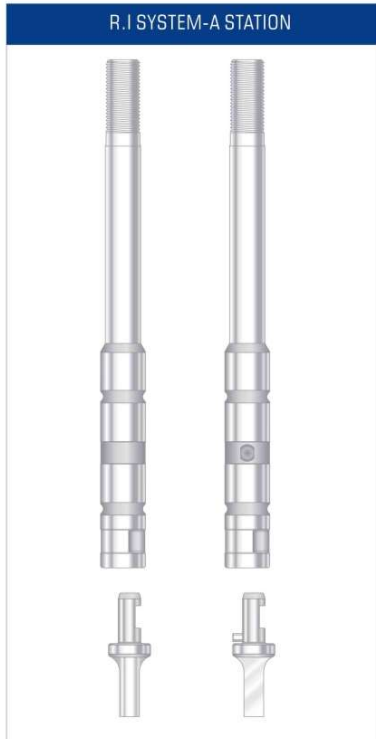


HEAVY DUTY TYPE		
	ROUND	SHAPE
PUNCH ASS'Y	1 T8H-BPARO	2 T8H-BPA**
PUNCH BODY	3 T8-BPBRO	4 T8-BPB**
GUIDE	5 T8-BGURO	6 T8-BGU**
STRIPPER	7 T8-BSTRO	8 T8-BST**
DIE	9 TA-BDIRO	10 TA-BDI**

Die pin location and shape code



**R.I SYSTEM-A STATION**



Description	Round	Shape
Punch holder	TAI-APHRO	TAI-APHSH
Punch insert	TAI-APBRO	TAI-APB**

**R.I SYSTEM-B STATION**

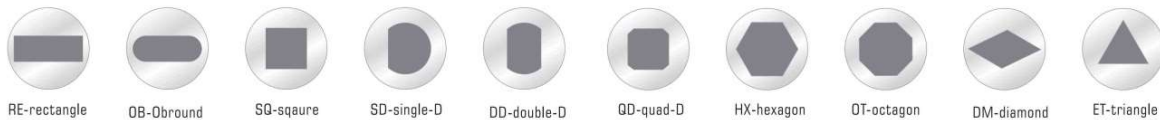


Description	Round	Shape
Punch holder	TAI-BPHRO	TAI-BPHSH
Punch insert	TAI-BPBRO	TAI-BPB**



SLITTING TYPE	D STD. CODE	E STD. CODE
DIE HOLER	TAI-DDH	TAI-EDH
DIE INSERT	TAI-DDI	TAI-EDI

STANDARD SHAPES



## MULTI TOOLS-THICK TURRET TOOLING



**MULTI TOOLS style** use for punch press machine with multi tool function.

like Finnpower,Prima-power, Euromac, Durma.

- \* Premium precision punches.
- \* Adjustable type punch available

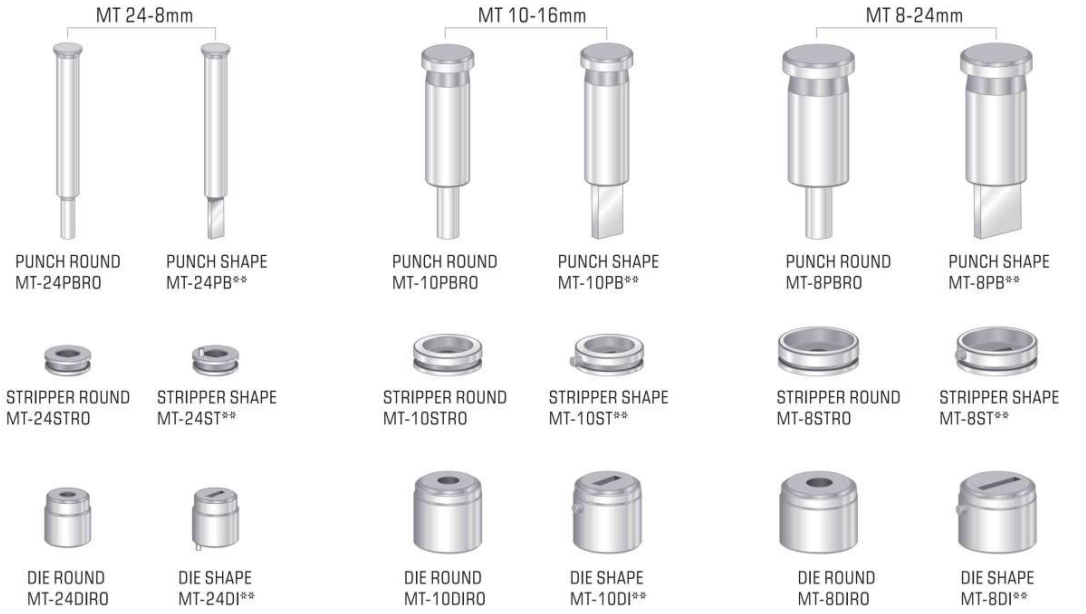


**MULTI TOOLS style** use for punch press machine with multi tool fuction.

like Finnpower,Prima-power,Euromac,Durma.

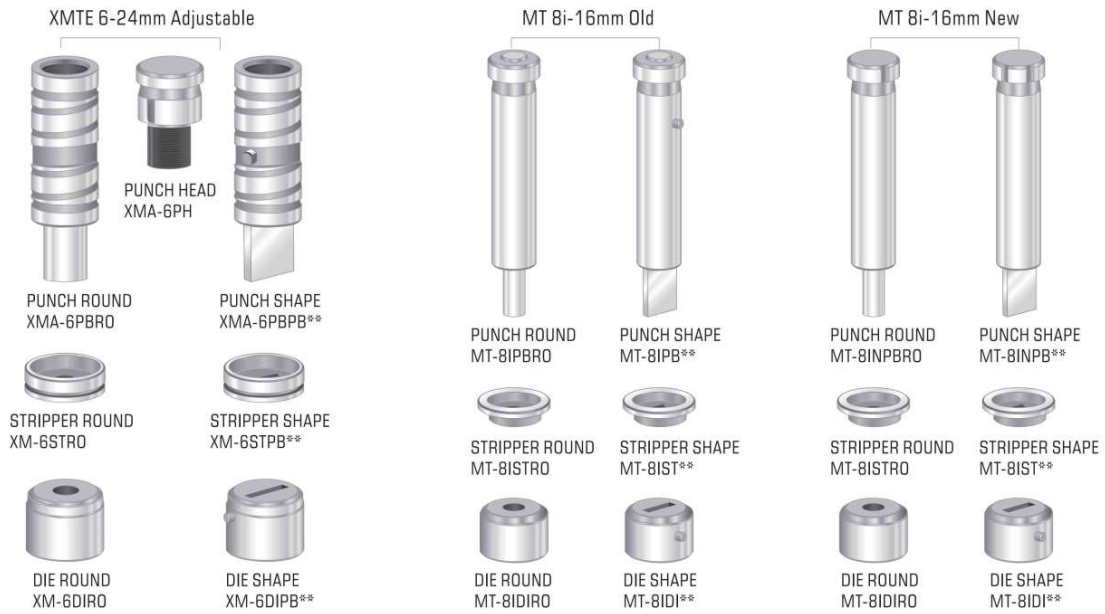
\* Premium precision punches.

\* Adjustable type punch available

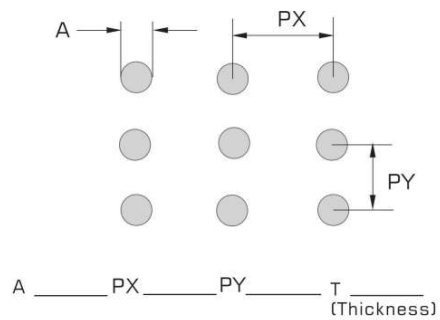


MT TYPE	MAX DIA.	PUNCH LENGTH	DIE HEIGHT	REMARK
MT24-8mm	8.0mm	70.5mm	17.0mm	MT20,MT24,MTE10,MT12-8,MT20-8,MT24
MT10-16mm	16.0mm	70.5mm	24.0mm	MT10,MT6-16, MT10-16
MT8-24mm	24.0mm	70.5mm	24.0mm	MT6,MT8,MTE6,MTE10,MT6-24,MT8-24
XMTE10-12.7mm	12.7mm	100mm	20.0mm	XMTE10
XMTE6-24mm	24.0mm	100mm	24.0mm	XMTE6, XMTE10
XMTE10A-12.7mm	12.7mm	80.5mm	20.0mm	XMTE10





MT TYPE	MAX DIA.	PUNCH LENGTH	DIE HEIGHT	REMARK
XMTE6A-24mm	24.0mm	80.5mm	24.0mm	XMTE6, XMTE10
MT8i-16mm Old	16.0mm	100mm	17.6mm	MT8i, MT8Ri
MT8i-16mm New	16.0mm	100.5mm	17.6mm	MT8i, MT8Ri
DMT24mm	24.0mm	113.5mm	24.0mm	DURMA DMT6-24
XMTE4-B 31.7mm	31.7mm	100.5mm	30.4mm	XMTE4, Ultra IMT3, Ultra MT3
MTX3Ri	31.7mm	100.5mm	30.4mm	MTX3Ri



**Fully guided cluster** Recommend in Diameter/Width < 3.0mm



- A. Longer support for punch tip by stripper
- B. Accurate close clearance between punch and stripper
- C. More fixed stripper tightened by 4 screws
- D. TiCN punch available
- E. Quick adjust guide assembly Optional

**AUTO PUNCH DIE GRINDER V8**



**AFAB GRINDER FEATURE**

- \* Touch-screen interface, Easy operation, Support multiple languages
- \* Friendly grinding system, No need to know grinding parameter
- \* Simple fixture design, Load and unload punch die quickly, easily
- \* Fixture works for popular tooling (amada, trumpf, multi-tool, murata, salvagnini)
- \* Optional shear adjustment fixture
- \* Machine colour: Blue white and Red black

**Optional shear fixture and adaptors**



Fixture base (E STN)



C.D STN adaptor



90 punch adaptor



Trumpf punch adaptor



Alignment Tool-A Station		
	For single track	For multiple track
Punch ass'y	TA-AALPAS	TA-AALPAM
Die	TA-AALDIS	TA-AALDIM
T handle	TA-AALTH	



Alignment Tool-B Station		
	For single track	For multiple track
Punch ass'y	TA-BALPAS	TA-BALPAM
Die	TA-BALDIS	TA-BALDIM
T handle	TA-BALTH	



Alignment Tool-C Station	
Punch ass'y	TA-CALPA
Die	TA-CALDI
T handle	TA-BALTH



Alignment Tool-D Station	
Punch ass'y	TA-DALPA
Die	TA-DALDI
T handle	TA-DALTH



Alignment Tool-E Station	
Punch ass'y	TA-EALPA
Die	TA-EALDI
T handle	TA-EALTH



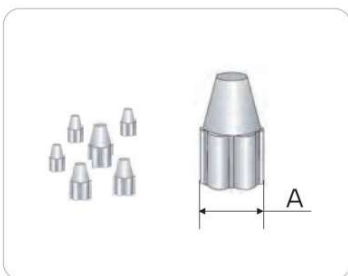
Adpator	B-A	B-C	B-D	D-C	D-A	C-A
Punch	TA-ADABP	TA-ADBCP	TA-ADBDP	TA-ADDCP	TA-ADDAP	TA-ADCAP
Die	TA-ADABD	TA-ADBCD	TA-ADBDD	TA-ADDCD	TA-ADDAD	TA-ADCAD



BALL DIE				
Station	A	B	C	D
Part code	TA.ABD	TA.BBD	TA.CBD	TA.DBD



BRUSH DIE				
Station	A	B	C	D
Part code	TA.ABR	TA.BBR	TA.CBR	TA.DBR



EJECTOR				
Station	A=3	B=6	C=10	
Part code	TA-3EJ	TA-6EJ	TA-0EJ	



Fixture for assembling or disassembling each station tools

Ass'y fixture for a/b/c/d/e  
Code#: FADS



When punch die adhere magnet, should remove by demagnetiser

DEMAGNETISER  
Code#: DEMTC-2



CBN conductive wheel for AMADA TOGU 3 or AFAB V6 grinder

CBN WHEEL  
Code#: ATGW-3



Pliers, Tool separate stripper from guide, guide from punch ass'y

CBN WHEEL  
Code#: PLO1



Fixture to regrind C.D.E station rooftop punch

Angle base for E STN punch  
Code#: FRT-E

Adaptor for C/D STN punch  
Code#: FRT-CD

Frequently check and replace keys, extend life for turret and tooling.

\*Replace keys each half year for upper turret Index station

\*Replace keys each one year for C.D.E and Commonly used station



**\*AMADA KEY FOR UPPER TURRET**

				
Location Code	Location Code	Location Code	Location Code	Location Code
Outner A&B key 91KU2401	Inner A&B key 91KU2402	Outner A&B key 91KU2403	EMK A&B key 91KU2404	Index B key 91KU0401
				
Location Code	Location Code	Location Code	Location Code	Location Code
C (30 STN) key 91KU0601	C (58 STN) key 91KU0601	D STN key 91KU0801	D STN key 91KU0802	D STN key 91KU0803
				
Location Code	Location Code	Location Code	Location Code	Location Code
E STN key 91KU0901	EMZ-Index C key 91KU0603	EMZ- C key 91KU0604	EMZ- D key 91KU0804	EMZ- E key 91KU0902

**\*AMADA KEY FOR LOWER TURRET**

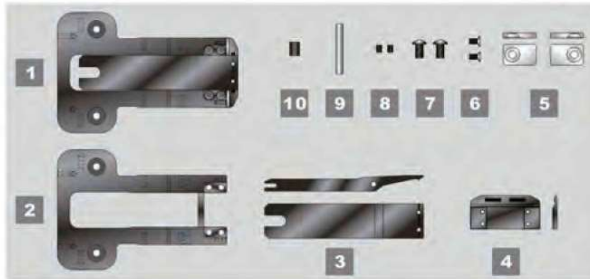
		
Location Code	Location Code	Location Code
C STN key 91KD0601	C&D&E STN key 91KD6891	D STN key 91KD0801

**\*KEY FOR TAILIFT TURRET**

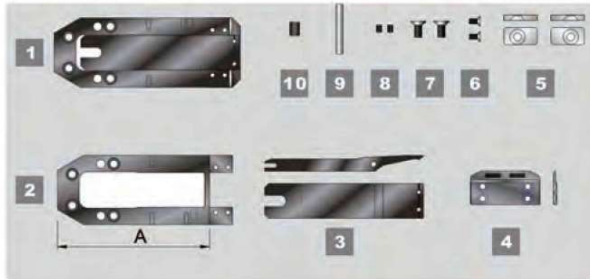
	
Location Code	Location Code
Index B key 91KU0405	Index B Thick key 91KU0406

**\*KEY FOR OTHERS**

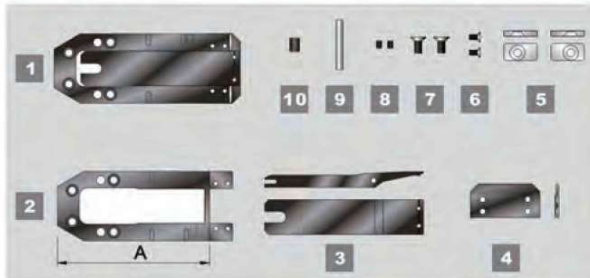

Location Code
Z guide punch key 91960099



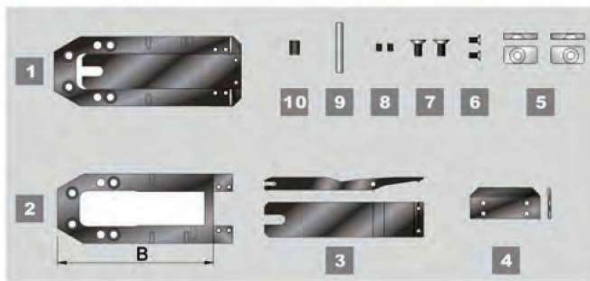
AC/AE/EM PNEUMATIC		
Part name	Clamp base ass'y <sup>1</sup>	Clamp base <sup>2</sup>
Part code	71AM1012	71AM1013
Part name	Clamber <sup>3</sup>	Clamp plate <sup>4</sup>
Part code	71AM1014	71AM1015



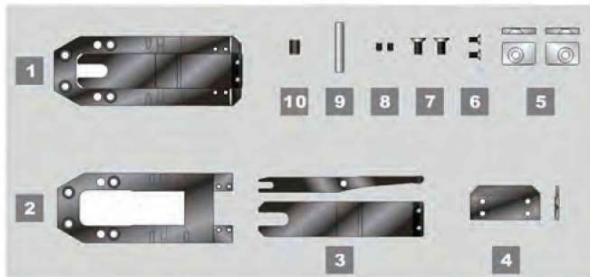
EM-old PNEUMATIC		
Part name	Clamp base ass'y <sup>1</sup>	Clamp base <sup>2</sup>
Part code	71AM1010	71AM1002
Part name	Clamber <sup>3</sup>	Clamp plate <sup>4</sup>
Part code	71AM1003	71AM1011



1 Type PNEUMATIC-255		
Part name	Clamp base ass'y <sup>1</sup>	Clamp base <sup>2</sup>
Part code	71AM1001	71AM1002
Part name	Clamber <sup>3</sup>	Clamp plate <sup>4</sup>
Part code	71AM1003	71AM1004



2 Type PNEUMATIC-357		
Part name	Clamp base ass'y <sup>1</sup>	Clamp base <sup>2</sup>
Part code	71AM1007	71AM1008
Part name	Clamber <sup>3</sup>	Clamp plate <sup>4</sup>
Part code	71AM1003	71AM1009

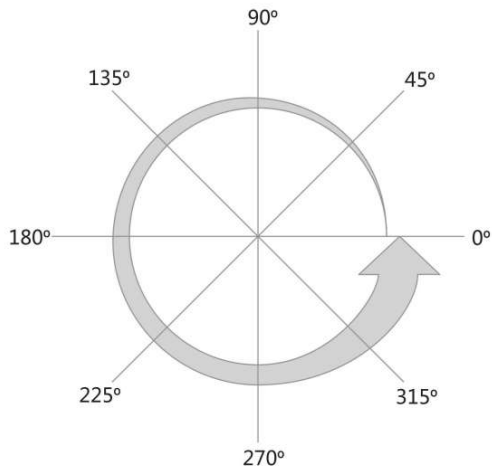


HYDRAULIC CLAMP		
Part name	Clamp base ass'y <sup>1</sup>	Clamp base <sup>2</sup>
Part code	71AM1017	71AM1018
Part name	Clamber <sup>3</sup>	Clamp plate <sup>4</sup>
Part code	71AM1019	71AM1004



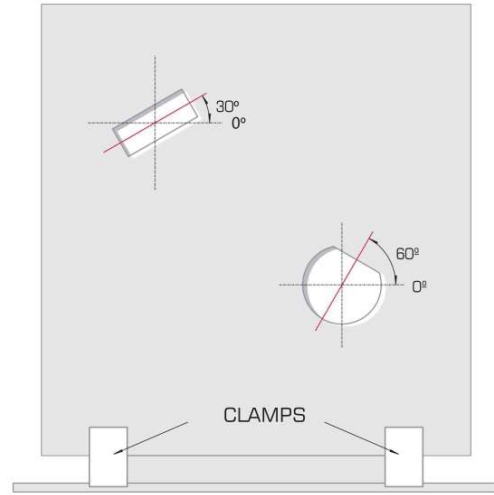


**TOP DIE VIEW**



SHAPE ANGLE DIRECTION

**TOP DIE OF TURRET**



















































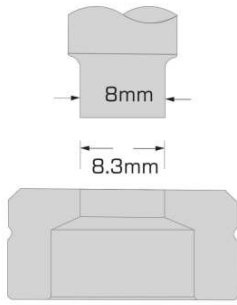
SHAPE POSITION AT SHEET METAL FROM TOP OF MACHINE

**STANDARD SHAPES**



**STANDARD KEYING LOCATIONS**

<b>A&amp;B Station</b>	Punch Pin						
	Die Pin						
<b>C Station</b>	Punch Keyway						
	Die Keyway						
<b>D Station</b>	Punch Keyway						
	Die Keyway						
<b>E Station</b>	Punch Keyway						
	Die Keyway						



8.3-8mm = 0.3mm = Total Clearance

**Recommended Total Die Clearance**

Material Thickness	Aluminum Total Clearance	Mild Steel Total Clearance	Stainless Steel Total Clearance
1.00	0.15	0.20	0.20
1.50	0.23	0.30	0.40
2.00	0.30	0.40	0.50
3.00	0.60	0.75	0.90
4.00	0.80	1.00	1.20
5.00	1.00	1.25	1.75
6.35	1.60	2.00	2.22

**PUNCH TIP TYPE**



**DIE TYPE**

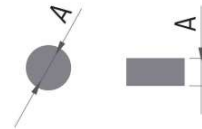


**Minimum punchable hole diameter**

Minimum diameter size has a smaller proof tonnage on the punch edge and lead to the punch break.

Material type	Guarantee
Mild steel	TX1.0
Aluminium	TX1.0
Stainless steel	TX2.0

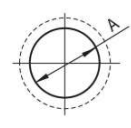
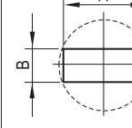
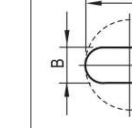
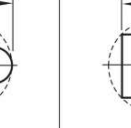
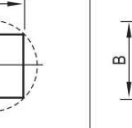
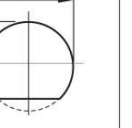
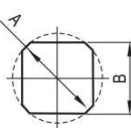
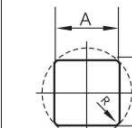
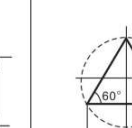
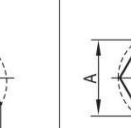
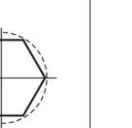
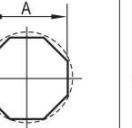
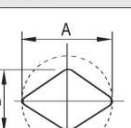
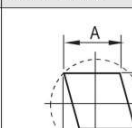
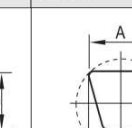
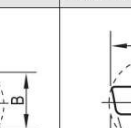
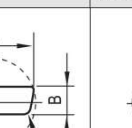
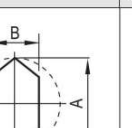
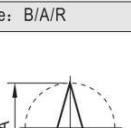
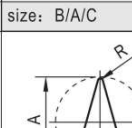
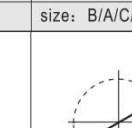
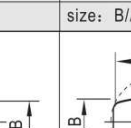
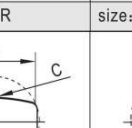
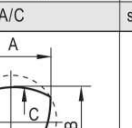
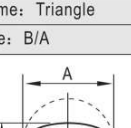
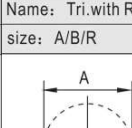
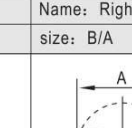
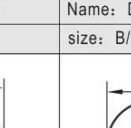
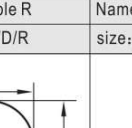
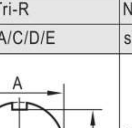
Eg, T = 1.5mm  
 In mild steel Min A = 1.5  
 In Aluminium Min A = 1.5  
 In Stainless steel Min A = 3.0

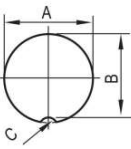
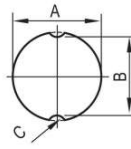
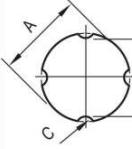
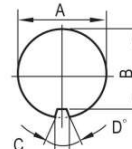
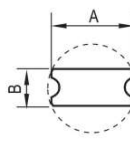
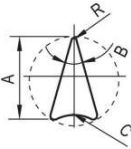
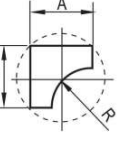
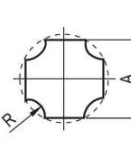
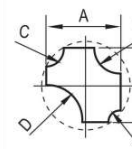
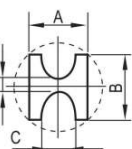
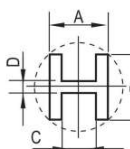
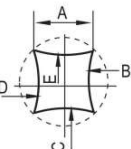
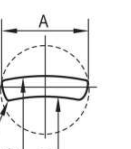
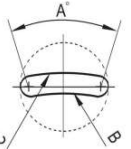
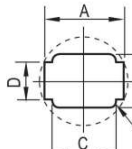
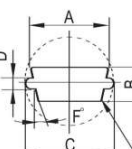
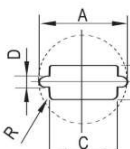
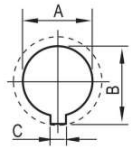
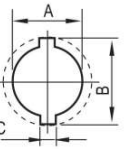
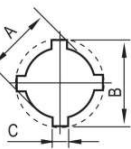
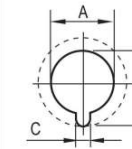
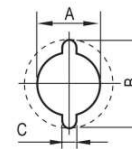
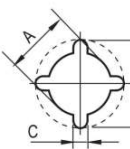
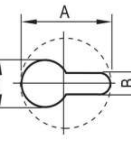
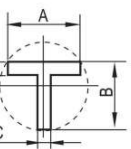
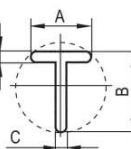
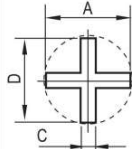
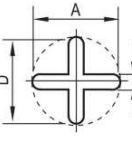
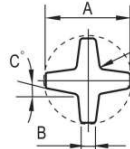


**Maximum allowable tonnage & tool punch size**

	Tool size	A (1/2")				B (1 1/4")			
	Type	Original style		Air-Blow		Original style		Air-Blow	
	Max tonnage	60 kN (6 ton)		45 kN (4.5 ton)		170 kN (17 ton)		160 kN (16 ton)	
	Material	Middle steel	Stainless	Middle steel	Stainless	Middle steel	Stainless	Middle steel	Stainless
Thickness	1.0	Ø 12.7	Ø 12.7	Ø 12.7	Ø 12.7	Ø 31.7	Ø 31.7	Ø 30.0	Ø 30.0
	2.0	Ø 12.7	Ø 12.7	Ø 12.7	Ø 11.5	Ø 31.7	Ø 31.7	Ø 30.0	Ø 30.0
	3.0	Ø 12.7	Ø 10.5	Ø 12.0	Ø 8.0	Ø 31.7	Ø 30.0	Ø 30.0	Ø 28.0
	4.0	Ø 11.5	Ø 8.0	Ø 9.0	NG	Ø 31.7	Ø 22.5	Ø 30.0	Ø 25.0
	5.0	Ø 9.5	NG	Ø 7.0	NG	Ø 27.0	Ø 18.0	Ø 25.5	Ø 17.0
	6.0	Ø 8.5	NG	NG	NG	Ø 23.0	Ø 15.0	Ø 21.0	Ø 14.0

\* All calculation is based up on shear strength Mild steel :400N / mm2 stainless steel : 600N / mm2.

					
Code: RO	Code: RE	Code: OB	Code: SQ	Code: SD	Code: DD
Name: Round	Name: Rectangle	Name: Oblong	Name: Square	Name: Single D	Name: Double D
size: A	size: B/A	size: B/A	size: A	size: B/A	size: B/A
					
Code: QD	Code: QR	Code: ET	Code: HX	Code: OT	Code: A0
Name: Quad D	Name: Quad R	Name: Equi.triangle	Name: Hexagon	Name: Octagon	Name: Diamond
size: B/A	size: B/A/A	size: A	size: A	size: A	size: B/A
					
Code: A1	Code: A2	Code: A3	Code: A4	Code: A5	Code: A6
Name: Diamond	Name: Diamond	Name: Diamond	Name: Cable connector	Name: Eix edge	Name: Eight edge
size: B/A/R	size: B/A/C	size: B/A/C/R	size: B/A/C/R	size: B/A/C	size: C/B/A/D
					
Code: A7	Code: A8	Code: A9	Code: B0	Code: B1	Code: B2
Name: Triangle	Name: Tri.with R	Name: Right Tri.	Name: Double R	Name: Tri-R	Name: Quad-R
size: B/A	size: A/B/R	size: B/A	size: B/A/C/D/R	size: B/A/C/D/E	size: B/A/D/E/F/G
					
Code: B3	Code: B4	Code: B5	Code: C0	Code: C1	Code: C2
Name: Ellipse	Name: Football	Name: Keyhole	Name: Keyway	Name: Double keyway	Name: Quad keyway
size: B/A/C/R	size: A/B	size: A/B/C	size: C/B/A	size: C/B/A	size: C/B/A

					
Code: C3	Code: C4	Code: C5	Code: C6	Code: C7	Code: D0
Name: keyway	Name: Double-keyway	Name: Quad-keyway	Name: Keyway	Name: Micro-joint	Name: Triangle with R
size: C/B/A	size: C/B/A	size: C/B/A	size: C/B/A/D	Size: B/A	size: A/B/C/R
					
Code: D1	Code: D2	Code: D3	Code: D4	Code: D5	Code: E0
Name: One way radius	Name: Four way radius	Name: Four way	Name: H with radius	Name: H shape	Name: Four Radius
size: B/A/R	size: A/R	size: A/B/C/D/E/F	size: D/C/B/A	size: D/C/A/B	size: A/B/C/D/E
					
Code: E1	Code: E2	Code: E3	Code: E4	Code: E5	Code: E6
Name: Banana	Name: Banana	Name: Connector	Name: Connector	Name: Connector	Name: Keyhole
size: A/C/D/R	size: B/C/A	size: D/B/C/A/R	size: D/B/A/C/F/R	size: D/B/C/A/R	size: C/A/B
					
Code: E7	Code: E8	Code: F0	Code: F1	Code: F2	Code: F3
Name: Keyhole	Name: Keyhole	Name: Keyhole	Name: Keyhole	Name: Keyhole	Name: Keyhole
size: C/A/B	size: C/A/B	size: C/A/B	size: C/A/B	size: C/A/B	size: B/C/A
					
Code: F4	Code: F5	Code: F6	Code: F7	Code: F8	
Name: T shape	Name: T shape	Name: Cross	Name: Cross	Name: Cross	
size: D/C/B/A	size: D/C/A/B	size: C/B/D/A	size: B/A/D	size: B/A/C/D/R	



## AFAB GRINDER FEATURE

- \* Touch-screen interface, Easy operation, Support multiple languages
- \* Friendly grinding system, No need to know grinding parameter
- \* Simple fixture design, Load and unload punch die quickly, easily
- \* Fixture works for popular tooling (amada, trumpf, multi-tool, murata, salvagnini)
- \* Optional shear adjustment fixture
- \* Machine colour: Blue white and Red black

## Optional shear fixture and adaptors



Fixture base (E STN)



C.D STN adaptor



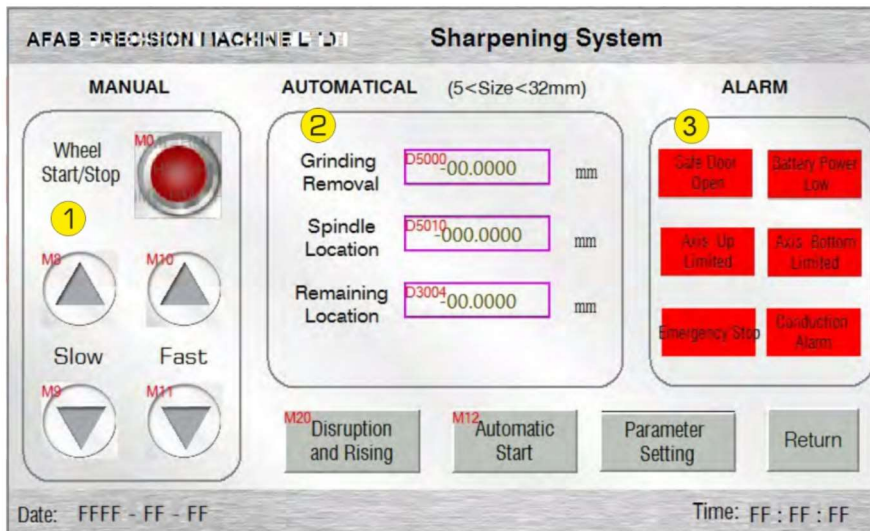
90 punch adaptor



Trumpf punch adaptor

AFAB GRINDING SYSTEM

- ① Manual operation    ② Removal setup    ③ Alarm area



Specification

Voltage	AC380,50Hz
Power of Main Motor	2.2KW,2840RPM
Motor of Rotating Table	0.100KW,1440RPM
Servo Motor	0.75KW
Cooling Motor	0.045KW
Maximum Grinding Diameter	200mm
Diameter of Grinding Wheel	135mm
Measure of Machine(LXWXH)	820X810X1810mm