

KTMP.CNC.TOOLING



THIN TURRET TOOLING

ОФИЦИАЛЬНЫЙ ДИЛЕР В РОССИИ

ООО "ОБОРУДОВАНИЕ ИНТЕРНЕЙШЕНЕЛ"

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CONTENTS

COMPANY PROFILE

Q-ADJUST SERIES

M90	B Station (1-1/4")	P03
M90	D Station (3-1/2")	P04
M80	B Station (1-1/4")	P05
M5/8"	B Station (5/8")	P06

E SERIES/HEAVYDUTY

E80	B Station(1-1/4")	P07
SPH90	B Station(1-1/4")	P08

FORMING TOOL

EXTRUSION	P09
EXTRUSION/CENTERPOINT	P10
LANCE AND FORM/KNOCKOUT	P11
THREAD FORM/EMBOSS	P12
LOUVER	P13
CLUSTER/CARD GUIDE	P14
COUNTERSINK/HALF SHEAR/EMBOSS COUNTERSINK	P15
EMBOSS EXTRUSION/RIB TOOL/THREAD LOOP/HINGLE	P16
BRIDGE、STAMPING	P17
ALIGNMENT TOOL、ADAPTOR	P18
ACCESSORIES	P19、P20
SHAPE CLASSES	P21、P22



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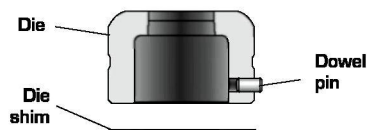
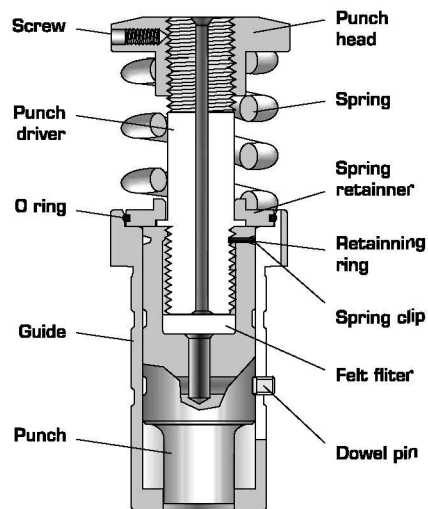
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Q-ADJUST SERIES

M90

B Station(1-1/4")

Round/Shape (~31.7mm)



NOTE



- ◀ 90 punch grind life is 6.5mm
- ◀ Adjust quickly and easily with separate driver ass'y
- ◀ With lubrication function
- ◀ Interchange with popular tooling

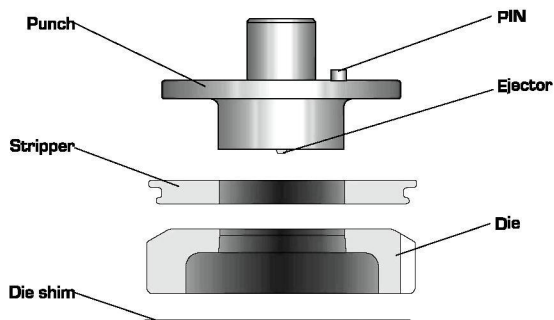
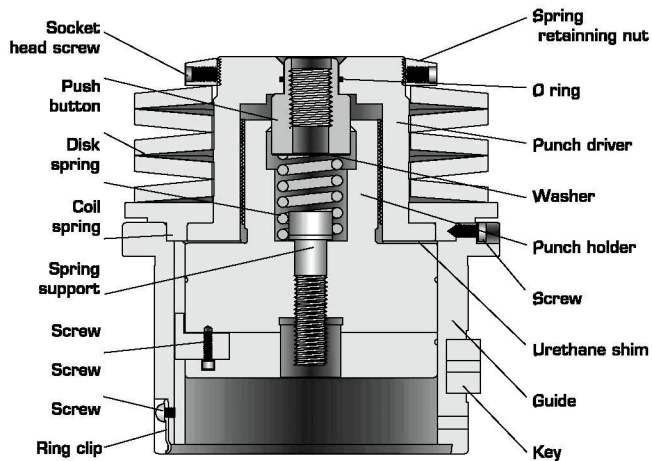
Description	Part Code	Price
Punch ass'y		
Round Shape		
Punch head ass'y		
Punch		
Round Shape Round(stubby) Shape(stubby)		
Guide		
Round Shape		
Die		
Round(Std.) Round(S/O) Shape(Positive) Shape(S/F) Shape(S/O)		

Q-ADJUST SERIES

M90 (FAB style)

D Station(3-1/2")

Round/Shape (31.71~88.9mm)



FAB style

Turret bore 4.3744"/111.11mm



FAB die height:0.85"/21.6mm

NOTE



- ◀ 90 punch grind life is 10mm
- ◀ Adjust quickly and easily without shims
- ◀ With lubrication function
- ◀ Interchange with popular tooling

Description	Part Code	Price
Guide ass'y		
Punch		
Round		
Shape		
Shape(rooftop)		
Stripper		
Round		
Shape		
Die		
Round(Std.)		
Round(S/O)		
Round(Heavy duty)		
Shape(Positive)		
Shape(S/F)		
Shape(S/O)		
Shape(Heavy duty)		

Q-ADJUST SERIES

M80

PATENT

B Station(1-1/4")

Round/Shape (~31.7mm)



NOTE



- ◀ No shims or tool, Set up quickly & easily.
- ◀ Use std. punch ,Max.grinding life:6.0mm.
- ◀ Spring pack stly, save cost.

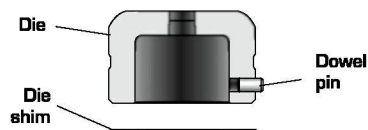
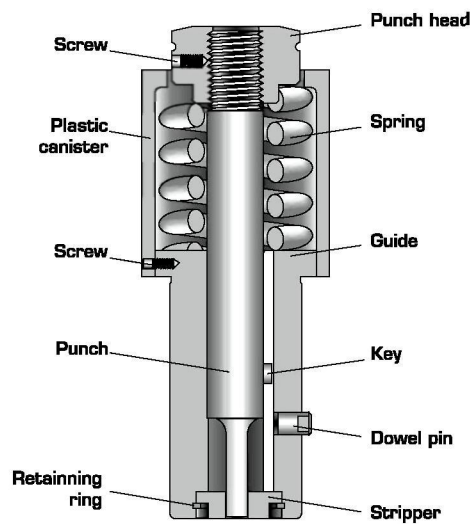
Description	Part Code	Price
Punch ass'y		
Round		
Shape		
Punch		
Round		
Shape		
Round(stubby)		
Shape(stubby)		
Guide		
Round		
Shape		
Die		
Round(Std.)		
Round(S/O)		
Shape(Positive)		
Shape(S/F)		
Shape(S/O)		
Punch head ass'y		
Retainning ring		
Punch head		
Screw		
Spring retainer		
Spring support		
O ring		
Adjusting pin		
Spring		
Spring support		

Q-ADJUST SERIES

M5/8" (Drop in style)

B Station(5/8")

Round/Shape (~15.8mm)



NOTE



- ◀ Change size, only replace punch and stripper
- ◀ Grind life is 6.0mm
- ◀ No shims after grinding
- ◀ Adjust easily

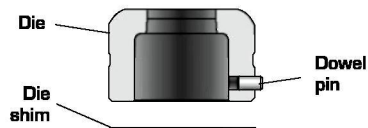
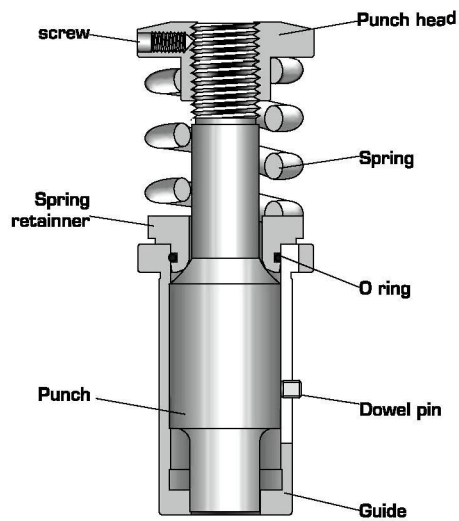
Description	Part Code	Price
Punch ass'y		
Round		
Shape		
Guide		
Round		
Shape		
Punch		
Round		
Shape		
Round(stubby)		
Shape(stubby)		
Stripper		
Round		
Shape		
Die		
Round(Std.)		
Round(S/O)		
Shape(Positive)		
Shape(S/F)		
Shape(S/O)		

E SERIES

M80

B Station(1-1/4")

Round/Shape (~31.7mm)



NOTE



◀ Interchange with popular tooling

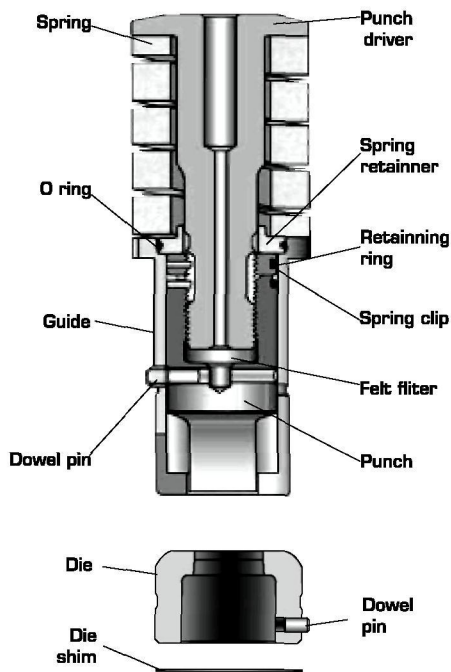
Description	Part Code	Price
Punch ass'y		
Round		
Shape		
Punch		
Round		
Shape		
Round(stubby)		
Shape(stubby)		
Guide		
Round		
Shape		
Die		
Round(Std.)		
Round(S/O)		
Shape(Positive)		
Shape(S/F)		
Shape(S/O)		

HEAVY DUTY

SPH90

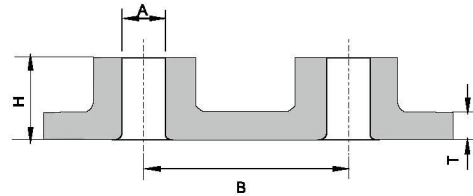
B Station(1-1/4")

Round/Shape (~31.7mm)



Description	Part Code	Price
Punch ass'y		
Round Shape		
Punch head ass'y		
Punch		
Round Shape		
Round(stubby)		
Shape(stubby)		
Guide		
Round Shape		
Die(Heavy duty)		
Round Shape		

EXTRUSION



Machine: _____ A: _____
 Material: _____ B: _____
 H: _____ T: _____

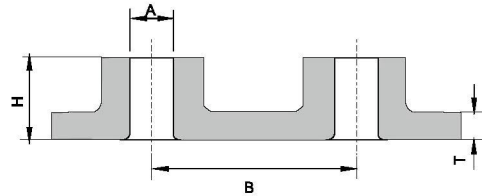
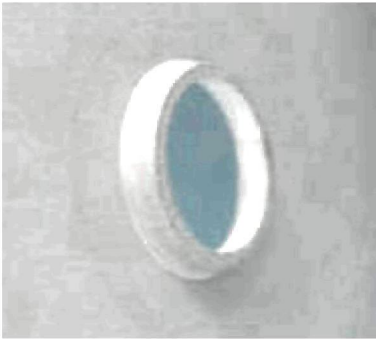
- 1 Replaceable insert design on extrusion
- 2 Max.thickness: 2mm for mild steel or AL.
1mm for stainless.
- 3 forming height Max.H: over 3 x thread pitch
need prepunch.
- 4 Two typess: Form up and Form down.
- 5 Please fill in the above form.

● Prepunch size(Mild steel,Aluminum)

Unit: mm

Thickness		0.8		1.0		1.2		1.6(AL 1.5)		2.0		2.3	
	ϕA	PP	H	PP	H	PP	H	PP	H	PP	H	PP	H
M2.6	2.21	1.3	1.5	1.3	1.8	1.3	2.0	1.6	2.2				
M3	2.57	1.3	1.7	1.3	2.0	1.6	2.0	1.6	2.4				
M4	3.40	2.0	1.8	2.0	2.0	2.0	2.2	2.3	2.5	2.3	2.5	2.5	3.2
M5	4.30			2.3	2.3	2.3	2.5	2.8	2.8	2.8	3.2	3.0	3.5
M6	5.10					3.0	2.6	3.0	3.1	3.8	3.2	3.8	3.4

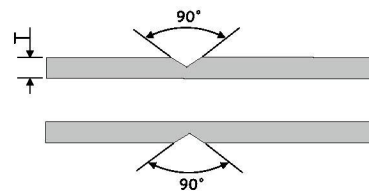
EXTRUSION



Machine: _____ A: _____
 Material: _____ B: _____
 H: _____ T: _____

- 1 Replaceable insert design on extrusion
- 2 Max.thickness: 2mm for mild steel or AL
1mm for stainless
- 3 Max.H \geq 2T
- 4 Need prepunch
- 5 Give tool enough time to strip
- 6 Two typess: Form up and Form down

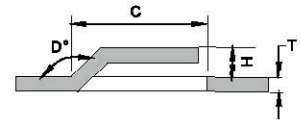
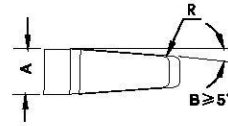
CENTERPOINT



Machine: _____
 Material: _____ T: _____

- 1 Forbid punching empty
- 2 Two typess: Form up and Form down
- 3 Angle:90 degree,Max.thickness:6.0mm
- 4 Please fill in the above form

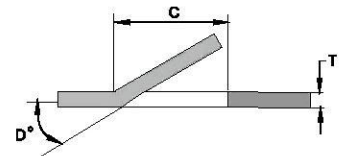
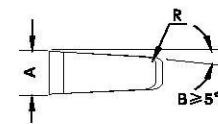
LANCE AND FORM



Machine: _____
Material: _____

A: _____
B: _____
C: _____

D: _____
R: _____
H: _____ T: _____



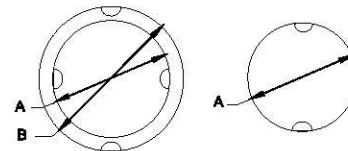
Machine: _____
Material: _____

A: _____
B: _____
C: _____

D: _____
R: _____
H: _____ T: _____

- 1 Tooling is made for specific sheetmetal thickness
- 2 Give tool enough time to strip
- 3 Two types: form down and form up

KNOCKOUT



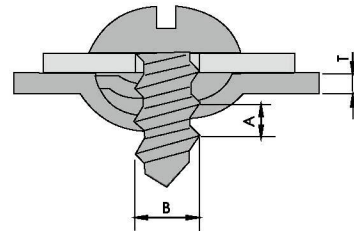
Machine: _____
Material: _____

A: _____
B: _____

T: _____

- 1 Forbid punch empty
- 2 Control shear depth with tool height
- 3 Design singl EKO, double EKO, triple EKO
- 4 Give tool enough time to strip
- 5 Two types: form down and form up

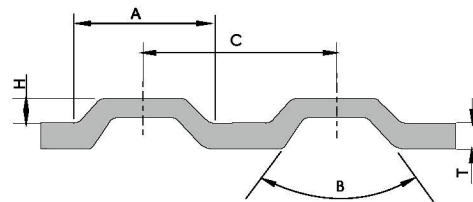
THREAD FORM



Machine: _____ A: _____
Material: _____ B: _____ D: _____
C: _____ T: _____

- 1 Two types: form down and form up
- 2 Sheet metal range: 0.5mm~1.2mm
- 3 Please fill the above form
- 4 Consult our sales desk if not clear

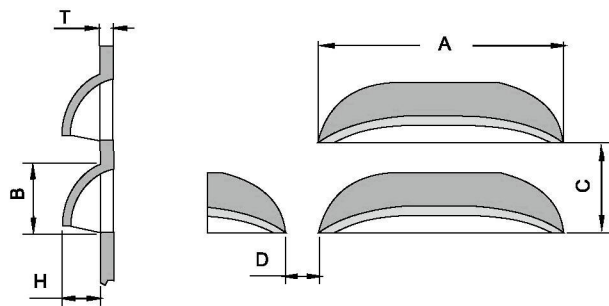
EMBOSS



Machine: _____ A: _____
Material: _____ B: _____ H: _____
C: _____ T: _____

- 1 Two types: Form up and Form down
- 2 Escape clamp or punching hole
- 3 Give tool enough time to strip
- 4 Option: round or shape
- 5 Please fill in the above form

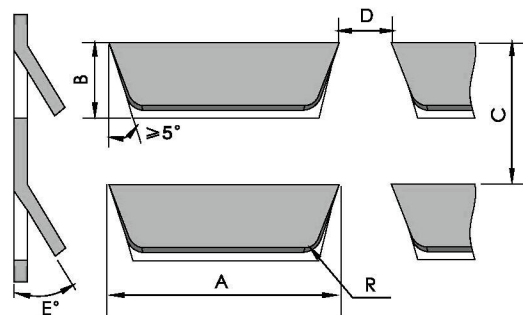
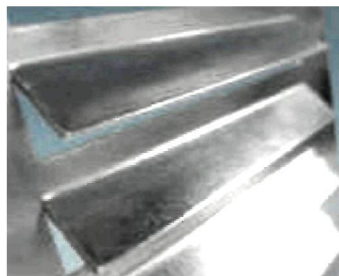
CLOSE LOUVER



Machine: _____ A: _____ B: _____ C: _____ D: _____
Material: _____ H: _____ T: _____

- 1 Tooling is made for specific sheetmetal thickness
- 2 Give tool enough time to strip
- 3 Adjust length without shim, replaceable insert
- 4 Only form up

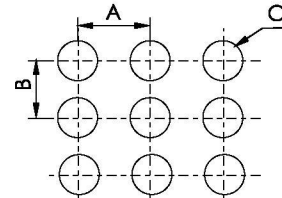
OPEN LOUVER



Machine: _____ A: _____ B: _____ C: _____ D: _____
Material: _____ E: _____ R: _____

- 1 Tooling is made for specific sheetmetal thickness
- 2 Give tool enough time to strip
- 3 Adjust length without shim, replaceable insert
- 4 Only form up

CLUSTER

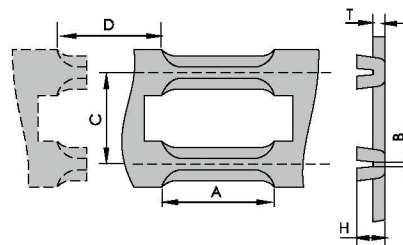
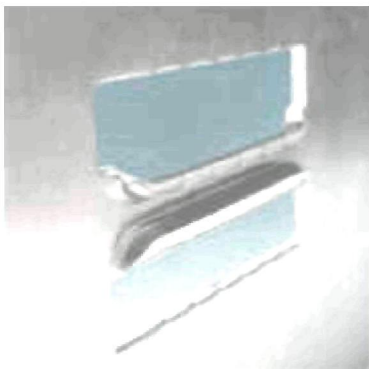


Machine: _____
Material: _____

A: _____
B: _____
C: _____ T: _____

- 1 Space of holes must be over 3.2mm or 2 XT
- 2 Please fill in the above form
- 3 Consult our sales desk if not clear

CARD GUIDE

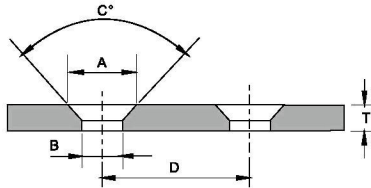


Machine: _____
Material: _____

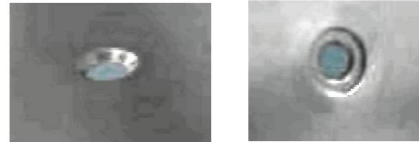
A: _____ D: _____
B: _____ H: _____
C: _____ T: _____

- 1 Tooling is made for specific sheetmetal thickness
- 2 Give tool enough time to strip
- 3 Adjust length without shim, replaceable insert
- 4 Only form up
- 5 Form height $H \leq 2T$

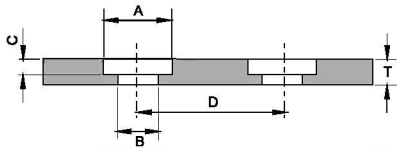
COUNTERSINK



Machine: _____ A: _____
Material: _____ B: _____ D: _____
C: _____ T: _____

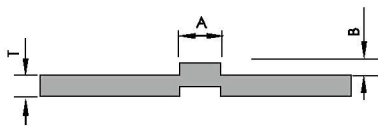


- 1 Need prepunch
- 2 Change hole size to get different depth
- 3 Two types: form down and form up
- 4 Min. thickness: $T \geq 1.0\text{mm}$



Machine: _____ A: _____
Material: _____ B: _____ D: _____
C: _____ T: _____

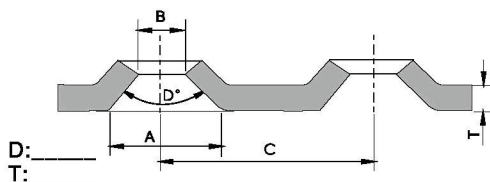
HALF SHEAR/EMBOSS COUNTERSINK



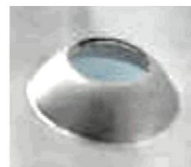
Machine: _____ A: _____
Material: _____ B: _____ T: _____



- 1 Max. B size : $0.6 \times \text{thickness}$.
- 2 Two types: Form up and Form down.
- 3 Give tool enough time to strip.
- 4 Please fill in the above form

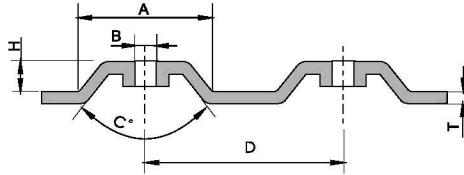


Machine: _____ A: _____ B: _____
Material: _____ C: _____ T: _____



- 1 Need prepunch
- 2 Option: pierce and form in one hit
- 3 Two types: Form up and form down

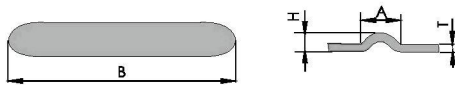
EMBOSS EXTRUSION/ RIB TOOL



Machine: _____ A: _____ D: _____
 Material: _____ B: _____ H: _____
 C: _____ T: _____



- 1 Complete emboss and extrusion on one hit.
- 2 Give tool enough time to strip
- 3 Only form up.
- 4 Please fill in the above form.

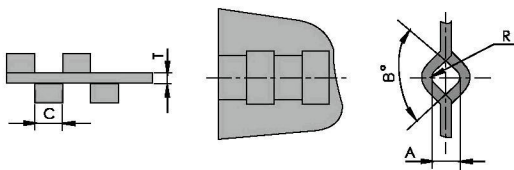


Machine: _____ A: _____ H: _____
 Material: _____ B: _____ T: _____



- 1 Keep proper away from holes, clamp, material edge
- 2 Two types: Specific length & nibbling
Form up and Form down
- 3 Increment of ribbling rib should be 0.5~2.0mm
- 4 For Max. thickness: 2.7mm mild steel or AL,
2.3mm Stainless steel

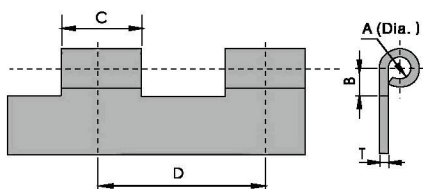
THREAD LOOP/HINGLE



Machine: _____ A: _____ R: _____
 Material: _____ B: _____ T: _____
 C: _____



- 1 Angle "B" standard 90°
- 2 Please fill in the above form
- 3 Consult our sales desk if not clear

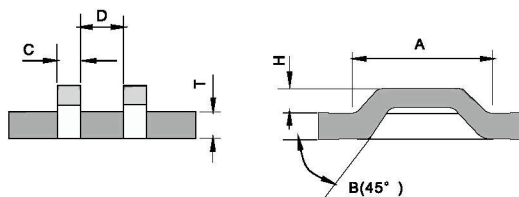


Machine: _____ A: _____ D: _____
 Material: _____ B: _____ T: _____
 C: _____



- 1 Tooling is made for specific sheet metal thickness
- 2 Need prepunch
- 3 First for curling, second for forming
- 4 Only form up
- 5 $T \leq 2T$ (Mild steel), $\leq 1.5mm$ (Stainless steel)

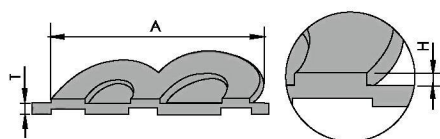
BRIDGE



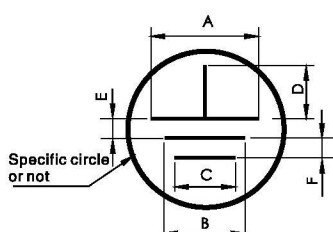
- 1 Design single or double bridge,
- 2 Two types: form down and form up
- 3 Bridge width (C) $\geq 2XT$ and $\geq 1.8\text{mm}$
- 4 Give tool enough time to strip
- 5 Please fill in the above form

Machine: _____ A: _____ D: _____
Material: _____ B: _____ H: _____
C: _____ T: _____

STAMPING



Machine: _____ A: _____
Material: _____ H: _____
T: _____



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

Machine: _____ A: _____ D: _____ G(width): _____
Material: _____ B: _____ E: _____ H(depth): _____
C: _____ F: _____

ALIGNMENT TOOL/ADAPTOR



Description	B Station	
	Part Code	Price
Set ass'y		
Punch ass'y		
Die		
T-handle		



Description	D Station	
	Part Code	Price
Set ass'y		
Punch ass'y		
Die		
T-handle		



Sta.	Description	Part Code	Price
D-B	Set ass'y		
	Punch ass'y		
	Die		

BALL RIDING DIE/BRUSH DIE/ADJUSTING CAP



Description	B Station		D Station	
	Part Code	Price	Part Code	Price
Ball riding die				
Brush die				

Adjusting cap	
Part Code	Price

SHIM

Description	B Station		D Station	
	Part Code	Price	Part Code	Price
Punch shim(0.4mm)				
Punch shim(0.8mm)				
Punch shim(1.2mm)				
Die shim(0.4mm)				
Die shim(0.8mm)				
Die shim(1.2mm)				



SHAPE CLASSES

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: ET	Code: HX	Code: OT	Code: A0	Code: A1
Name: Quad D	Name: Equi. triangle	Name: Hexagon	Name: Octagon	Name: Diamond	Name: Diamond
size: B/A	size: A	size: A	size: A	size: B/A	size: B/A/R
Code: A2	Code: A3	Code: A4	Code: A5	Code: A6	Code: A7)
Name: Diamond	Name: Diamond	Name: Cable connector	Name: Eix edge	Name: Eight edge	Name: Triangle
size: B/A/C	size: B/A/C/R	size: B/A/C/R	size: B/A/C	size: C/B/A/D	size: B/A
Code: A8	Code: A9	Code: B0	Code: B1	Code: B2	Code: B3
Name: Tri. with R	Name: Right Tri.	Name: Double R	Name: Tri-R	Name: Quad-R	Name: Ellipse
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	size: B/A/C/R
Code: B4	Code: B5	Code: C0	Code: C1	Code: C2	Code: C3
Name: Football	Name: Keyhole	Name: Keyway	Name: Double keyway	Name: Quad keyway	Name: keyway
size: A/B	size: A/B/C	size: C/B/A	size: C/B/A	size: C/B/A	size: C/B/A

■ Standard shape: RE, OB, SQ, SD, DD, QD, EX, HX, OT.

SHAPE CLASSES

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