### KTMP.CNC.TOOLING



#### **MURATA WIEDEMANN TOOLING**

KTMP Nieuwlandlaan 9 B - 3200 Aarschot Belgium ОФИЦИАЛЬНЫЙ ДИЛЕР В РОССИИ

ООО "ОБОРУДОВАНИЕ ИНТЕРНЕЙШЕНЕЛ"

121609 Москва, Рублевское ш., д. 34, корп. 1

Тел. +7 (495) 413-9481

Факс +7 (495) 413-9580

info@obint.ru

www.obint.ru

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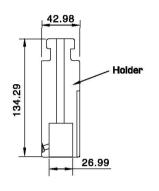


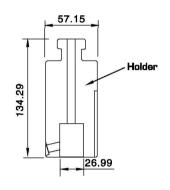
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#### 114 HOLDER FOR C3 MACHINE

XA STA.	Code	Price
Punch holder	1	

IA STA.	Code	Price
Punch holder		

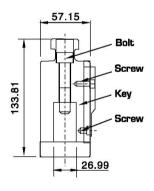


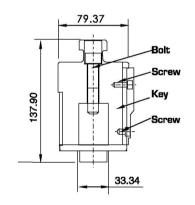




B STA.	Code	Price
Punch holder		

CSTA.	Code	Price
Punch holder		

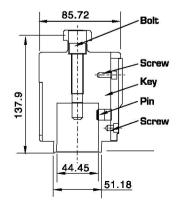


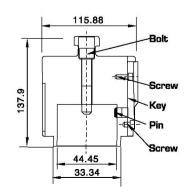




D STA.	Code	Price
Punch holder		

E,FSTA.	Code	Price
Punch holder		



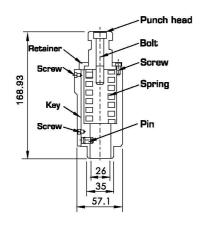




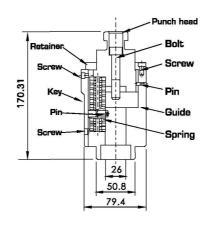
## **KTMP** TOOLING

#### **VULCAN HOLDER**

A,B STA.	Code	Price
Punch holder		

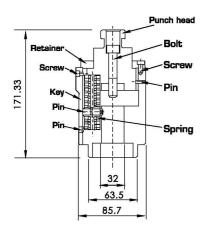


CSTA.	Code	Price
Punch holder		

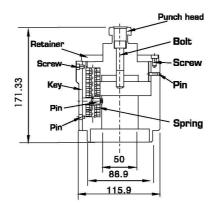




DSTA.	Code	Price
Punch holder		

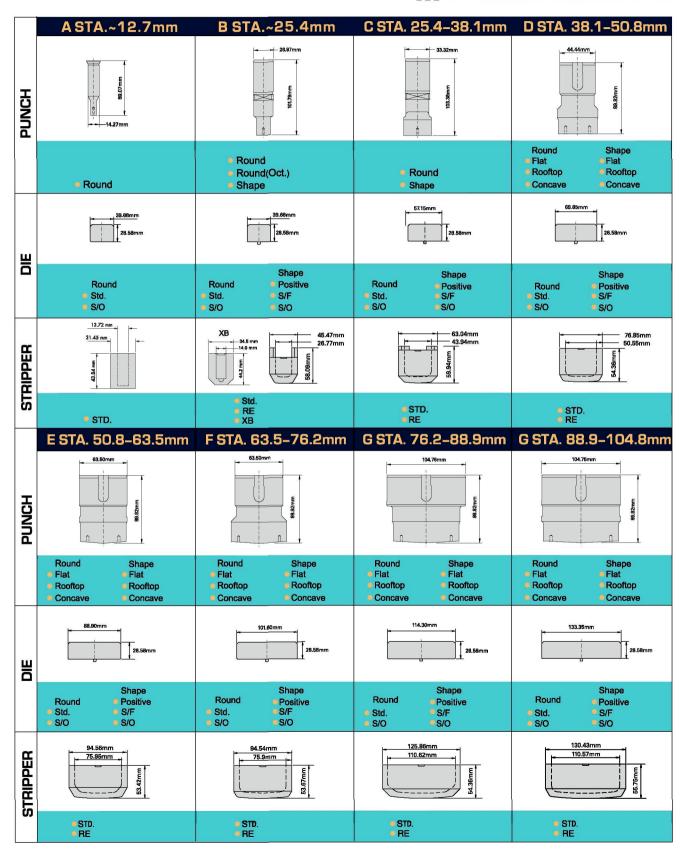


E/F STA.	Code	Price
Punch holder		



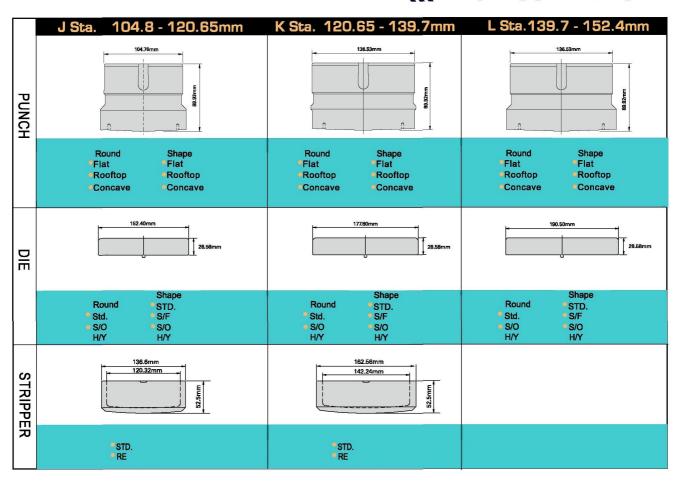


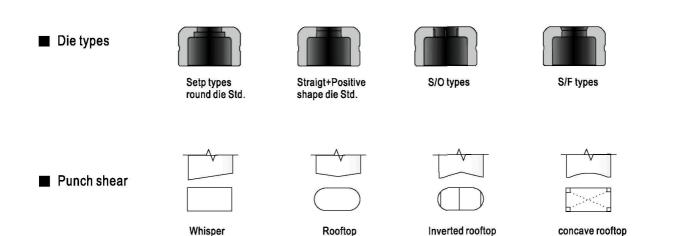
#### **\*\*\*** 114 SERIES STANDARD STYLE



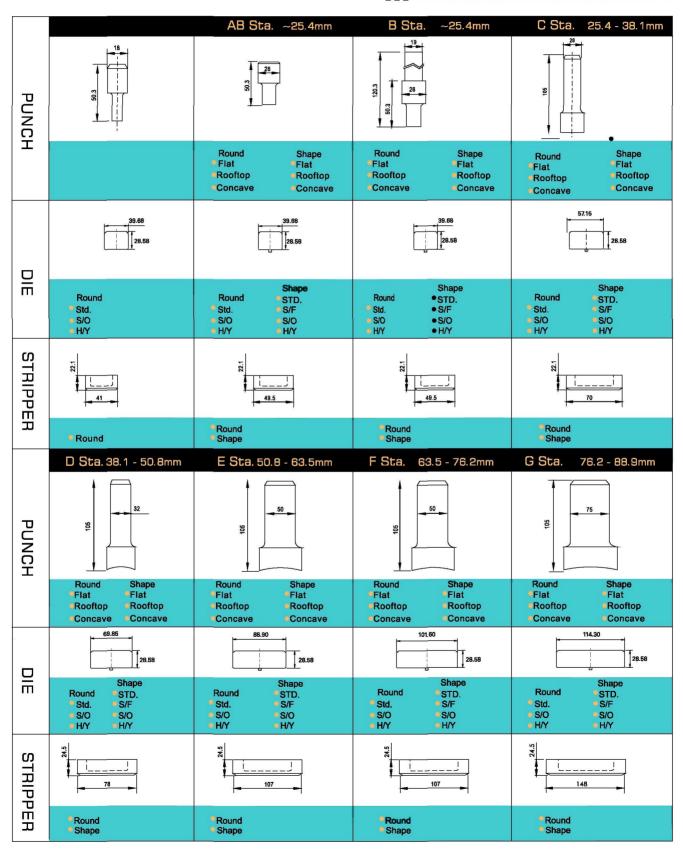
### KTMP<sup>®</sup> TOOLING

#### **\\\** 114 SERIES STANDARD STYLE



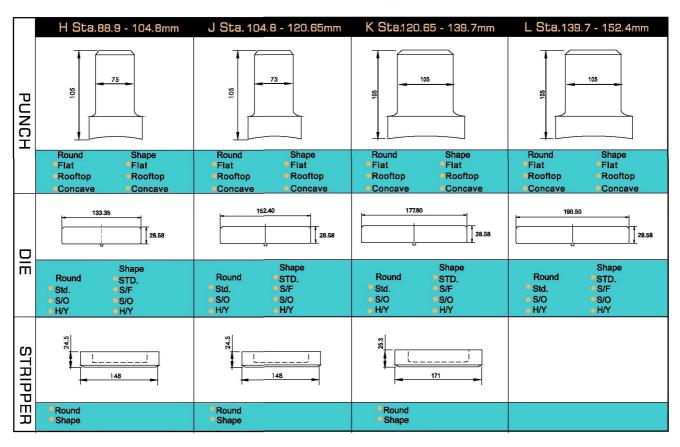


#### **\*\*\*\* VULCAN SERIES STANDARD STYLE**



# KTMP<sup>®</sup>TOOLING

#### **{{{** VULCAN SERIES STANDARD STYLE

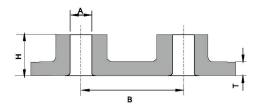


#### Die clearance (Recommanded: mm)

Thickness Material	0.8	1.0	1.5	2.0	2.5	3.0	3.2	3.5	4.0	4.5	5.0	5.5	6.0
Alumium(AL)	0.12	0.15	0.23	0.3	0.38	0.45	0.5	0.6	0.7	0.8	1.0	1.1	1.2
Mild steel(MS)	0.15	0.2	0.3	0.4	0.5	0.7	0.75	0.85	1.0	1.1	1.25	1.35	1.5
Stainless steel(SS)	0.2	0.25	0.38	0.55	0.65	0.9	0.95	1.05	1.2	1.35			

#### **EXTRUSION**





A:\_\_\_\_ Machine: \_\_\_\_ B:\_\_\_ Material: \_\_\_\_ 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)

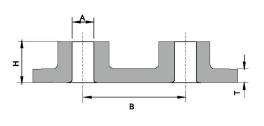
Unit: mm

Thic	kness	0	.8	1	.0	1	.2	1.6(A	L 1.5)	2.0		2.3	
	ØΑ	PP	Н	PP	Н	PP	Н	PP	H	PP	H	PP	Н
<b>M</b> 2.6	2.21	1.3	1.5	1.3	1.8	1.3	2.0	1.6	2.2				
<b>M</b> 3	2.57	1.3	1.7	1.3	2.0	1.6	2.0	1.6	2.4				
<b>M</b> 4	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
<b>M</b> 5	4.30			2.3	2.3	2.3	2.5	2.8	2.8	2.8	3.2	3.0	3.5
<b>M</b> 6	5.10					3.0	2.6	3.0	3.1	3.8	3.2	3.8	3.4

# KTMP®TOOLING

#### EXTRUSION



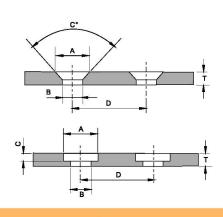


A:\_\_\_\_ Machine: \_\_\_\_ B:\_\_\_ Material: \_\_\_ H:\_\_\_ T:\_\_\_

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

#### COUNTERSINK





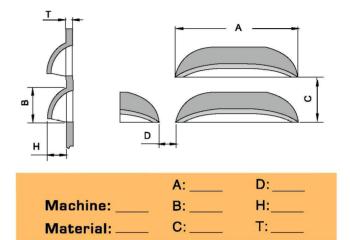
Machine:\_\_\_\_

A: \_\_\_\_\_ B: \_\_\_\_ D:\_\_\_\_

- 1 Need prepunch
- 2 Change hole size to get different depth
- 3 Two types:form down and form up
- 4 Min.thickness: T≥1.0mm

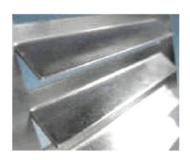
#### **CLOSE LOUVER**

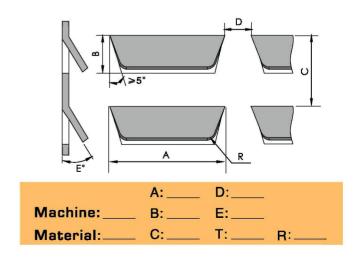




- 1 Tooling is made for specific thickness
- 2 Give tool enough time to strip
- 3 Adjust length wiithout shim, replaceable insert
- 4 Only form up

#### **OPEN LOUVER**





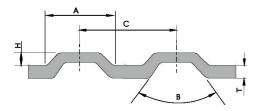
- 1 Tooling is made for specific thickness
- 2 Give tool enough time to strip
- 3 Adjust length wiithout shim, replaceable insert
- 4 Only form up

### **KTMP** TOOLING

#### **EMBOSS**





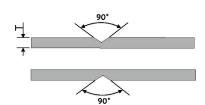


- 1 Two typess: Form up and Form down
- 2 Escape clamp or punching hole
- 3 Give tool enough time to strip
- 4 Option:round or shape
- 5 Please fill in the above form

#### CENTERPOINT



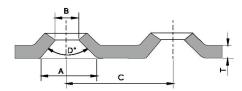


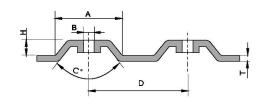


Machine:	
Material:	T:

- 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

#### EMBOSS COUNTERSINK/EMBOSS EXTRUSION





A: \_\_\_\_ D: \_\_\_\_ Machine: \_\_\_ B: \_\_\_ H: \_\_\_\_ Material: \_\_\_ C: \_\_\_ T: \_\_\_

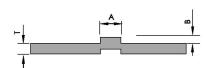


- Need prepunch
- 2 Option:pierce and form in one hit
- 3 Two typess:Form up and form down



- 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.

#### HALF SHEAR/RIB TOOL



Machine: \_\_\_\_ A: \_\_\_ Material: \_\_\_ B: \_\_\_ T: \_\_\_



 Machine:
 A:
 H:
 \_\_\_\_

 Material:
 B:
 T:
 \_\_\_\_



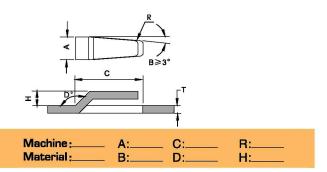
- 1 Max.B size : 0.6 X thickness.
- 2 Two typess: Form up and Form down.
- 3 Give tool enough time to strip.
- 4 Please fill in the above form

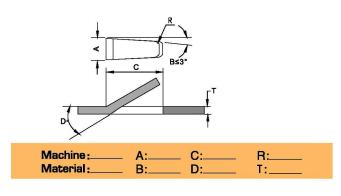


- 1 Two typess: Specific length & nibbling
- Form up and Form down Increment of ribbbling rib should be 0.5~2.0mm
- 3 For Max.thickness: 2.7mm mild steel or AL, 2.3mm Stainless steel

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#### **LANCE AND FORM**





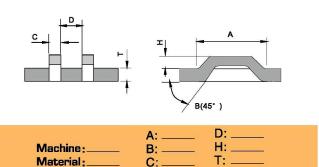


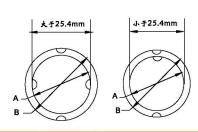
- 1 Tooling is made for specific thickness
- 2 Give tool enough time to strip
- 3 Two types:form down and form up



- 1 Tooling is made for specific thickness
- 2 Height in 90 degree tool should be over 2T

#### BRIGDE/KNOCKOUT





Machine: A: T: T: \_\_\_\_

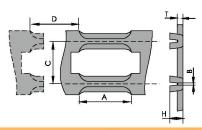


- 1 Design single or double bridge,
- 2 Two types:formdown and formup
- 3 Bridge width (C)≥2XT and ≥1.8mm

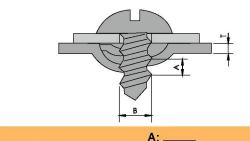


- Forbid punch empty
- 2 Control shear depth with tool height
- 3 Design singl EKO, double EKO, triple EKO

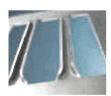
#### CARD GUIDE/THREAD FORM



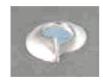
A: \_\_\_\_ D: \_\_\_\_ Machine: B: H: \_\_\_\_ Material: C: T: \_\_\_



Machine: \_\_\_\_ B: \_\_\_ D: \_\_\_ Material: \_\_\_ C: \_\_\_ T: \_\_\_

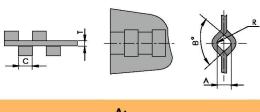


- 1 Tooling is made for specific thickness
- 2 Adjust length wiithout shim, replaceable insert
- 3 Form height H≤2T

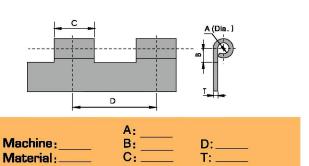


- 1 Two types:form down and form up
- 2 Sheetmetal range:0.5mm~1.2mm
- 3 Please fill the left form
- 4 Consult our sales desk if not clear

#### THREAD LOOP/HINGLE



A: \_\_\_\_ Machine: \_\_\_\_ B: \_\_\_ R: \_\_\_ Material: \_\_\_ C: \_\_\_ T: \_\_\_





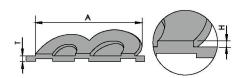
- 1 Angle "B" standard 90°
- 2 Please fill in the above form
- 3 Consult oursales desk if not clear



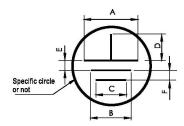
- 1 Tooling is made for specific sheetmeal thickness
- 2 Need prepunch
- 3 First for curling, second for forming
- 4 Only form up
- 5 T≤2T (Mild steel), ≤1.5mm (Stainless steel)

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#### STAMPING



A: \_\_\_\_ Machine: \_\_\_\_ H: \_\_\_ Material: \_\_\_\_ T: \_\_\_\_



 A: \_\_\_\_\_ D: \_\_\_\_

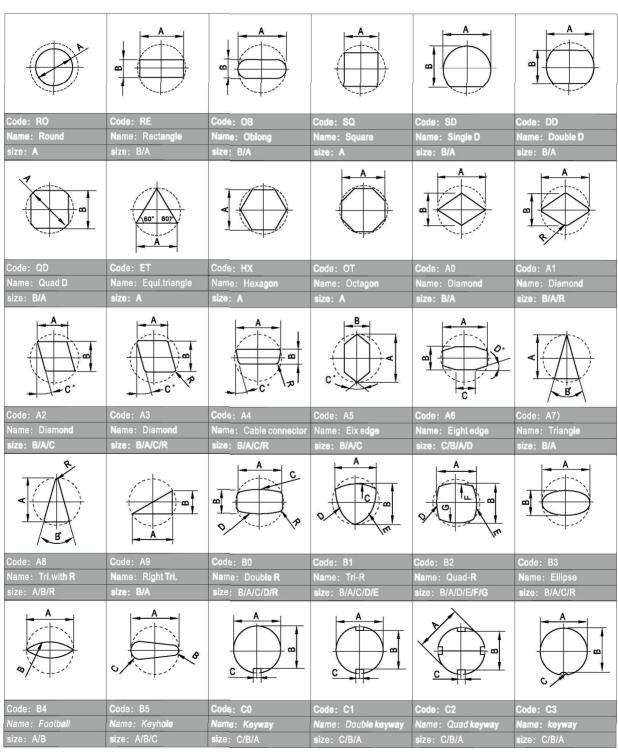
 Machine: \_\_\_\_\_ B: \_\_\_\_ E: \_\_\_\_\_
 G(width): \_\_\_\_\_

 Material: \_\_\_\_\_ C: \_\_\_\_ F: \_\_\_\_\_
 H(depth): \_\_\_\_\_



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

#### **SHAPE CLASSES**



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

### **KTMP** TOOLING

#### **SHAPE CLASSES**

