



2014
SPECIAL TOOLS

SPECIAL TOOLS



NOT POSSIBLE? YET POSSIBLE!

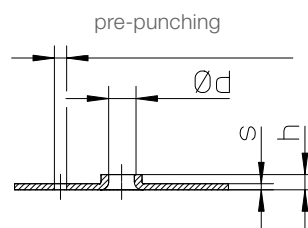
Be it form/blanking, cluster or embossing tool, be it form tool, marking, thread rolling or knockout tool. In the acquisition, the construction and the implementation of even very complex special tools, PASS Stanztechnik AG goes beyond the mere core functionality of punching tools. In this process, the expertise of the various departments of PASS will be bundled on a company-wide basis in order to find the ideal solution for the customer's special requirements.

Following strength calculations, all PASS special tools are submitted to a test run on one of our three machines assigned to this purpose. They are then labeled for documentation and control with a sample sheet. Furthermore, the customers receive from their personal contact person by PASS Stanztechnik AG, the precise setting data aligned with the machine to be fitted.

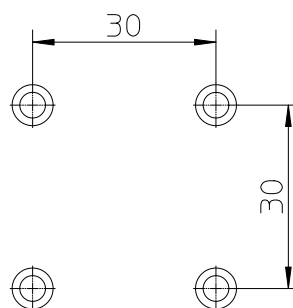
Innovation, know-how and highly modern machinery are, besides the professional and motivated team, the guarantee for the success of our products. PASS Stanztechnik AG makes every effort to achieve the optimum for its customers. Numerous patents in over 60 countries speak for themselves.

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EXTRUSION TOOL



please inform if smaller distances are required!



TOOL COMPLETE	PART-NO.:	910100.
thread upform	Add. part-no.:	Y.
thread downform	Add. part-no.:	Z.
thread-forming	Add. part-no.:	0F.
thread-cutting	Add. part-no.:	0S.
M2,5	Add. part-no.:	025.
M3	Add. part-no.:	030.
M4	Add. part-no.:	040.
M5	Add. part-no.:	050.
M6	Add. part-no.:	060.
M8	Add. part-no.:	080.
s = 0,8	Add. part-no.:	08.
s = 1,0	Add. part-no.:	10.
s = 1,5	Add. part-no.:	15.
s = 2,0	Add. part-no.:	20.
s = 2,5	Add. part-no.:	25.
s = 3,0	Add. part-no.:	30.
Mild Steel	Add. part-no.:	ST
Aluminium	Add. part-no.:	AL
Stainless Steel	Add. part-no.:	VA
TOOL EXAMPLE:	PART-NO.:	910100. Y. 0F. 040. 10. ST

tool complete

upform

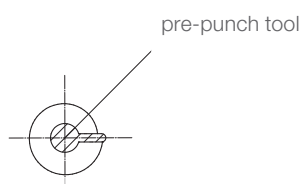
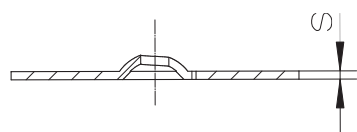
thread
cutting

M4

s = 1,0

Mild Steel

THREAD FORMING TOOL



THREAD FORMING TOOL	PART-NO.:	911200.
PRE-PUNCH TOOL CPL.	PART-NO.:	9112A0.
Thread Forming - upform	Add. part-no.:	Y.
Thread Forming - downform	Add. part-no.:	Z.
thread-size 3,5	Add. part-no.:	035.
thread-size 3,9	Add. part-no.:	039.
thread-size 4,2	Add. part-no.:	042.
thread-size 4,8	Add. part-no.:	048.
thread-size 5,5	Add. part-no.:	055.
thread-size 6,3	Add. part-no.:	063.
s = 0,5	Add. part-no.:	05.
s = 0,8	Add. part-no.:	08.
s = 1,0	Add. part-no.:	10.
s = 1,2	Add. part-no.:	12.
s = 1,5	Add. part-no.:	15.
Mild Steel	Add. part-no.:	ST
Aluminium	Add. part-no.:	AL
Stainless Steel	Add. part-no.:	VA
TOOL EXAMPLE:	PART-NO.:	911200. Y. 042. 08. ST

Thread Forming
Tool

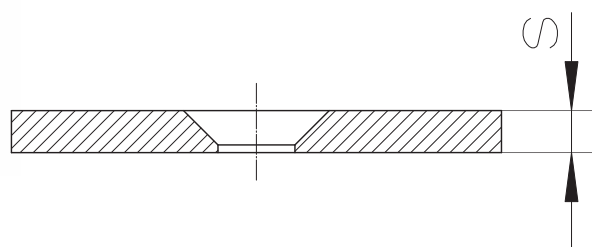
upform

sheet
screw 4,2

s = 0,8

Mild Steel

COUNTER SINK TOOL



TOOL COMPLETE	PART-NO.:	910900.
shape from bottom	Add. part-no.:	Y.
shape from above	Add. part-no.:	Z.
AM-shape	Add. part-no.:	AM.
BM-shape	Add. part-no.:	BM.
M2,5	Add. part-no.:	025.
M3	Add. part-no.:	030.
M4	Add. part-no.:	040.
M5	Add. part-no.:	050.
M6	Add. part-no.:	060.
M8	Add. part-no.:	080.
s = 0,8	Add. part-no.:	08.
s = 1,0	Add. part-no.:	10.
s = 1,5	Add. part-no.:	15.
s = 2,0	Add. part-no.:	20.
s = 2,5	Add. part-no.:	25.
s = 3,0	Add. part-no.:	30.
s = 4,0	Add. part-no.:	40.
Mild Steel	Add. part-no.:	ST
Aluminium	Add. part-no.:	AL
Stainless Steel	Add. part-no.:	VA
TOOL EXAMPLE:	PART-NO.:	910900. Y. AM. 050. 40. AL

tool complete

from bottom

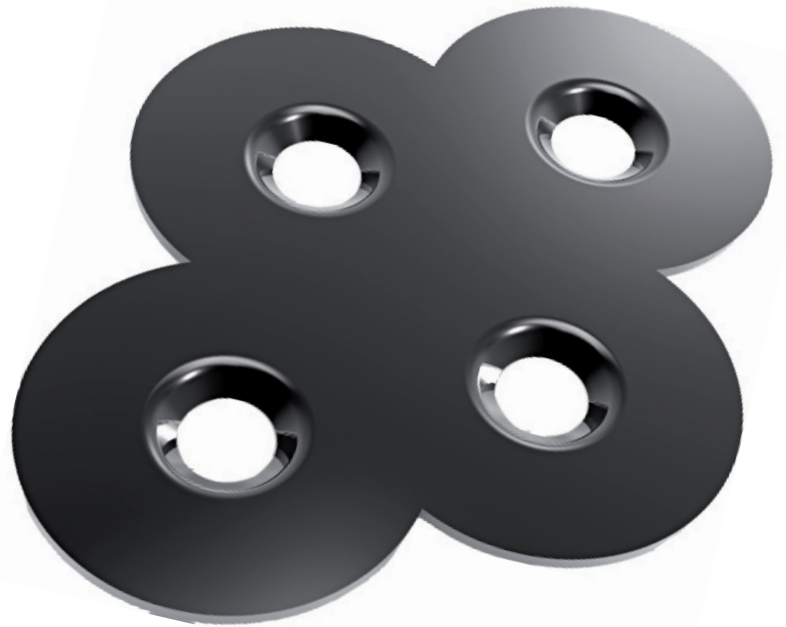
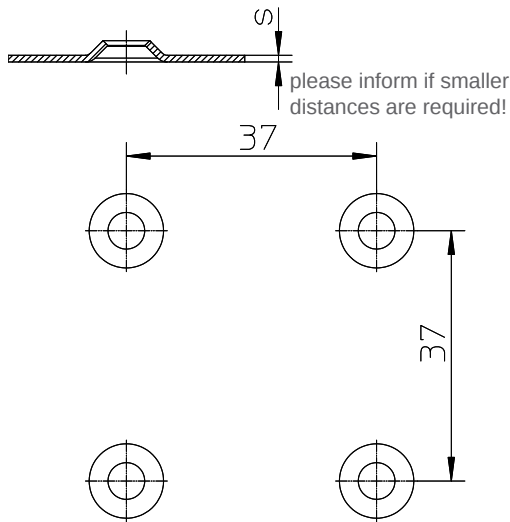
AM-
shape

M5

s = 4,0

Aluminium

EMBOSS COUNTER SINK TOOL



TOOL COMPLETE	PART-NO.:	911700.
Emboss - upform	Add. part-no.:	Y.
Emboss - downform	Add. part-no.:	Z.
M2,5	Add. part-no.:	025.
M3	Add. part-no.:	030.
M4	Add. part-no.:	040.
M5	Add. part-no.:	050.
M6	Add. part-no.:	060.
M8	Add. part-no.:	080.
M10	Add. part-no.:	100.
s = 0,8	Add. part-no.:	08.
s = 1,0	Add. part-no.:	10.
s = 1,5	Add. part-no.:	15.
s = 2,0	Add. part-no.:	20.
s = 2,5	Add. part-no.:	25.
s = 3,0	Add. part-no.:	30.
Mild Steel	Add. part-no.:	ST
Aluminium	Add. part-no.:	AL
Stainless Steel	Add. part-no.:	VA
TOOL EXAMPLE:	PART-NO.:	911700. Y. 030. 20. ST

tool complete

upform

M3

s = 2

Steel

LOUVER TOOL

for $s = 0,8 - 2,5 \text{ mm}$



Louver shape „A“



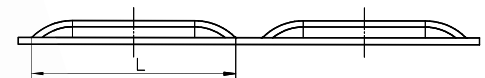
Louver shape „B“



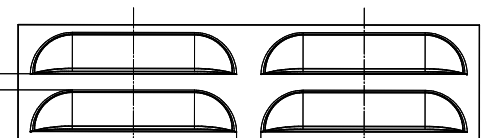
$s = 0,8 - 2,5 \text{ mm}$

B

H



mind.5mm



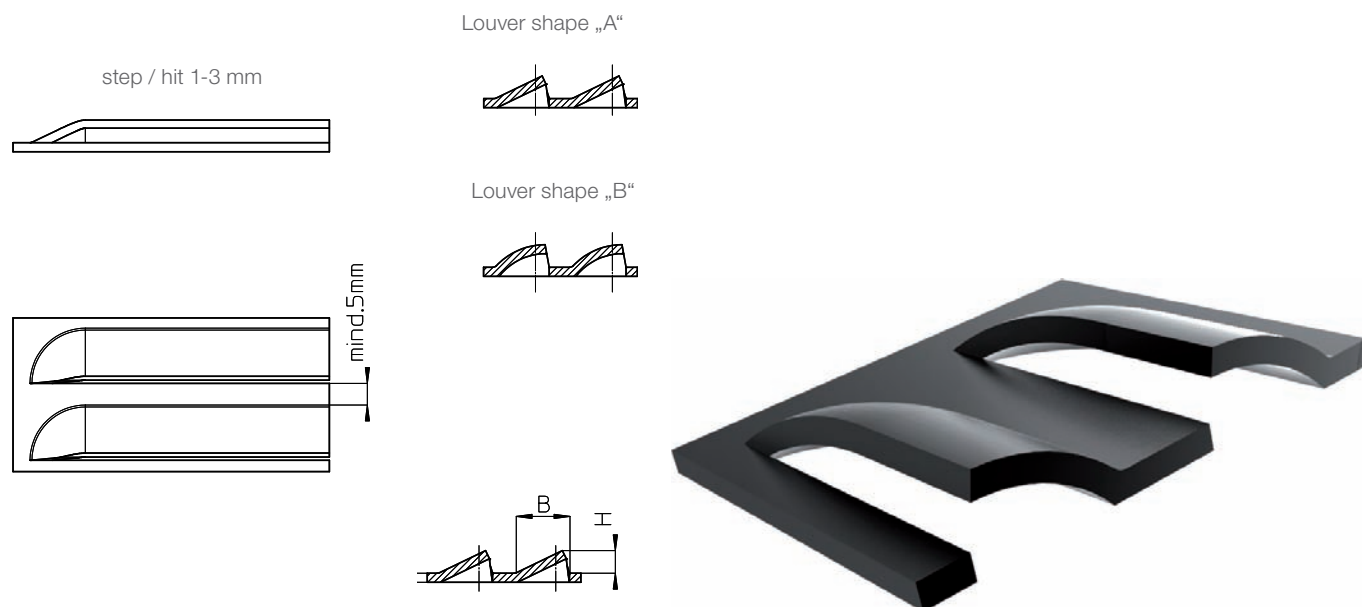
mind.8mm

TOOL COMPLETE	PART-NO.:	912200.
Emboss - upform	Add. part-no.:	Y.
Emboss - downform	Add. part-no.:	Z.
Louver shape "A"	Add. part-no.:	A.
Louver shape "B"	Add. part-no.:	B.
B = 8 / H = 3	Add. part-no.:	083.
B = 10 / H = 4	Add. part-no.:	104.
B = 12 / H = 5	Add. part-no.:	125.
B = 15 / H = 6	Add. part-no.:	156.
L = 40	Add. part-no.:	40.
L = 50	Add. part-no.:	50.
L = 60	Add. part-no.:	60.
Mild Steel	Add. part-no.:	ST
Aluminium	Add. part-no.:	AL
Stainless Steel	Add. part-no.:	VA
TOOL EXAMPLE:	PART-NO.:	912200. Y. A. 125. 60. ST

tool complete
 upform
 Louver shape
 "A"
 B = 12 / H = 5
 L = 60
 Mild Steel

COUNTINUOUS LOUVER TOOL

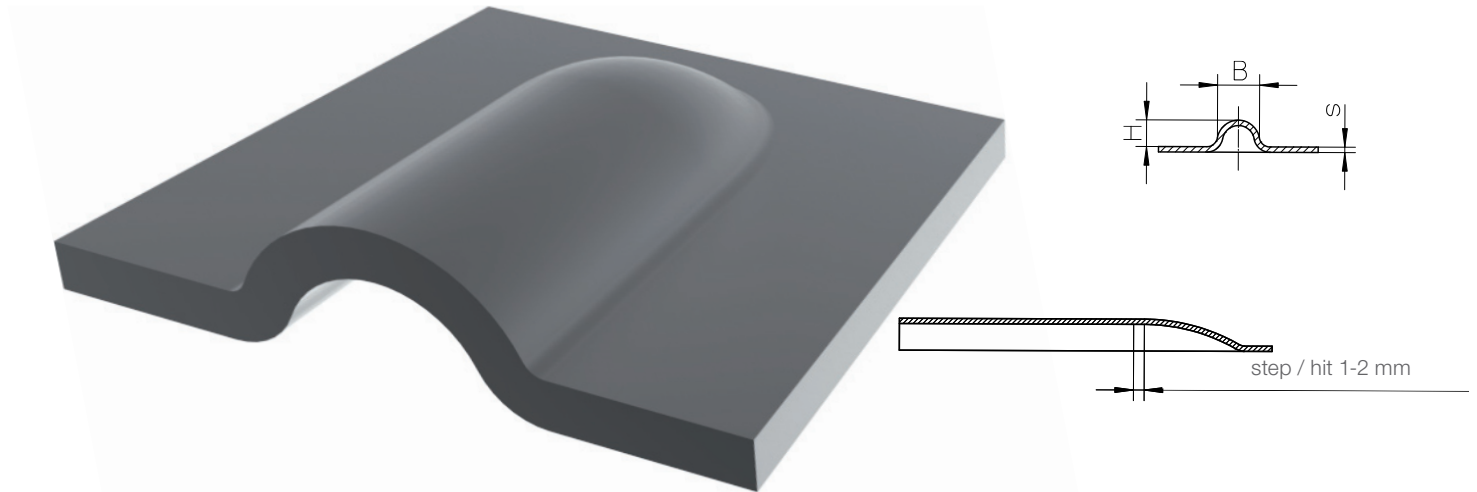
for s = 0,8 - 2,5 mm



TOOL COMPLETE	PART-NO.:	912400.				
Emboss - upform	Add. part-no.:	Y.				
Emboss - downform	Add. part-no.:	Z.				
Louver shape "A"	Add. part-no.:	A.				
Louver shape "B"	Add. part-no.:	B.				
B = 8 / H = 3	Add. part-no.:	083.				
B = 10 / H = 4	Add. part-no.:	104.				
B = 12 / H = 5	Add. part-no.:	125.				
Mild Steel	Add. part-no.:	ST				
Aluminium	Add. part-no.:	AL				
Stainless Steel	Add. part-no.:	VA				
TOOL EXAMPLE:	PART-NO.:	912400.	Y.	A.	125.	ST

tool complete
 upform
 Louver shape
 "A"
 B = 12 / H = 5
 Mild Steel

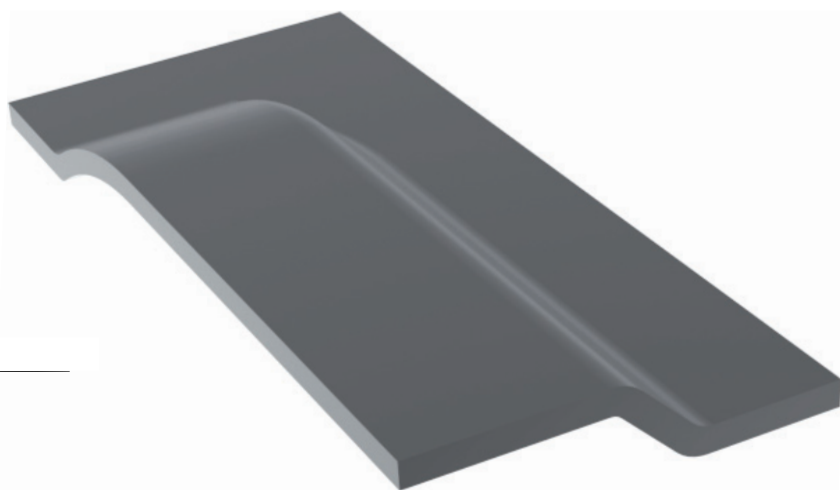
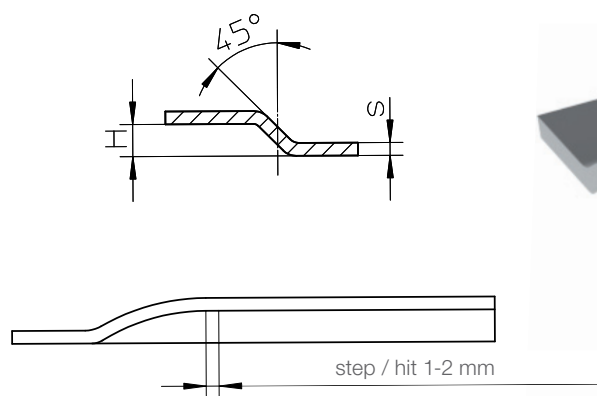
CONTINUOUS BEADING TOOL



TOOL COMPLETE	PART-NO.:	912600.
Emboss - upform	Add. part-no.:	Y.
Emboss - downform	Add. part-no.:	Z.
B = 4 / H = 2	Add. part-no.:	042.
B = 6 / H = 3	Add. part-no.:	063.
B = 8 / H = 4	Add. part-no.:	084.
B = 10 / H = 5	Add. part-no.:	105.
s = 0,8	Add. part-no.:	08.
s = 1,0	Add. part-no.:	10.
s = 1,5	Add. part-no.:	15.
s = 2,0	Add. part-no.:	20.
s = 2,5	Add. part-no.:	25.
s = 3,0	Add. part-no.:	30.
Mild Steel	Add. part-no.:	ST
Aluminium	Add. part-no.:	AL
Stainless Steel	Add. part-no.:	VA
TOOL EXAMPLE:	PART-NO.:	912600. Y. 105. 10. VA

tool complete
 upform
 B = 10 / H = 5
 s = 1,0
 Mild Steel

CONTINUOUS OFFSET TOOL



TOOL COMPLETE	PART-NO.:	912800.
H = 1,0	Add. part-no.:	010.
H = 1,5	Add. part-no.:	015.
H = 2,0	Add. part-no.:	020.
H = 2,5	Add. part-no.:	025.
H = 3,0	Add. part-no.:	030.
H = 4,0	Add. part-no.:	040.
H = 5,0	Add. part-no.:	050.
s = 0,8	Add. part-no.:	08.
s = 1,0	Add. part-no.:	10.
s = 1,5	Add. part-no.:	15.
s = 2,0	Add. part-no.:	20.
s = 2,5	Add. part-no.:	25.
s = 3,0	Add. part-no.:	30.
Mild Steel	Add. part-no.:	ST
Aluminium	Add. part-no.:	AL
Stainless Steel	Add. part-no.:	VA
TOOL EXAMPLE:	PART-NO.:	912800. 030. 15. AL

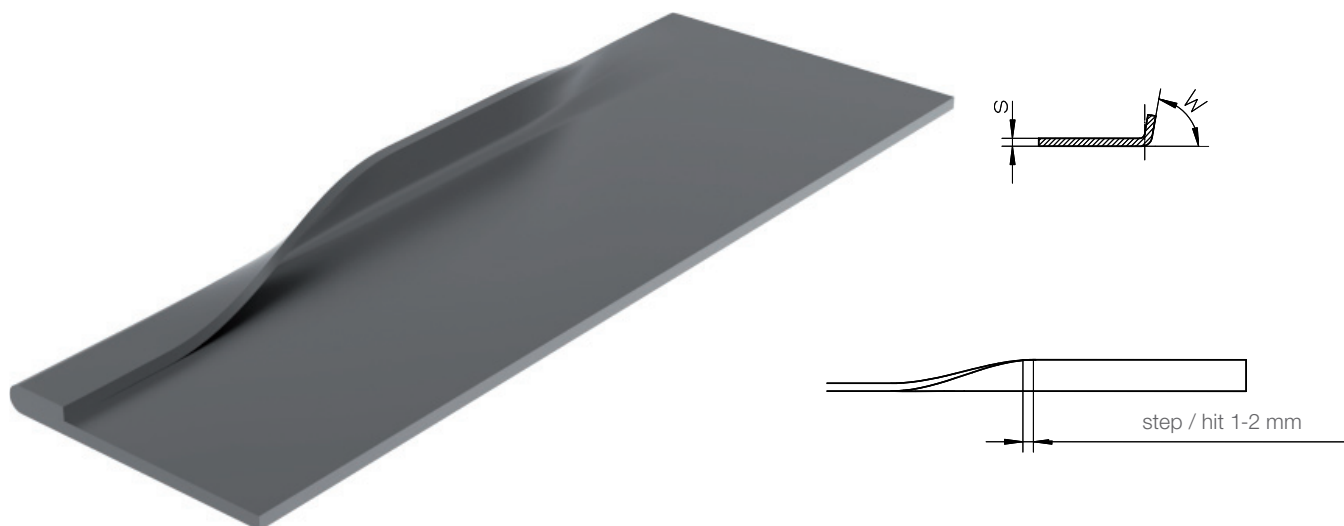
tool complete

H = 3,0

s = 1,5

Aluminium

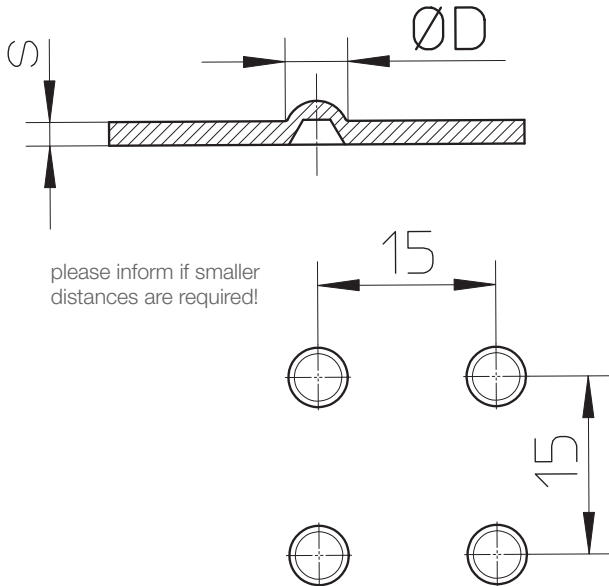
CONTINUOUS BENDING TOOL



TOOL COMPLETE	PART-NO.:	912900.
Emboss - upform	Add. part-no.:	Y.
W = 30°	Add. part-no.:	030.
W = 45°	Add. part-no.:	045.
W = 60°	Add. part-no.:	060.
W = 80°	Add. part-no.:	080.
s = 0,8	Add. part-no.:	08.
s = 1,0	Add. part-no.:	10.
s = 1,5	Add. part-no.:	15.
s = 2,0	Add. part-no.:	20.
Mild Steel	Add. part-no.:	ST
Aluminium	Add. part-no.:	AL
Stainless Steel	Add. part-no.:	VA
TOOL EXAMPLE:	PART-NO.:	912900. Y. 060. 10. ST

tool complete
 upform
 angle = 60°
 s = 1,0
 Mild Steel

DIMPLE TOOL



TOOL COMPLETE	PART-NO.:	911300.
Emboss upform	Add. part-no.:	Y.
Emboss downform	Add. part-no.:	Z.
D = 1,6	Add. part-no.:	016.
D = 2,0	Add. part-no.:	020.
D = 2,5	Add. part-no.:	025.
D = 3,0	Add. part-no.:	030.
D = 3,2	Add. part-no.:	032.
D = 4,0	Add. part-no.:	040.
D = 5,0	Add. part-no.:	050.
D = 5,6	Add. part-no.:	056.
D = 6,0	Add. part-no.:	060.
s = 0,63	Add. part-no.:	063.
s = 0,8	Add. part-no.:	080.
s = 1,0	Add. part-no.:	100.
s = 1,5	Add. part-no.:	150.
s = 2,0	Add. part-no.:	200.
s = 2,5	Add. part-no.:	250.
s = 3,0	Add. part-no.:	300.
Stahlblech	Add. part-no.:	ST
Aluminium	Add. part-no.:	AL
Edelstahl (VA-Blech)	Add. part-no.:	VA
TOOL EXAMPLE:	PART-NO.:	911300. Y. 040. 200. VA

tool complete

upform

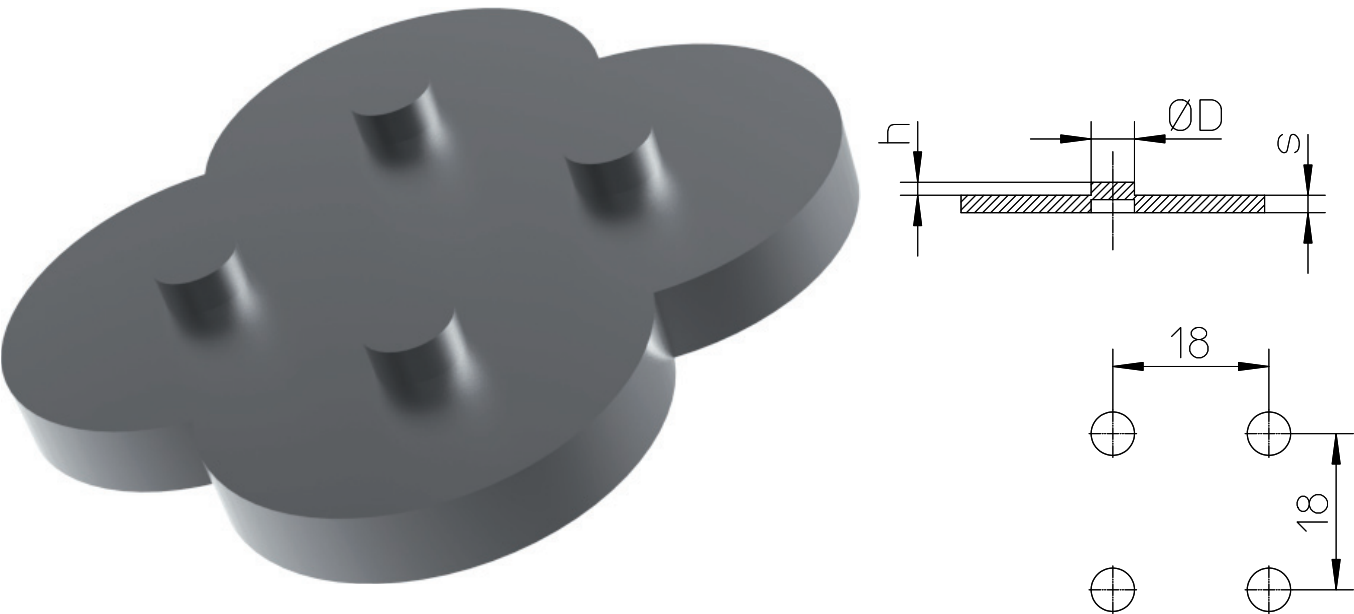
D = 4,0

s = 2,0

Stainless Steel

HALF SHEAR TOOL

for s = 0,8 - 2,5 mm / h = 60% of s



TOOL COMPLETE	PART-NO.:	911500.
Emboss - upform	Add. part-no.:	Y.
Emboss - downform	Add. part-no.:	Z.
D = 2,0	Add. part-no.:	020.
D = 3,0	Add. part-no.:	030.
D = 4,0	Add. part-no.:	040.
D = 5,0	Add. part-no.:	050.
D = 6,0	Add. part-no.:	060.
Mild Steel	Add. part-no.:	ST
Aluminium	Add. part-no.:	AL
Stainless Steel	Add. part-no.:	VA
TOOL EXAMPLE:	PART-NO.:	911500. Y. 020. ST

tool complete

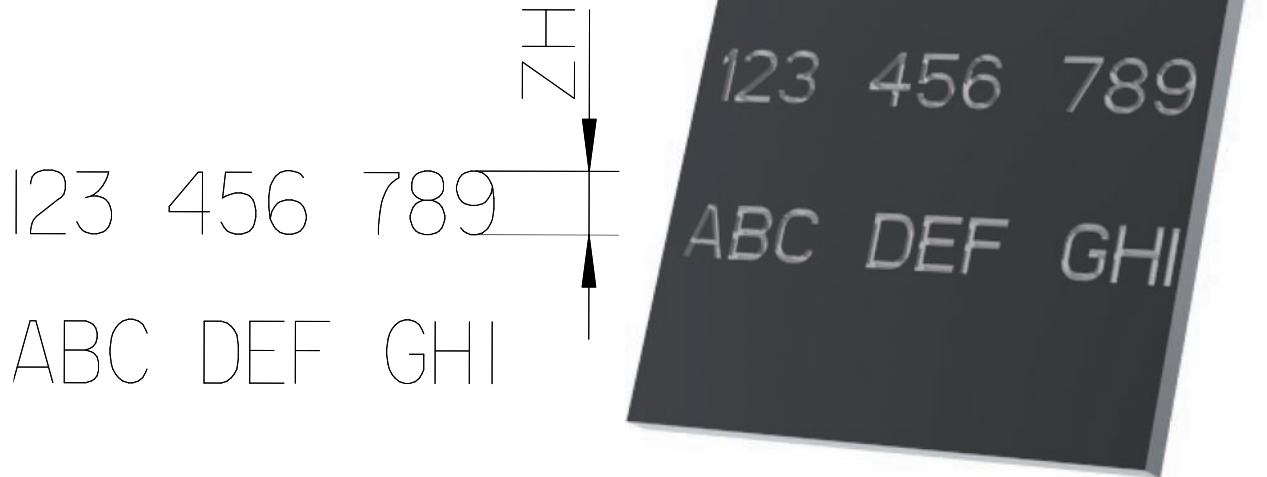
upform

D = 2,0

Mild Steel

LETTER MARKING TOOL

(V-Line)



TOOL 1-LINE	PART-NO.:	910700.
TOOL 2-LINE	PART-NO.:	910750.
Emboss - upform	Add. part-no.:	Y.
Emboss - downform	Add. part-no.:	Z.
letter height 3 mm (15 pc in row)	Add. part-no.:	030.
letter height 4 mm (12 pc in row)	Add. part-no.:	040.
letter height 5 mm (10 pc in row)	Add. part-no.:	050.
s = 1,0 - 4,0	Add. part-no.:	04.
s = 4,1 - 8,0	Add. part-no.:	08.
TOOL EXAMPLE:	PART-NO.:	910700. Y. 040. 04.

tool complete

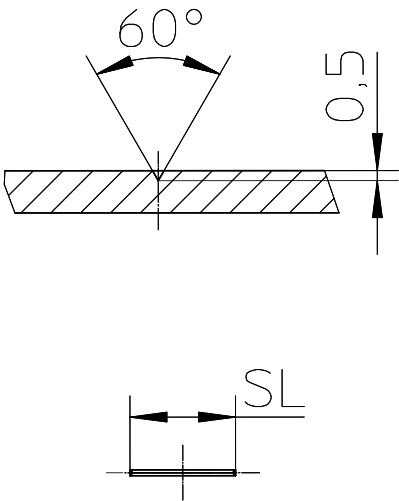
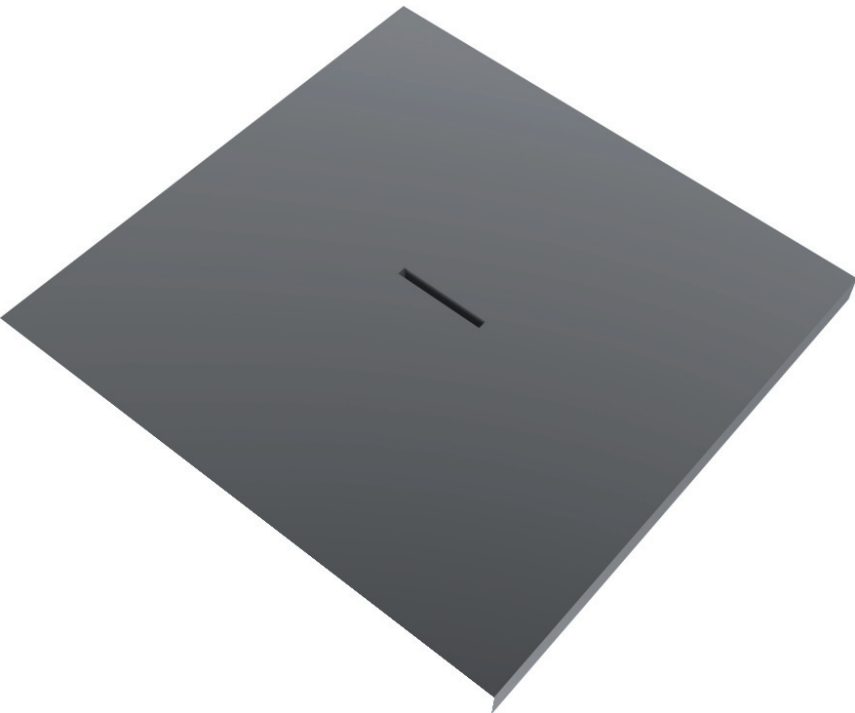
upform

letter height = 4

s = 1,0 bis 4,0

LINE MARKING TOOL

(V-Line)



TOOL COMPLETE	PART-NO.:	910300.
Emboss - upform	Add. part-no.:	Y.
Emboss - downform	Add. part-no.:	Z.
line length 3 mm	Add. part-no.:	03.
line length 4 mm	Add. part-no.:	04.
line length 5 mm	Add. part-no.:	05.
line length 6 mm	Add. part-no.:	06.
line length 8 mm	Add. part-no.:	08.
line length 10 mm	Add. part-no.:	10.
s = 1,0 - 4,0	Add. part-no.:	04.
s = 4,1 - 8,0	Add. part-no.:	08.
Mild Steel	Add. part-no.:	ST
Aluminium	Add. part-no.:	AL
Stainless Steel	Add. part-no.:	VA
TOOL EXAMPLE:	PART-NO.:	910300. Y. 04. 04.

tool complete

upform

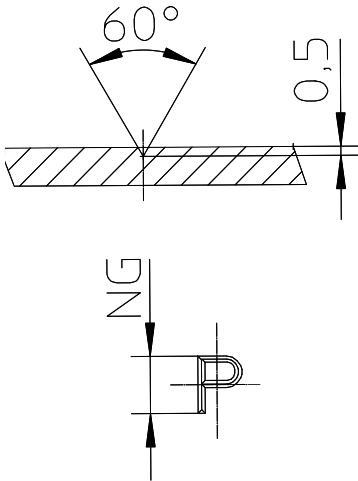
line length 4 mm

s = 1,0 - 4,0 mm

(all sheet versions)

LETTER MARKING TOOL

(V-Line)



TOOL COMPLETE	PART-NO.:	910400.
Emboss - upform	Add. part-no.:	Y.
Emboss - downform	Add. part-no.:	Z.
size NG 3 mm	Add. part-no.:	03.
size NG 4 mm	Add. part-no.:	04.
size NG 5 mm	Add. part-no.:	05.
size NG 6 mm	Add. part-no.:	06.
size NG 8 mm	Add. part-no.:	08.
size NG 10 mm	Add. part-no.:	10.
s = 1,0 - 4,0	Add. part-no.:	04.
s = 4,1 - 8,0	Add. part-no.:	08.
Mild Steel	Add. part-no.:	ST
Aluminium	Add. part-no.:	AL
Stainless Steel	Add. part-no.:	VA
BESTELLBEISPIEL:	PART-NO.:	910400. Y. 04. 04.

tool complete

upform

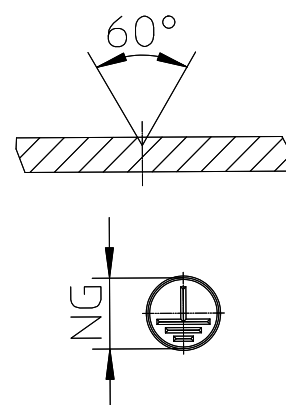
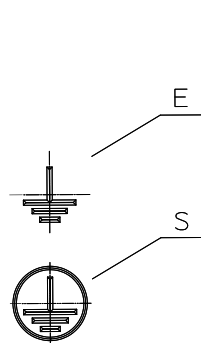
size NG 4 mm

s = 1,0 - 4,0 mm

(all sheet versions)

GROUND SYMBOL MARKING TOOL

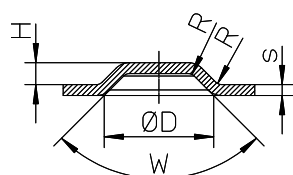
(V-Line)



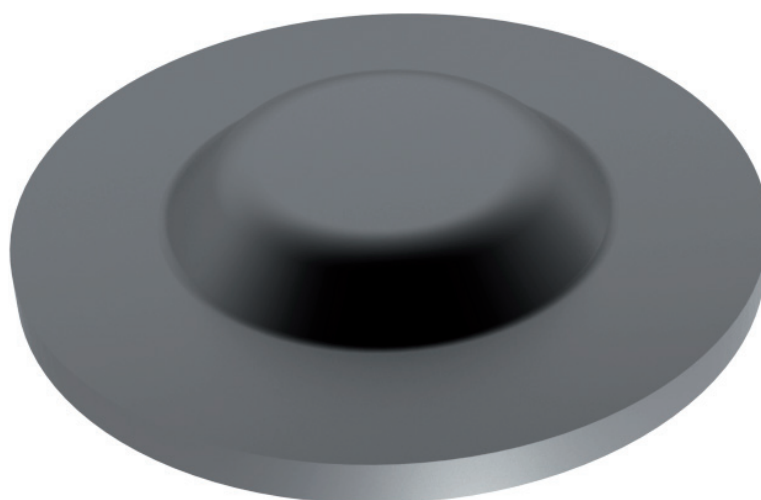
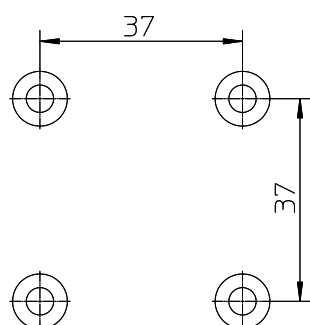
TOOL COMPLETE	PART-NO.:	910500.
Emboss - upform	Add. part-no.:	Y.
Emboss - downform	Add. part-no.:	Z.
ground symbol „E“	Add. part-no.:	E.
ground symbol „S“	Add. part-no.:	S.
size NG 4 mm	Add. part-no.:	04.
size NG 5 mm	Add. part-no.:	05.
size NG 6 mm	Add. part-no.:	06.
size NG 8 mm	Add. part-no.:	08.
size NG 10 mm	Add. part-no.:	10.
size NG 12 mm	Add. part-no.:	12.
s = 1,0 - 4,0	Add. part-no.:	04.
s = 4,1 - 8,0	Add. part-no.:	08.
Mild Steel	Add. part-no.:	ST
Aluminium	Add. part-no.:	AL
Stainless Steel	Add. part-no.:	VA
TOOL EXAMPLE:	PART-NO.:	910500. Y. E. 08. 04.

tool complete
 upform
 ground symbol
 „E“
 size NG 8
 s = 1,0 - 4,0
 (all sheet
 versions)

ROUND EMBOSS TOOL



please inform if smaller distances are required!



TOOL COMPLETE	PART-NO.:	911900.
Emboss - upform	Add. part-no.:	Y.
Emboss - downform	Add. part-no.:	Z.
D = 12	Add. part-no.:	12.
D = 20	Add. part-no.:	20.
D = 30	Add. part-no.:	30.
H = 2,0	Add. part-no.:	020.
H = 3,0	Add. part-no.:	030.
H = 4,0	Add. part-no.:	040.
H = 5,0	Add. part-no.:	050.
s = 0,8	Add. part-no.:	08.
s = 1,0	Add. part-no.:	10.
s = 1,5	Add. part-no.:	15.
s = 2,0	Add. part-no.:	20.
s = 2,5	Add. part-no.:	25.
s = 3,0	Add. part-no.:	30.
w = 60°	Add. part-no.:	060.
w = 90°	Add. part-no.:	090.
w = 120°	Add. part-no.:	120.
Mild Steel	Add. part-no.:	ST
Aluminium	Add. part-no.:	AL
Stainless Steel	Add. part-no.:	VA
TOOL EXAMPLE:	PART-NO.:	911900. Y. 20. 020. 10. 090. VA

tool complete

upform

D = 20

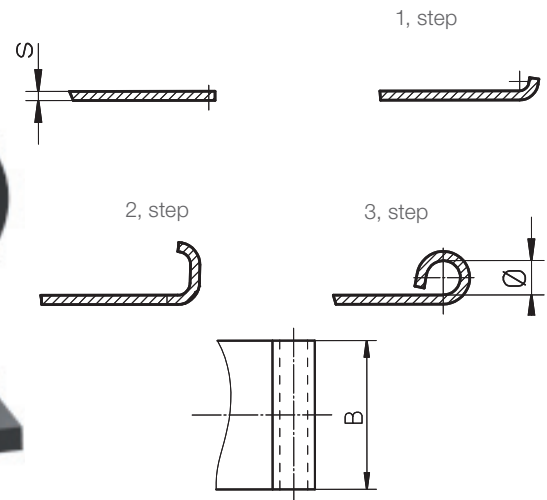
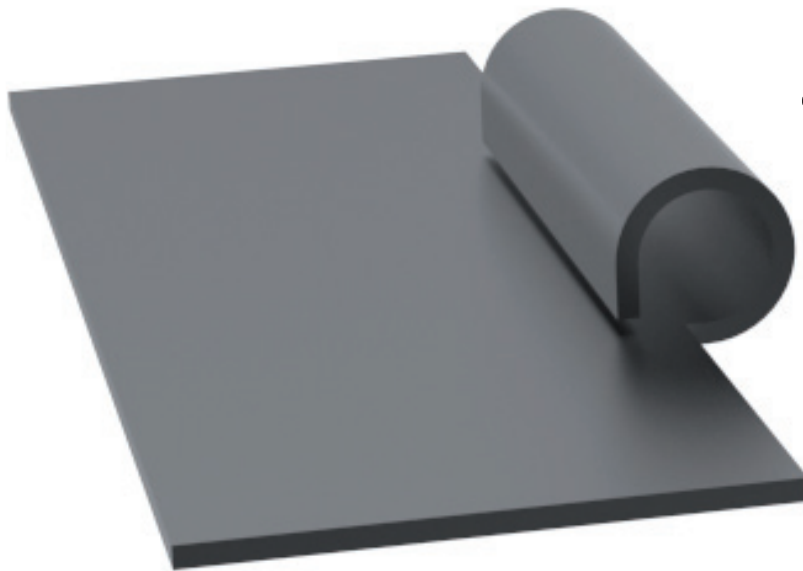
H = 2,0

s = 1,0

angle = 90°

Stainless Steel

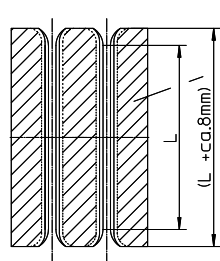
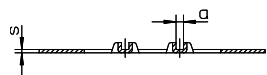
HINGE TOOL SET



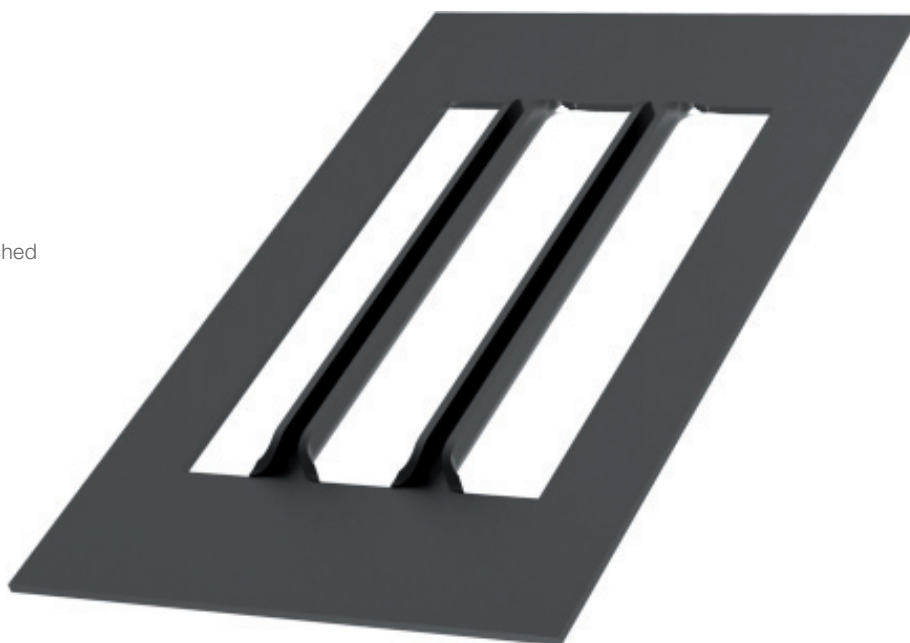
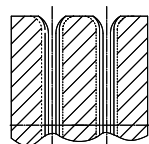
TOOL SET COMPLETE	PART-NO.:	913000.
Emboss - upform		Y.
Hinge diameter Ø 3,1	Add. part-no.:	030. (for pin Ø 3,0)
Hinge diameter Ø 4,1	Add. part-no.:	040. (for pin Ø 4,0)
Hinge diameter Ø 4,6	Add. part-no.:	045. (for pin Ø 4,5)
Hinge diameter Ø 5,1	Add. part-no.:	050. (for pin Ø 5,0)
Hinge diameter Ø 5,6	Add. part-no.:	055. (for pin Ø 5,5)
Hinge diameter Ø 6,1	Add. part-no.:	060. (for pin Ø 6,0)
Hinge length 20,0	Add. part-no.:	20.
Hinge length 30,0	Add. part-no.:	30.
Hinge length 40,0	Add. part-no.:	40.
s = 0,5	Add. part-no.:	05.
s = 0,8	Add. part-no.:	08.
s = 1,0	Add. part-no.:	10.
s = 1,2	Add. part-no.:	12.
s = 1,5	Add. part-no.:	15.
Mild Steel	Add. part-no.:	ST
Aluminium	Add. part-no.:	AL
Stainless Steel	Add. part-no.:	VA
TOOL EXAMPLE:	PART-NO.:	913000. Y. 050. 30. 10. ST

tool set
complete
 upform
 hinge
for pin Ø 5,1
 hinge
length = 30
 s = 1,0
 Mild Steel

CARD GUIDE TOOL



pre-punched



TOOL COMPLETE	PART-NO.:	913100.
Emboss - upform	Add. part-no.:	Y
guide width 2,1	Add. part-no.:	020.
guide width 2,6	Add. part-no.:	025.
guide width 3,1	Add. part-no.:	030.
guide width 3,6	Add. part-no.:	035.
guide width 4,1	Add. part-no.:	040.
guide width 5,1	Add. part-no.:	050.
guide length = 30,0	Add. part-no.:	30.
guide length = 40,0	Add. part-no.:	40.
guide length = 50,0	Add. part-no.:	50.
s=0,5	Add. part-no.:	05.
s=0,8	Add. part-no.:	08.
s=1,0	Add. part-no.:	10.
s=1,2	Add. part-no.:	12.
s=1,5	Add. part-no.:	15.
Mild Steel	Add. part-no.:	ST
Aluminium	Add. part-no.:	AL
Stainless Steel	Add. part-no.:	VA
TOOL EXAMPLE:	PART-NO.:	913100. Y. 030. 40. 10. ST

tool complete

upform

guide width 3,0

guide length
= 40

s = 1,0

Mild Steel

NOTES



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