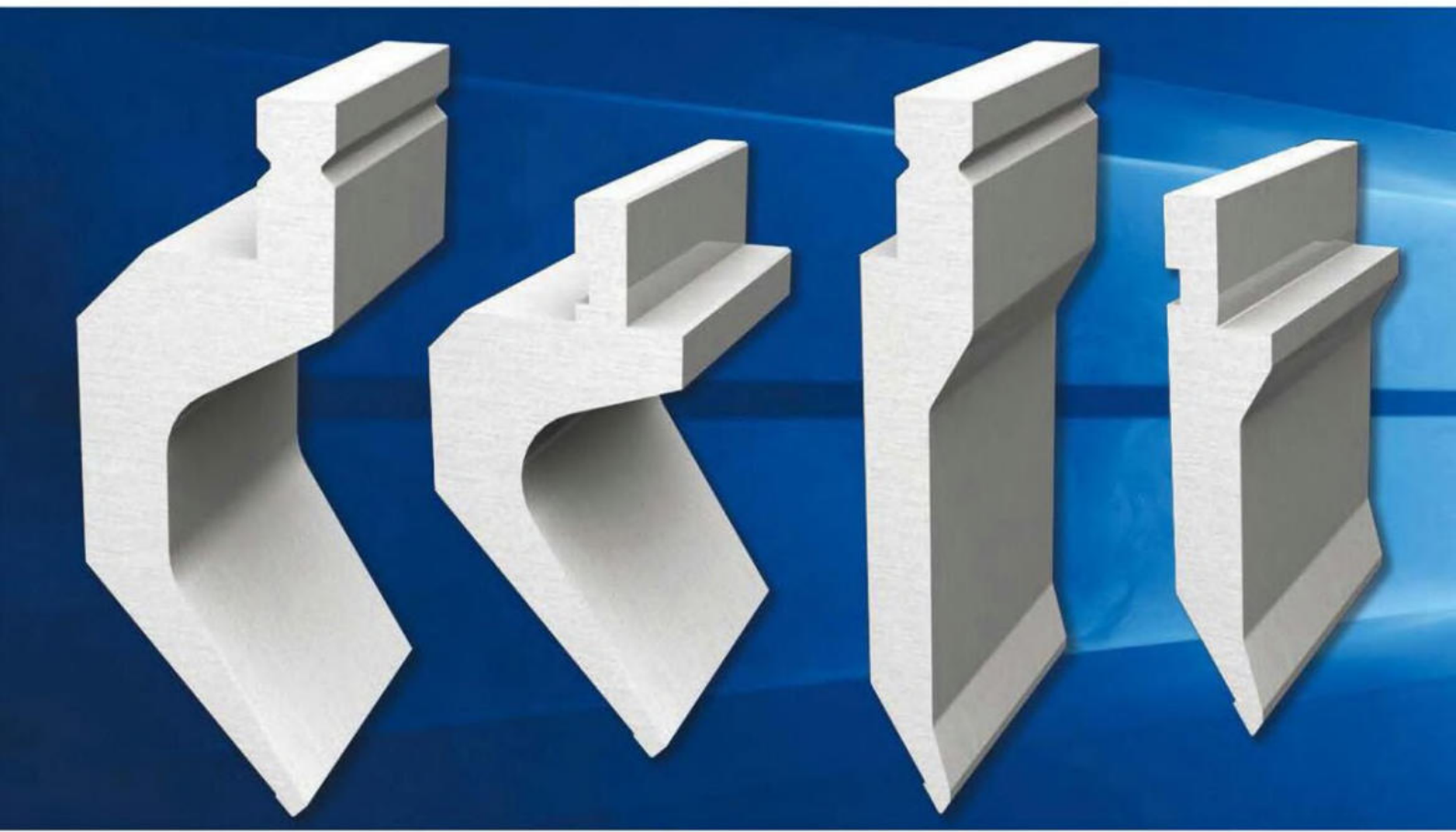


Press Brake & Shears Toolings



PREF[®]

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Colgar type pag.16

USC

Trumpf Wila type pag.17

UST

Beyeler Bystronic type pag.21

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LOWER TOOLS

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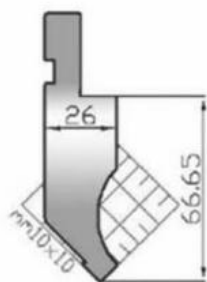
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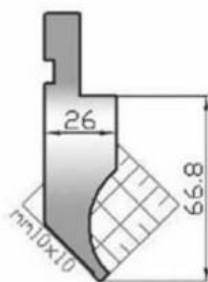
fixtures pag.44



max 1000 kN/mt

US 110/90° R0,8

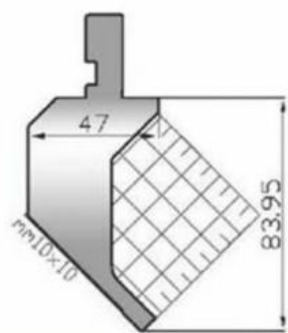
altezza-height 66,65 mm
angolo-degree 90° raggio-radius 0,8 mm
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



max 350 kN/mt

US 126/90° R0,6

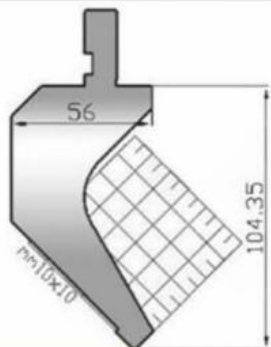
altezza-height 66,80 mm
angolo-degree 90° raggio-radius 0,6 mm
42CrMo4 rettificato-grinding
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lunghezze-lengths 835 mm - 415 mm - fraz



max 300 kN/mt

US 117/90° R0,6

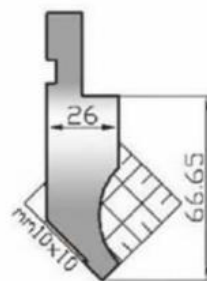
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angolo-degree 90° raggio-radius 0,6 mm
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lunghezze-lengths 835 mm - 415 mm - fraz



max 500 kN/mt

US 115/90° R0,8

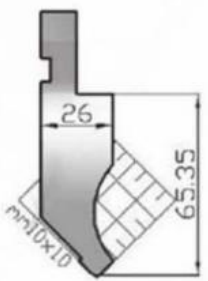
altezza-height 104,35 mm
angolo-degree 90° raggio-radius 0,8 mm
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



max 1000 kN/mt

US 110/88° R0,8

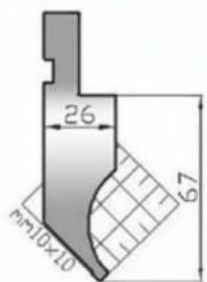
altezza-height 66,65 mm
angolo-degree 88° raggio-radius 0,8 mm
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temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



max 1000 kN/mt

US 110/88° R3,0

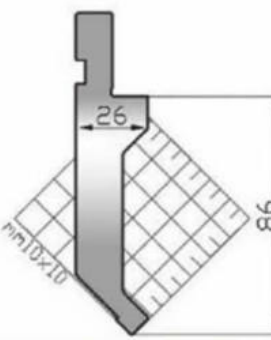
altezza-height 65,35 mm
angolo-degree 88° raggio-radius 3,0 mm
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



max 350 kN/mt

US 126/88° R0,6

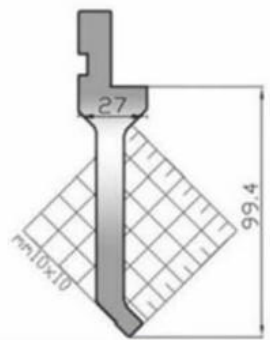
altezza-height 67,00 mm
angolo-degree 88° raggio-radius 0,6 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



max 500 kN/mt

US 125/88° R0,8

altezza-height 86,00 mm
angolo-degree 88° raggio-radius 0,8 mm
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



max 500 kN/mt

US 143/88° R0,6

altezza-height 99,40 mm
angolo-degree 88° raggio-radius 0,6 mm
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



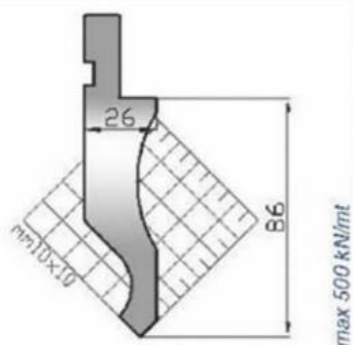
90°



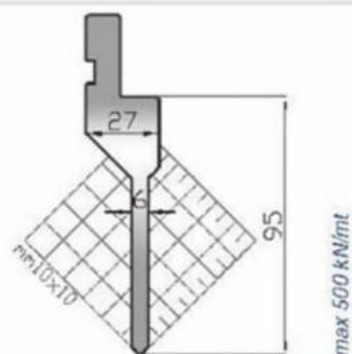
88°

88°

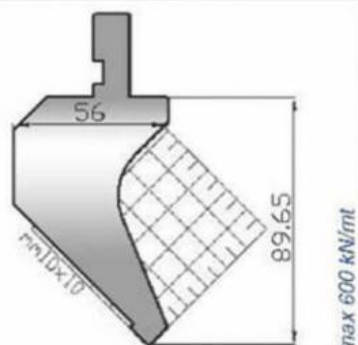
Europa type

**US 120/88° R0,8**

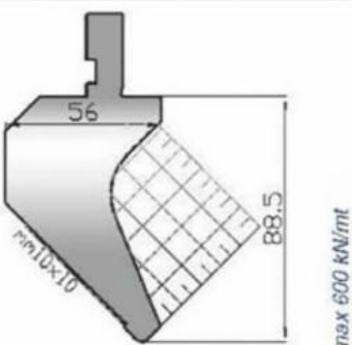
altezza-height 86,00 mm
 angolo-degree 88° raggio-radius 0,8 mm
 C45 rettificato-grinding
 temprato ind.-induction hardened HRC 52/58
 lunghezze-lengths 835 mm - 415 mm - fraz

**US 147/88° R0,25**

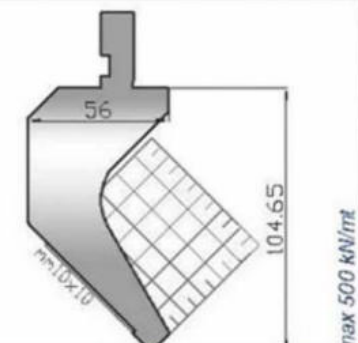
altezza-height 95,00 mm
 angolo-degree 88° raggio-radius 0,25 mm
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 temprato ind.-induction hardened HRC 52/58
 lunghezze-lengths 835 mm - 415 mm - fraz

**US 114/88° R0,8**

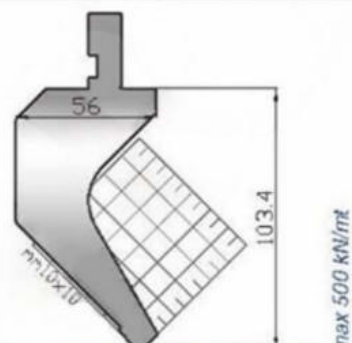
altezza-height 89,65 mm
 angolo-degree 88° raggio-radius 0,8 mm
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 lunghezze-lengths 835 mm - 415 mm - fraz

**US 114/88° R3,0**

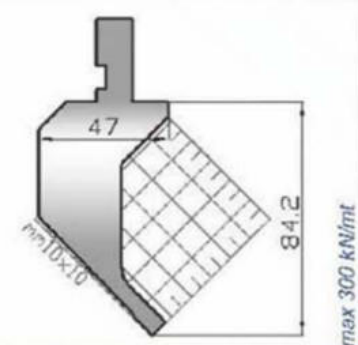
altezza-height 88,50 mm
 angolo-degree 88° raggio-radius 3,0 mm
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 temprato ind.-induction hardened HRC 52/58
 lunghezze-lengths 835 mm - 415 mm - fraz

**US 115/88° R0,8**

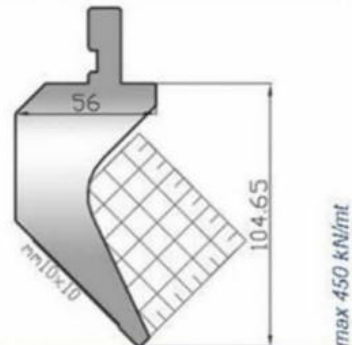
altezza-height 104,65 mm
 angolo-degree 88° raggio-radius 0,8 mm
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 lunghezze-lengths 835 mm - 415 mm - fraz

**US 115/88° R3,0**

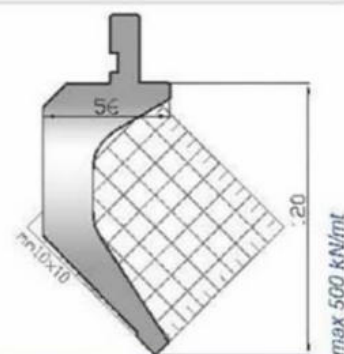
altezza-height 103,40 mm
 angolo-degree 88° raggio-radius 3,0 mm
 C45 rettificato-grinding
 temprato ind.-induction hardened HRC 52/58
 lunghezze-lengths 835 mm - 415 mm - fraz

**US 117/88° R0,6**

altezza-height 84,20 mm
 angolo-degree 88° raggio-radius 0,6 mm
 42CrMo4 rettificato-grinding
 temprato ind.-induction hardened HRC 52/58
 lunghezze-lengths 835 mm - 415 mm - fraz

**US 144/88° R0,8**

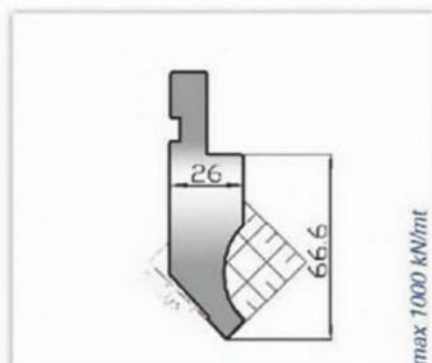
altezza-height 104,65 mm
 angolo-degree 88° raggio-radius 0,8 mm
 C45 rettificato-grinding
 temprato ind.-induction hardened HRC 52/58
 lunghezze-lengths 835 mm - 415 mm - fraz

**US 152/88° R0,8**

altezza-height 120,00 mm
 angolo-degree 88° raggio-radius 0,8 mm
 42CrMo4 rettificato-grinding
 temprato ind.-induction hardened HRC 52/58
 lunghezze-lengths 835 mm - 415 mm - fraz

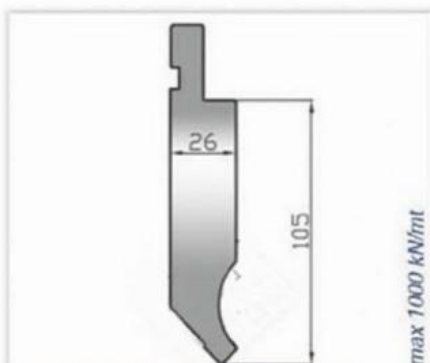
02

serie US
 upper tools

**US 110/85° R0,8**

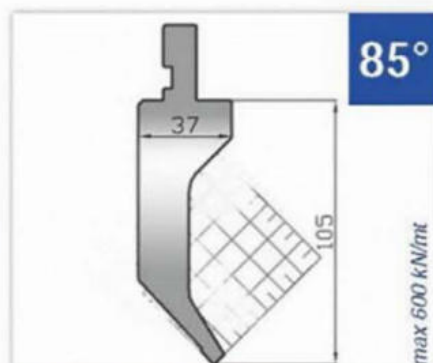
altezza-height 66,60 mm
 angolo-degree 85° raggio-radius 0,8 mm
 C45 rettificato-grinding
 temprato ind.-induction hardened HRC 52/58
 lunghezze-lengths 835 mm - 415 mm - fraz

max 1000 kN/mt

**US 110/85° R0,8 h105**

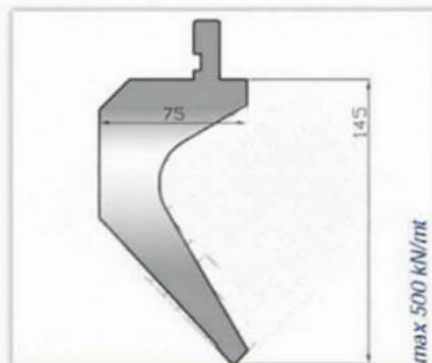
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 C45 rettificato-grinding
 temprato ind.-induction hardened HRC 52/58
 lunghezze-lengths 835 mm - 415 mm - fraz

max 1000 kN/mt

**US 142/85° R0,8**

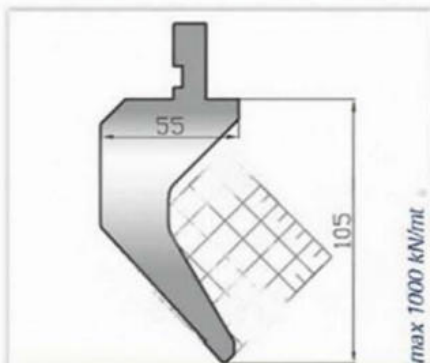
altezza-height 105,00 mm
 angolo-degree 85° raggio-radius 0,8 mm
 42CrMo4 rettificato-grinding
 temprato ind.-induction hardened HRC 52/58
 lunghezze-lengths 835 mm - 415 mm - fraz

max 600 kN/mt

**US 127/85° R0,8**

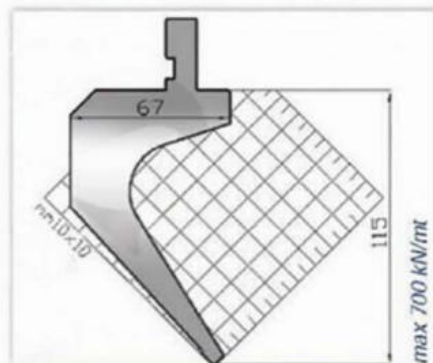
altezza-height 145,00 mm
 angolo-degree 85° raggio-radius 0,8 mm
 C45 rettificato-grinding
 temprato ind.-induction hardened HRC 52/58
 lunghezze-lengths 835 mm - 415 mm - fraz

max 500 kN/mt

**US 129/85° R0,8**

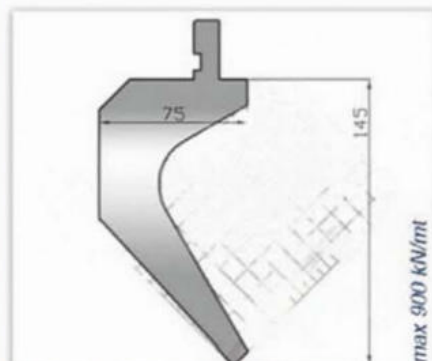
altezza-height 105,00 mm
 angolo-degree 85° raggio-radius 0,8 mm
 42CrMo4 rettificato-grinding
 temprato ind.-induction hardened HRC 52/58
 lunghezze-lengths 835 mm - 415 mm - fraz

max 1000 kN/mt

**US 141/85° R0,8**

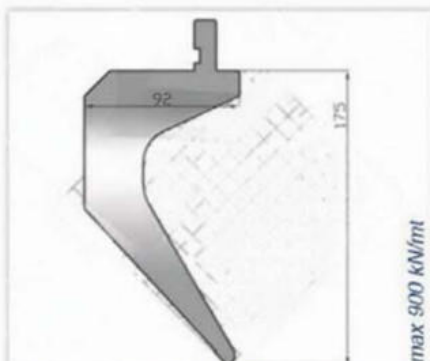
altezza-height 115,00 mm
 angolo-degree 85° raggio-radius 0,8 mm
 42CrMo4 rettificato-grinding
 temprato ind.-induction hardened HRC 52/58
 lunghezze-lengths 835 mm - 415 mm - fraz

max 700 kN/mt

**US 145/85° R2,0**

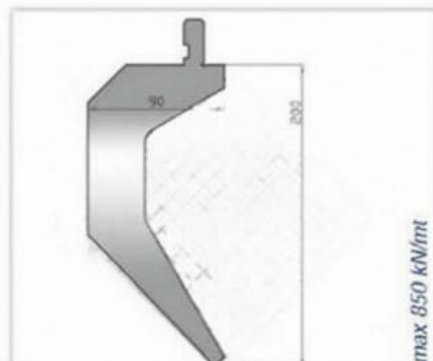
altezza-height 145,00 mm
 angolo-degree 85° raggio-radius 2,0 mm
 42CrMo4 rettificato-grinding
 temprato ind.-induction hardened HRC 52/58
 lunghezze-lengths 835 mm - 415 mm - fraz

max 900 kN/mt

**US 146/85° R1,25**

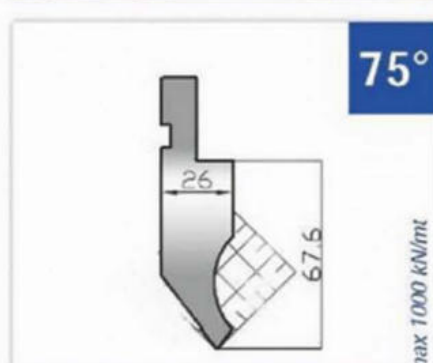
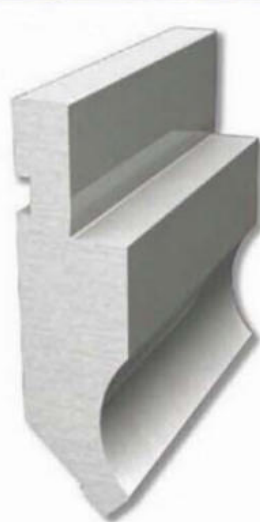
altezza-height 175,00 mm
 angolo-degree 85° raggio-radius 1,25 mm
 42CrMo4 rettificato-grinding
 temprato ind.-induction hardened HRC 52/58
 lunghezze-lengths 835 mm - 415 mm - fraz

max 900 kN/mt

**US 153/85° R0,8**

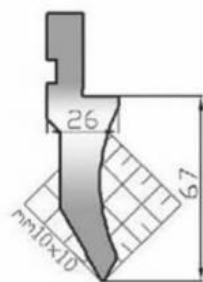
altezza-height 200,00 mm
 angolo-degree 85° raggio-radius 0,8 mm
 C45 rettificato-grinding
 temprato ind.-induction hardened HRC 52/58
 lunghezze-lengths 415 mm - fraz

max 850 kN/mt

**US 110/75° R0,8**

altezza-height 67,60 mm
 angolo-degree 75° raggio-radius 0,8 mm
 42CrMo4 rettificato-grinding
 temprato ind.-induction hardened HRC 52/58
 lunghezze-lengths 835 mm - 415 mm - fraz

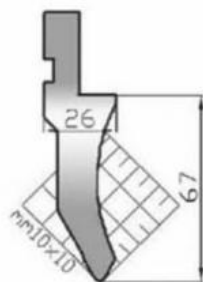
max 1000 kN/mt



max 800 kN/mt

US 124/60° R0,8

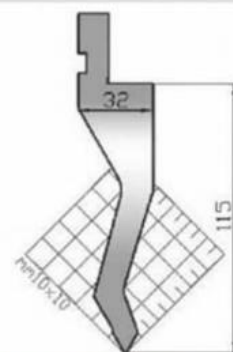
altezza-height 67,00 mm
angolo-degree 60° raggio-radius 0,8 mm
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



max 800 kN/mt

US 124/60° R2,0

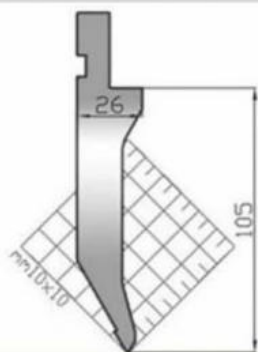
altezza-height 67,00 mm
angolo-degree 60° raggio-radius 2,0 mm
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



max 700 kN/mt

US 134/60° R0,8

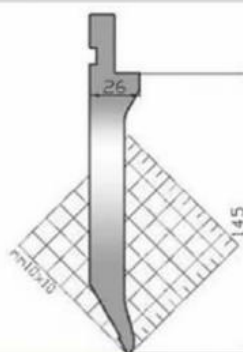
altezza-height 115,00 mm
angolo-degree 60° raggio-radius 0,8 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



max 800 kN/mt

US 128/60° R0,8

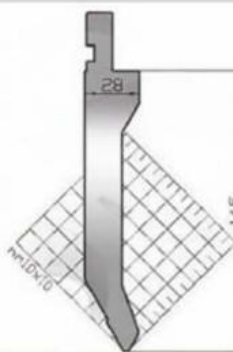
altezza-height 105,00 mm
angolo-degree 60° raggio-radius 0,8 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



max 800 kN/mt

US 135/60° R0,8

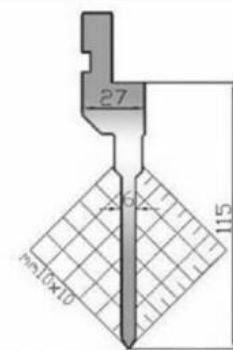
altezza-height 145,00 mm
angolo-degree 60° raggio-radius 0,8 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



max 1000 kN/mt

US 136/60° R2,0

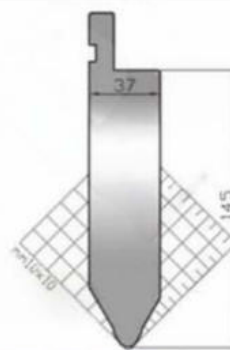
altezza-height 145,00 mm
angolo-degree 60° raggio-radius 2,0 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



max 500 kN/mt

US 151/60° R0,8

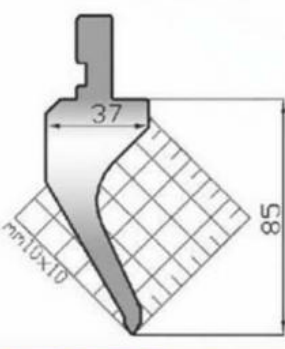
altezza-height 115,00 mm
angolo-degree 60° raggio-radius 0,8 mm
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



max 1600 kN/mt

US 155/60° R5,0

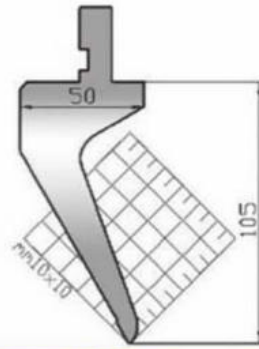
altezza-height 145,00 mm
angolo-degree 60° raggio-radius 5,0 mm
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



max 400 kN/mt

US 148/60° R0,8

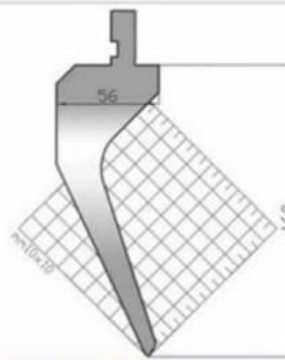
altezza-height 85,00 mm
angolo-degree 60° raggio-radius 0,8 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



max 700 kN/mt

US 132/60° R0,8

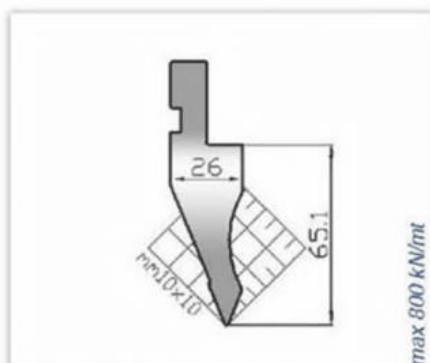
altezza-height 105,00 mm
angolo-degree 60° raggio-radius 0,8 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



max 400 kN/mt

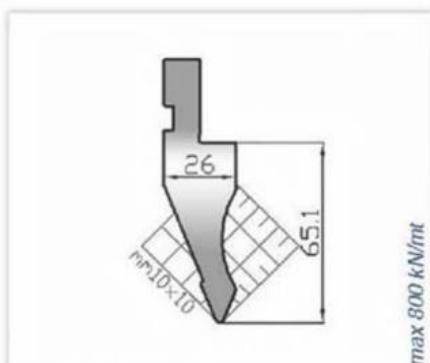
US 150/60° R0,8

altezza-height 160,00 mm
angolo-degree 60° raggio-radius 0,8 mm
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



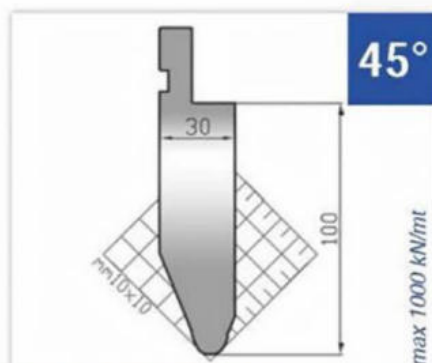
US 111/45° R0,8

altezza-height 65,10 mm
angolo-degree 45° raggio-radius 0,8 mm
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



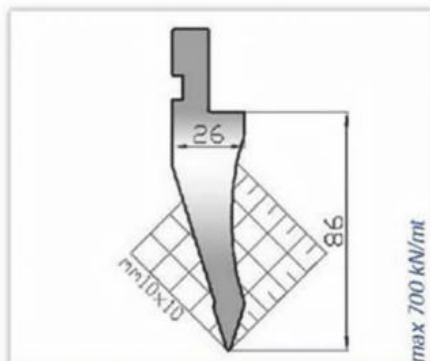
US 111/45° R1,5

altezza-height 65,10 mm
angolo-degree 45° raggio-radius 1,5 mm
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



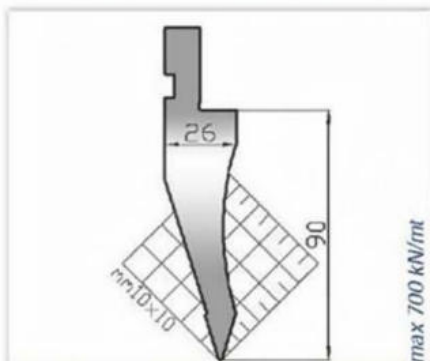
US 149/45° R6,0

altezza-height 100,00 mm
angolo-degree 45° raggio-radius 6,0 mm
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



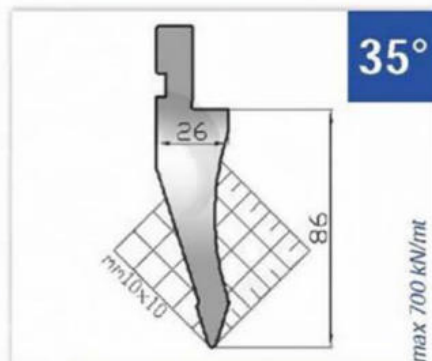
US 112/35° R0,8 h86

altezza-height 86,00 mm
angolo-degree 35° raggio-radius 0,8 mm
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



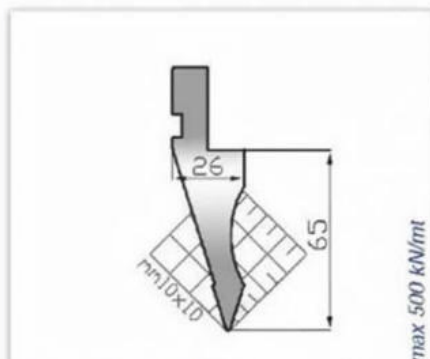
US 112/35° R0,8 h90

altezza-height 90,00 mm
angolo-degree 35° raggio-radius 0,8 mm
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



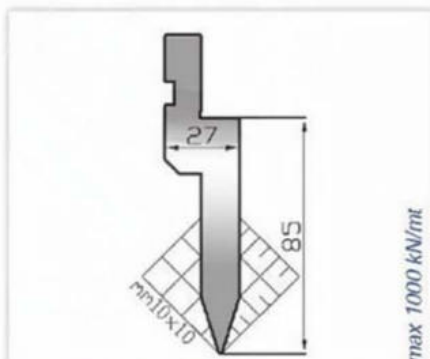
US 112/35° R1,5 h86

altezza-height 86,00 mm
angolo-degree 35° raggio-radius 1,5 mm
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



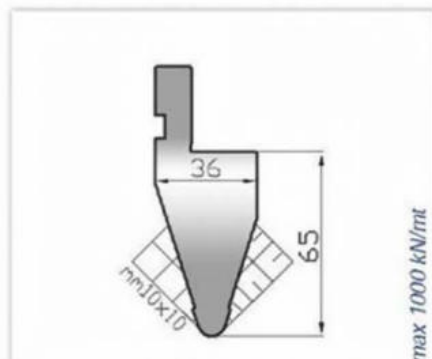
US 111/35° R0,8

altezza-height 65,00 mm
angolo-degree 35° raggio-radius 0,8 mm
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



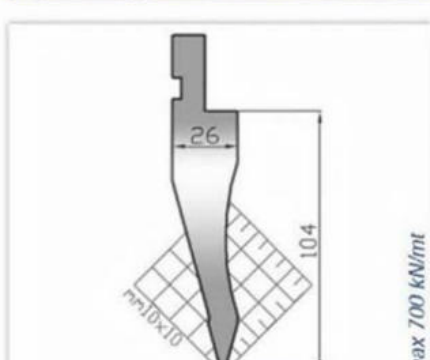
US 121/35° R0,8

altezza-height 85,00 mm
angolo-degree 35° raggio-radius 0,8 mm
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



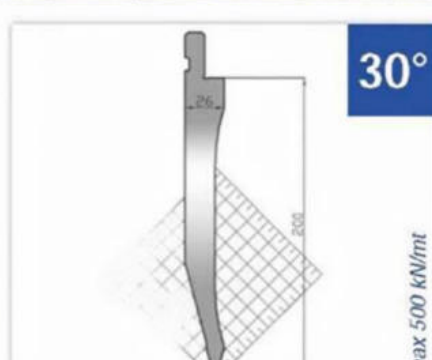
US 113/35° R5,0

altezza-height 65,00 mm
angolo-degree 35° raggio-radius 5,0 mm
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



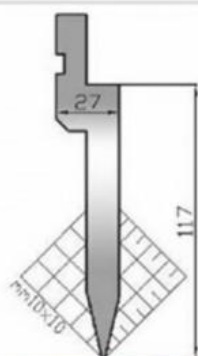
US 133/30° R0,8

altezza-height 104,00 mm
angolo-degree 30° raggio-radius 0,8 mm
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



US 154/30° R0,5

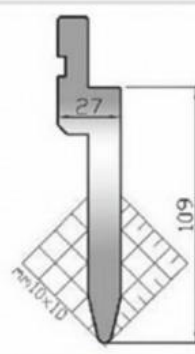
altezza-height 200,00 mm
angolo-degree 30° raggio-radius 0,5 mm
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



max 1000 kN/mt

US 122/26° R0,8

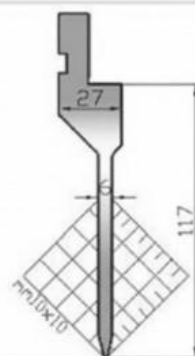
altezza-height 117,00 mm
angolo-degree 26° raggio-radius 0,8 mm
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



max 1000 kN/mt

US 122/26° R3,0

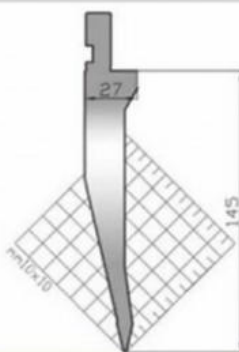
altezza-height 109,00 mm
angolo-degree 26° raggio-radius 3,0 mm
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



max 500 kN/mt

US 137/26° R0,8

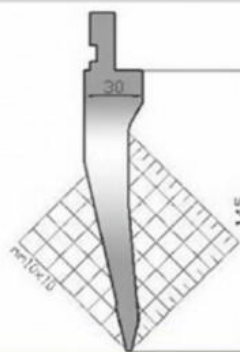
altezza-height 117,00 mm
angolo-degree 26° raggio-radius 0,8 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



max 1000 kN/mt

US 139/26° R0,8

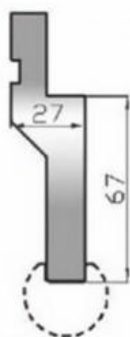
altezza-height 145,00 mm
angolo-degree 26° raggio-radius 0,8 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



max 1000 kN/mt

US 140/26° R1,5

altezza-height 145,00 mm
angolo-degree 26° raggio-radius 1,5 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



max 800 kN/mt

US 119 h 67

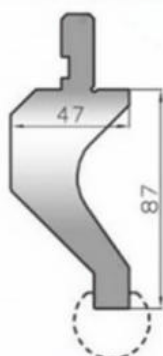
altezza-height 67,00 mm
raggio-radius min 8 mm - max 50 mm
C45 rettificato-grinding
lunghezze-lengths 830 mm - 412 mm



max 800 kN/mt

US 119 h 105

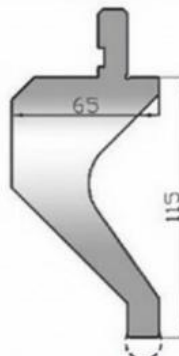
altezza-height 105,00 mm
raggio-radius min 8 mm - max 50 mm
C45 rettificato-grinding
lunghezze-lengths 830 mm - 412 mm



max 500 kN/mt

US 119C h 87

altezza-height 87,00 mm
raggio-radius min 8 mm - max 50 mm
C45 rettificato-grinding
lunghezze-lengths 830 mm - 412 mm

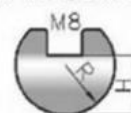


max 500 kN/mt

US 119C h 115

altezza-height 115,00 mm
raggio-radius min 8 mm - max 50 mm
C45 rettificato-grinding
lunghezze-lengths 830 mm - 412 mm

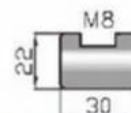
4 fori/holes mm. 104-209...-104 = mm 835
2 fori/holes mm. 103-209...-103 = mm 415



	raggio-radius	altezza-height
US 305/R 8	8	10 mm
US 305/R 9	9	10 mm
US 305/R 10	10	12 mm
US 305/R 12,5	12,5	17 mm
US 305/R 15	15	20 mm
US 305/R 17,5	17,5	22 mm
US 305/R 20	20	24 mm
US 305/R 22,5	22,5	25 mm
US 305/R 25	25	29 mm
US 305/R 27,5	27,5	34 mm
US 305/R 30	30	34 mm
US 305/R 35	35	45 mm
US 305/R 40	40	44 mm
US 305/R 45	45	50 mm
US 305/R 50	50	54 mm

C45 rettificato-grinding

(N) 39NiCrMo3 NITRURATO rettificato-grinding
lunghezze-lengths 835 mm - 415 mm

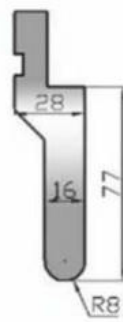


US 310

C45 rettificato-grinding

US 310 T

C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm

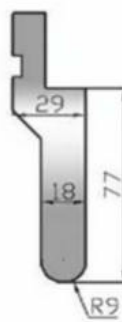


max 1000 kN/mt

US 307 R 8

altezza-height 77,00 mm
raggio-radius 8,0 mm

C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz

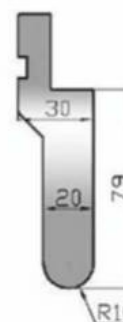


max 1000 kN/mt

US 307 R 9

altezza-height 77,00 mm
raggio-radius 9,0 mm

C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz

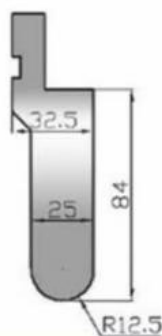


max 1000 kN/mt

US 307 R 10

altezza-height 79,00 mm
raggio-radius 10,0 mm

C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz

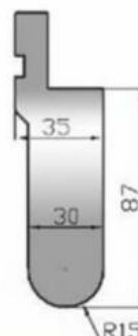


max 1000 kN/mt

US 307 R 12,5

altezza-height 84,00 mm
raggio-radius 12,5 mm

C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz

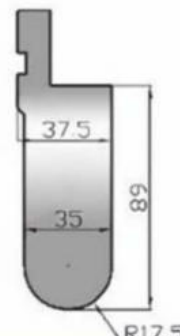


max 1000 kN/mt

US 307 R 15

altezza-height 87,00 mm
raggio-radius 15,0 mm

C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz

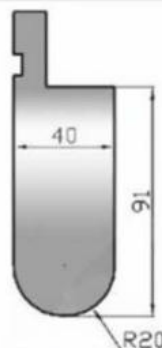


max 1000 kN/mt

US 307 R 17,5

altezza-height 89,00 mm
raggio-radius 17,5 mm

C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



max 1000 kN/mt

US 307 R 20

altezza-height 91,00 mm
raggio-radius 20,0 mm

C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



max 400 kN/mt

US 118 h 67

altezza-height 67,00 mm
raggio-radius min 3 mm - max 7,5 mm

C45 rettificato-grinding
lunghezze-lengths 830 mm - 412 mm

6 fori/holes mm. 55-145...-55 = mm 835
3 fori/holes mm. 55-145...-70 = mm 415

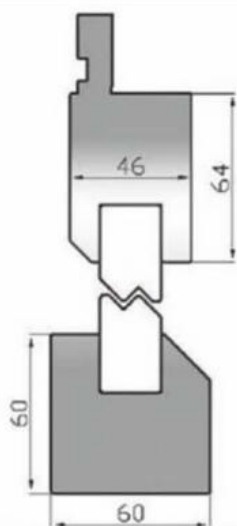


US 305 R 3 ÷ 7,5

spessore max - max thickness mm 3

	raggio-radius	altezza-height
US 305/R 3,0	3,0	6 mm
US 305/R 3,5	3,5	7 mm
US 305/R 4,0	4,0	8 mm
US 305/R 4,5	4,5	9 mm
US 305/R 5,0	5,0	10 mm
US 305/R 5,5	5,5	11 mm
US 305/R 6,0	6,0	12 mm
US 305/R 6,5	6,5	13 mm
US 305/R 7,0	7,0	14 mm
US 305/R 7,5	7,5	15 mm

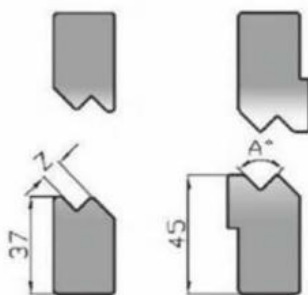
C45 rettificato-grinding
lunghezze-lengths 835 mm - 415 mm



US 130

C45 rettificato-grinding

lunghezze-lengths 835 mm - 415 mm



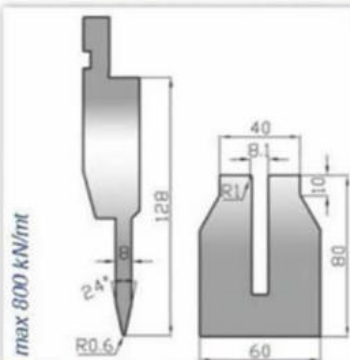
US 131 Z 1.0 - 12 mm

C45 rettificato-grinding

temprato ind.-induction hardened HRC 52/58

lunghezze-lengths 835 mm - 415 mm

Z	A°	MAX spessore thickness	altezza height
US 131/ 1	1.0	160°	0,5 mm
US 131/1,5	1,5	160°	0,6 mm
US 131/ 2	2,0	150°	0,8 mm
US 131/2,5	2,5	140°	1,0 mm
US 131/ 3	3,0	90°	1,0 mm
US 131/3,5	3,5	90°	1,2 mm
US 131/ 4	4,0	90°	1,2 mm
US 131/4,5	4,5	90°	1,5 mm
US 131/ 5	5,0	90°	1,5 mm
US 131/5,5	5,5	90°	1,5 mm
US 131/ 6	6,0	90°	1,5 mm
US 131/6,5	6,5	90°	1,5 mm
US 131/ 7	7,0	90°	2,0 mm
US 131/7,5	7,5	90°	2,0 mm
US 131/ 8	8,0	90°	2,5 mm
US 131/ 9	9,0	90°	2,5 mm
US 131/10	10,0	90°	3,0 mm
US 131/11	11,0	90°	3,0 mm
US 131/12	12,0	90°	3,0 mm



V8

US 138 L8 + M8

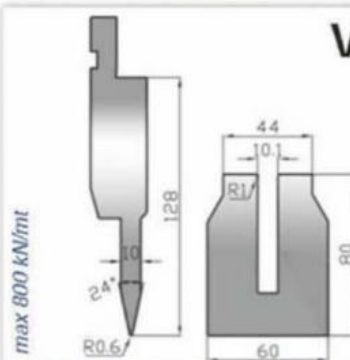
altezza-height 128 - 80 mm

angolo-degree 24° raggio-radius 0,6-1,0 mm

42CrMo4 rettificato-grinding

temprato ind.-induction hardened HRC 52/58

lunghezze-lengths 835 mm - 415 mm - fraz



V10

US 138 L10 + M10

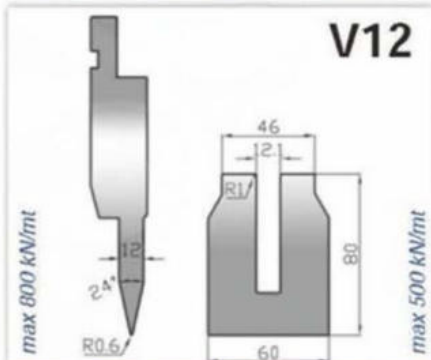
altezza-height 128 - 80 mm

angolo-degree 24° raggio-radius 0,6-1,0 mm

42CrMo4 rettificato-grinding

temprato ind.-induction hardened HRC 52/58

lunghezze-lengths 835 mm - 415 mm - fraz



V12

US 138 L12 + M12

altezza-height 128 - 80 mm

angolo-degree 24° raggio-radius 0,6-1,0 mm

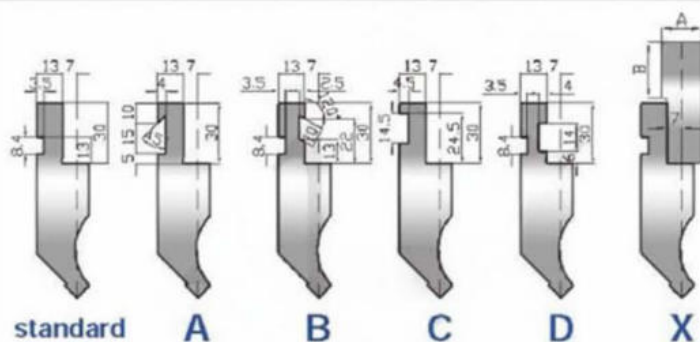
42CrMo4 rettificato-grinding

temprato ind.-induction hardened HRC 52/58

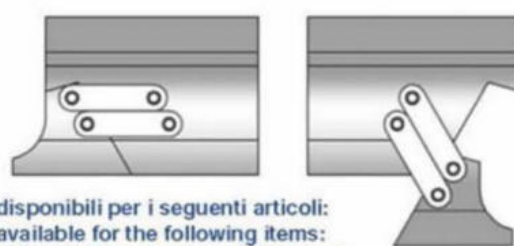
lunghezze-lengths 835 mm - 415 mm - fraz

Si consiglia di utilizzare questi utensili su presse piegatrici sincronizzate in quanto occorre variare rapidamente la corsa della pressa tra la fase di piegatura e quella di schiacciatura. Non è possibile aumentare il raggio della matrice in quanto si potrebbero verificare deformazioni anomale della piega schiacciata.

We suggest to use these tools on synchronized press brakes as it is necessary to change quickly press stroke between bending and crushing position. It is not possible to increase lower tool radius because it would have some deformations on bend crushed.



ATTACCHI SPECIALI - SPECIAL CLAMPINGS



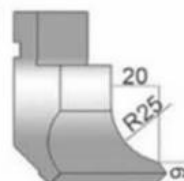
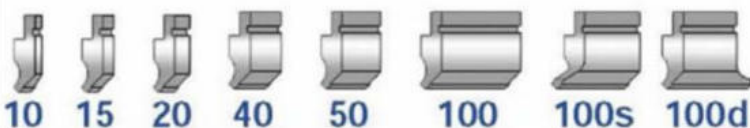
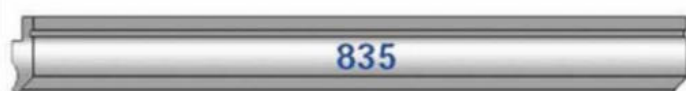
disponibili per i seguenti articoli:

available for the following items:

-US 110/88° R0,8 -US 125/88° R0,8

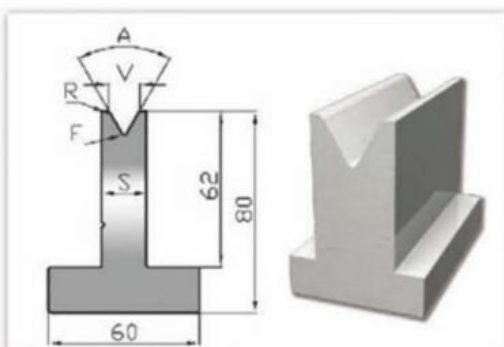
-US 128/60° R0,8 -US 122/26° R0,8

UTENSILI CON SCARPETTE MOBILI TOOLS WITH MOBILE HORNS



LUNGHEZZE - LENGTHS

835 mm 415 mm fraz



US 220 h 80 mm

dimensioni - dimensions

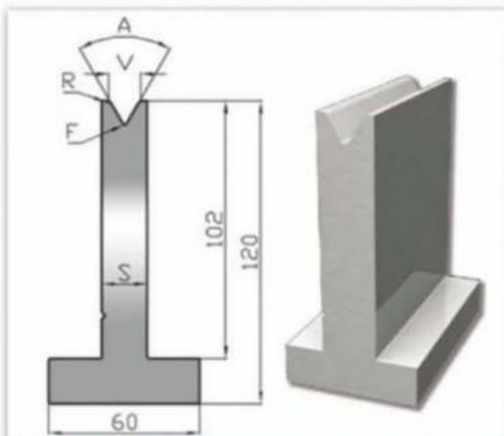
80 x 60 mm

C45 rettificato-grinding

temprato ind.-induction hardened HRC 52/58

lunghezze-lengths

835 mm - 415 mm - fraz



US 420 h 120 mm

dimensioni - dimensions

120 x 60 mm

C45 rettificato-grinding

temprato ind.-induction hardened HRC 52/58

lunghezze-lengths

835 mm - 415 mm - fraz

A°	V mm	R mm	S mm	F mm	max kN/mt
90°	6	0,40	14	r 0,5	1000
	8	0,50	14	r 0,5	1000
	10	0,60	18	r 0,5	1000
	12	0,80	18	r 0,5	1000
88°	6	0,40	14	r 0,5	1000
	8	0,50	14	r 0,5	1000
	10	0,80	18	r 0,5	1000
	12	2,75	18	r 0,5	1000
	16	2,75	24	r 0,5	1000
	20	3,00	30	r 0,5	1000
	25	3,00	35	r 0,5	1000
	6 R	2,75	14	r 0,5	1000
85°	8 R	2,75	14	r 0,5	1000
	10 R	2,75	18	r 0,5	1000
	6	2,75	14	r 0,5	1000
	8	2,75	14	r 0,5	1000
	10	2,75	18	r 0,5	1000
	12	2,75	18	r 0,5	1000
	16	2,75	24	r 0,5	1000
	20	3,00	30	r 0,8	1000
60°	25	3,00	35	r 0,8	1000
	6	0,50	14	r 0,5	800
	8	0,80	14	r 0,5	700
	10	0,80	18	r 0,5	800
	12	0,80	18	r 0,5	700
	16	2,75	24	r 2,0	1000
	20	3,00	30	r 2,0	1000
	25	3,00	35	r 2,0	1000
	6 R	1,50	14	r 0,5	800
	8 R	1,50	14	r 0,5	700
	10 R	2,75	18	r 0,5	800
	12 R	2,75	18	r 0,5	700

A°	V mm	R mm	S mm	F mm	max kN/mt
45°	6	0,80	14	r 0,5	500
	8	1,00	18	r 0,8	500
	10	1,20	18	r 0,8	500
	12	1,60	24	r 0,8	500
	16	2,75	26	r 2,0	500
35°	20	3,00	30	r 2,0	600
	25	3,00	37	r 2,0	700
	6	0,80	14	r 0,5	350
	8	1,00	16	r 0,5	350
	10	1,20	20	r 0,5	400
30°	12	1,60	22	r 0,5	400
	16	3,00	30	r 2,0	450
	20	3,00	35	r 2,0	500
	25	3,00	40	r 2,0	500
26°	6	0,60	14	r 1,0	350
	8	0,80	18	r 1,2	350
	10	1,00	24	r 1,2	500
	12	1,50	24	r 1,2	400
	16	2,00	30	r 3,0	450
20°	20	2,50	35	r 3,0	500
	25	3,00	40	r 3,0	500
	6	0,80	16	r 1,0	250
	8	1,00	20	r 1,0	250
	10	1,20	24	r 1,0	250
	12	1,60	26	r 1,0	250

V mm	A°	V mm	A°
6	88°	6	45°
8	88°	8	45°
10	88°	10	45°
6	60°	6	30°
8	60°	8	30°
10	60°		

NYLON 14

lunghezze-lengths

835 mm - 415 mm

V mm	A°	V mm	A°
6	88°	6	45°
8	88°	8	45°
10	88°	10	45°
12	88°	12	45°
16	88°		
6	60°	6	30°
8	60°	8	30°
10	60°	10	30°
12	60°		
16	60°		

NYLON 20

lunghezze-lengths

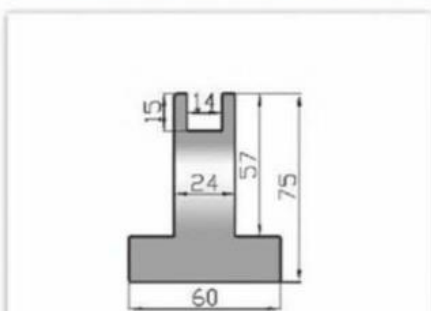
835 mm - 415 mm

V mm	A°	V mm	A°
6	88°	6	45°
8	88°	8	45°
10	88°	10	45°
12	88°	12	45°
16	88°	16	45°
20	88°	20	45°
25	88°		
6	60°	6	30°
8	60°	8	30°
10	60°	10	30°
12	60°	12	30°
16	60°	16	30°
20	60°		

NYLON 30

lunghezze-lengths

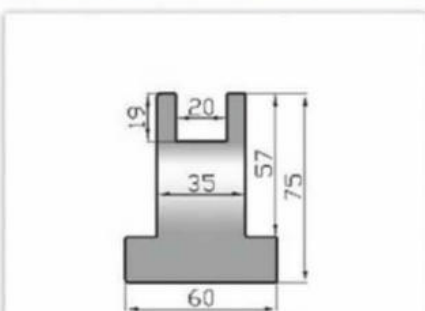
835 mm - 415 mm



US 220 NYL14

lunghezze-lengths

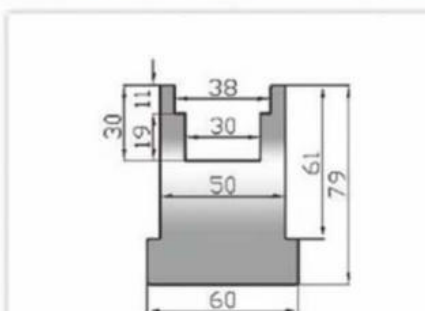
835 mm - 415 mm



US 220 NYL 20

lunghezze-lengths

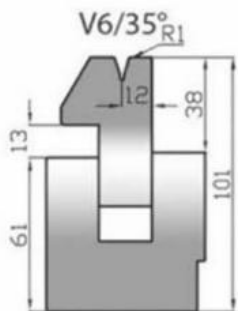
835 mm - 415 mm



US 220 NYL 30

lunghezze-lengths

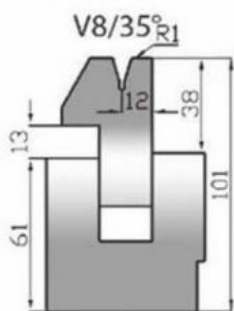
835 mm - 415 mm



max 600 kN/mt

US 303/35° V6

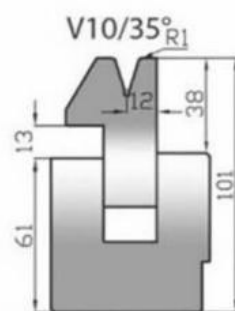
altezza-height 101/88 mm
angolo-degree 35° raggio-radius 1,0 mm
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm



max 600 kN/mt

US 303/35° V8

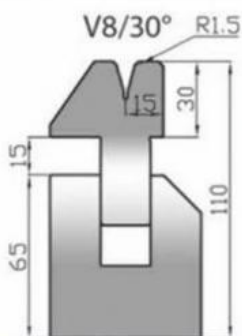
altezza-height 101/88 mm
angolo-degree 35° raggio-radius 1,0 mm
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm



max 600 kN/mt

US 303/35° V10

altezza-height 101/88 mm
angolo-degree 35° raggio-radius 1,0 mm
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm



max 800 kN/mt

US 306/30° V8

altezza-height 110/95 mm
angolo-degree 30° raggio-radius 1,5 mm
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm

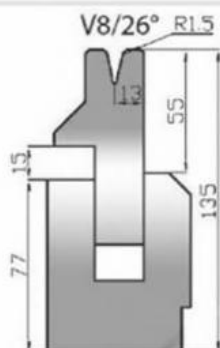


S mm	X	R 450 N/mm²	R 700 N/mm²
0,6	mm 3,0	90 kN/mt	150 kN/mt
0,8	mm 3,0	120 kN/mt	200 kN/mt
1	mm 3,5	150 kN/mt	250 kN/mt
1,2	mm 3,5	170 kN/mt	260 kN/mt
1,5	mm 4,6	220 kN/mt	380 kN/mt
2	mm 5,5	300 kN/mt	500 kN/mt
2,5	mm 6,5	550 kN/mt	900 kN/mt
3	mm 8,0	700 kN/mt	1000 kN/mt

S : spessore - thickness - R : resistenza - resistance



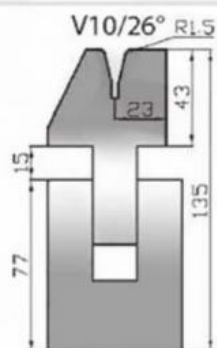
S mm	X	R 450 N/mm²	R 700 N/mm²
0,6	mm 1,2	230 kN/mt	350 kN/mt
0,8	mm 1,6	320 kN/mt	500 kN/mt
1	mm 2,0	400 kN/mt	600 kN/mt
1,2	mm 2,4	500 kN/mt	800 kN/mt
1,5	mm 3,0	630 kN/mt	950 kN/mt
2	mm 4,0	800 kN/mt	1300 kN/mt
2,5	mm 5,0	900 kN/mt	1800 kN/mt
3	mm 6,0	1000 kN/mt	2100 kN/mt



max 400 kN/mt

US 308/26° V8

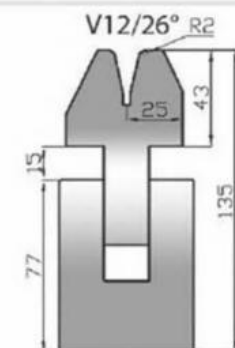
altezza-height 135/120 mm
angolo-degree 26° raggio-radius 1,5 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm



max 1000 kN/mt

US 302/26° V10

altezza-height 135/120 mm
angolo-degree 26° raggio-radius 1,5 mm
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm



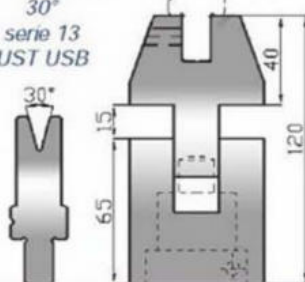
max 1000 kN/mt

US 300/26° V12

altezza-height 135/120 mm
angolo-degree 26° raggio-radius 2,0 mm
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm

per utensili inferiori
for lower tools

30°
serie 13
UST USB



max 1000 kN/mt

US 301 - PNEUMATIC

altezza-height 120/105 mm
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 1000 mm - 500 mm

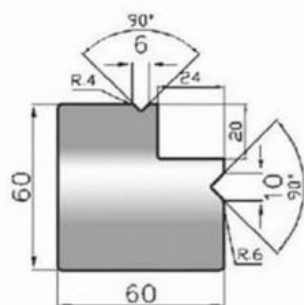


Utilizzare queste matrici con utensili superiori che hanno la stessa gradazione. La tempra ad induzione di questi utensili viene eseguita sia sulle parti di lavoro che su quelle di scorrimento.
Employ these hemming tools with upper tool having the same degree. Inductions hardened is applied on working surfaces and flowing parts.



Gli utensili piegasciaccia serie 300 possono essere forniti con cilindri pneumatici per il sollevamento dell'elemento superiore.
The hemming tools 300 series can be supplied with pneumatic cylinders for moving upper element.

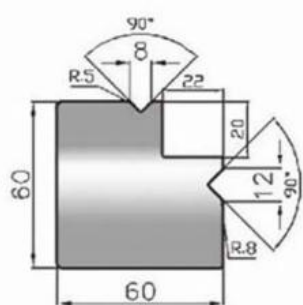
KIT/PNEU



max 800 kN/mt

US 216/90° V 6+10

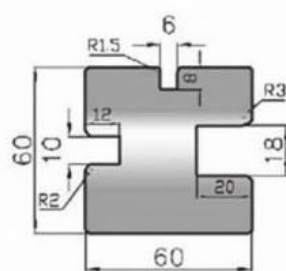
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



max 800 kN/mt

US 217/90° V 8+12

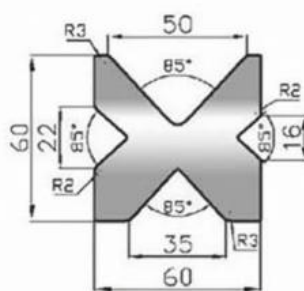
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



max 1000 kN/mt

US 208/3U 6-10-18 mm

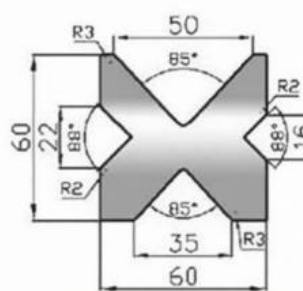
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



max 800 kN/mt

US 205/4V

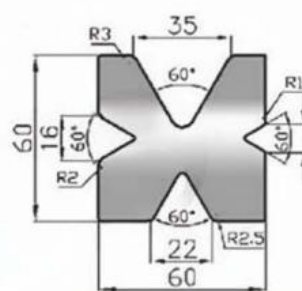
dimensioni-dimensions 60x60 mm
cava V - slot V 16-22-35-50/85°
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



max 800 kN/mt

US 209/4V

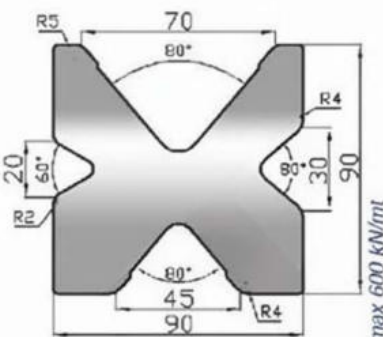
dimensioni-dimensions 60x60 mm
cava V - slot V 16-22/88° 35-50/85°
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



max 600 kN/mt

US 210/4V

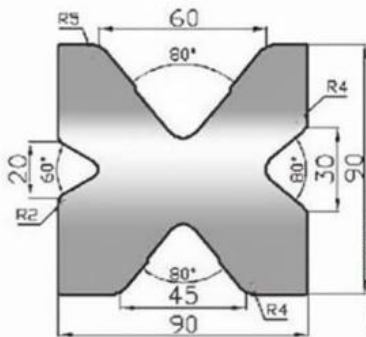
dimensioni-dimensions 60x60 mm
cava V - slot V 10-16-22-35 / 60°
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



max 600 kN/mt

US 203/4V (V 70 mm)

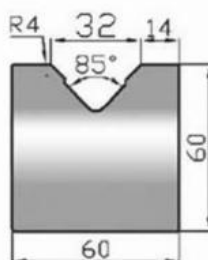
dimensioni-dimensions 90x90 mm
cava V - slot V 20/60° 30-45-70/80°
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



max 1000 kN/mt

US 204/4V (V 60 mm)

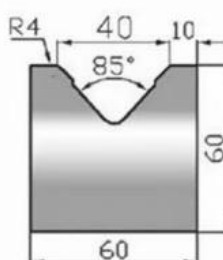
dimensioni-dimensions 90x90 mm
cava V - slot V 20/60° 30-45-60/80°
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



max 1000 kN/mt

US 211/32

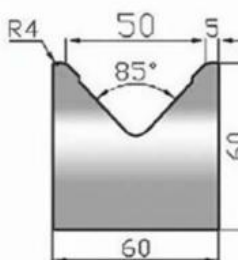
altezza-height 60 mm
angolo-degree 85° raggio-radius 4,0 mm
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



max 1000 kN/mt

US 211/40

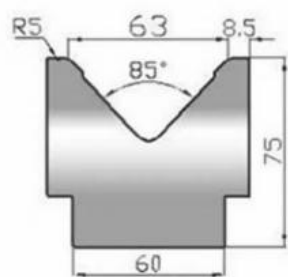
altezza-height 60 mm
angolo-degree 85° raggio-radius 4,0 mm
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



max 1000 kN/mt

US 211/50

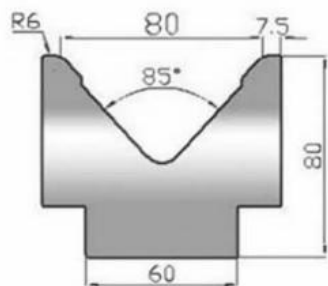
altezza-height 60 mm
angolo-degree 85° raggio-radius 4,0 mm
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



max 1000 kN/mt

US 211/63

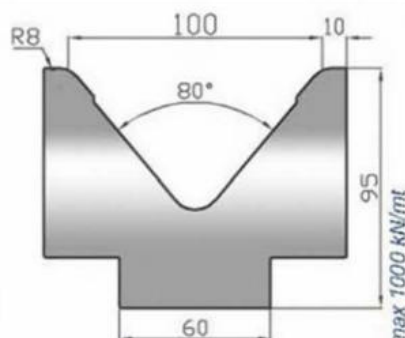
altezza-height 75 mm
angolo-degree 85° raggio-radius 5,0 mm
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



max 1000 kN/mt

US 211/80

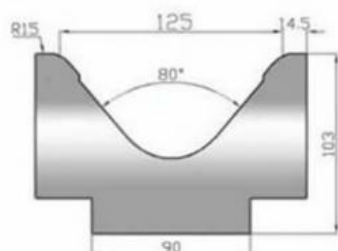
altezza-height 80 mm
angolo-degree 85° raggio-radius 6,0 mm
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



max 1000 kN/mt

US 211/100

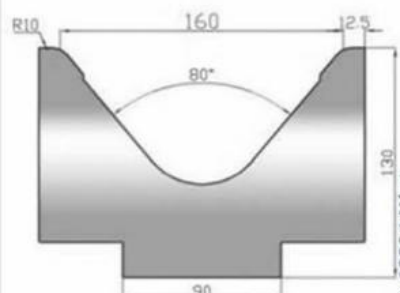
altezza-height 95 mm
angolo-degree 80° raggio-radius 8,0 mm
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



max 1000 kN/mt

US 211/125

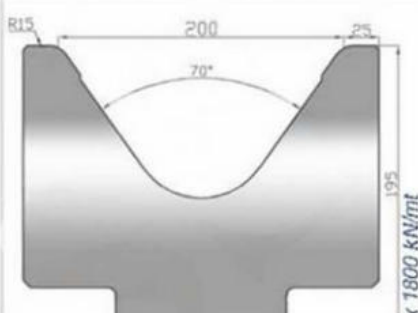
altezza-height 103 mm
angolo-degree 80° raggio-radius 15,0 mm
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



max 1000 kN/mt

US 211/160

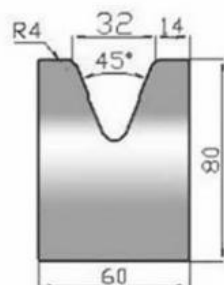
altezza-height 130 mm
angolo-degree 80° raggio-radius 10,0 mm
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



max 1800 kN/mt

US 211/200

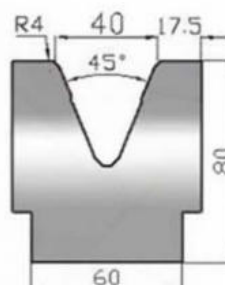
altezza-height 195 mm
angolo-degree 70° raggio-radius 15,0 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 415 mm



max 1000 kN/mt

US 220/45° V32

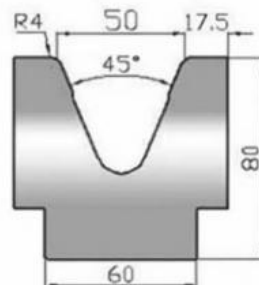
altezza-height 80 mm
angolo-degree 45° raggio-radius 4,0 mm
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



max 1000 kN/mt

US 220/45° V40

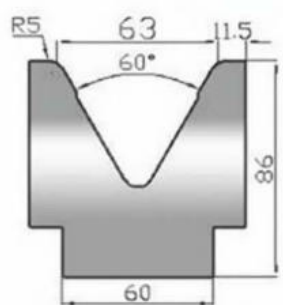
altezza-height 80 mm
angolo-degree 45° raggio-radius 4,0 mm
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



max 900 kN/mt

US 220/45° V50

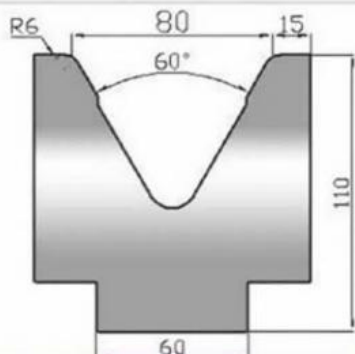
altezza-height 80 mm
angolo-degree 45° raggio-radius 4,0 mm
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



max 1000 kN/mt

US 220/60° V63

altezza-height 86 mm
angolo-degree 60° raggio-radius 5,0 mm
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz

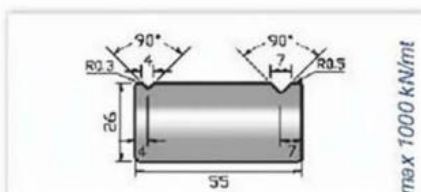


max 1000 kN/mt

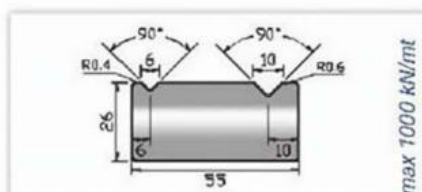
US 220/60° V80

altezza-height 110 mm
angolo-degree 60° raggio-radius 6,0 mm
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz

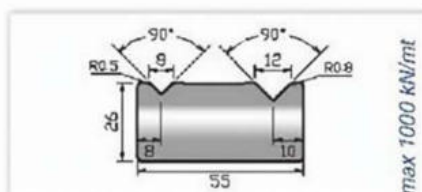




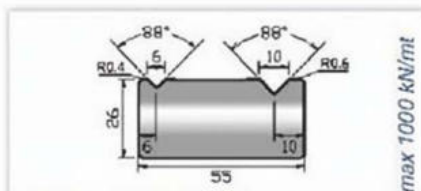
US 206/90° V 4 + 7
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezza-lengths 835 mm - 415 mm



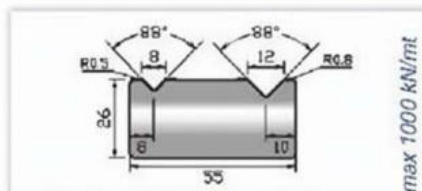
US 212/90° V 6 + 10
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezza-lengths 835 mm - 415 mm



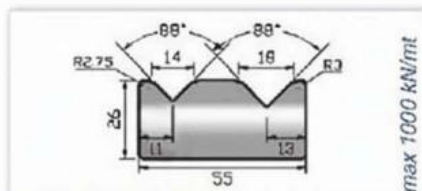
US 213/90° V 8 + 12
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezza-lengths 835 mm - 415 mm



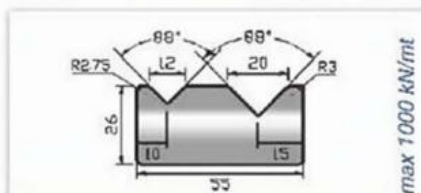
US 212/88° V 6 + 10
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezza-lengths 835 mm - 415 mm



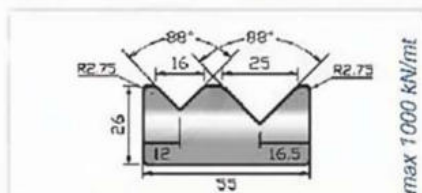
US 213/88° V 8 + 12
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezza-lengths 835 mm - 415 mm



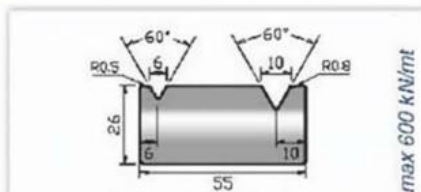
US 207/88° V 14 + 18
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezza-lengths 835 mm - 415 mm



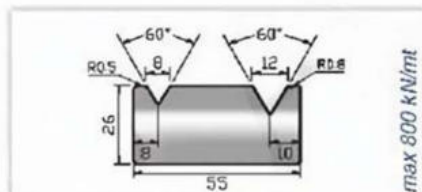
US 214/88° V 12 + 20
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezza-lengths 835 mm - 415 mm



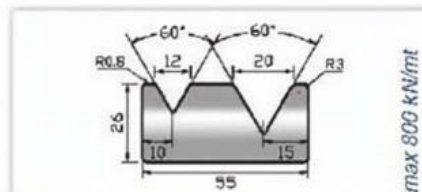
US 215/88° V 16 + 25
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezza-lengths 835 mm - 415 mm



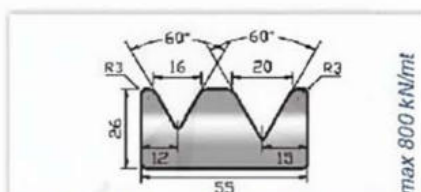
US 218/60° V 6 + 10
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezza-lengths 835 mm - 415 mm



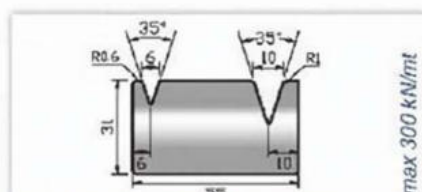
US 219/60° V 8 + 12
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezza-lengths 835 mm - 415 mm



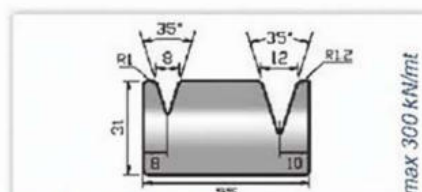
US 221/60° V 12 + 20
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezza-lengths 835 mm - 415 mm



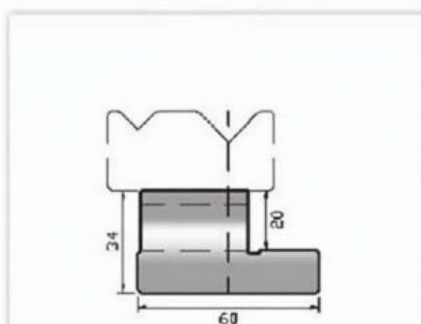
US 222/60° V 16 + 20
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezza-lengths 835 mm - 415 mm



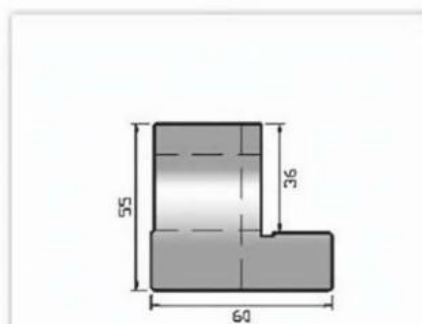
US 223/35° V 6 + 10
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezza-lengths 835 mm - 415 mm



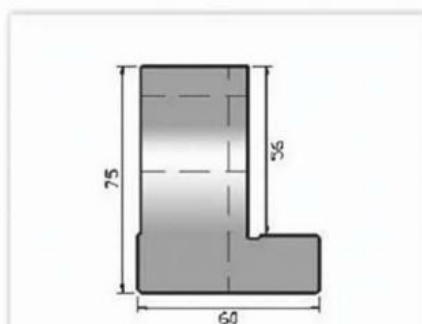
US 224/35° V 8 + 12
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezza-lengths 835 mm - 415 mm



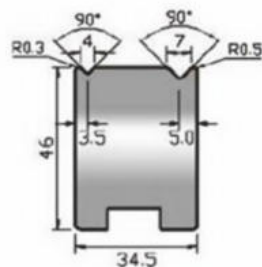
US 406/34
altezza-height 34 mm
C45 rettificato-grinding
lunghezza-lengths 830 mm - 410 mm



US 407/55
altezza-height 55 mm
C45 rettificato-grinding
lunghezza-lengths 830 mm - 410 mm



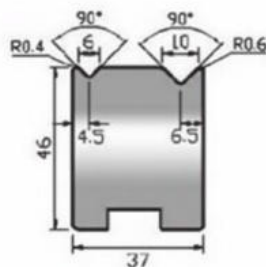
US 408/75
altezza-height 75 mm
C45 rettificato-grinding
lunghezza-lengths 830 mm - 410 mm



max 800 kN/mt

US 510/90° V 4 + 7

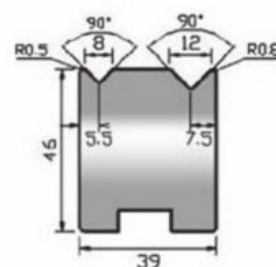
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



max 800 kN/mt

US 520/90° V 6 + 10

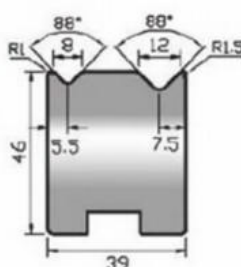
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



max 800 kN/mt

US 530/90° V 8 + 12

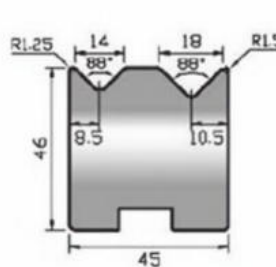
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



max 800 kN/mt

US 540/88° V 8 + 12

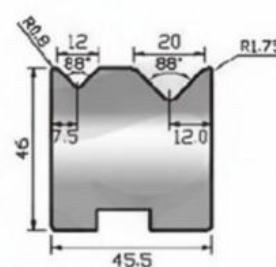
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



max 800 kN/mt

US 550/88° V 14 + 18

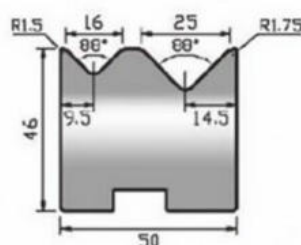
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



max 800 kN/mt

US 560/88° V 12 + 20

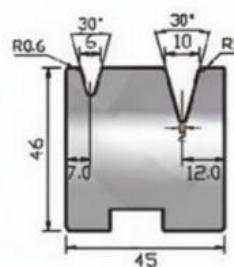
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



max 800 kN/mt

US 570/88° V 16 + 25

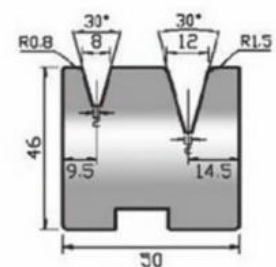
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



max 400 kN/mt

US 580/30° V 6 + 10

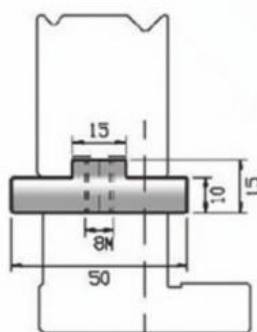
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz



max 400 kN/mt

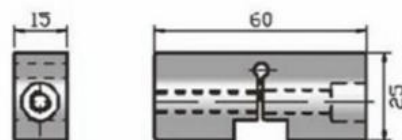
US 590/30° V 8 + 12

C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm - fraz

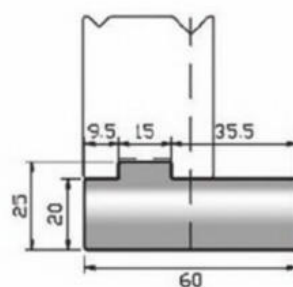


US 500

altezza-height 10 mm
C45 rettificato-grinding
lunghezze-lengths 835 mm - 415 mm

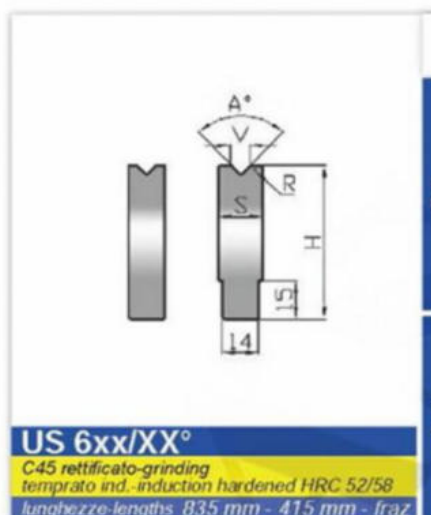
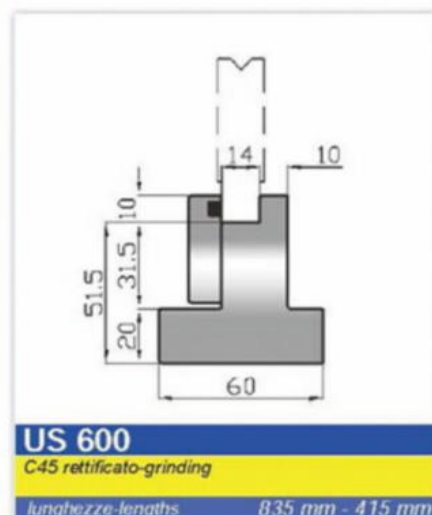
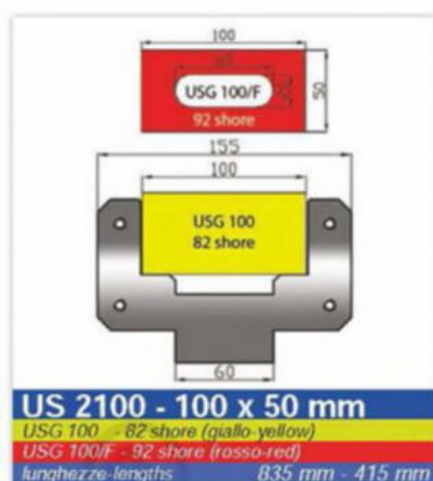
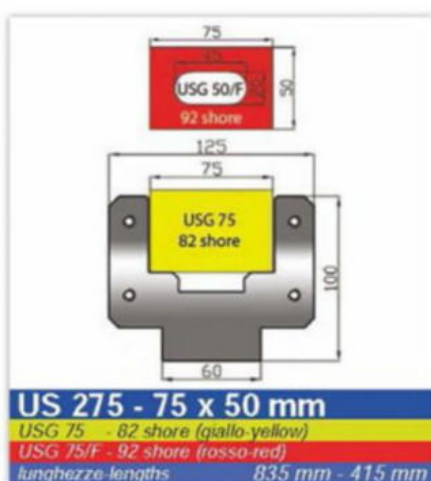


US 501

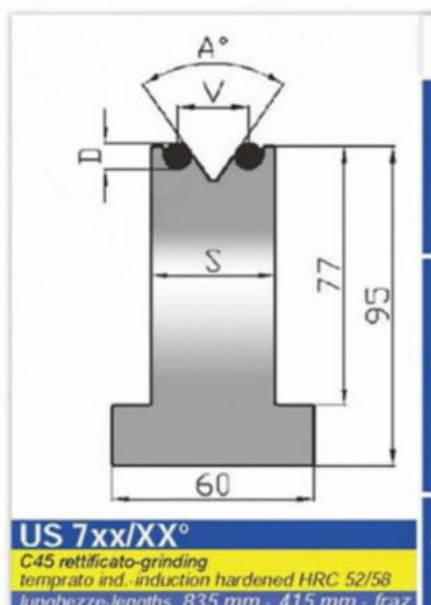
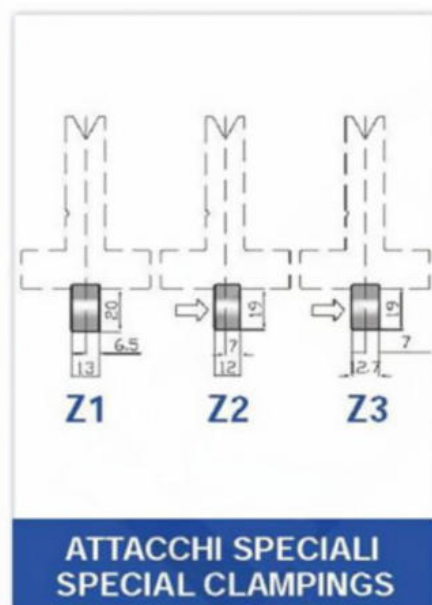


US 505

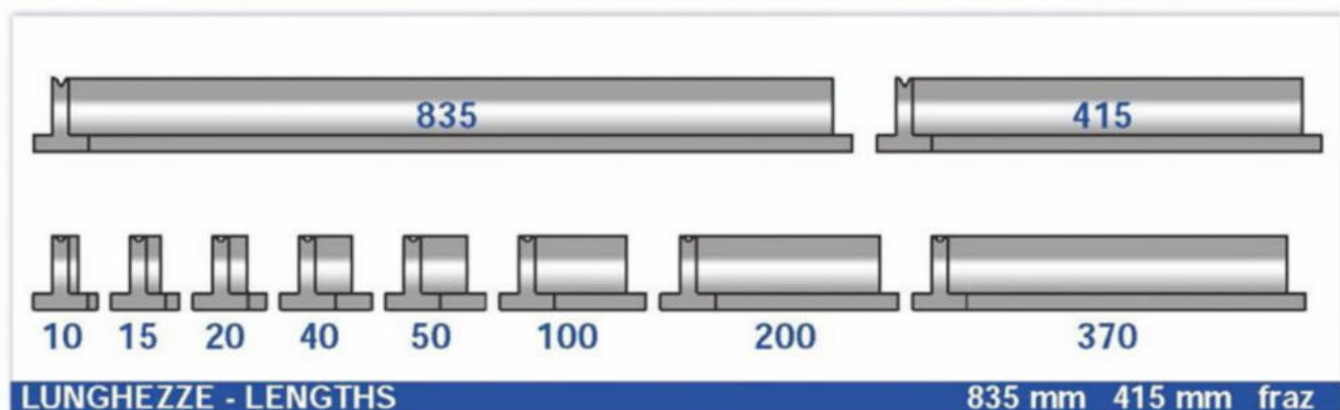
altezza-height 20 mm
C45 rettificato-grinding
lunghezze-lengths 835 mm - 415 mm

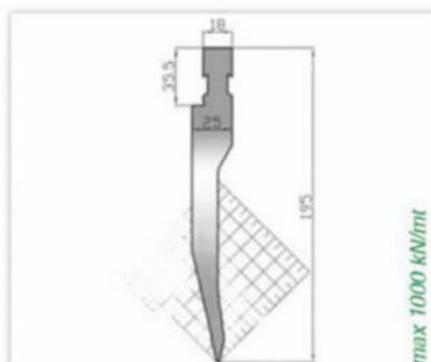


A°	V	H	R	S	max	
	mm	mm	mm	mm	kN/mm	
88°	US 604/88°	4	60	0,6	14	1000
	US 606/88°	6	60	0,8	14	1000
	US 608/88°	8	60	1,0	14	1000
	US 610/88°	10	60	1,2	18	1000
	US 612/88°	12	60	1,5	18	1000
	US 616/88°	16	60	2,0	24	1000
	US 620/88°	20	60	2,0	30	1000
	US 625/88°	25	60	3,0	35	1000
30°	US 606/30°	6	60	0,6	14	350
	US 608/30°	8	60	0,8	18	350
	US 610/30°	10	60	1,0	24	500
	US 612/30°	12	60	1,5	24	400
	US 616/30°	16	60	2,0	30	450
	US 620/30°	20	60	2,5	35	500
	US 625/30°	25	65	3,0	45	500



A°	V mm	D mm	S mm	max kN/m
30°	US 706/30°	6	6 Ø	25 500
	US 708/30°	8	6 Ø	26 500
	US 710/30°	10	6 Ø	27 500
	US 712/30°	12	6 Ø	29 500
	US 716/30°	16	8 Ø	40 500
	US 720/30°	20	8 Ø	44 500
70°	US 706/70°	6	6 Ø	25 800
	US 708/70°	8	6 Ø	26 800
	US 710/70°	10	6 Ø	27 800
	US 712/70°	12	6 Ø	29 800
	US 716/70°	16	8 Ø	37 1000
	US 720/70°	20	8 Ø	42 1000
	US 725/70°	25	8 Ø	48 1000
	US 730/70°	30	8 Ø	60 1000
78°	US 740/78°	40	10 Ø	72 1100
	US 750/78°	50	10 Ø	82 1200
	US 760/78°	60	12 Ø	102 1300
	US 780/78°	80	16 Ø	132 1400





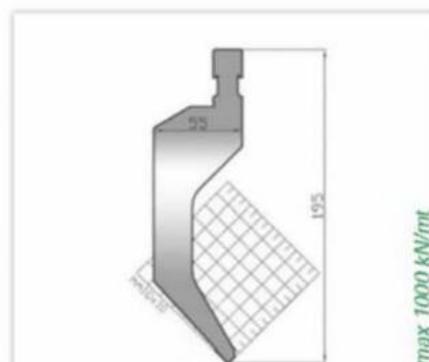
USC 195/26° R0,8

altezza-height 195 mm
 angolo-degree 26° raggio-radius 0,8 mm
 42CrMo4 rettificato-grinding
 temprato ind.-induction hardened HRC 52/58
 lunghezze-lengths 525 mm - fraz A - fraz B



USC 195/60° R0,8

altezza-height 195 mm
 angolo-degree 60° raggio-radius 0,8 mm
 42CrMo4 rettificato-grinding
 temprato ind.-induction hardened HRC 52/58
 lunghezze-lengths 525 mm - fraz A - fraz B



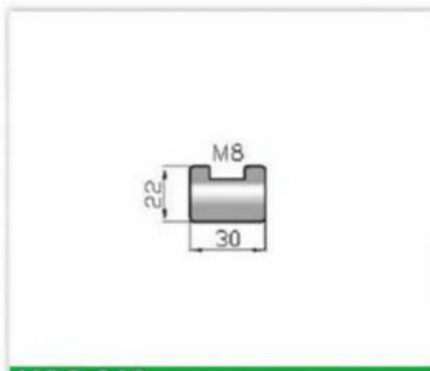
USC 195/85° R0,8

altezza-height 195 mm
 angolo-degree 85° raggio-radius 0,8 mm
 42CrMo4 rettificato-grinding
 temprato ind.-induction hardened HRC 52/58
 lunghezze-lengths 525 mm - fraz A - fraz B



USC 180

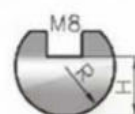
altezza-height 180 mm
 angolo-degree 60° raggio-radius 0,8 mm
 C45 rettificato-grinding
 lunghezze-lengths 525 mm



USC 310

C45 rettificato-grinding
USC 310 T
 C45 rettificato-grinding
 temprato ind.-induction hardened HRC 52/58
 lunghezze-lengths 525 mm

3 fori/holes mm. 53,5-209...-53,5=mm 525



raggio-radius altezza-height

USC 305/R	raggio-radius	altezza-height
USC 305/R 8	8	10 mm
USC 305/R 9	9	10 mm
USC 305/R 10	10	12 mm
USC 305/R 12,5	12,5	17 mm
USC 305/R 15	15	20 mm
USC 305/R 17,5	17,5	22 mm
USC 305/R 20	20	24 mm
USC 305/R 22,5	22,5	25 mm
USC 305/R 25	25	29 mm
USC 305/R 27,5	27,5	34 mm
USC 305/R 30	30	34 mm
USC 305/R 35	35	45 mm
USC 305/R 40	40	44 mm
USC 305/R 45	45	50 mm
USC 305/R 50	50	54 mm

C45 rettificato-grinding

(N) 39NiCrMo3 NITRURATO rettificato-grinding
 lunghezze-lengths 525 mm

525 mm

495 fraz A

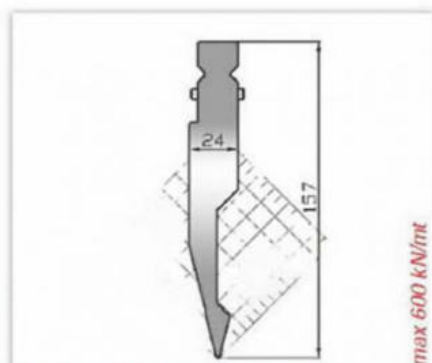
mm 25+30+35+40+45+50+100+170

500 fraz B

mm 100sx+100dx+300

LUNGHEZZE - LENGTHS





UST 157 X / 28° R1,0

altezza-height 157 mm
angolo-degree 28° raggio-radius 1,0 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 500 mm - fraz A-B-C-L

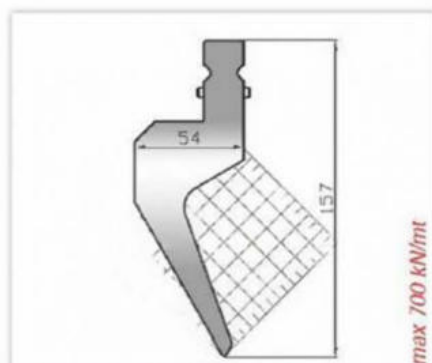
max 600 kN/mt



UST 157 S / 60° R4,0

altezza-height 157 mm
angolo-degree 60° raggio-radius 4,0 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 500 mm - fraz A-B-C-L

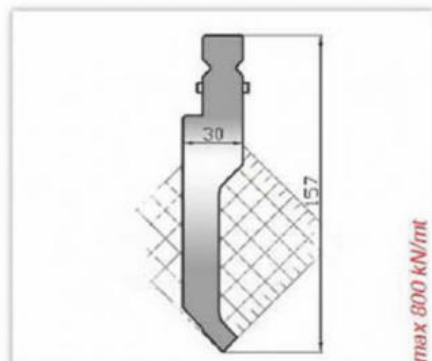
max 1300 kN/mt



UST 157 C / 60° R1,0

altezza-height 157 mm
angolo-degree 60° raggio-radius 1,0 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 500 mm - fraz A-B-C-L

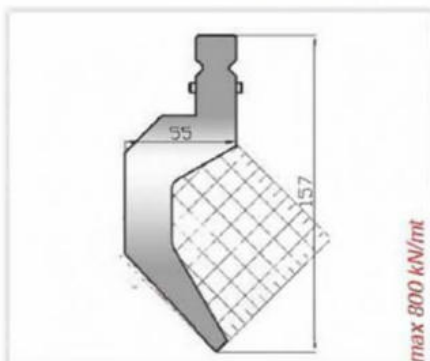
max 700 kN/mt



UST 157 D / 86° R1,0

altezza-height 157 mm
angolo-degree 86° raggio-radius 1,0 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 500 mm - fraz A-B-C-L

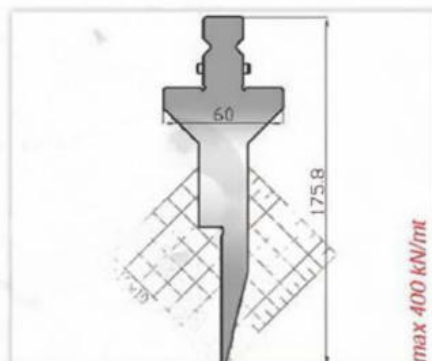
max 800 kN/mt



UST 157 C / 86° R1,0

altezza-height 157 mm
angolo-degree 86° raggio-radius 1,0 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 500 mm - fraz A-B-C-L

max 800 kN/mt



UST 176 SP / 28° R1,0

altezza-height 175.8 mm
angolo-degree 28° raggio-radius 1,0 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 500 mm - fraz A-B-C-L

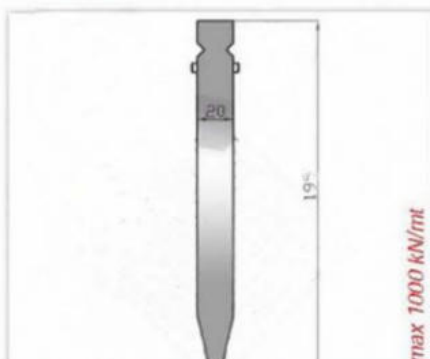
max 400 kN/mt



UST 195 X / 28° R1,0

altezza-height 195 mm
angolo-degree 28° raggio-radius 1,0 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 500 mm - fraz B

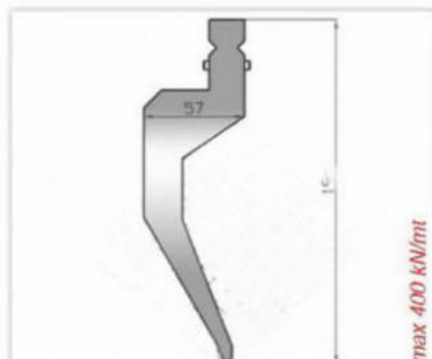
max 800 kN/mt



UST 195 S / 28° R3,0

altezza-height 195 mm
angolo-degree 28° raggio-radius 3,0 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 500 mm - fraz B

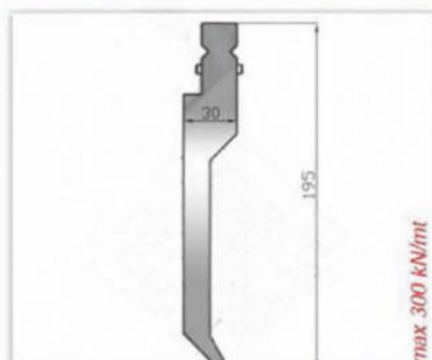
max 1000 kN/mt



UST 195 C / 60° R0,8

altezza-height 195 mm
angolo-degree 60° raggio-radius 0,8 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 500 mm - fraz B

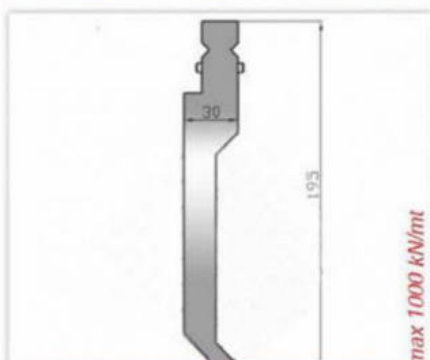
max 400 kN/mt



UST 195 D / 86° R0,6

altezza-height 195 mm
angolo-degree 86° raggio-radius 0,6 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 500 mm - fraz B

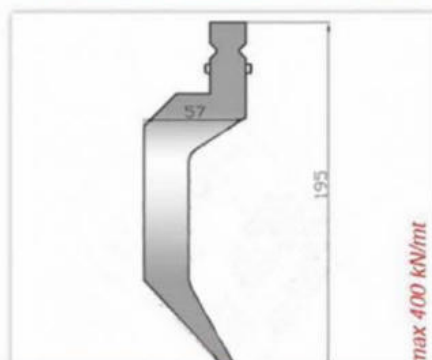
max 300 kN/mt



UST 195 D / 86° R0,8

altezza-height 195 mm
angolo-degree 86° raggio-radius 0,8 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 500 mm - fraz B

max 1000 kN/mt



UST 195 C / 86° R0,8

altezza-height 195 mm
angolo-degree 86° raggio-radius 0,8 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 500 mm - fraz B

max 400 kN/mt



max 600 kN/mt

UST 237 X / 28° R1,0

altezza height 237 mm
 angolo-degree 28° raggio-radius 1,0 mm
 42CrMo4 rettificato-grinding
 temprato ind.-induction hardened HRC 52/58
 lunghezze-lengths 515 mm - 550 fraz L



max 1000 kN/mt

UST 237 S / 90° R1,2

altezza height 237 mm
 angolo-degree 90° raggio-radius 1,2 mm
 42CrMo4 rettificato-grinding
 temprato ind.-induction hardened HRC 52/58
 lunghezze-lengths 515 mm - 550 fraz L



max 1300 kN/mt

UST 237 S / 60° R3,0

altezza height 237 mm
 angolo-degree 60° raggio-radius 3,0 mm
 42CrMo4 rettificato-grinding
 temprato ind.-induction hardened HRC 52/58
 lunghezze-lengths 515 mm - 550 fraz L



max 600 kN/mt

UST 237 D / 90° R0,6

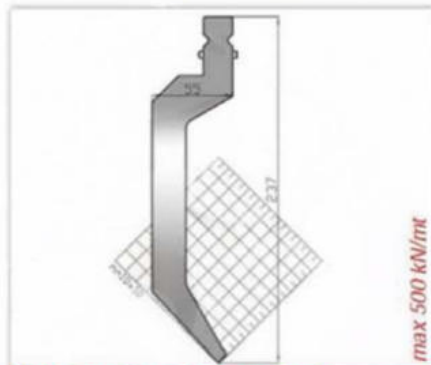
altezza height 237 mm
 angolo-degree 90° raggio-radius 0,6 mm
 42CrMo4 rettificato-grinding
 temprato ind.-induction hardened HRC 52/58
 lunghezze-lengths 515 mm - 550 fraz L



max 800 kN/mt

UST 237 D / 80° R1,0

altezza height 237 mm
 angolo-degree 80° raggio-radius 1,0 mm
 42CrMo4 rettificato-grinding
 temprato ind.-induction hardened HRC 52/58
 lunghezze-lengths 515 mm - 550 fraz L



max 500 kN/mt

UST 237 C / 86° R1,0

altezza height 237 mm
 angolo-degree 86° raggio-radius 1,0 mm
 42CrMo4 rettificato-grinding
 temprato ind.-induction hardened HRC 52/58
 lunghezze-lengths 515 mm - 550 fraz L





UST 28° R1,0/S

altezza-height 220 mm
angolo-degree 28° raggio-radius 1.0 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 500 mm - fraz A-B-C-L

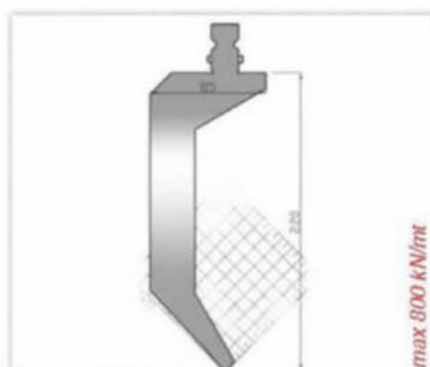
max 600 kN/mt



UST 86° R1,0/A

altezza-height 220 mm
angolo-degree 86° raggio-radius 1.0 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 500 mm - fraz A-B-C-L

max 800 kN/mt



UST 86° R1,0/S

altezza-height 220 mm
angolo-degree 86° raggio-radius 1.0 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 500 mm - fraz A-B-C-L

max 800 kN/mt



UST 28° R1,0/SP

altezza-height 240 mm
angolo-degree 28° raggio-radius 1.0 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 500 mm - fraz A-B-C-L

max 400 kN/mt



UST 60° R4,0/S

altezza-height 220 mm
angolo-degree 60° raggio-radius 4.0 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 500 mm - fraz A-B-C-L

max 1300 kN/mt



500 mm - 515 mm

attacco utensile con spine o pulsante
tool clamping with pins or push-button

frazionatura / sect. A

L.mm.	25	30	35	40	45	50	100 L	100 R	100	
1250	2	1	1	1	1	1	1	1	8	= 17 pz / pcs
2050	2	1	1	1	1	1	1	1	16	= 25 pz / pcs
2550	2	1	1	1	1	1	1	1	21	= 30 pz / pcs
3050	2	1	1	1	1	1	1	1	26	= 35 pz / pcs
4050	2	1	1	1	1	1	1	1	36	= 45 pz / pcs



pulsante
push-button

frazionatura / sect. B

L.mm.	25	30	35	40	45	50	100 L	100 R	100	200	300	
1250	2	1	1	1	1	1	1	1	1	2	1	= 13 pz / pcs
2050	2	1	1	1	1	1	1	1	1	3	3	= 16 pz / pcs
2550	2	1	1	1	1	1	1	1	1	4	4	= 18 pz / pcs
3050	2	1	1	1	1	1	1	1	1	5	5	= 20 pz / pcs
4050	2	1	1	1	1	1	1	1	1	7	7	= 24 pz / pcs

frazionatura / sect. C

L.mm.	25	30	35	40	45	50	
250	2	1	1	1	1	1	= 7 pz / pcs

frazionatura / sect. L

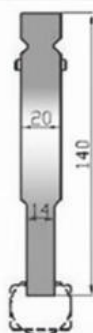
L.mm.	20	25	30	35	40	100 L	100 R	200	
550	1	1	1	1	1	1	1	1	= 8 pz / pcs

LUNGHEZZE - LENGTHS



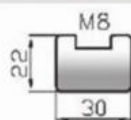
max 1000 kN/mt

UST 256 altezza-height 256 mm
raggio-radius min 8 mm - max 50 mm
C45 rettificato-grinding
lunghezze-lengths 830 mm - 412 mm



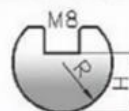
max 1000 kN/mt

UST 140 altezza-height 140 mm
raggio-radius min 8 mm - max 50 mm
C45 rettificato-grinding
lunghezze-lengths 830 mm - 412 mm



US 310
C45 rettificato-grinding
US 310 T
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm

4 fori/holes mm. 104-209...-104 = mm 835
2 fori/holes mm. 103-209...-103 = mm 415

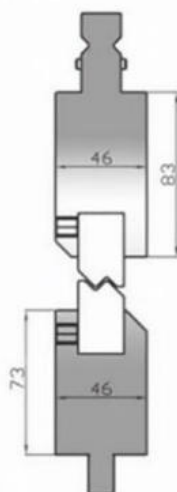


raggio-radius altezza-height

	raggio-radius	altezza-height
US 305/R 8	8	10 mm
US 305/R 9	9	10 mm
US 305/R 10	10	12 mm
US 305/R 12,5	12,5	17 mm
US 305/R 15	15	20 mm
US 305/R 17,5	17,5	22 mm
US 305/R 20	20	24 mm
US 305/R 22,5	22,5	25 mm
US 305/R 25	25	29 mm
US 305/R 27,5	27,5	34 mm
US 305/R 30	30	34 mm
US 305/R 35	35	45 mm
US 305/R 40	40	44 mm
US 305/R 45	45	50 mm
US 305/R 50	50	54 mm

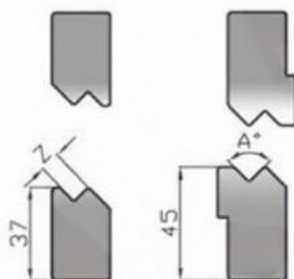
C45 rettificato-grinding

(N) 39NiCrMo3 NITRURATO rettificato-grinding
lunghezze-lengths 835 mm - 415 mm



max 1000 kN/mt

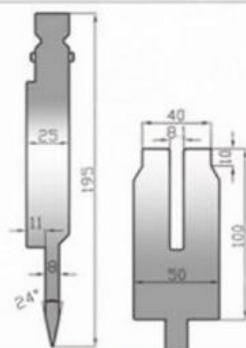
UST 130
C45 rettificato-grinding
lunghezze-lengths 835 mm - 415 mm



US 131 Z 1,0 - 12 mm
C45 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 835 mm - 415 mm

Z/A°	Z mm	A°	MAX spessore thickness	altezza height mm
US 131/ 1	1,0	160°	0,5 mm	37
US 131/1,5	1,5	160°	0,6 mm	37
US 131/ 2	2,0	150°	0,8 mm	37
US 131/2,5	2,5	140°	1,0 mm	37
US 131/ 3	3,0	90°	1,0 mm	37
US 131/3,5	3,5	90°	1,2 mm	37
US 131/ 4	4,0	90°	1,2 mm	37
US 131/4,5	4,5	90°	1,5 mm	37
US 131/ 5	5,0	90°	1,5 mm	37
US 131/5,5	5,5	90°	1,5 mm	37
US 131/ 6	6,0	90°	1,5 mm	37
US 131/6,5	6,5	90°	1,5 mm	37
US 131/ 7	7,0	90°	2,0 mm	37
US 131/7,5	7,5	90°	2,0 mm	37
US 131/ 8	8,0	90°	2,5 mm	37
US 131/ 9	9,0	90°	2,5 mm	45
US 131/10	10,0	90°	3,0 mm	45
US 131/11	11,0	90°	3,0 mm	45
US 131/12	12,0	90°	3,0 mm	45

20

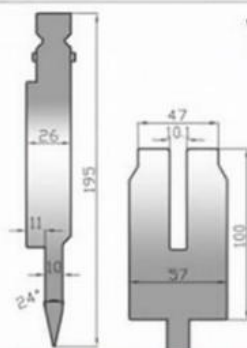


max 800 kN/mt

V8

max 500 kN/mt

UST 138 L8 + M8
altezza-height 195 - 100 mm
angolo-degree 24° raggio-radius 0,6 - 1,0 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 500 mm - 550 fraz

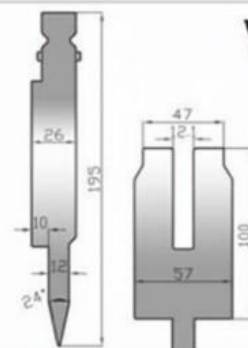


max 800 kN/mt

V10

max 500 kN/mt

UST 138 L10 + M10
altezza-height 195 - 100 mm
angolo-degree 24° raggio-radius 0,6 - 1,0 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 500 mm - 550 fraz



max 800 kN/mt

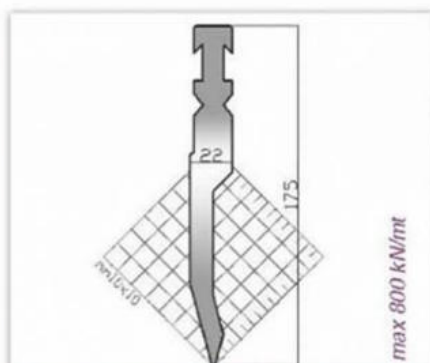
V12

max 500 kN/mt

UST 138 L12 + M12
altezza-height 195 - 100 mm
angolo-degree 24° raggio-radius 0,6 - 1,0 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 500 mm - 550 fraz

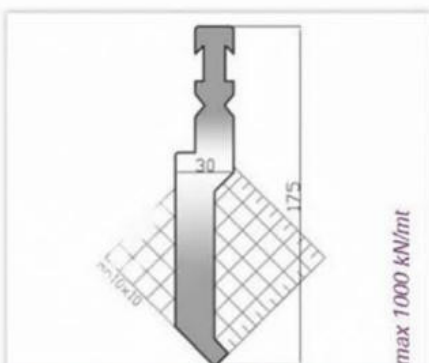
Si consiglia di utilizzare questi utensili su presse piegatrici sincronizzate in quanto occorre variare rapidamente la corsa della pressa tra la fase di piegatura e quella di schiacciatura. Non è possibile aumentare il raggio della matrice in quanto si potrebbero verificare deformazioni anomale della piega schiacciata.

We suggest to use these tools on synchronized press brakes as it is necessary to change quickly press stroke between bending and crushing position. It is not possible to increase lower tool radius because it would have some deformations on bend crushed.



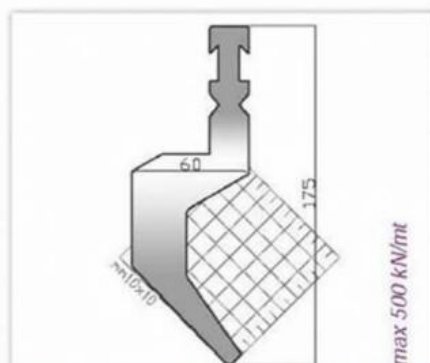
USB 175/30° R1 RFA

altezza-height 175 mm
angolo-degree 30° raggio-radius 1,0 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths mm 500-1000-1100 fraz



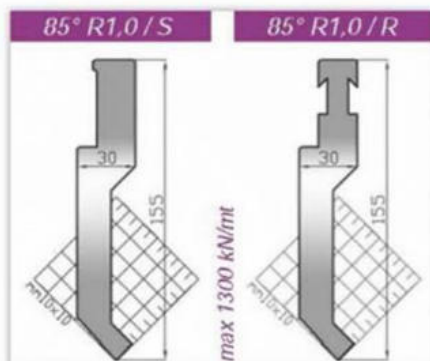
USB 175/88° D R1 RFA

altezza-height 175 mm
angolo-degree 88° raggio-radius 1,0 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths mm 500-1000-1100 fraz



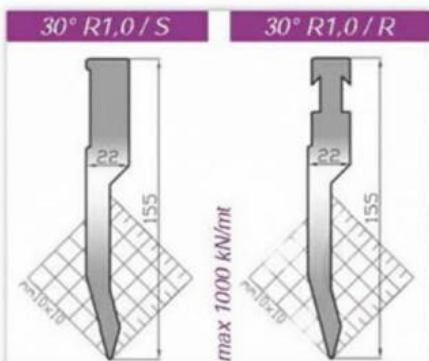
USB 175/88° C R1,5 RFA

altezza-height 175 mm
angolo-degree 88° raggio-radius 1,5 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths mm 500-1000-1100 fraz



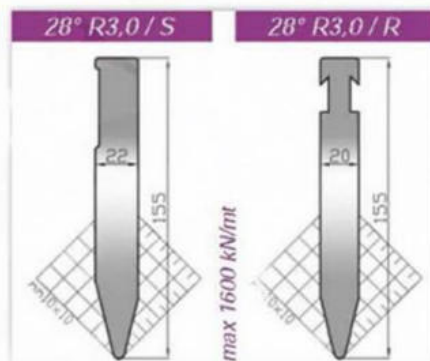
USB 155/85° D

altezza-height 155 mm
angolo-degree 85° raggio-radius 1,0 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths mm 500-1000-1100 fraz



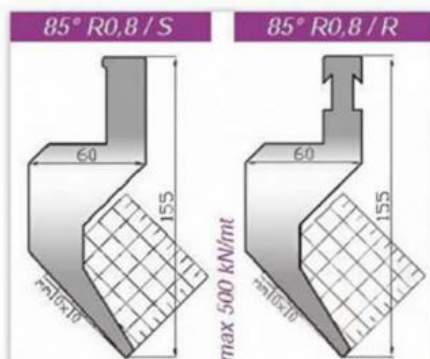
USB 155/30°

altezza-height 155 mm
angolo-degree 30° raggio-radius 1,0 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths mm 500-1000-1100 fraz



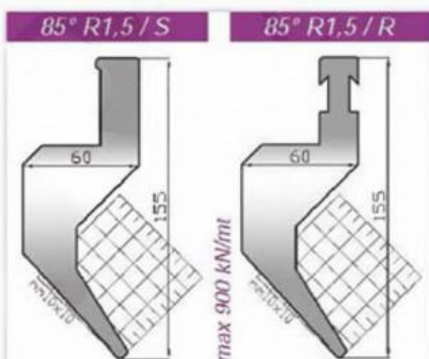
USB 155/28°

altezza-height 155 mm
angolo-degree 28° raggio-radius 3,0 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths mm 500-1000-1100 fraz



USB 155/85° C

altezza-height 155 mm
angolo-degree 85° raggio-radius 0,8 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths mm 500-1000-1100 fraz



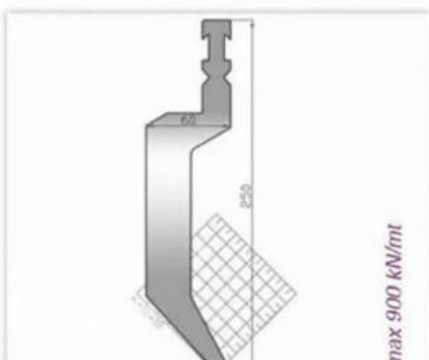
USB 155/85° C

altezza-height 155 mm
angolo-degree 85° raggio-radius 1,5 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths mm 500-1000-1100 fraz



USB 250/26° R1,0 RFA

altezza-height 250 mm
angolo-degree 26° raggio-radius 1,0 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths mm 508-1100 fraz



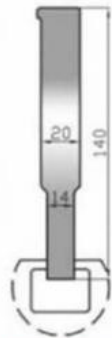
USB 250/85° R1,5 RFA

altezza-height 250 mm
angolo-degree 85° raggio-radius 1,5 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths mm 508-1100 fraz

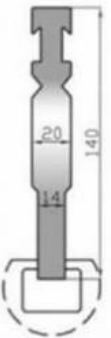
500 mm
1000 mm
1100 mm fraz
mm 10-15-20-30-40-50-60
75-100-200-300-100sx-100dx
LUNGHEZZE - LENGTHS



508 mm
1100 mm fraz
mm 10-15-20-30-50-300-375
100dx-200sx
LUNGHEZZE - LENGTHS



USB 140/S



USB 140/R

max 1000 kN/mt

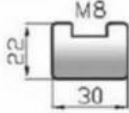
USB 140

altezza-height 140 mm

raggio-radius min 8 mm - max 50 mm

C45 rettificato-grinding

lunghezze-lengths 830 mm - 412 mm



US 310

C45 rettificato-grinding

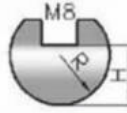
US 310 T

C45 rettificato-grinding

temprato ind.-induction hardened HRC 52/58

lunghezze-lengths 835 mm - 415 mm

4 fori/holes mm. 104-209...-104 = mm 835
2 fori/holes mm. 103-209...-103 = mm 415

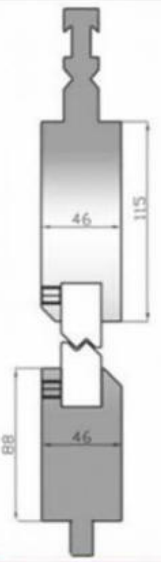


	raggio-radius	altezza-height
US 305/R 8	8	10 mm
US 305/R 9	9	10 mm
US 305/R 10	10	12 mm
US 305/R 12,5	12,5	17 mm
US 305/R 15	15	20 mm
US 305/R 17,5	17,5	22 mm
US 305/R 20	20	24 mm
US 305/R 22,5	22,5	25 mm
US 305/R 25	25	29 mm
US 305/R 27,5	27,5	34 mm
US 305/R 30	30	34 mm
US 305/R 35	35	45 mm
US 305/R 40	40	44 mm
US 305/R 45	45	50 mm
US 305/R 50	50	54 mm

C45 rettificato-grinding

(N) 39NiCrMo3 NITRURATO rettificato-grinding

lunghezze-lengths 835 mm - 415 mm

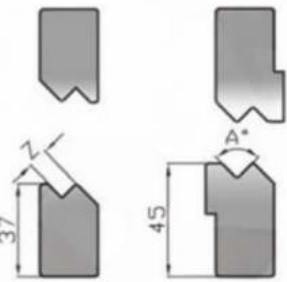


max 1000 kN/mt

USB 130

C45 rettificato-grinding

lunghezze-lengths 835 mm - 415 mm



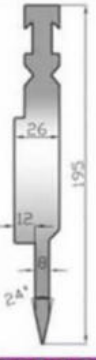
US 131 Z 1,0 - 12 mm

C45 rettificato-grinding

temprato ind.-induction hardened HRC 52/58

lunghezze-lengths 835 mm - 415 mm

	Z mm	A°	MAX spessore thickness	altezza height mm
US 131/ 1	1,0	160°	0,5 mm	37
US 131/1,5	1,5	160°	0,6 mm	37
US 131/ 2	2,0	150°	0,8 mm	37
US 131/2,5	2,5	140°	1,0 mm	37
US 131/ 3	3,0	90°	1,0 mm	37
US 131/3,5	3,5	90°	1,2 mm	37
US 131/ 4	4,0	90°	1,2 mm	37
US 131/4,5	4,5	90°	1,5 mm	37
US 131/ 5	5,0	90°	1,5 mm	37
US 131/5,5	5,5	90°	1,5 mm	37
US 131/ 6	6,0	90°	1,5 mm	37
US 131/6,5	6,5	90°	1,5 mm	37
US 131/ 7	7,0	90°	2,0 mm	37
US 131/7,5	7,5	90°	2,0 mm	37
US 131/ 8	8,0	90°	2,5 mm	37
US 131/ 9	9,0	90°	2,5 mm	45
US 131/10	10,0	90°	3,0 mm	45
US 131/11	11,0	90°	3,0 mm	45
US 131/12	12,0	90°	3,0 mm	45



V8



V10

max 500 kN/mt

USB 138 L8 + M8

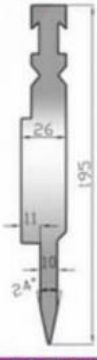
altezza-height 195 - 100 mm

angolo-degree 24° raggio-radius 0,6 - 1,0 mm

42CrMo4 rettificato-grinding

temprato ind.-induction hardened HRC 52/58

lunghezze-lengths 500 mm - 550 fraz



V10

max 500 kN/mt

USB 138 L10 + M10

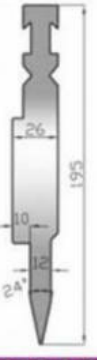
altezza-height 195 - 100 mm

angolo-degree 24° raggio-radius 0,6 - 1,0 mm

42CrMo4 rettificato-grinding

temprato ind.-induction hardened HRC 52/58

lunghezze-lengths 500 mm - 550 fraz



V12

max 500 kN/mt

USB 138 L12 + M12

altezza-height 195 - 100 mm

angolo-degree 24° raggio-radius 0,6 - 1,0 mm

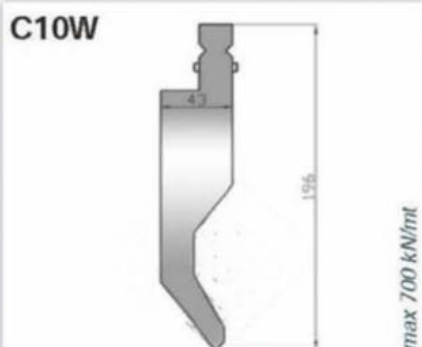
42CrMo4 rettificato-grinding

temprato ind.-induction hardened HRC 52/58

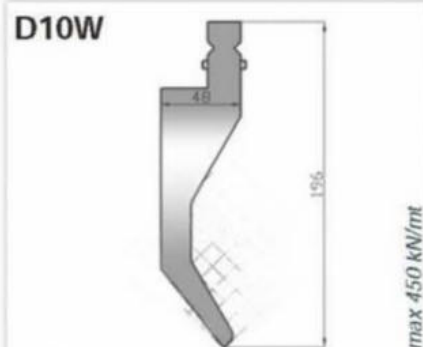
lunghezze-lengths 500 mm - 550 fraz

Si consiglia di utilizzare questi utensili su presse piegatrici sincronizzate in quanto occorre variare rapidamente la corsa della pressa tra la fase di piegatura e quella di schiacciatura. Non è possibile aumentare il raggio della matrice in quanto si potrebbero verificare deformazioni anomale della piega schiacciata.

We suggest to use these tools on synchronized press brakes as it is necessary to change quickly press stroke between bending and crushing position. It is not possible to increase lower tool radius because it would have some deformations on bend crushed.



C10W
USL 196/78° AW R1,0
altezza-height 196 mm
angolo-degree 78° raggio-radius 1,0 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 508 mm - 500 / 550 fraz



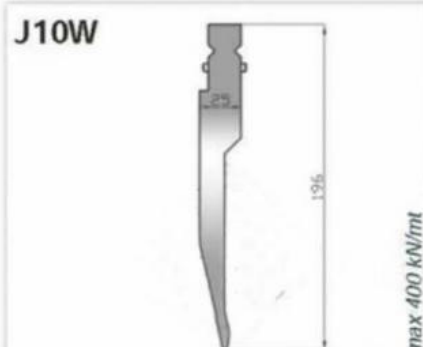
D10W
USL 196/78° BW R1,0
altezza-height 196 mm
angolo-degree 78° raggio-radius 1,0 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 508 mm - 500 / 550 fraz



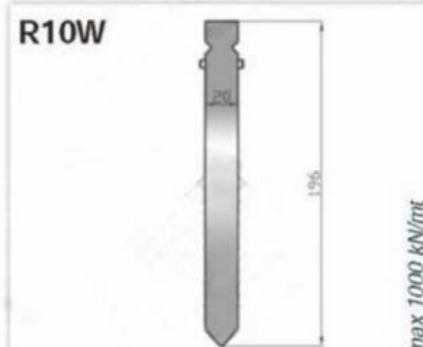
E10W
USL 196/78° CW R1,0
altezza-height 196 mm
angolo-degree 78° raggio-radius 1,0 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 508 mm - 500 / 550 fraz



F10W
USL 196/26° EW R1,0
altezza-height 196 mm
angolo-degree 26° raggio-radius 1,0 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 508 mm - 500 / 550 fraz



J10W
USL 196/26° FW R1,0
altezza-height 196 mm
angolo-degree 26° raggio-radius 1,0 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 508 mm - 500 / 550 fraz



R10W
USL 196/78° DW R2,0
altezza-height 196 mm
angolo-degree 78° raggio-radius 2,0 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 508 mm - 500 / 550 fraz



C15W
USL 231/78° AW R2,0
altezza-height 231 mm
angolo-degree 78° raggio-radius 2,0 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 508 mm - 500 / 550 fraz



D15W
USL 231/78° BW R2,0
altezza-height 231 mm
angolo-degree 78° raggio-radius 2,0 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 508 mm - 500 / 550 fraz



E15W
USL 231/78° CW R2,0
altezza-height 231 mm
angolo-degree 78° raggio-radius 2,0 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 508 mm - 500 / 550 fraz



F15W
USL 231/26° EW R2,0
altezza-height 231 mm
angolo-degree 26° raggio-radius 2,0 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 508 mm - 500 / 550 fraz

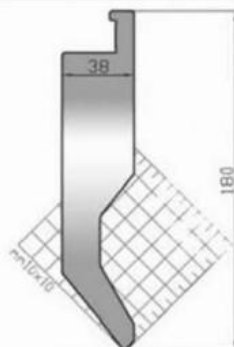


J15W
USL 231/26° FW R2,0
altezza-height 231 mm
angolo-degree 26° raggio-radius 2,0 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 508 mm - 500 / 550 fraz



R15W
USL 231/78° DW R3,0
altezza-height 231 mm
angolo-degree 78° raggio-radius 3,0 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 508 mm - 500 / 550 fraz

C10

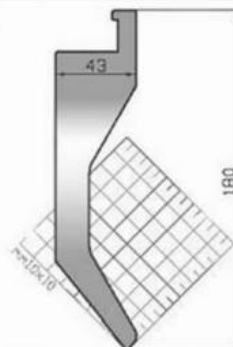


max 700 kN/mt

USL 180/78° A R1,0

altezza-height 180 mm
angolo-degree 78° raggio-radius 1,0 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 508 mm - 500 / 550 fraz

D10

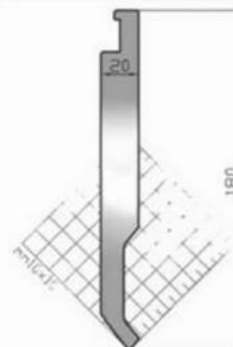


max 450 kN/mt

USL 180/78° B R1,0

altezza-height 180 mm
angolo-degree 78° raggio-radius 1,0 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 508 mm - 500 / 550 fraz

E10

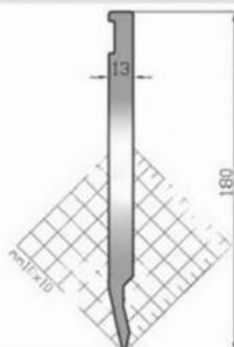


max 500 kN/mt

USL 180/78° C R1,0

altezza-height 180 mm
angolo-degree 78° raggio-radius 1,0 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 508 mm - 500 / 550 fraz

F10

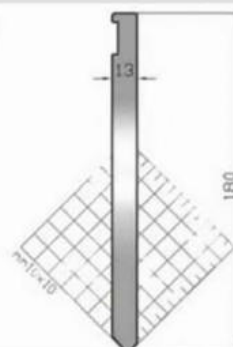


max 500 kN/mt

USL 180/26° E R1,0

altezza-height 180 mm
angolo-degree 26° raggio-radius 1,0 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 508 mm - 500 / 550 fraz

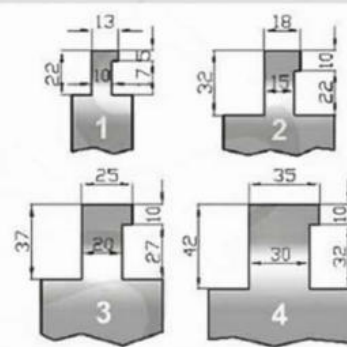
R10



max 1000 kN/mt

USL 180/78° D R2,0

altezza-height 180 mm
angolo-degree 78° raggio-radius 2,0 mm
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths 508 mm - 500 / 550 fraz



ATTACCHI-CLAMPINGS

utensili tipo - tools type
C10 D10 E10 F10 R10

508 mm

attacco utensile con spine o pulsante
tool clamping with pins or push-button

500 fraz
mm 250-250

550 fraz
mm 25-30-35-40-45-50-125-100sx-100dx

LUNGHEZZE - LENGTHS



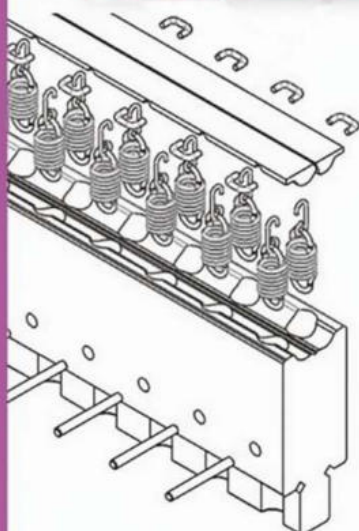
pulsante
push-button



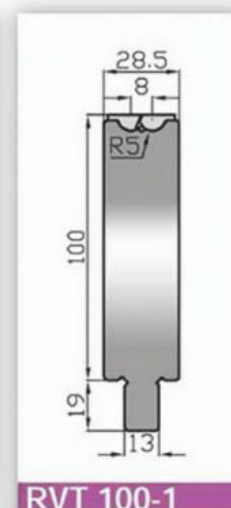
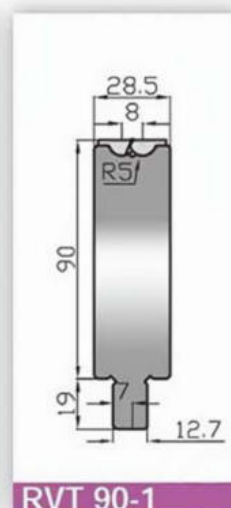
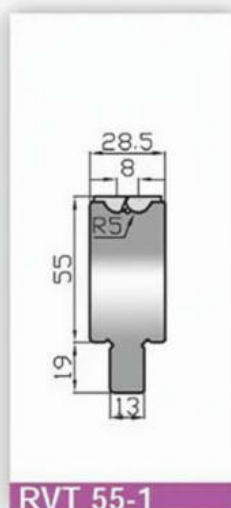
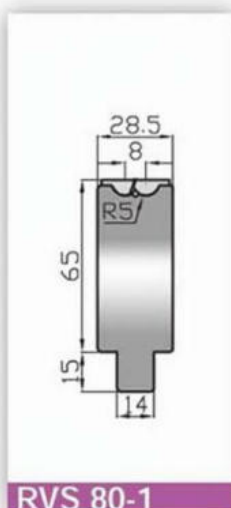
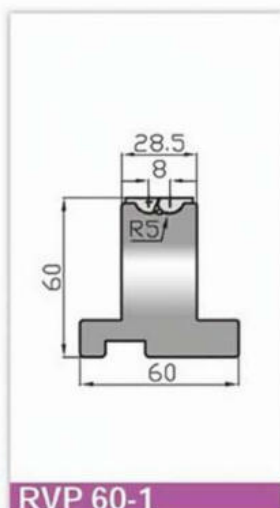
tipo LVD type

24

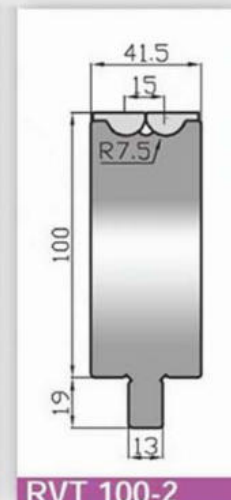
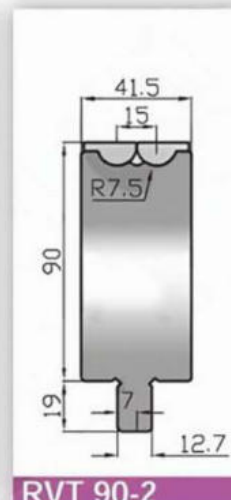
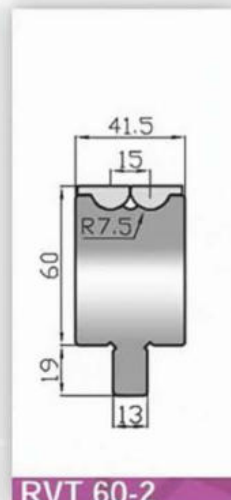
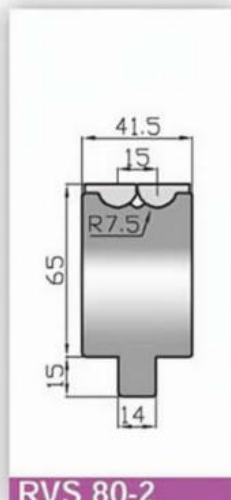
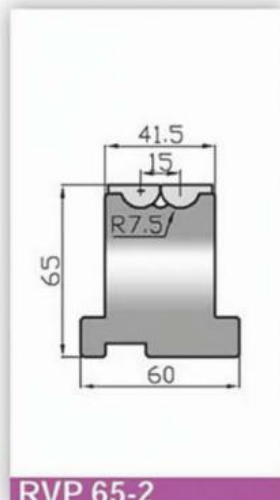
serie USL
utensili superiori - upper tools



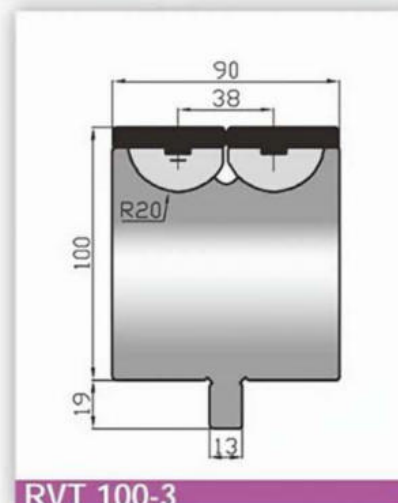
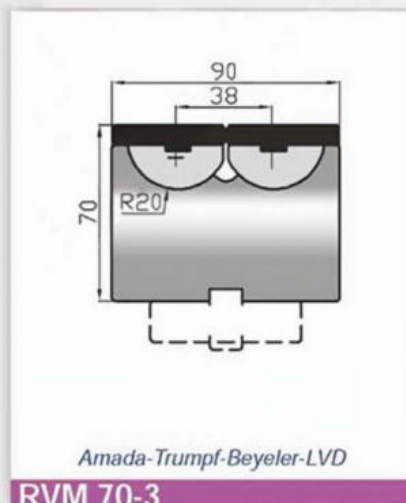
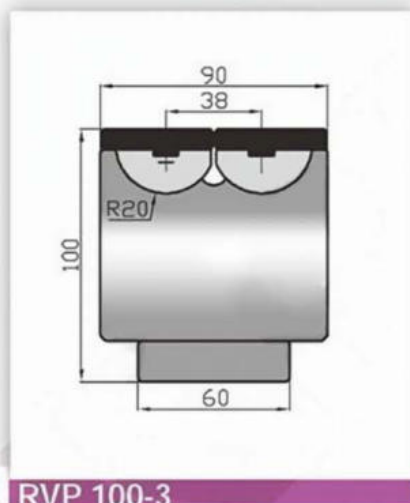
type 1 (rel.7)



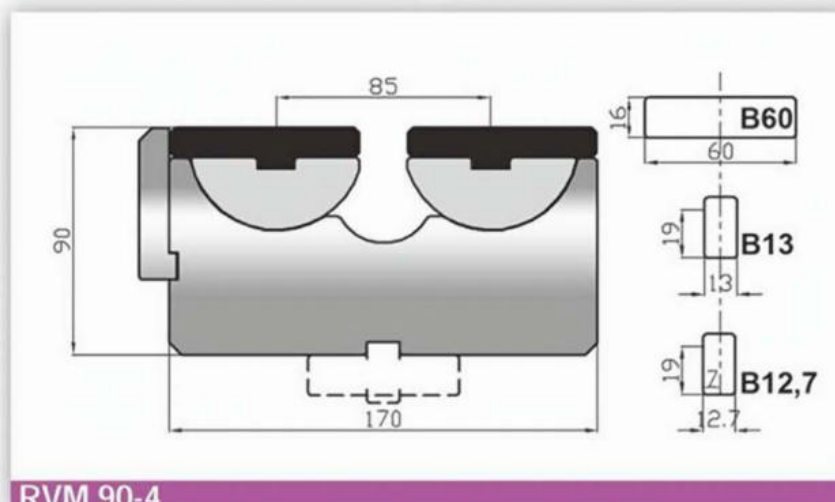
type 2 (rel.2)

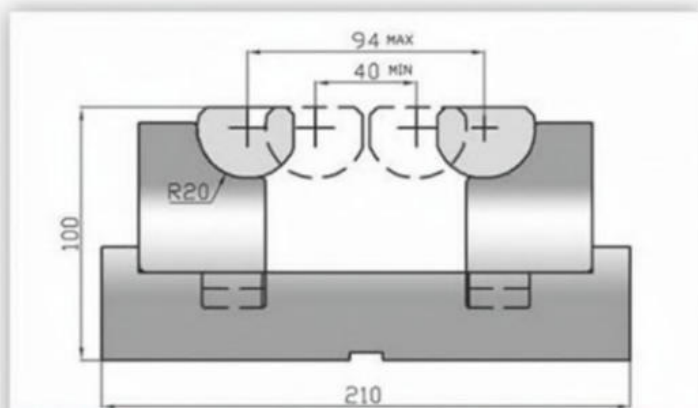


type 3 (rel.2)

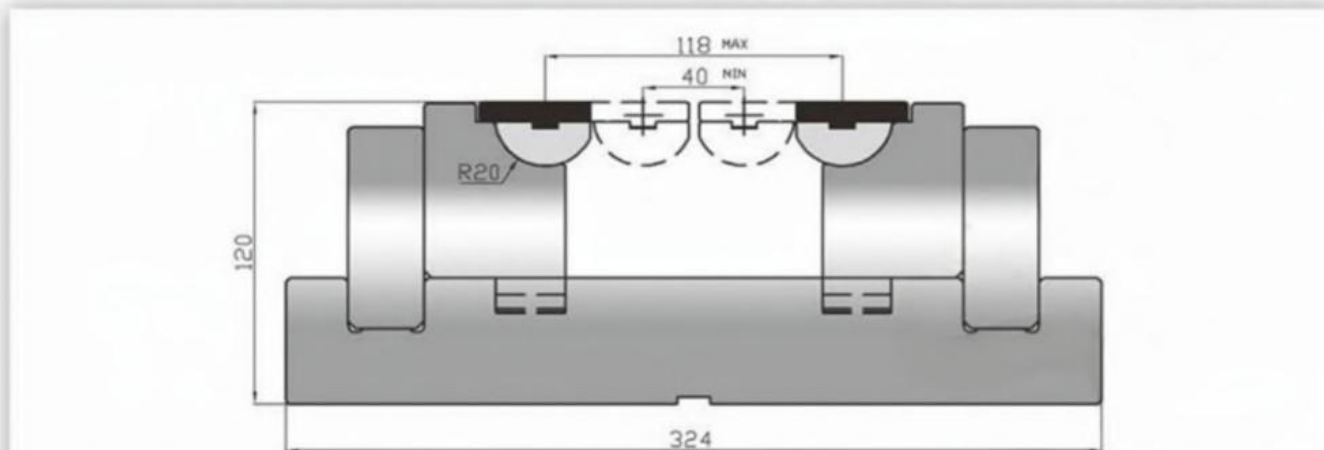


type 4 (rel.2)

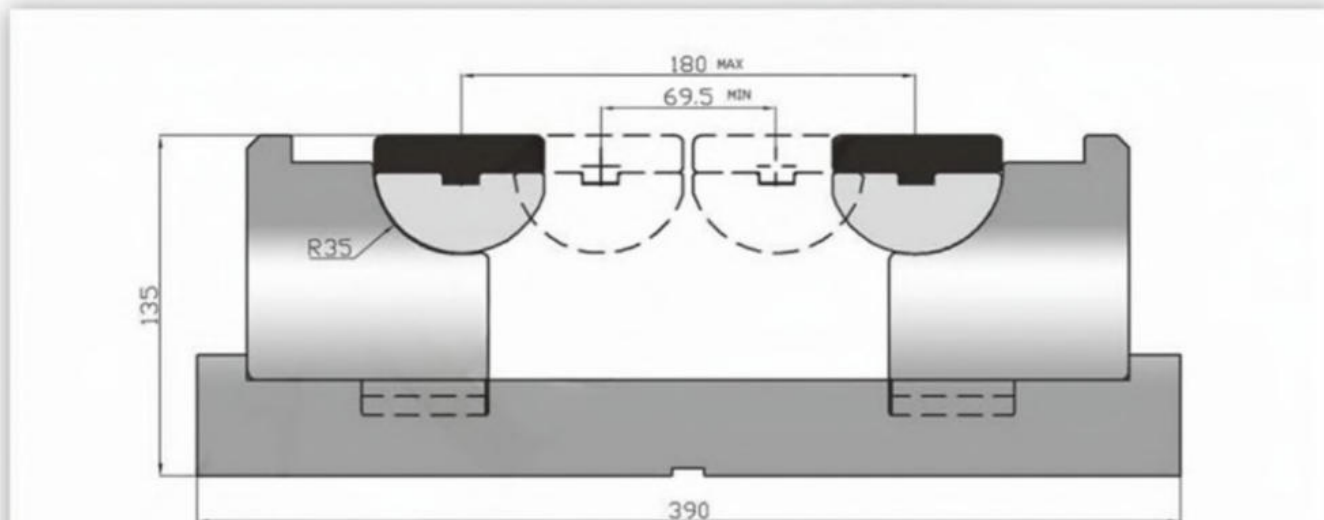




RVPV3 V regolabile - adjustable V

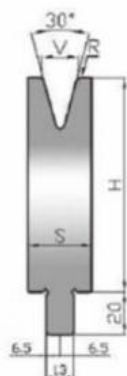


RVHD3 V regolabile - adjustable V

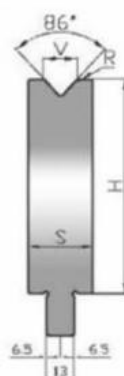


RVPV4 V regolabile - adjustable V

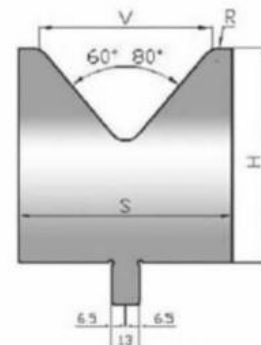
tipo - type	V mm	max thickness mm	spessore thickness mm	bordo flange min. mm	forza force kN/m	angolo angle min.	carico load max kN/m	lunghezze- lengths
type 1 (rel.7)	8	1,5	0,7	3,0	60	40°	1000	500 mm
			1,0	3,9	110	35°	1000	440 mm
			1,5	4,2	260	35°	1000	fraz 15-20-25-30-50-100-200
type 2 (rel.2)	15	3,0	2,0	8,5	200	59°	1500	500 mm
			3,0	9,3	460	46°	1500	450 mm
			3,2	9,3	550	47°	1500	fraz 20-25-30-35-40-100-200
type 3 (rel.2)	38	6,0	4	22,5	270	47°	2500	500 mm
			6	22,5	800	50°	2500	455 mm
type 4 (rel.2)	85	12,0	6	56,6	260	78°	3000	500 mm
			8	56,6	500	76°	3000	200 mm
			12	56,6	1290	73°	3000	200 mm
RVPV3			V 40 - 94 mm				2500	500 mm
RVHD3			V 40 - 118 mm				3500	500 mm
RVPV4			V 69,5 - 180 mm				3000	200 mm



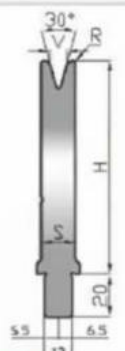
30°	V	R	H	S	kN/ml
	mm	mm	mm	mm	max
UST100N/30°V06	6	0,6	100	20	400
UST100N/30°V08	8	1,0	100	20	400
UST100N/30°V10	10	1,0	100	20	400
UST100N/30°V12	12	1,0	100	25	400
UST100N/30°V16	16	1,6	100	30	500
UST100N/30°V20	20	2,0	100	35	600
UST100N/30°V24	24	2,5	100	40	650
UST100N/30°V30	30	3,0	100	55	900
UST100N/30°V40	40	5,0	100	60	900
UST150N/30°V06	6	0,6	150	20	400
UST150N/30°V08	8	1,0	150	20	400
UST150N/30°V10	10	1,0	150	20	400
UST150N/30°V12	12	1,0	150	25	400
UST150N/30°V16	16	1,6	150	30	500
UST150N/30°V20	20	2,0	150	35	600
UST150N/30°V24	24	2,5	150	40	650
UST150N/30°V30	30	3,0	150	55	900
UST150N/30°V40	40	5,0	150	60	900
altezza-height					100-150 mm
angolo-degree					30°
42CrMo4 rettificato-grinding					
temprato ind.-induction hardened HRC 52/58					
lunghezze-lengths 500 mm - fraz. A-B-C-M					



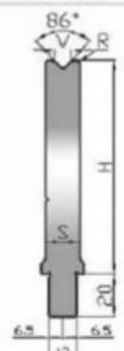
86°	V	R	H	S	kN/ml
	mm	mm	mm	mm	max
UST100N-S/86°V4	4	0,6	100	8	250
UST100N/86°V06	6	0,6	100	20	1200
UST100N/86°V08	8	0,8	100	20	1150
UST100N/86°V10	10	1,0	100	20	1100
UST100N/86°V12	12	1,0	100	25	1200
UST100N/86°V16	16	1,6	100	30	1200
UST100N/86°V20	20	2,0	100	30	1150
UST100N/86°V24	24	2,5	100	35	1200
UST100N/86°V30	30	3,0	100	45	1200
UST100N/86°V40	40	3,0	100	55	1200
UST100N/86°V50	50	3,0	100	75	1500
UST150N/86°V06	6	1,6	150	20	1200
UST150N/86°V08	8	2,0	150	20	1150
UST150N/86°V10	10	2,5	150	20	1100
UST150N/86°V12	12	3,0	150	25	1200
UST150N/86°V16	16	3,0	150	30	1200
UST150N/86°V20	20	3,0	150	30	1150
altezza-height					100-150 mm
angolo-degree					86°
42CrMo4 rettificato-grinding					
temprato ind.-induction hardened HRC 52/58					
lunghezze-lengths 500 mm - fraz. A-B-C-M					



80° - 60°	V	R	H	S	kN/ml
	mm	mm	mm	mm	max
UST150N/80°V24	24	2,0	150	35	1000
UST150N/80°V30	30	5,0	150	45	900
UST150N/80°V40	40	5,0	150	55	1200
UST150N/80°V50	50	5,0	150	75	1500
UST100N/80°V60	60	5,0	100	75	1500
UST100N/80°V70	70	5,0	100	85	1500
UST100N/80°V80	80	5,0	100	100	1500
UST120N/80°V90	90	8,0	120	110	1500
UST120N/80°V100	100	8,0	120	120	1500
UST120N/60°V120	120	8,0	120	145	1000
altezza-height					100-120-150 mm
angolo-degree					80° - 60°
42CrMo4 rettificato-grinding					
temprato ind.-induction hardened HRC 52/58					
lunghezze-lengths 500 mm - fraz. A-B-C-M					



30°	V	R	H	S	kN/ml
	mm	mm	mm	mm	max
UST100N-S/30°V06	6	2,0	100	16	400
UST100N-S/30°V08	8	2,5	100	16	400
UST100N-S/30°V10	10	2,5	100	20	400
UST100N-S/30°V12	12	3,0	100	20	400
altezza-height					100 mm
angolo-degree					30°
42CrMo4 rettificato-grinding					
temprato ind.-induction hardened HRC 52/58					
lunghezze-lengths 515 mm - 550 fraz. M					



86°	V	R	H	S	kN/ml
	mm	mm	mm	mm	max
UST100N-S/86°V08	8	2,5	100	16	400
UST100N-S/86°V12	12	2,5	100	20	500
altezza-height					100 mm
angolo-degree					86°
42CrMo4 rettificato-grinding					
temprato ind.-induction hardened HRC 52/58					
lunghezze-lengths 515 mm - 550 fraz. M					



LUNGHEZZE-LENGTHS

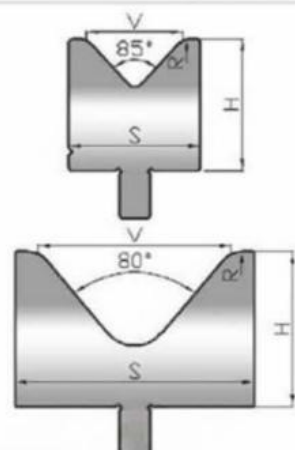
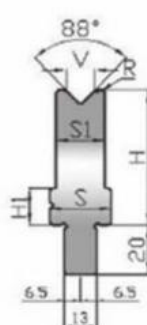
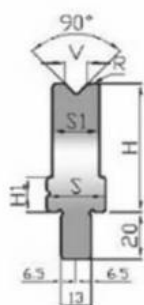
500 mm - frazionatura/sect. A - B - C - M

frazionatura/sect. A									
L.mm.	25	30	35	40	45	50	100		
1250	2	1	1	1	1	1	10	=17	
2050	2	1	1	1	1	1	18	=25	
2550	2	1	1	1	1	1	23	=30	
3050	2	1	1	1	1	1	28	=35	
4050	2	1	1	1	1	1	38	=45	

frazionatura/sect. B									
L.mm.	25	30	35	40	45	50	100	200	300
1250	2	1	1	1	1	1	3	2	1
2050	2	1	1	1	1	1	3	1	1
2550	2	1	1	1	1	1	3	1	1
3050	2	1	1	1	1	1	3	1	1
4050	2	1	1	1	1	1	3	1	1

frazionatura/sect. C									
L.mm.	25	30	35	40	45	50			
250	2	1	1	1	1	1			= 7

frazionatura/sect. M									
L.mm.	20	25	30	35	40	100	200		
550	1	1	1	1	1	2	1	= 8	



90°	V	R	H-H1	S-S1	kN/mt
USB55/90°V06	6	0,4	55-15	25-15	1150
USB55/90°V08	8	0,5	55-15	25-15	1100
USB55/90°V10	10	1,0	55-15	25-20	1100
USB55/90°V12	12	1,5	55-15	25-20	1200
USB55/90°V16	16	2,0	55	30	1200

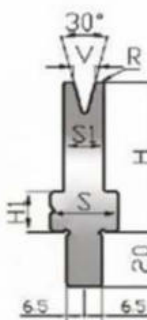
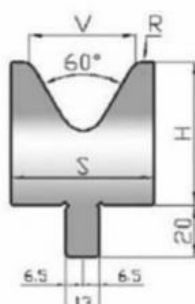
altezza-height 55 mm
angolo-degree 90°
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths mm 500-1000-1100 fraz

88°	V	R	H-H1	S-S1	kN/mt
USB55/88°V10	10	1,0	55-15	25-20	1100
USB55/88°V12	12	1,5	55-15	25-20	1200
USB55/88°V16	16	2,0	55	30	1200
USB55/88°V20	20	2,0	55	30	1100
USB55/88°V24	24	3,0	55	40	1200

altezza-height 55 mm
angolo-degree 88°
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths mm 500-1000-1100 fraz

85°-80°	V	R	H	S	kN/mt
USB55/85°V32	32	4,0	55	50	1200
USB55/85°V40	40	4,0	55	55	1200
USB65/80°V80	80	10	65	100	1700
USB85/80°V100	100	12	85	125	2300

altezza-height 55-65-85 mm
angolo-degree 85°-80°
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths mm 500-1000-1100 fraz



60°	V	R	H	S	kN/mt
USB55/60°V40	40	5,0	55	55	1300
USB55/60°V50	50	5,0	55	70	1200
USB65/60°V60	60	7,0	65	80	1100

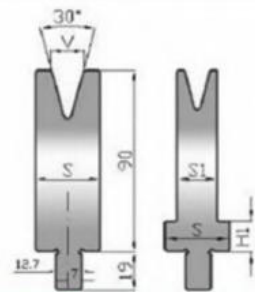
altezza-height 55-65 mm
angolo-degree 60°
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths mm 500-1000-1100 fraz

30°	V	R	H-H1	S-S1	kN/mt
USB55/30°V06	6	0,6	55-15	25-15	350
USB55/30°V08	8	0,8	55-15	25-15	200
USB70/30°V08	8	0,7	70-15	25-20	200
USB55/30°V10	10	1,0	55-15	25-20	350
USB70/30°V10	10	1,0	70-15	25-20	350
USB55/30°V12	12	1,5	55-15	25-20	300
USB70/30°V12	12	1,5	70	25-25	300
USB55/30°V16	16	2,0	55	30-30	450
USB70/30°V16	16	2,0	70	30-30	450
USB55/30°V20	20	2,5	55	35-35	500
USB55/30°V24	24	3,0	55	40-40	550
USB60/30°V32	32	4,0	60	60-60	650

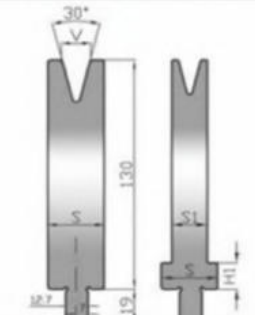
altezza-height 55-60-70 mm
angolo-degree 30°
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58
lunghezze-lengths mm 500-1000-1100 fraz



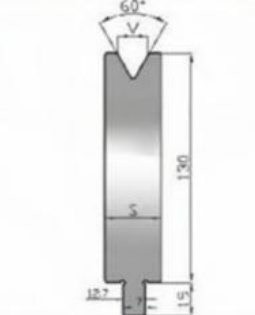
500 mm - 1000 mm
1100 mm fraz 10-15-20-30-40-50-60-75-100-100-200-400
LUNGHEZZE-LENGTHS



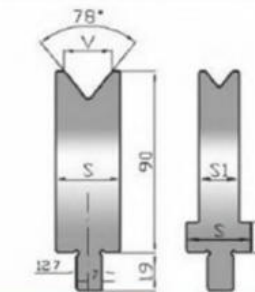
30°	V	R	H-H1	S-S1	kN/mi
	mm	mm	mm	mm	max
USL109/30°V06	6	0,8	90-15	32-16	200
USL109/30°V08	8	1,0	90-15	32-18	220
USL109/30°V10	10	1,2	90-15	32-25	300
USL109/30°V12	12	1,6	90	32	380
USL109/30°V16	16	3,0	90	32	380
USL109/30°V20	20	3,0	90	40	380
USL109/30°V24	24	3,0	90	50	550
altezza-height					90 mm
angolo-degree					30°
42CrMo4 rettificato-grinding					
temprato ind.-induction hardened HRC 52/58					
lunghezze-lengths					
508 mm - 500 / 550 fraz					



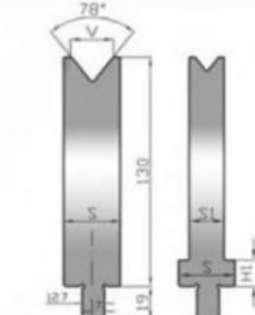
30°	V	R	H-H1	S-S1	kN/mi
	mm	mm	mm	mm	max
USL149/30°V06	6	0,8	130-15	32-16	200
USL149/30°V08	8	1,0	130-15	32-18	220
USL149/30°V10	10	1,2	130-15	32-25	300
USL149/30°V12	12	1,6	130	32	380
USL149/30°V16	16	3,0	130	40	380
USL149/30°V20	20	3,0	130	40	380
altezza-height					130 mm
angolo-degree					30°
42CrMo4 rettificato-grinding					
temprato ind.-induction hardened HRC 52/58					
lunghezze-lengths					
508 mm - 500 / 550 fraz					



60°	V	R	H-H1	S-S1	kN/mi
	mm	mm	mm	mm	max
USL149/60°V30	30		130	40	500
USL149/60°V40	40		130	55	660
USL149/60°V50	50		130	70	1050
USL149/60°V60	60		130	80	1200
USL149/60°V80	80		130	102	1750
USL149/60°V100	100		130	120	1600
USL149/60°V120	120		130	145	1300
altezza-height					130 mm
angolo-degree					60°
42CrMo4 rettificato-grinding					
temprato ind.-induction hardened HRC 52/58					
lunghezze-lengths					
508 mm - 500 / 550 fraz					



78°	V	R	H-H1	S-S1	kN/mi
	mm	mm	mm	mm	max
USL109/78°V06	6	1,0	90-15	32-12	400
USL109/78°V08	8	1,0	90-15	32-12	400
USL109/78°V10	10	1,0	90-15	32-14	500
USL109/78°V12	12	2,0	90-15	32-18	600
USL109/78°V16	16	2,5	90-15	32-25	800
USL109/78°V20	20	3,0	90	32	1000
USL109/78°V24	24	3,0	90	32	1000
USL109/78°V30	30	3,0	90	40	1100
USL109/78°V40	40	4,0	90	50	1300
USL109/78°V50	50	4,0	90	60	1500
USL109/78°V60	60	4,0	90	70	1500
USL109/78°V80	80	5,0	90	90	1500
USL109/78°V100	100	8,0	90	120	1200
altezza-height					90 mm
angolo-degree					78°
42CrMo4 rettificato-grinding					
temprato ind.-induction hardened HRC 52/58					
lunghezze-lengths					
508 mm - 500 / 550 fraz					



78°	V	R	H-H1	S-S1	kN/mi
	mm	mm	mm	mm	max
USL149/78°V06	6	1,0	130-15	32-12	400
USL149/78°V08	8	1,0	130-15	32-12	400
USL149/78°V10	10	1,0	130-15	32-14	500
USL149/78°V12	12	2,0	130-15	32-18	600
USL149/78°V16	16	2,5	130-15	32-25	800
USL149/78°V20	20	3,0	130	32	1000
USL149/78°V24	24	3,0	130	32	1000
USL149/78°V30	30	3,0	130	40	1100
USL149/78°V40	40	4,0	130	50	1300
USL149/78°V50	50	4,0	130	70	1500
USL149/78°V60	60	4,0	130	70	1500
USL149/78°V80	80	5,0	130	95	1500
altezza-height					130 mm
angolo-degree					78°
42CrMo4 rettificato-grinding					
temprato ind.-induction hardened HRC 52/58					
lunghezze-lengths					
508 mm - 500 / 550 fraz					

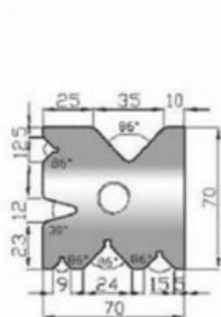
508 mm

500 fraz mm 250-250

550 fraz mm 25-25-30-35-40-45-50-100-200

LUNGHEZZE-LENGTHS

kN 300 - 600



USH M70

USH 168/A

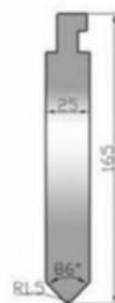
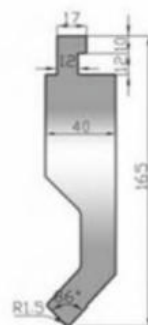
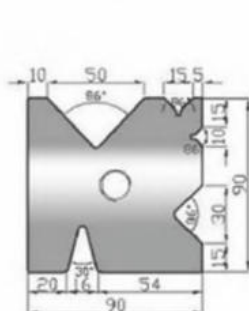
USH 168/B

USH 168/C

USH 168/D

USH 168/E

kN 800 - 1350



USH M90

USH 165/A

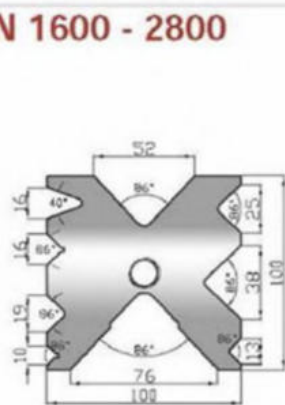
USH 165/B

USH 165/C

USH 165/D

USH 165/E

kN 1600 - 2800



USH M100

USH 240/A

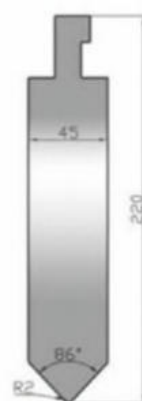
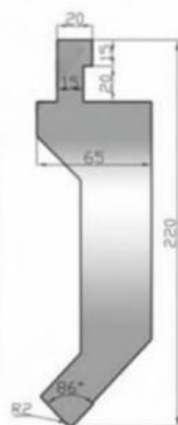
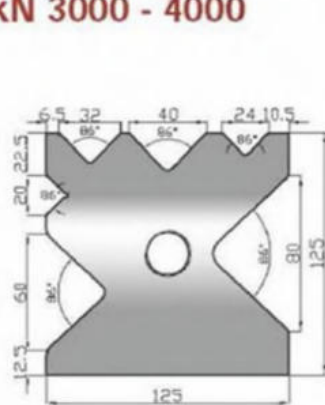
USH 240/B

USH 240/C

USH 240/D

USH 240/E

kN 3000 - 4000



USH M125

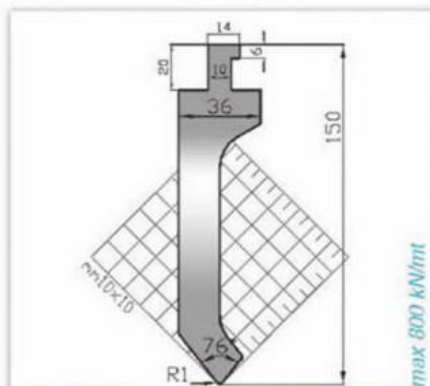
USH 220/A

USH 220/B

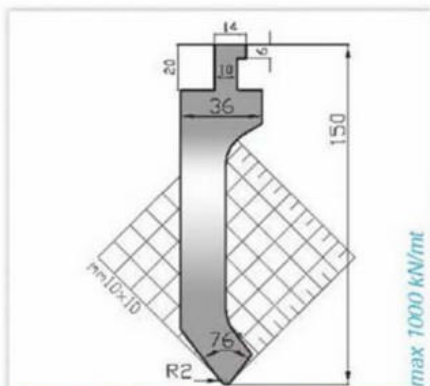
USH 220/C

USH 220/D

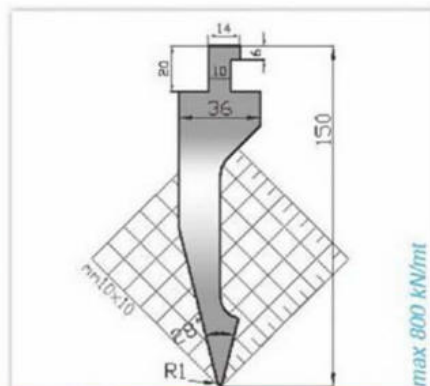
USH 220/E



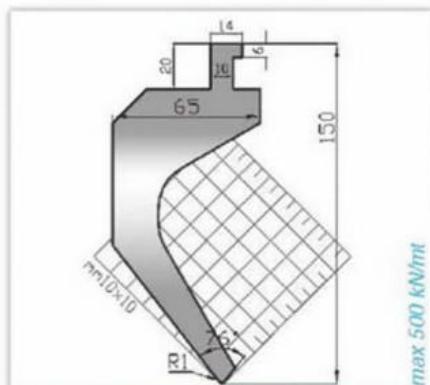
USN-PN-160 150x36 mm
 altezza-height 130 mm
 angolo-degree 76° raggio-radius 1.0 mm
 42CrMo4 rettificato-grinding
 temprato ind.-induction hardened HRC 52/58



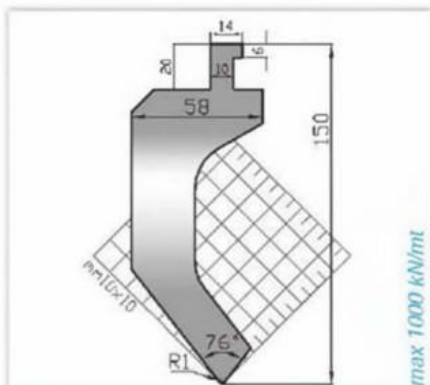
USN-PN-165 150x36 mm
 altezza-height 130 mm
 angolo-degree 76° raggio-radius 2.0 mm
 42CrMo4 rettificato-grinding
 temprato ind.-induction hardened HRC 52/58



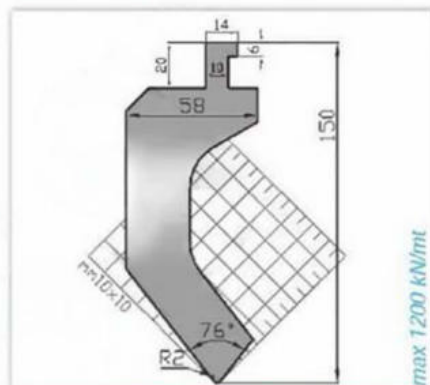
USN-PN-150 150x36 mm
 altezza-height 130 mm
 angolo-degree 28° raggio-radius 1.0 mm
 42CrMo4 rettificato-grinding
 temprato ind.-induction hardened HRC 52/58



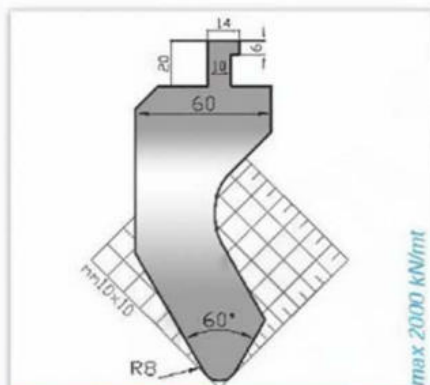
USN-PN-190 150x65 mm
 altezza-height 130 mm
 angolo-degree 76° raggio-radius 1.0 mm
 42CrMo4 rettificato-grinding
 temprato ind.-induction hardened HRC 52/58



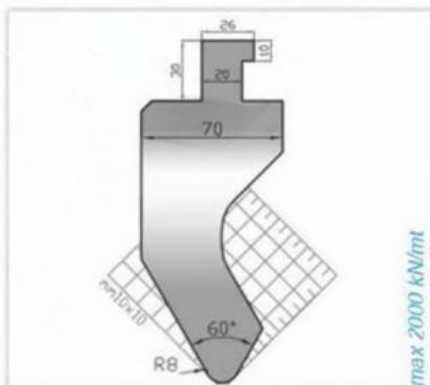
USN-PN-140 150x58 mm
 altezza-height 130 mm
 angolo-degree 76° raggio-radius 1.0 mm
 42CrMo4 rettificato-grinding
 temprato ind.-induction hardened HRC 52/58



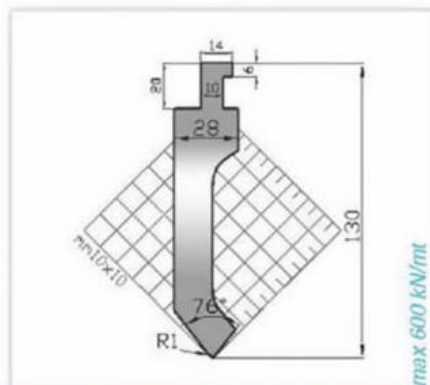
USN-PN-145 150x58 mm
 altezza-height 130 mm
 angolo-degree 76° raggio-radius 2.0 mm
 42CrMo4 rettificato-grinding
 temprato ind.-induction hardened HRC 52/58



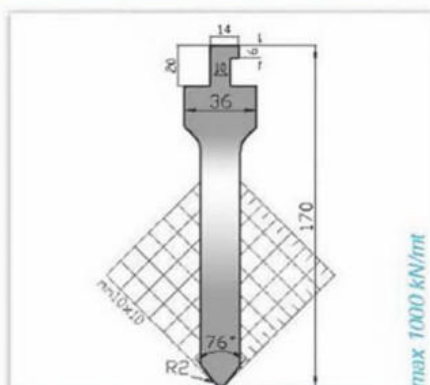
USN-PN-170 150x60 mm
 altezza-height 130 mm
 angolo-degree 60° raggio-radius 8.0 mm
 42CrMo4 rettificato-grinding
 temprato ind.-induction hardened HRC 52/58



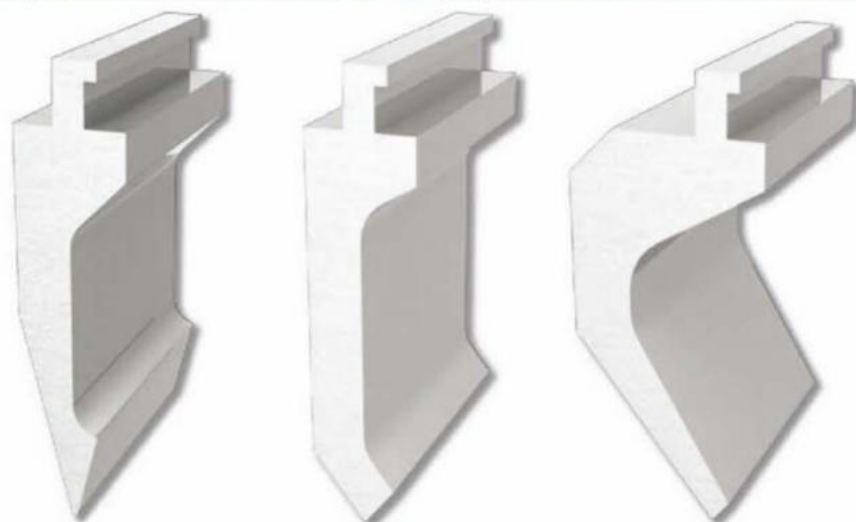
USN-PN-180 170x70 mm
 altezza-height 140 mm
 angolo-degree 60° raggio-radius 8.0 mm
 42CrMo4 rettificato-grinding
 temprato ind.-induction hardened HRC 52/58

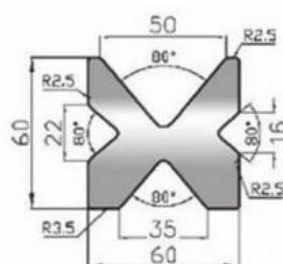


USN-PN-110 130x28 mm
 altezza-height 110 mm
 angolo-degree 76° raggio-radius 1.0 mm
 42CrMo4 rettificato-grinding
 temprato ind.-induction hardened HRC 52/58



USN-PN-195 170x36 mm
 altezza-height 150 mm
 angolo-degree 76° raggio-radius 2.0 mm
 42CrMo4 rettificato-grinding
 temprato ind.-induction hardened HRC 52/58

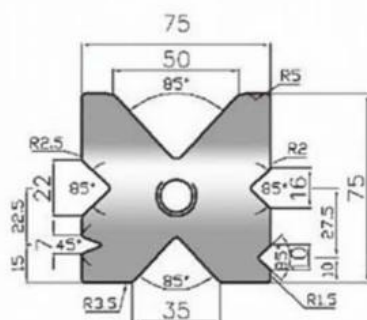




USN-MN-925

60x60 mm

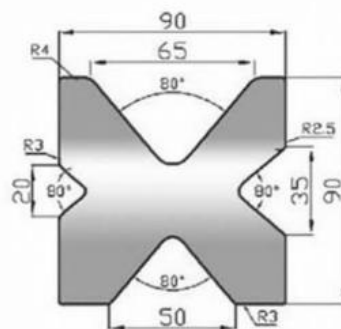
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58



USN-MN-1000

75x75 mm

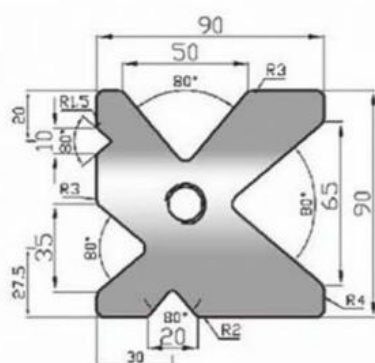
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58



USN-MN-155

90x90 mm

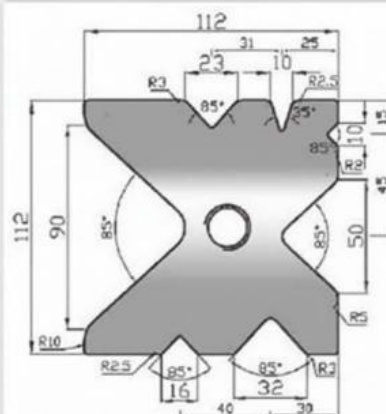
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58



USN-MN-135

90x90 mm

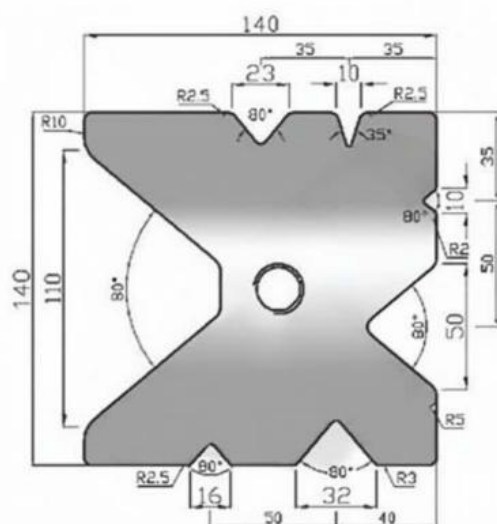
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58



USN-MN-915

112x112 mm

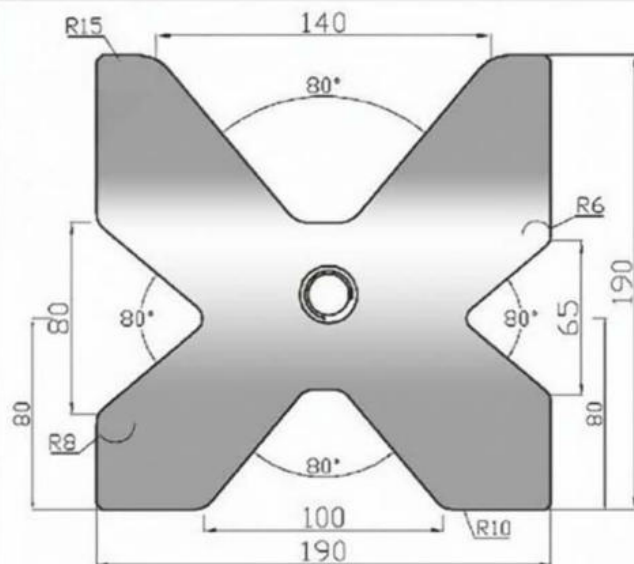
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58



USN-MN-920

140x140 mm

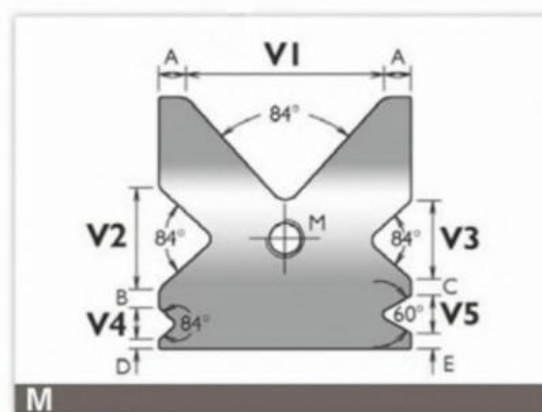
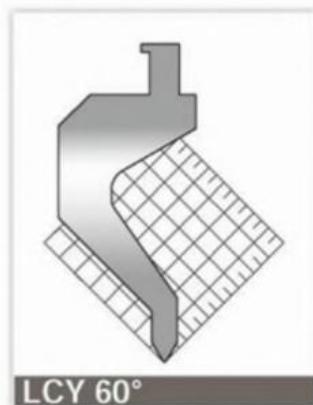
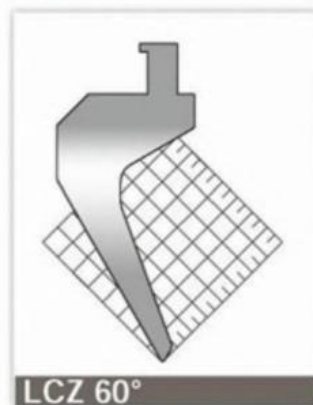
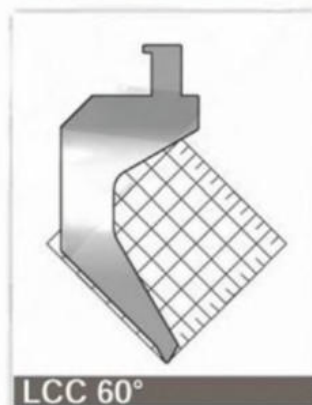
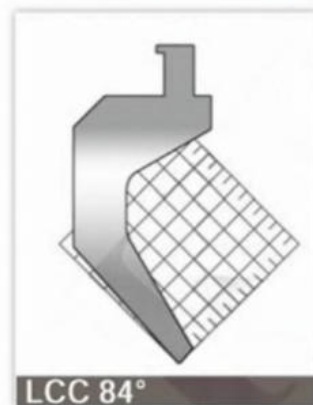
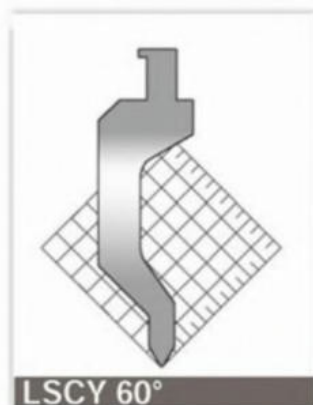
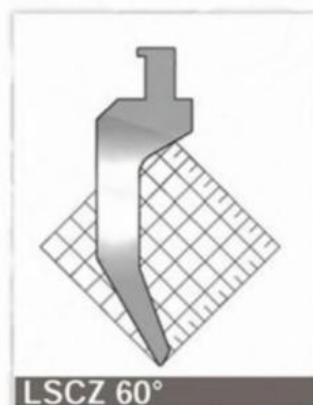
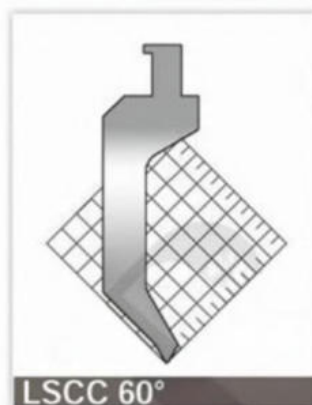
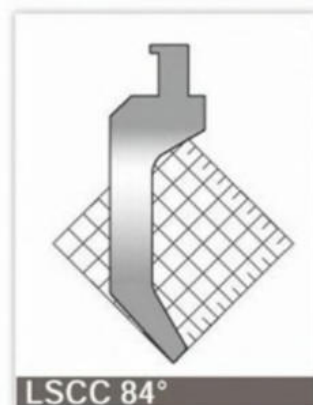
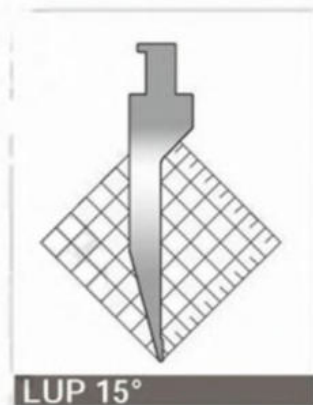
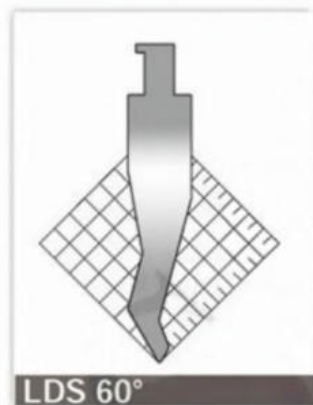
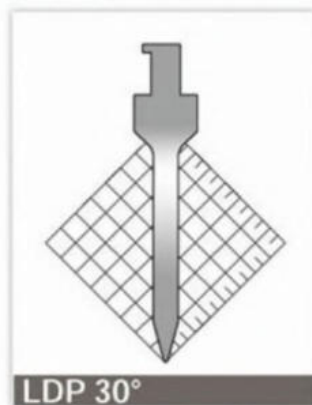
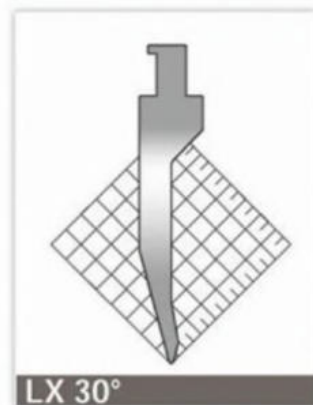
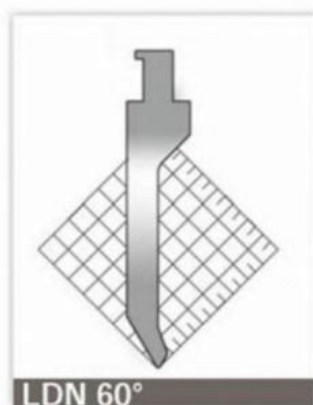
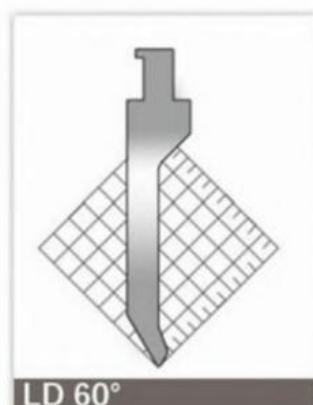
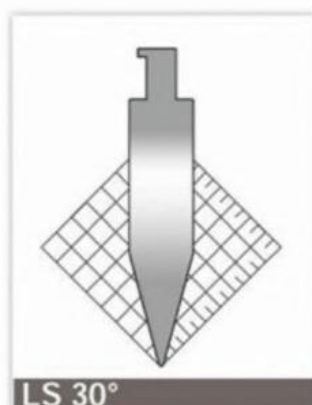
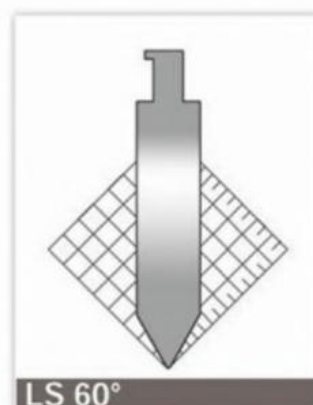
42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58



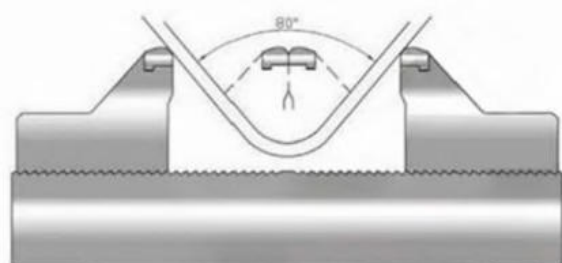
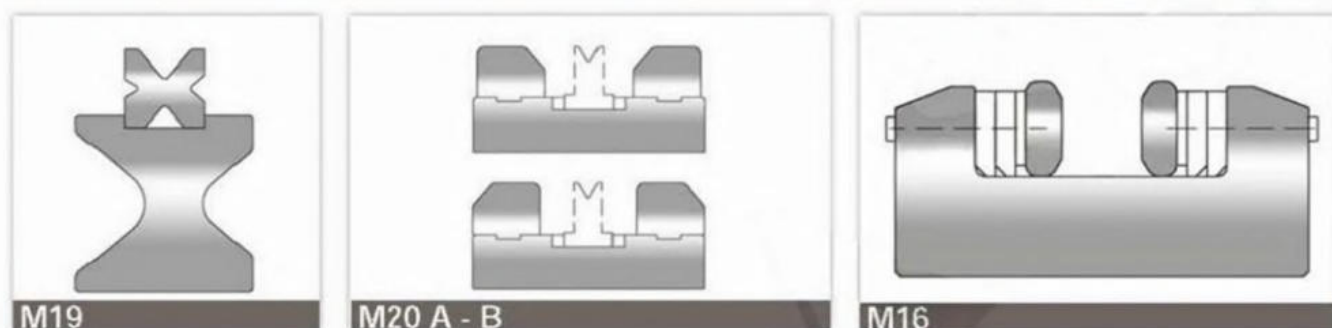
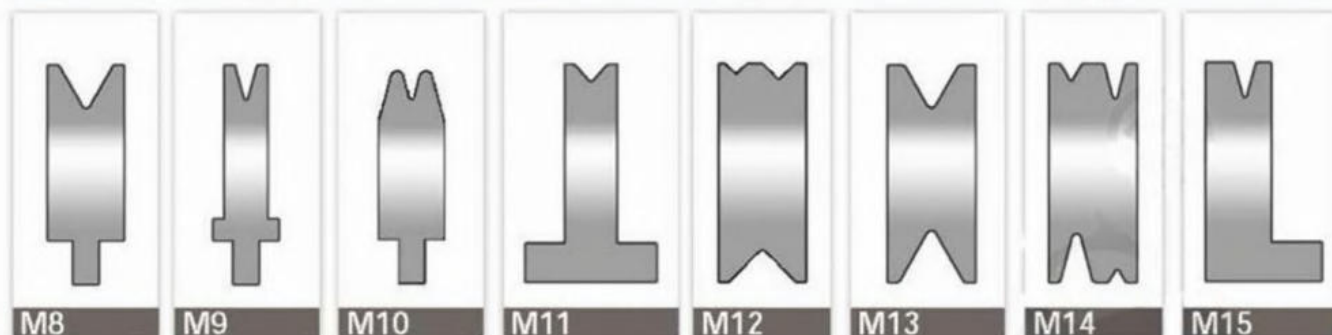
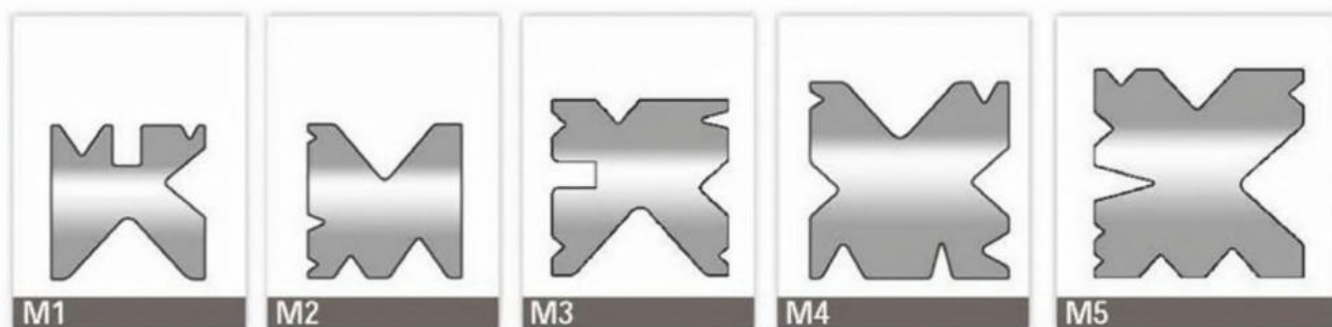
USN-MN-159

190x190 mm

42CrMo4 rettificato-grinding
temprato ind.-induction hardened HRC 52/58



tipo type	dimensioni dimensions	84°				60°									
		V1	V2	V3	V4	V5	A	B	C	D	E	M			
		mm													
M 60	60x60	40	25	20	10	12	10	6	5	3	5				
M 70	70x70	50	32	25	10	12	10	6	5	3	5	M12			
M 80	80x80	63	32	25	10	12	8,5	6	5	3	5	M12			
M 90	90x90	70	40	25	10	12	10	6	5	3	5	M16			
M 100	100x100	80	40	32	10	12	10	9	5	3	5	M16			
M 110	110x110	90	50	32	10	12	10	9	5	3	5	M16			
M 120	120x120	90	50	40	12	16	15	10	10	5	5	M16			
M 130	130x130	110	50	40	12	16	10	10	10	5	5	M16			
M 140	140x140	110	50	40	16	20	15	10	10	5	5	M20			

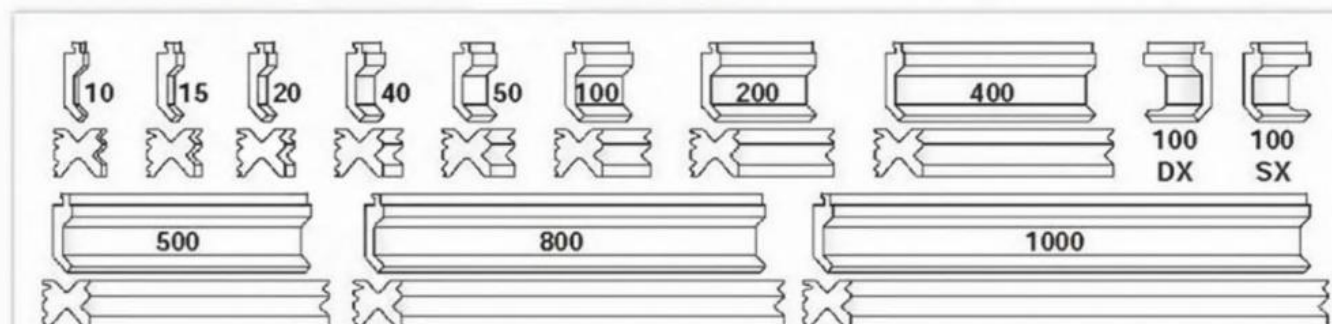


V mm 0 - 200 / 250 / 350 / 400

V-MUTABILIS - matrice regolabile - adjustable die



carico-load max 4000 kN/mt



FRAZIONATURA - SEGMENTATION

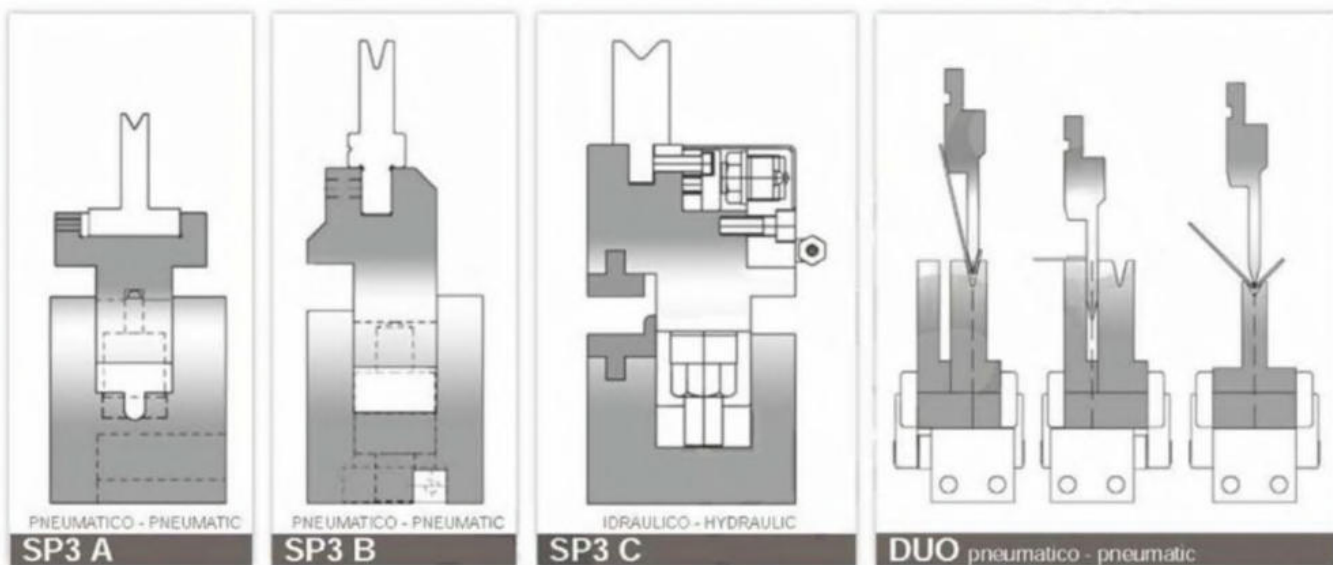
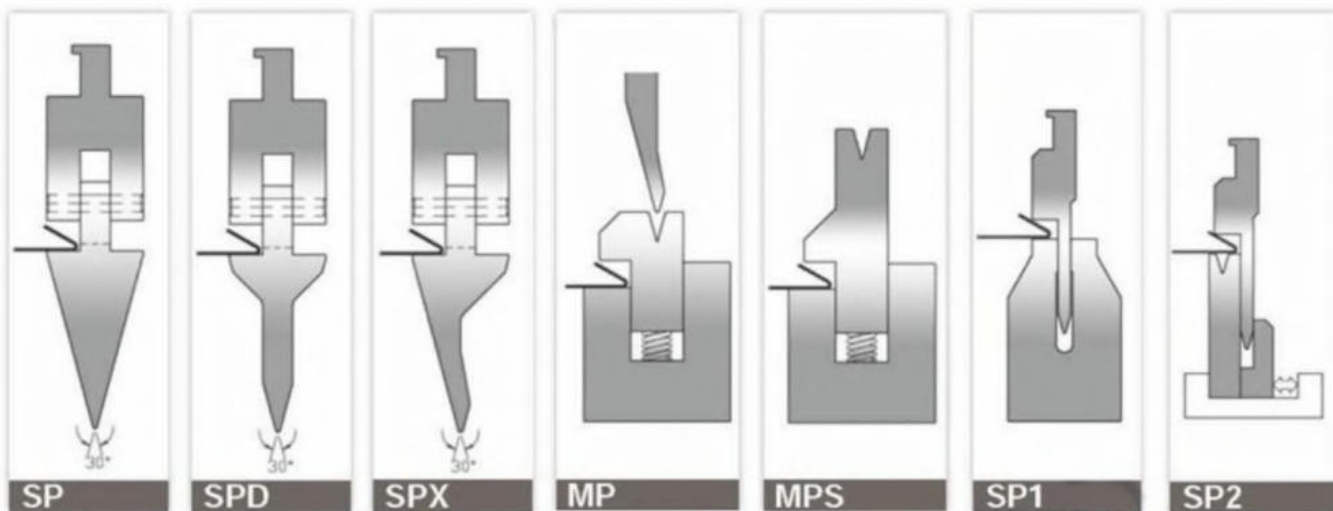
acciai - steels

C 45	C 45	W 1.1191	R 600/750 N/mm ²
42CR	42 CrMo 4	W 1.7225	R 950/1000 N/mm ²
2311	40 CrMnMo 7	W 1.2311	R 950/1100 N/mm ²
2312	40 CrMnMoS8,6	W 1.2312	R 950/1050 N/mm ²

trattamenti termici - heat treatment

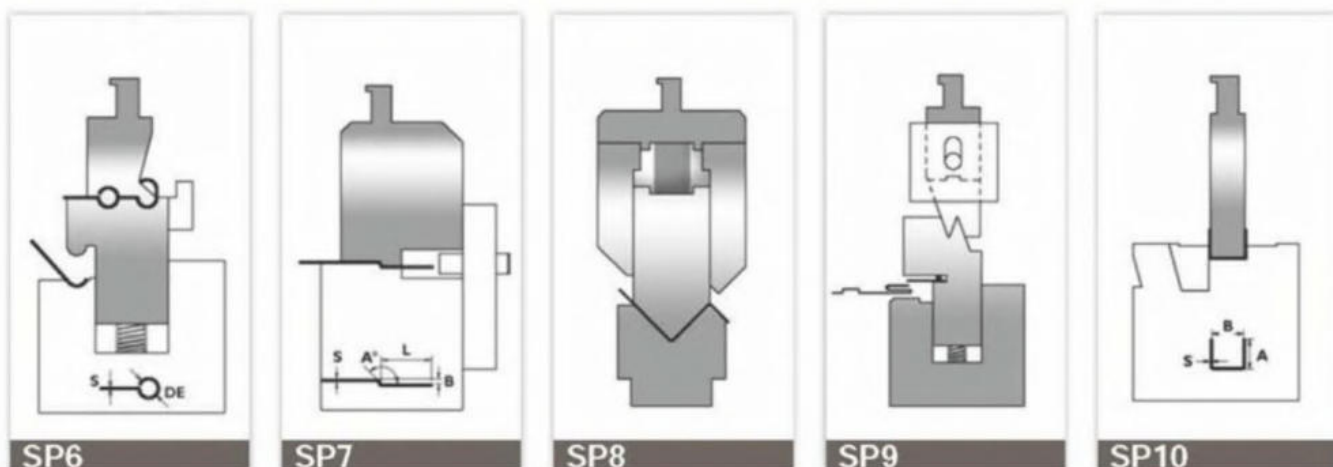
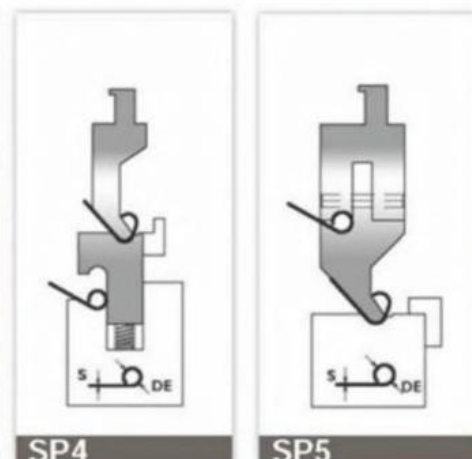
T	tempra ad induzione-induction hard.HRC 52+58
N	nitrurato - nitrided
lavorazioni - working	
P	piallatura - planing
R	rettifica - grinding

INFORMAZIONI TECNICHE - TECHNICAL INFORMATION



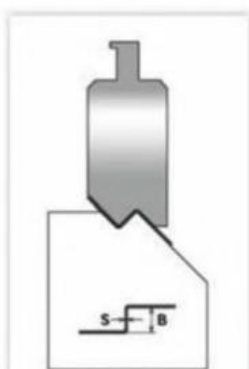
S				S			
S mm	X	R 450 N/mm ²	R 700 N/mm ²	S mm	X	R 450 N/mm ²	R 700 N/mm ²
0,6	mm 3,0	90 kN/mt	150 kN/mt	0,6	mm 1,2	230 kN/mt	350 kN/mt
0,8	mm 3,0	120 kN/mt	200 kN/mt	0,8	mm 1,6	320 kN/mt	500 kN/mt
1	mm 3,5	150 kN/mt	250 kN/mt	1	mm 2,0	400 kN/mt	600 kN/mt
1,2	mm 3,5	170 kN/mt	260 kN/mt	1,2	mm 2,4	500 kN/mt	800 kN/mt
1,5	mm 4,6	220 kN/mt	380 kN/mt	1,5	mm 3,0	630 kN/mt	950 kN/mt
2	mm 5,5	300 kN/mt	500 kN/mt	2	mm 4,0	800 kN/mt	1300 kN/mt
2,5	mm 6,5	550 kN/mt	900 kN/mt	2,5	mm 5,0	900 kN/mt	1800 kN/mt
3	mm 8,0	700 kN/mt	1000 kN/mt	3	mm 6,0	1000 kN/mt	2100 kN/mt

S: spessore - thickness - R: resistenza - resistance

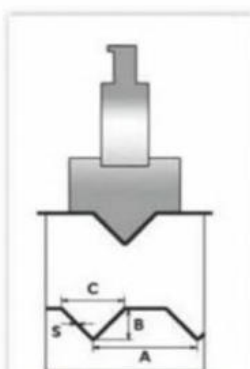




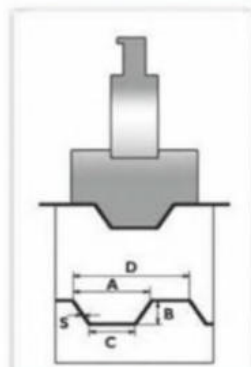
SP11



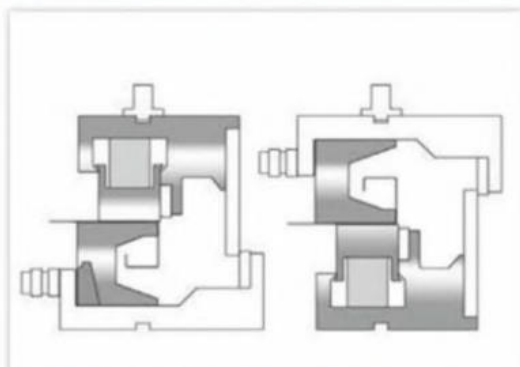
SP12



SP13

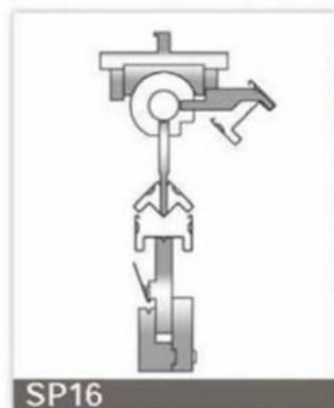


SP14

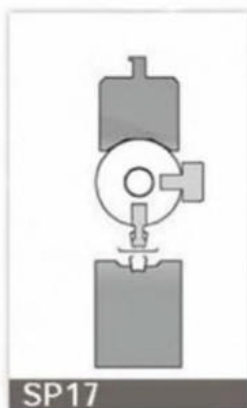


SP15/S

SP15/E



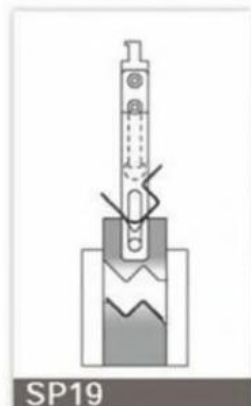
SP16



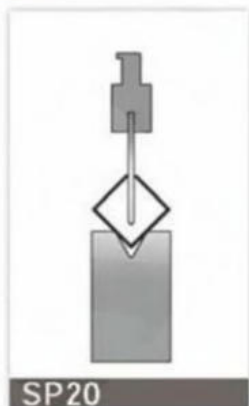
SP17



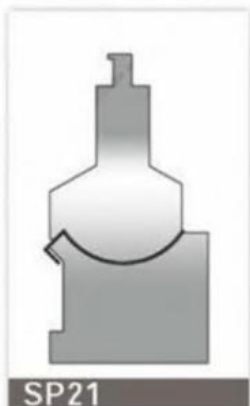
SP18



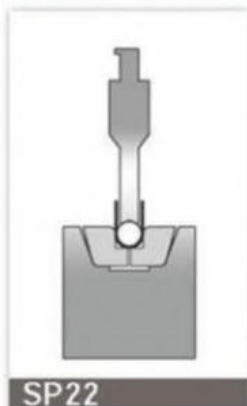
SP19



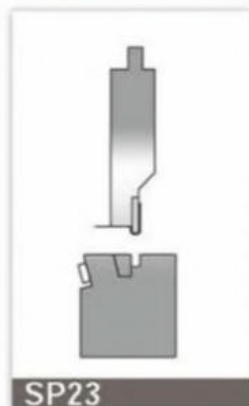
SP20



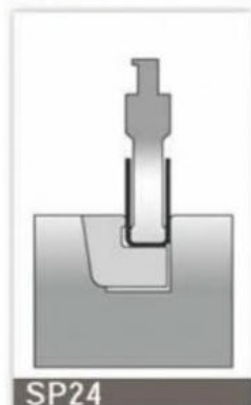
SP21



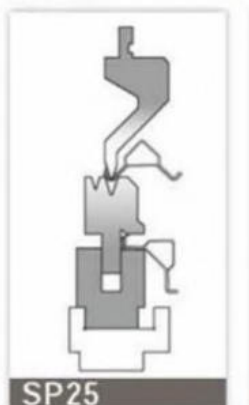
SP22



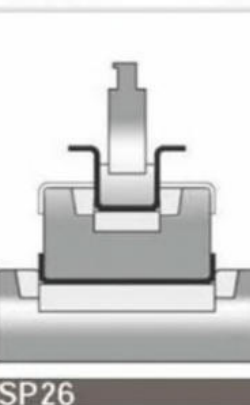
SP23



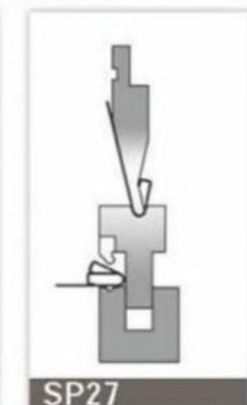
SP24



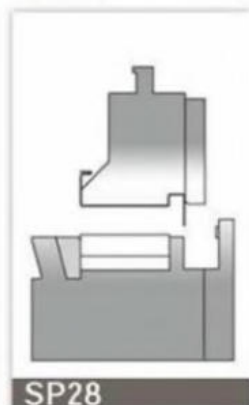
SP25



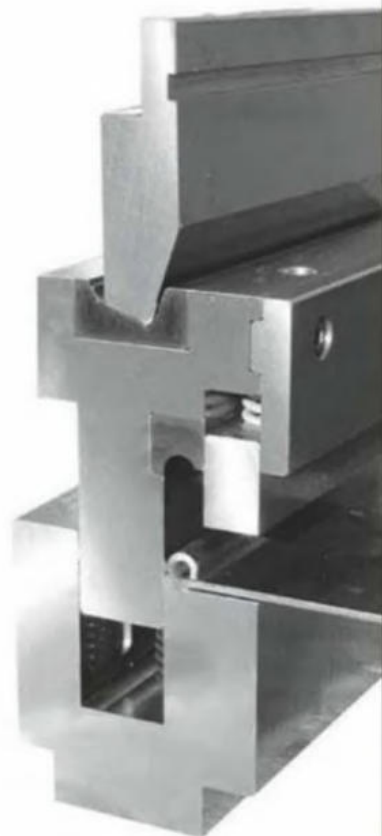
SP26

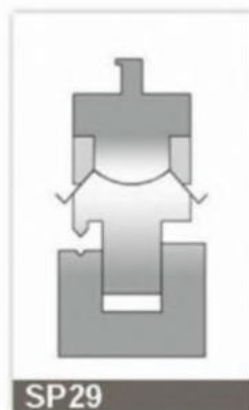


SP27

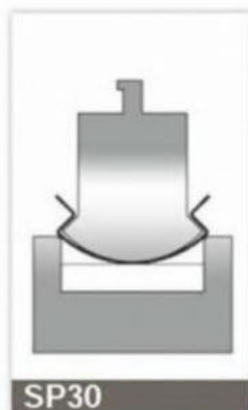


SP28

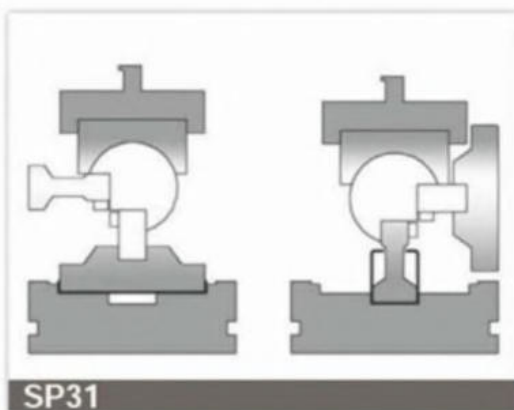




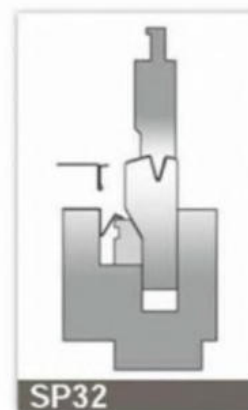
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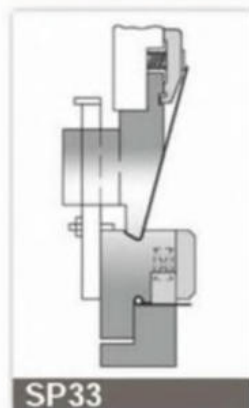
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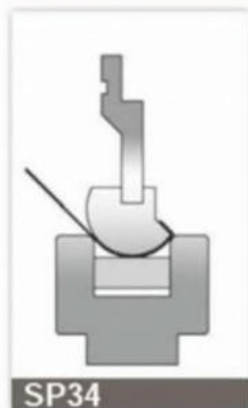
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SP32



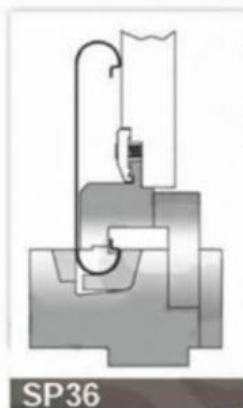
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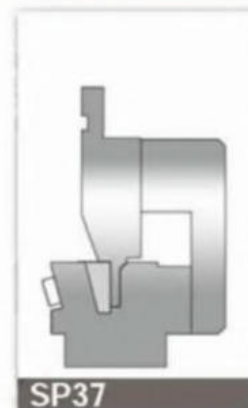
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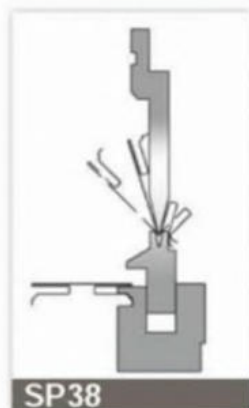
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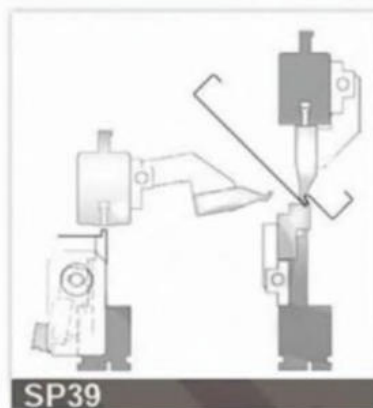
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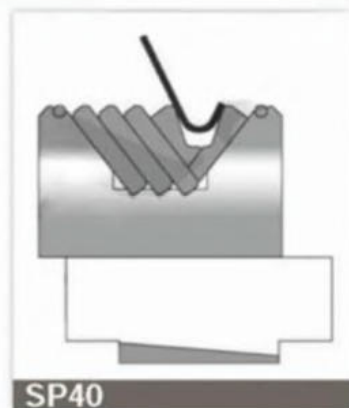
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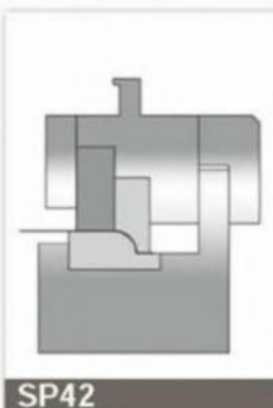
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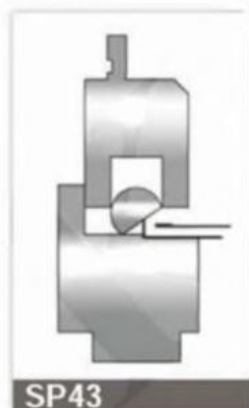
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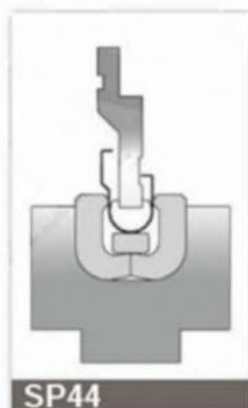
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SP42



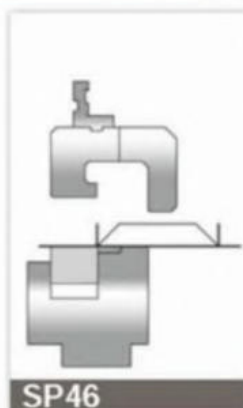
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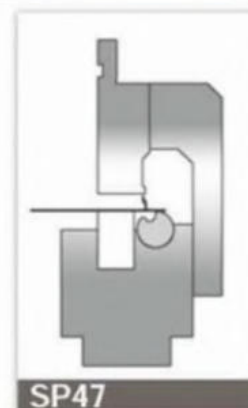
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SP45



SP46



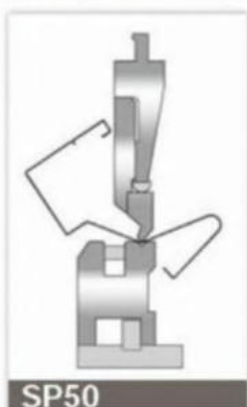
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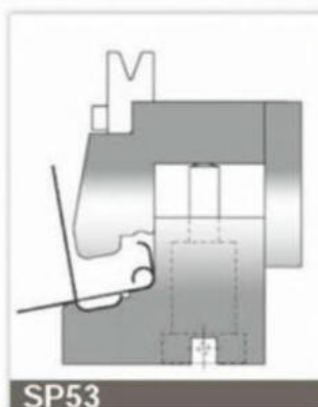
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SP49



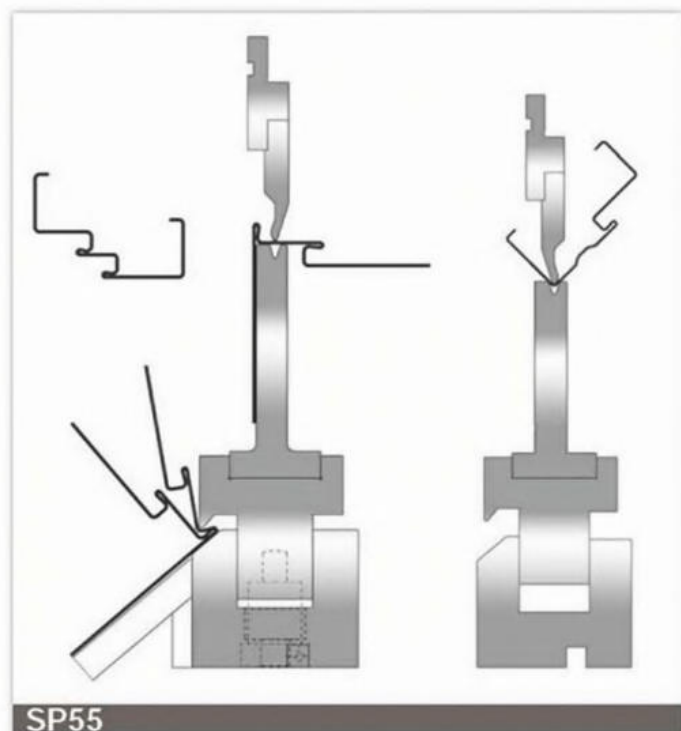
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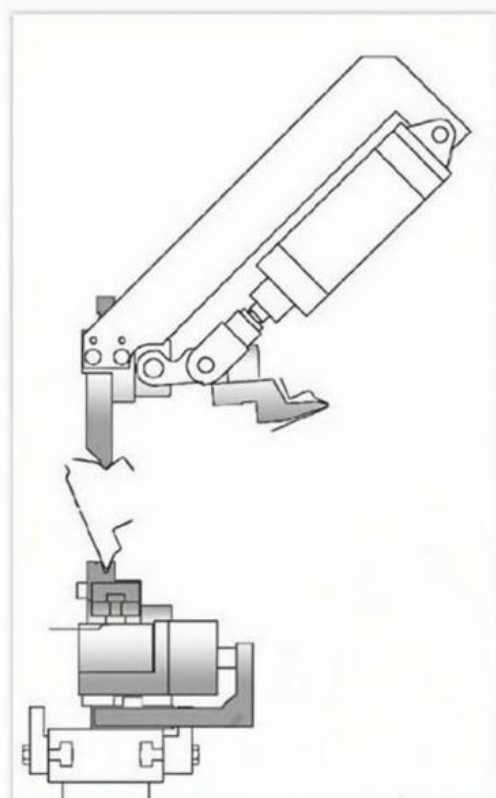
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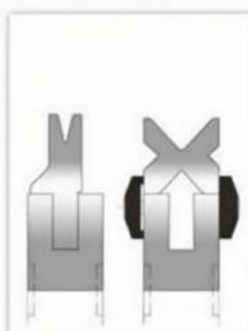
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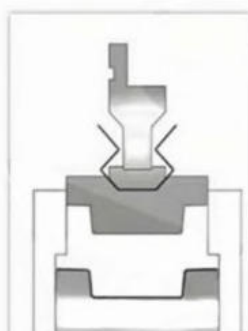
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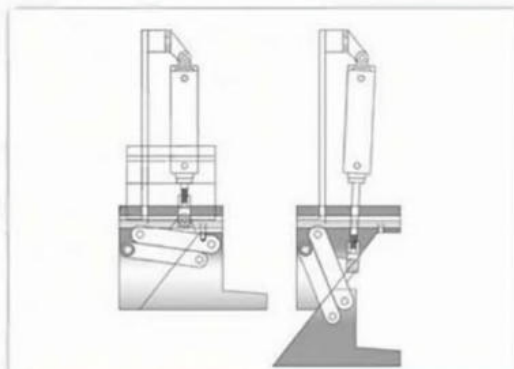
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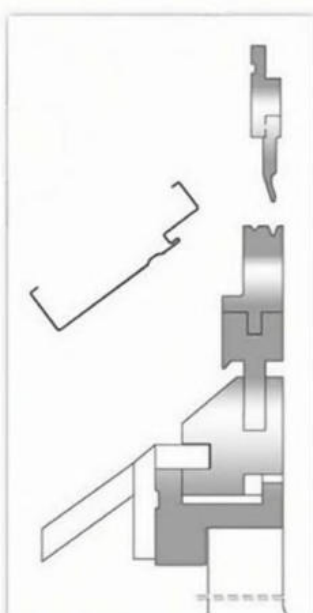
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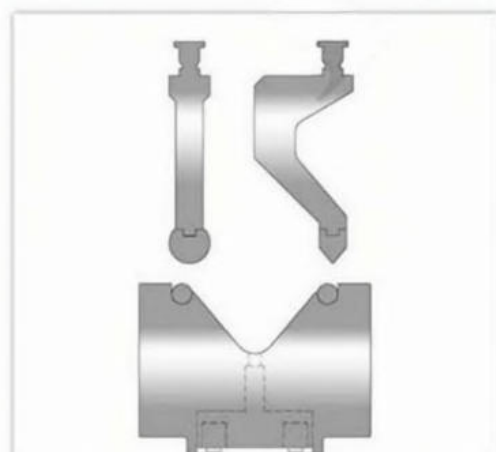
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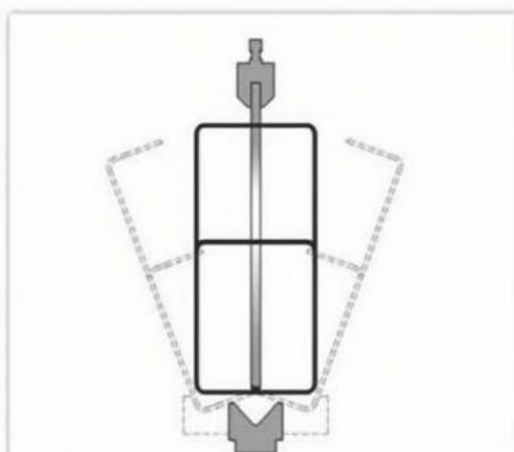
SCA-MOB-PNEU



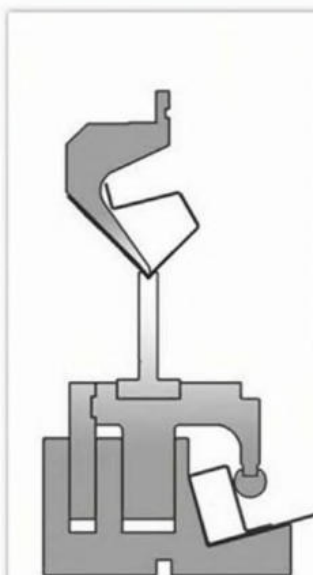
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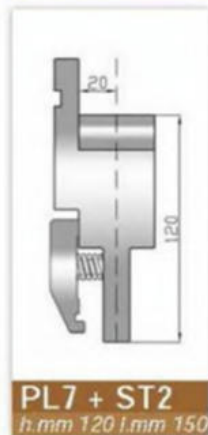
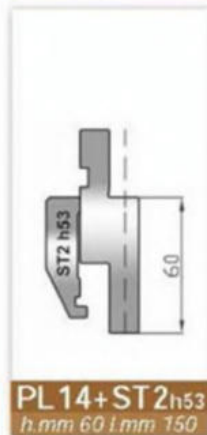
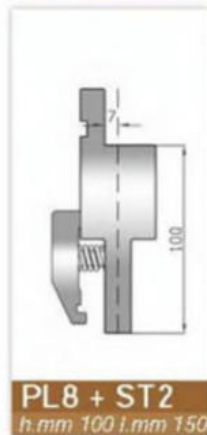
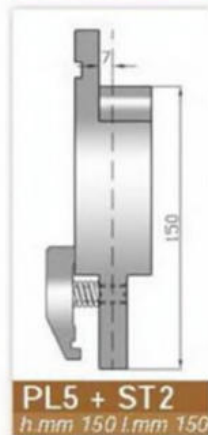
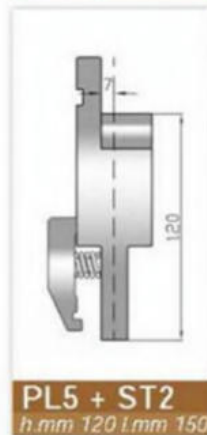
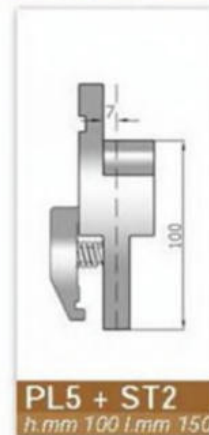
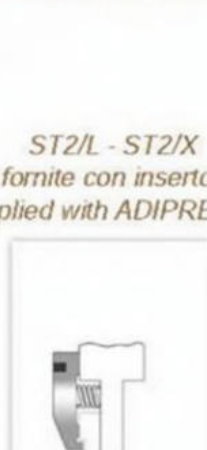
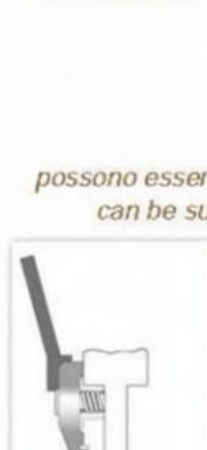
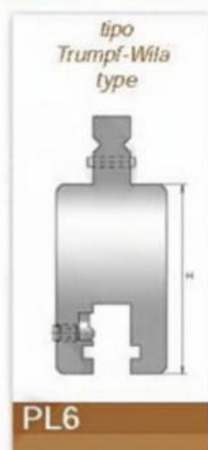
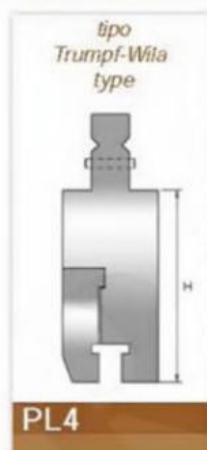
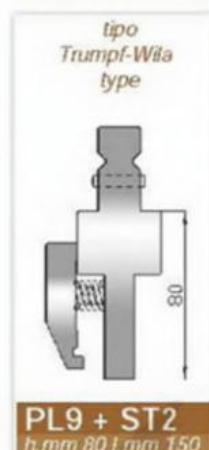
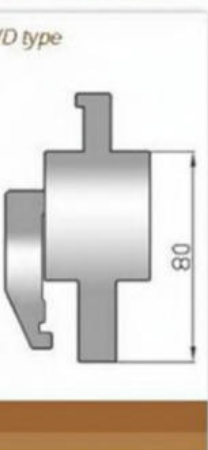
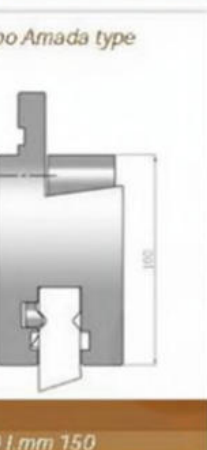
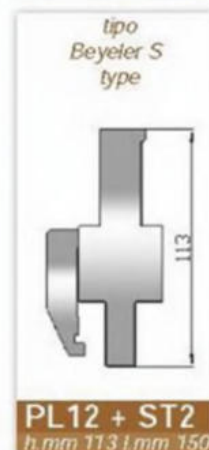
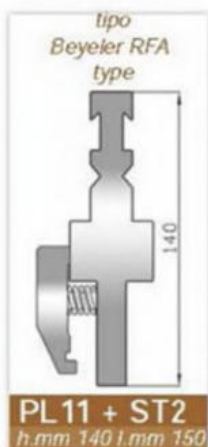
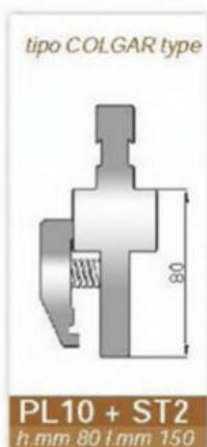
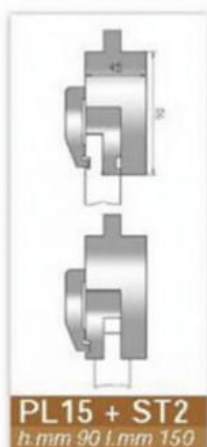
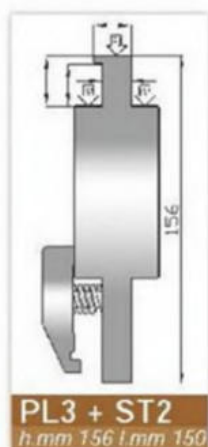
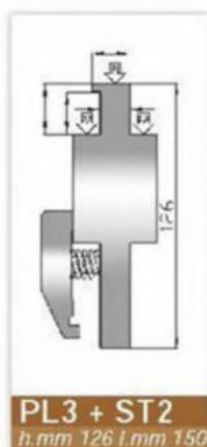
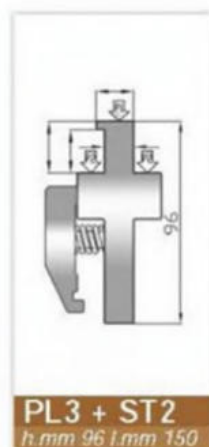
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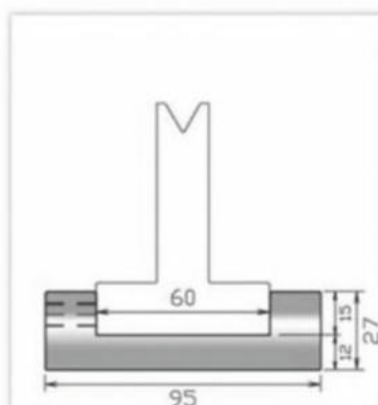
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SP63

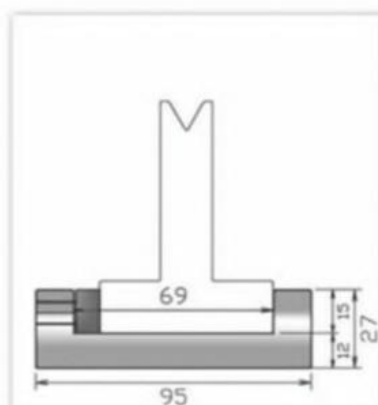


ST2/L - ST2/X
possono essere fornite con inserto in ADIPRENE /G
can be supplied with ADIPRENE /G insert



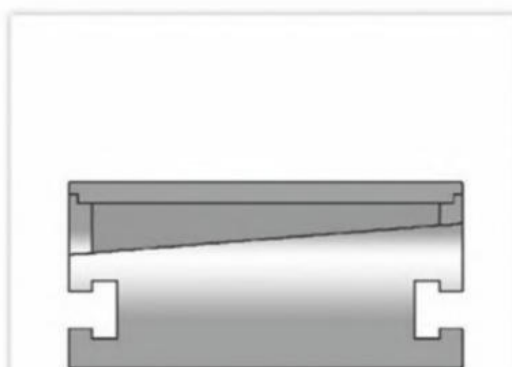
PM6

Lmm 2100 - 2600 - 3100 - 4100

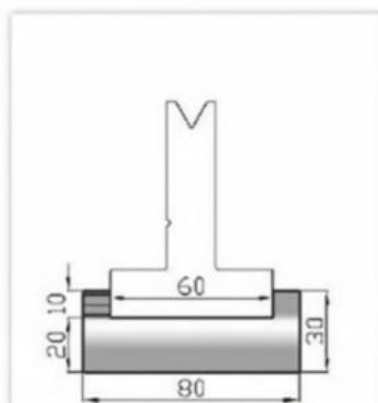


PM7

Lmm 2100 - 2600 - 3100 - 4100

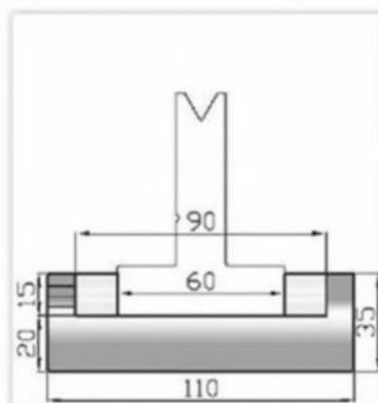


PM5



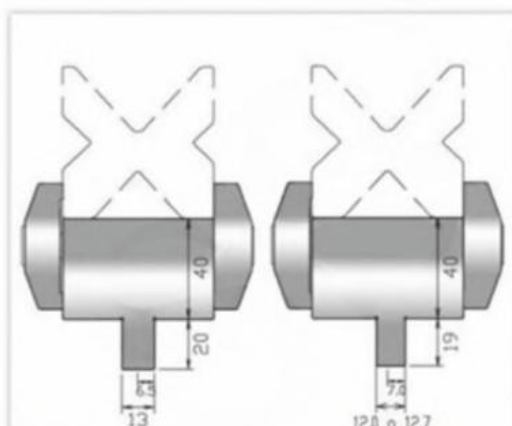
PM6 SHORT mm 60

Lmm 520 - 1050



PM6 SHORT mm 60/90

Lmm 520 - 1050

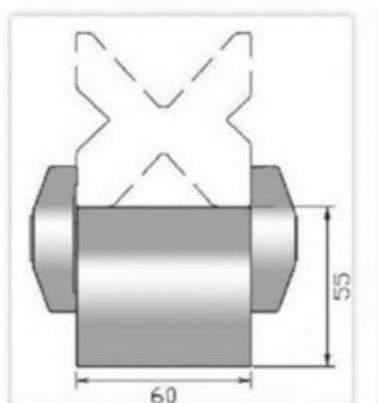


PM9 / T

Lmm 835 - 415

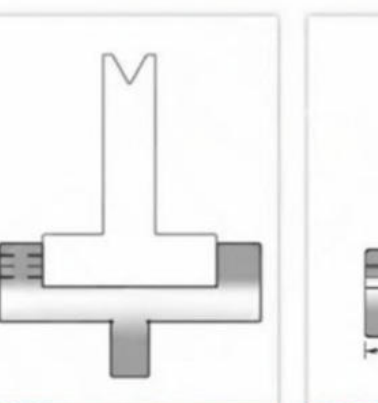
PM9 / L

Lmm 835 - 415



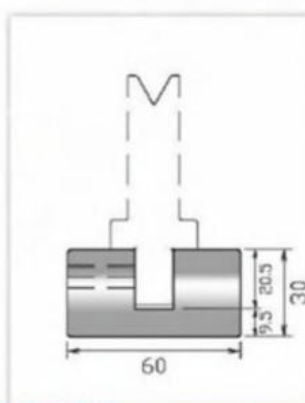
PM9 / 60

Lmm 835 - 415

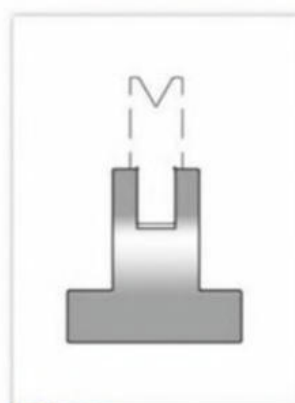


PM8

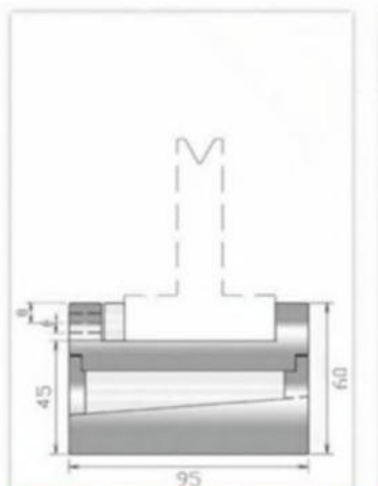
Lmm 2100 - 2600 - 3100 - 4100



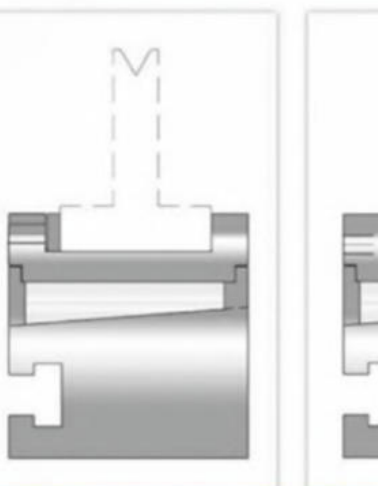
PM10



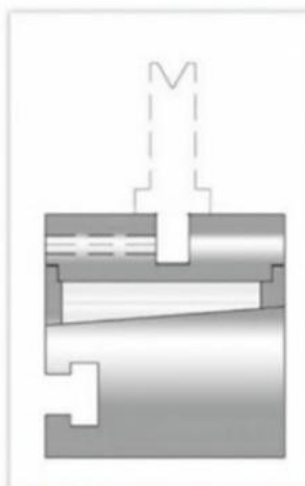
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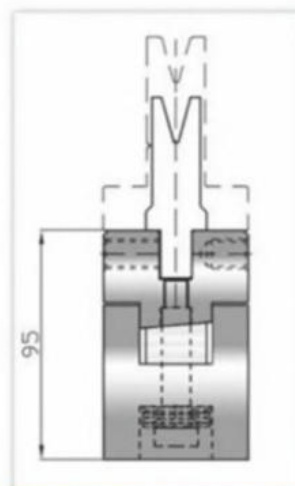
PM12



PM13

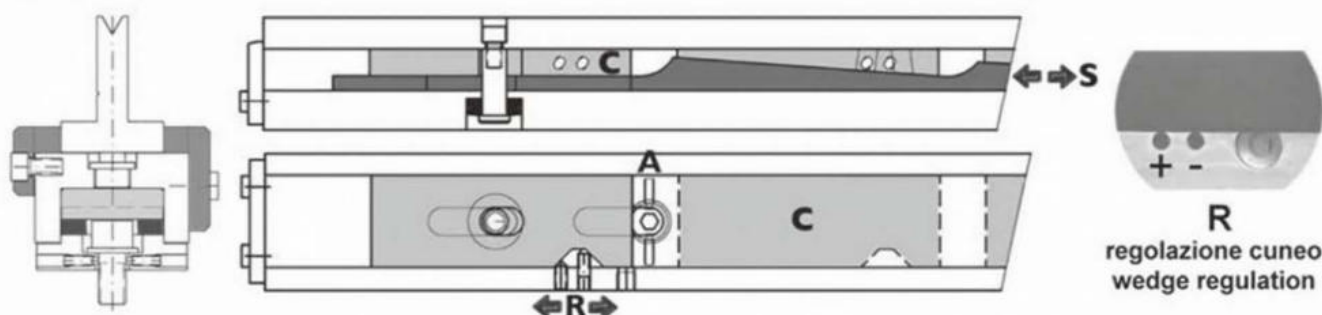


PM14



PM15

tavola portamatrici per pressa piegatrice con sistema automatico di centinatura
die-holder table for press brakes with automatic crowning system



Con l'utilizzo di questo sistema è possibile compensare meccanicamente la flessione che si verifica sulle presse piegatrici durante la fase di piegatura e che determina angoli di piega irregolari.

La flessione varia in funzione della lunghezza di piegatura ed in base al rapporto tra la larghezza della cava ed il tipo e spessore della lamiera.

Il sistema TABLUS (**brevettato**) è composto da una barra speciale (S) che scorre in contrapposizione a dei cunei (C). Ogni cuneo, se necessario, può essere calibrato singolarmente (R).

La barra è azionabile manualmente (**sistema TCM-TSM**) oppure attraverso un motoriduttore controllato dal DNC della pressa piegatrice (**sistema TCMR-TSMR**).

La regolazione della TABLUS viene effettuata in modo rapido e preciso prima della fase di piegatura.

Ogni singola TABLUS è prodotta in base alle caratteristiche della pressa piegatrice su cui verrà utilizzata, in modo da ottimizzare il suo funzionamento.

Questo avviene attraverso l'utilizzo di uno speciale software, denominato **DATA TABLUS**, che calcola le flessioni della pressa piegatrice e fornisce indicazioni su come realizzare il sistema di centinatura.

Si ottiene quindi un sistema in grado di garantire una regolazione centesimale ed accurata.

Esistono più versioni di TABLUS che si differenziano in base al tipo di matrici utilizzate.

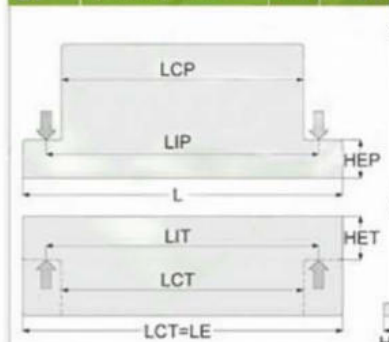
Le versioni TCM-TCMR vengono fornite complete di staffe per il bloccaggio manuale delle matrici.

Su richiesta può essere fornito un sistema pneumatico per il bloccaggio rapido.

TABLUS viene fornita pronta per il fissaggio e l'allineamento alla pressa piegatrice.

DATA TABLUS esempio - example

P	forza pressa	kN	1200
PESTONE			
LIP	distanza appoggi	mm	2650
LCP	lunghezza centrale	mm	2260
HP	altezza centrale	mm	1235
HEP	altezza esterna	mm	495
SP	spessore pestone	mm	50



L	* lunghezza pressa	mm	3100
TRAVERSA INFERIORE			
LIT	distanza appoggi	mm	2650
LCT	** lunghezza centrale	mm	2600
HT	altezza centrale	mm	845
HET	** altezza esterna	mm	435
ST	spessore traversa	mm	100
LIPm	LIP - LIPm = cunei negativi limite cunei negativi	mm	2430

* lunghezza L sempre pari a multiplo di 200+100
** per traversa senza rientranze LCT=L e HET=HT

RINFORZO SU TRAVERSA INFERIORE		
STINF	mm	120
HTINF	mm	250

cuneo	distanze	STRISCIA S max compensazione con regolazione 30 mm	CUNEO C max compensazione con regolazione 8 mm
1	150	0,30 mm	0,08 mm
2	350	0,62 mm	0,17 mm
3	550	0,88 mm	0,24 mm
4	750	1,07 mm	0,28 mm
5	950	1,18 mm	0,32 mm
6	1150	1,27 mm	0,34 mm
7	1350	1,32 mm	0,35 mm
8	1550	1,34 mm	0,36 mm
9	1750	1,32 mm	0,35 mm
10	1950	1,27 mm	0,34 mm
11	2150	1,18 mm	0,32 mm
12	2350	1,07 mm	0,28 mm
13	2550	0,88 mm	0,24 mm
14	2750	0,62 mm	0,17 mm
15	2950	0,30 mm	0,08 mm

This system provides mechanical compensation of deflections appearing during the bending process.

Deflection changes depending on bending length, die slot width, type of material and its thickness.

TABLUS system (**patented**) is composed by a special rod (S) which is placed between opposite wedges (C). Every wedge can be calibrated if necessary (R).

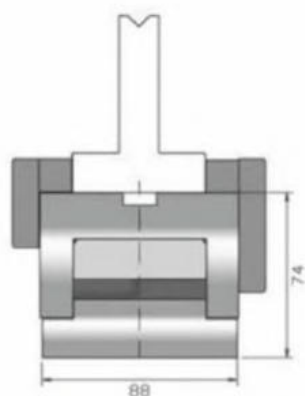
The rod is driven manually (**TCM-TSM system**) or by a motoreducer controlled by CNC (**TCMR-TSMR system**). The adjustment of TABLUS system is a fast and accurate procedure to execute before bending.

Every TABLUS system is produced on the base of the press brake characteristics to optimize its functioning. That is provided by the use of special software **DATA TABLUS**, which calculates press brake deflections and provides crowning system throughout control commands. This system grants a very high accuracy.

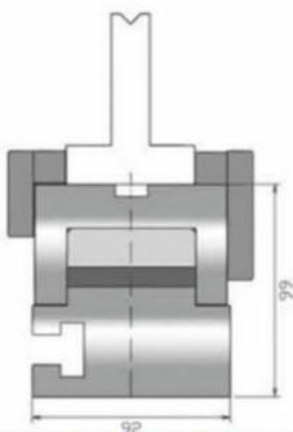
There are more versions of TABLUS system depending on the type of the used dies.

TCM and TCMR versions are supplied with manual die clampings.

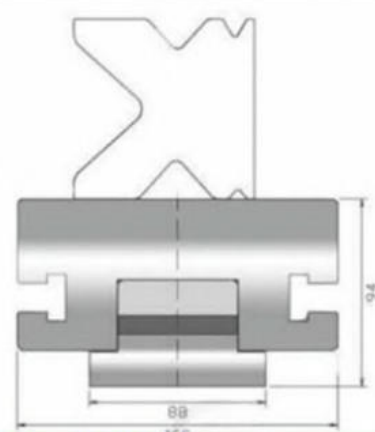
On request we supply pneumatic system for fast clamping. TABLUS is ready for installation and leveling already.



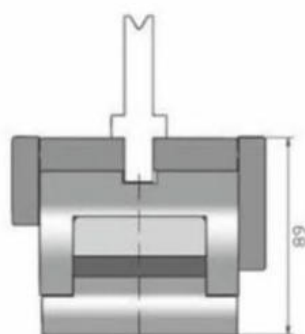
TCM - TCMR 60/90
3100-4100-5100-6100 mm L



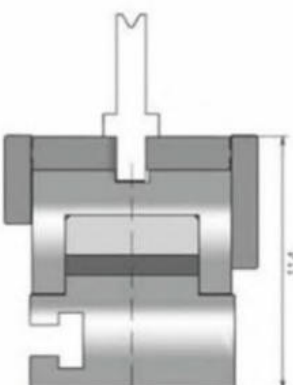
TCM - TCMR 60/90 + T
3100-4100-5100-6100 mm L



TM - TMR 160
3100-4100-5100-6100 mm L



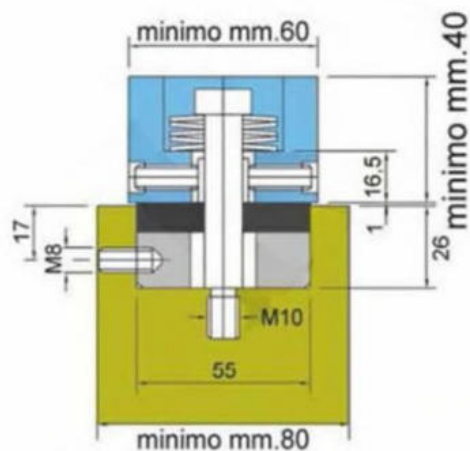
TCM - TCMR 13/60/90
3100-4100-5100-6100 mm L



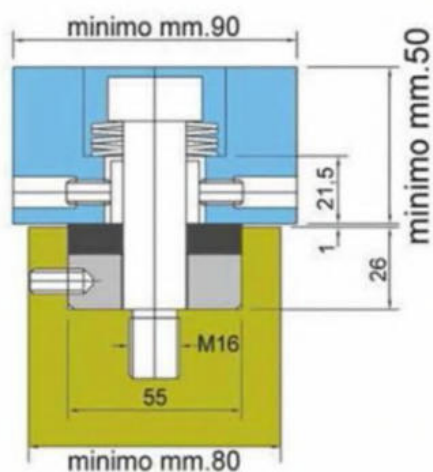
TCM - TCMR 13/60/90 + T
3100-4100-5100-6100 mm L



sistema automatico di centinatura integrato nella traversa della pressa piegatrice
automatic crowning system integrated inside press brake lower beam



TSM - TSMR 60
3100-4100-5100-6100 mm L



TSM - TSMR 90
3100-4100-5100-6100 mm L



LAME PER CESOIA - SHEAR BLADES

capacità di taglio - cutting capacity

acciaio-steel	lamiera in ferro iron sheet	acciaio inox stainless steel
PV	mm 0 ÷ 40	mm 0 ÷ 15

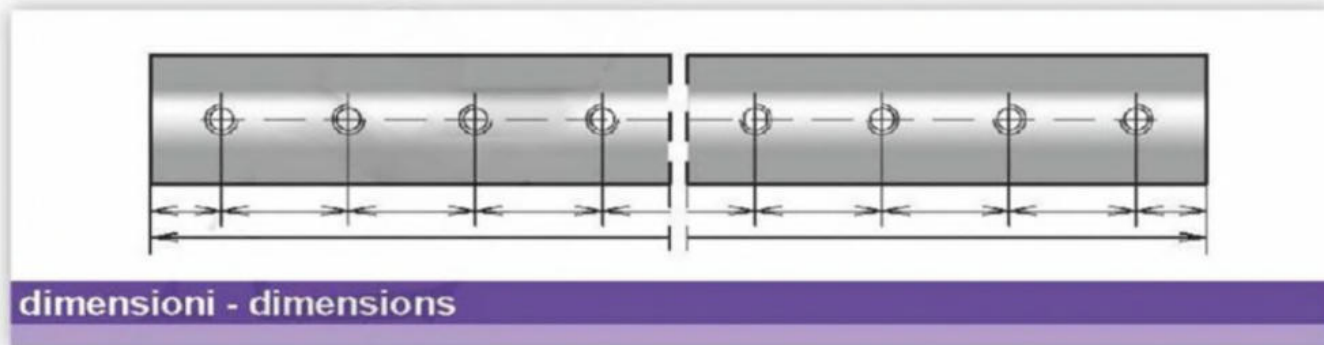
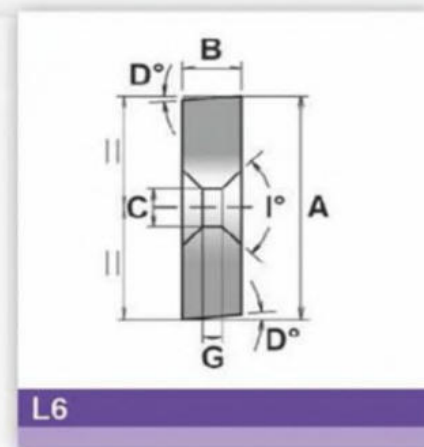
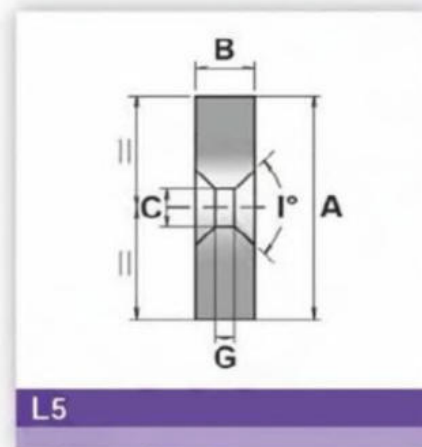
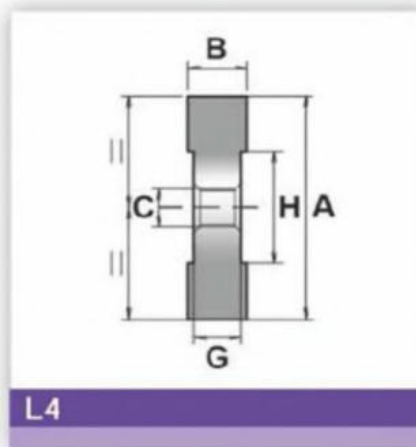
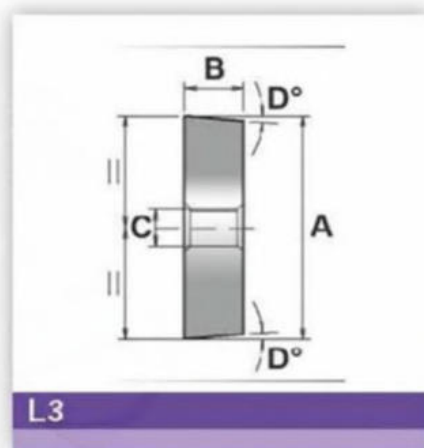
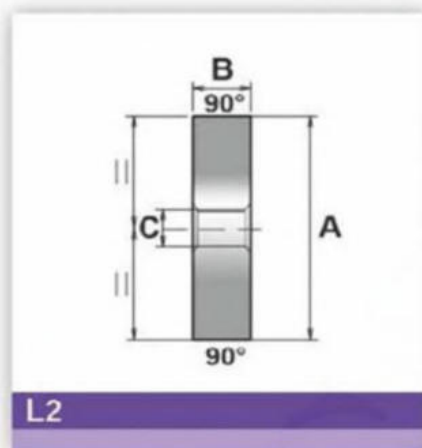
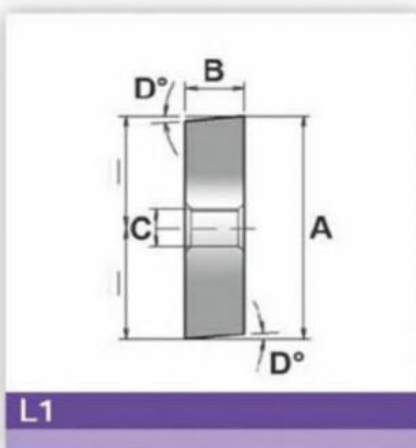
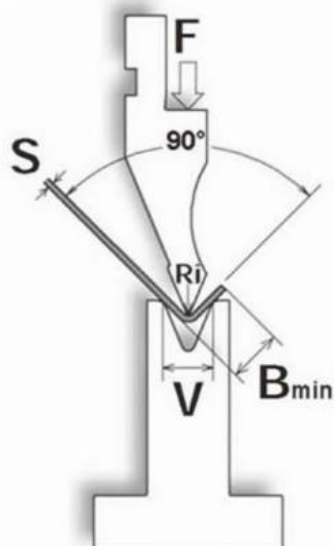


TAVOLA DI PIEGATURA - BENDING CHART



ATTENZIONE

NON SUPERARE IL CARICO MASSIMO AMMESSO DAGLI UTENSILI, IN QUANTO PUO' DARE LUOGO AL DANNEGGIAMENTO DEGLI UTENSILI O CAUSARE DANNI FISICI ALL'OPERATORE. Il carico massimo ammissibile varia in base al tipo di utensili utilizzati. Calcolare sempre una pressione inferiore rispetto al carico indicato.

WARNING

EXCEEDING THE MAXIMUM ALLOWABLE TONNAGE FOR THE TOOLING CAN BE VERY DANGEROUS AND MAY RESULT IN TOOLING DAMAGE OR MAY CAUSE BODILY INJURY BY SPLINTERING.

The maximum allowable pressure may vary, depending on the punch and die used. Always calculate the maximum pressure with the lowest rating of the punch or die.

piegatura in aria-air bending

F = kN al metro - kN for meter

S = spessore lamiera - sheet thickness

R = resistenza lamiera - sheet resistance

S mm.		0,6		0,8		1,0		1,2		1,5		2,0	
V mm.		6	8	6	8	6	8	8	10	10	12	12	16
F kN/mt.	R.200 N/mm ²	20	10	30	20	60	40	60	40	70	60	110	80
	R.450 N/mm ²	40	30	70	50	130	80	130	100	160	130	250	170
	R.700 N/mm ²	60	40	110	80	190	130	200	150	250	200	390	260
Ri	Ri mm.	1,0	1,3	1,0	1,3	1,0	1,3	1,3	1,7	1,7	2,0	2,0	2,7
B	90°=B min.mm.	4,5	6,0	4,6	6,1	4,7	6,2	6,3	7,7	7,8	9,2	9,5	12,3
	60°=B min.mm.	6,3	8,3	6,4	8,4	6,5	8,5	8,6	10,6	10,8	12,8	13,0	17,0
	35°=B min.mm.	10,3	13,6	10,4	13,7	10,5	13,8	13,9	17,2	17,4	20,7	21,0	27,6

S mm.		2,5		3		4		5		6		8	
V mm.		16	20	20	25	32	40	40	50	50	63	63	80
F kN/mt.	R.200 N/mm ²	130	90	140	110	150	110	190	140	210	160	310	220
	R.450 N/mm ²	290	210	320	240	340	250	420	320	480	360	690	500
	R.700 N/mm ²	440	330	500	370	530	390	660	490	750	550	1070	780
Ri	Ri mm.	2,7	3,3	3,3	4,2	5,3	6,7	6,7	8,3	8,3	10,5	10,5	13,3
B	90°=B min.mm.	12,6	15,4	15,6	19,2	24,6	30,3	30,8	37,9	38,4	47,5	48,5	60,6
	60°=B min.mm.	17,3	21,3	21,5	26,5	34,0	42,0	42,5	52,5	53,0	66,0	67,0	84,0
	35°=B min.mm.	27,9	34,5	34,8	43,1	55,2	68,5	69,0	85,6	86,1	107,8	108,8	137,0

S mm.		10		12		15		20		25		30	
V mm.		80	100	100	125	160	200	200	250	250	320	320	400
F kN/mt.	R.200 N/mm ²	380	280	430	320	390	290	560	420	700	510	770	590
	R.450 N/mm ²	840	630	960	720	870	660	1260	950	1580	1150	1740	1320
	R.700 N/mm ²	1310	980	1490	1120	1350	1020	1960	1480	2450	1790	2710	2050
Ri	Ri mm.	13,3	16,7	16,7	20,8	26,7	33,3	33,3	41,7	41,7	53,3	53,3	66,7
B	90°=B min.mm.	61,6	75,7	76,7	94,4	120,6	148,9	151,4	186,8	189,3	238,8	241,3	297,8
	60°=B min.mm.	85,0	105,0	106,0	131,0	167,5	207,5	210,0	260,0	262,5	332,5	335,0	415,0
	35°=B min.mm.	138,0	171,3	172,3	213,8	273,5	340,1	342,6	425,7	428,2	544,6	547,1	680,1

Edizione 2 - Giugno 2016 - progetto grafico e realizzazione Roberto Giussani

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