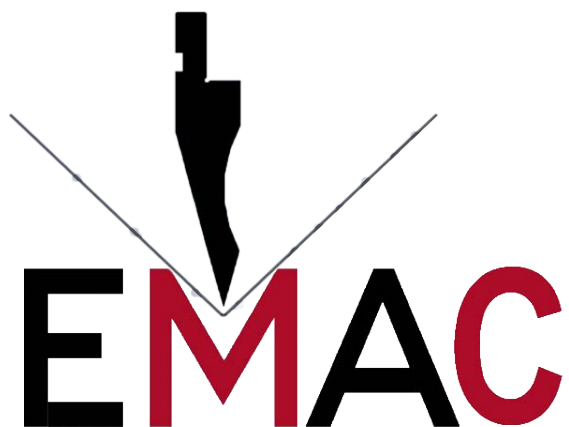


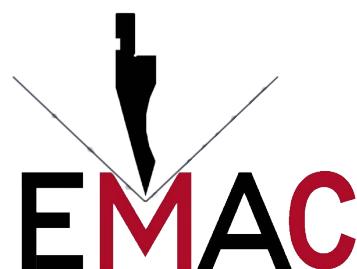


EMACPRESS TOOLS

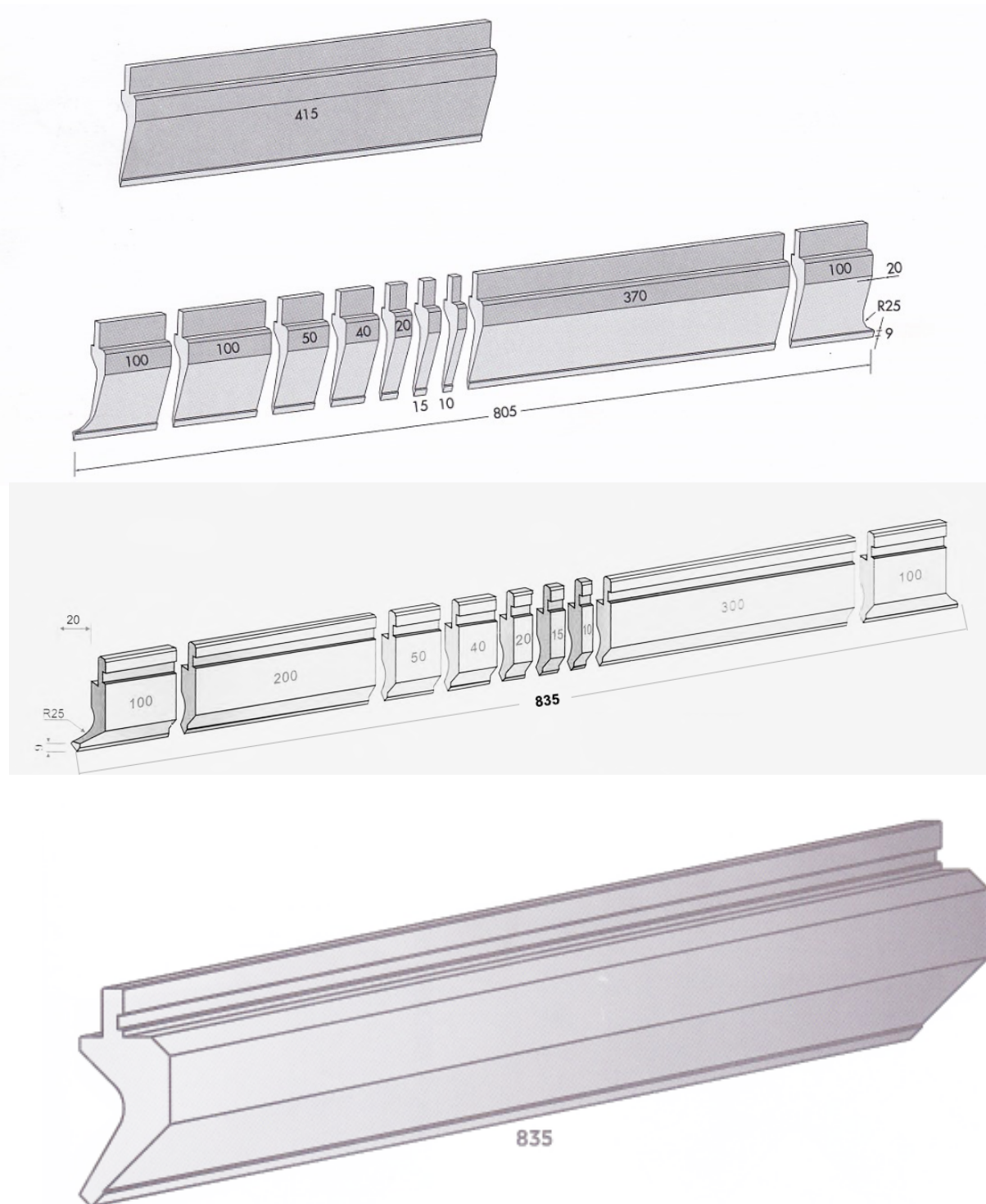


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**www.emacpress.com
emacpress@hotmail.com**

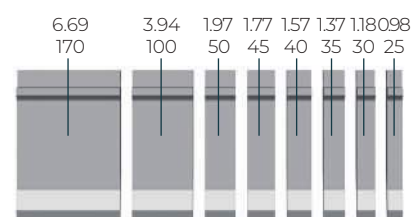
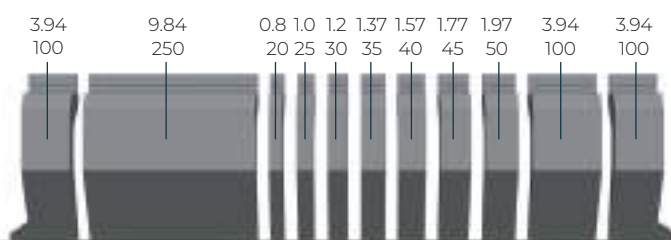


SEGMENTATION



795 mm (31.29 in) - 11 segments

495 mm (19.49 in) - 8 segments



STANDARD



GOOSENECK



SASH



NARROW



ACUTE



42Cr: 900-1150 N/mm²

500 kN/m max.

835 mm	32.87 in	17.5 kg
415 mm	16.34 in	8.7 kg
795 mm	31.29 in	16.6 kg FX
805 mm	31.69 in	16.9 kg F

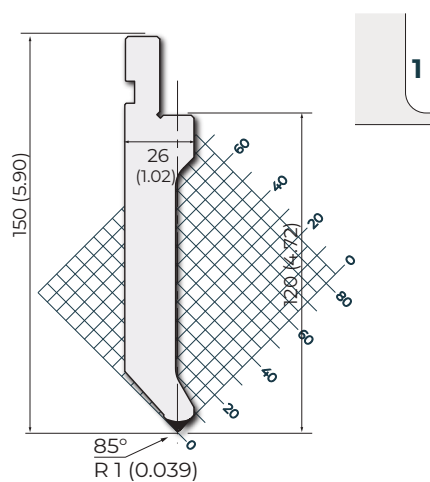
Also available H=85

42Cr: 900-1150 N/mm²

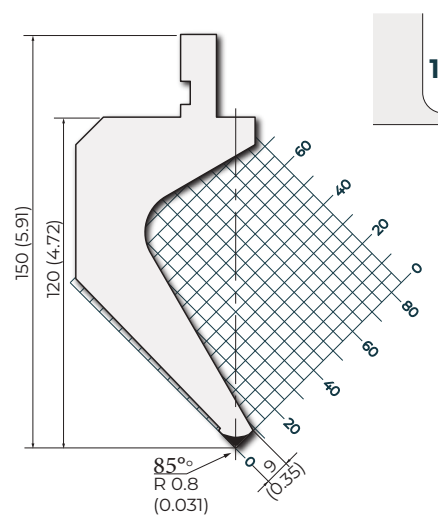
500 kN/m max.

835 mm	32.87 in	21.0 kg
415 mm	16.34 in	10.5 kg
795 mm	31.29 in	20.5 kg FX
800 mm	31.50 in	20.5 kg FC

Also available H=85



85°

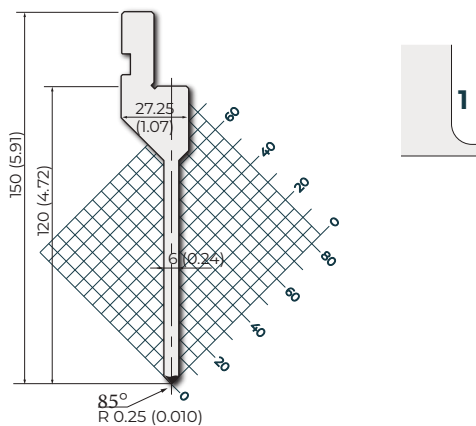


85°

42Cr: 900-1150 N/mm² 500 kN/m max.

900 mm	35.43 in	10.6 kg
415 mm	16.34 in	5.3 kg
795 mm	31.29 in	10.1 kg FX
805 mm	31.69 in	10.2 kg F

Also available H=85

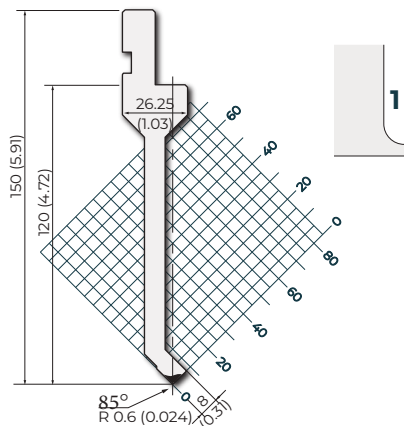


85°

42Cr: 900-1150 N/mm² 350 kN/m max.

900 mm	35.43 in	12.9 kg
415 mm	16.34 in	5.9 kg
795 mm	31.29 in	12.2 kg FX
805 mm	31.69 in	12.4 kg F

Also available H=85

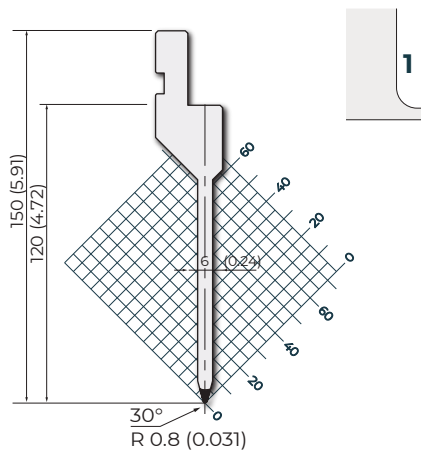


85°

42Cr: 900-1150 N/mm² 500 kN/m max.

900 mm	35.43 in	10.8 kg
415 mm	16.34 in	4.9 kg
795 mm	31.29 in	9.5 kg FX
805 mm	31.69 in	9.6 kg F

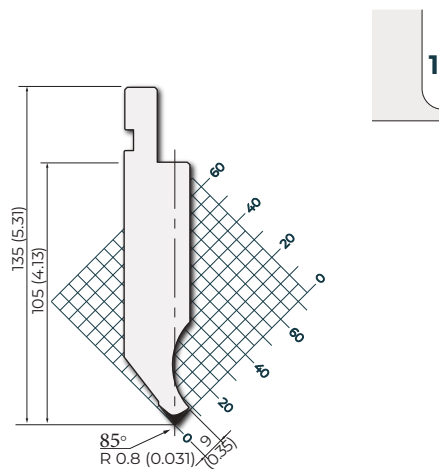
Also available H=85



30°

42Cr: 900-1150 N/mm² 1000 kN/m max.

835 mm	32.87 in	17.5 kg
415 mm	16.34 in	8.8 kg
795 mm	31.29 in	17.5 kg FX
805 mm	31.69 in	17.5 kg F



85°

42Cr: 900-1150 N/mm² 350 kN/m max.

P.130.85.R06

H=100.00 / A=130.00 / R=0.6 [mm]

835 mm	32.87 in	9.8 kg
415 mm	16.34 in	4.9 kg
795 mm	31.29 in	9.4 kg FX
805 mm	31.69 in	9.4 kg F
900 mm	35.43 in	10.5 kg

42Cr: 900-1150 N/mm² 350 kN/m max.

PK.130.85.R025

H=100.00 / A=130.00 / R=0.25 [mm]

835 mm	32.87 in	9.7 kg
415 mm	16.34 in	4.8 kg
795 mm	31.29 in	9.3 kg FX
805 mm	31.69 in	9.3 kg F
900 mm	35.43 in	10.4 kg

C45: 560-710 N/mm² 400 kN/m max.

P.130.85.R08

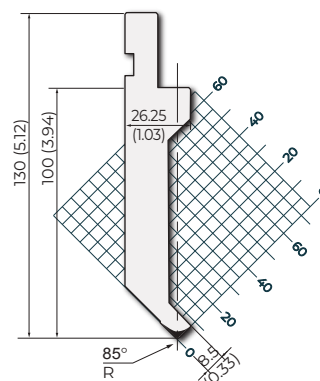
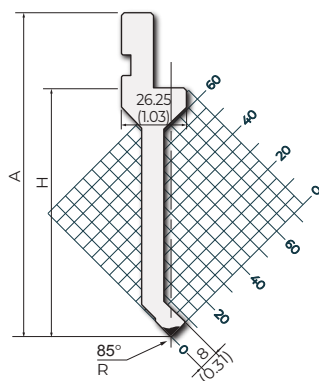
H=100.00 / A=130.00 / R=0.8 [mm]

835 mm	32.87 in	14.0 kg
415 mm	16.34 in	7.0 kg
795 mm	31.29 in	14.0 kg FX
805 mm	31.69 in	14.0 kg F

C45: 560-710 N/mm² 400 kN/m max.

H=100.00 / A=130.00 / R=0.25 [mm]

835 mm	32.87 in	13.7 kg
415 mm	16.34 in	6.8 kg
795 mm	31.29 in	13.2 kg FX
805 mm	31.69 in	13.2 kg F



85°

85°

C45: 560-710 N/mm² 500 kN/m max.

P.135.85.R08

H=105 / A=135 / R=0.8 [mm]

835 mm	32.87 in	22.5 kg
415 mm	16.34 in	11.2 kg
795 mm	31.29 in	21.7 kg FX
805 mm	31.69 in	21.7 kg F

C45: 560-710 N/mm² 500 kN/m max.

P.135.88.R3

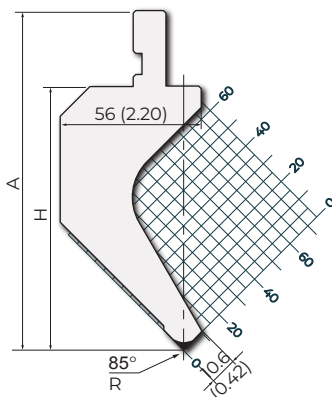
H=105 / A=135 / R=3.0 [mm]

835 mm	32.87 in	22.5 kg
415 mm	16.34 in	11.2 kg
795 mm	31.29 in	21.5 kg FX
805 mm	31.69 in	21.5 kg F

C45: 560-710 N/mm² 500 kN/m max.

H=105 / A=135 / R=0.25 [mm]

835 mm	32.87 in	22.7 kg
415 mm	16.34 in	11.5 kg
795 mm	31.29 in	21.0 kg FX
805 mm	31.69 in	21.0 kg F



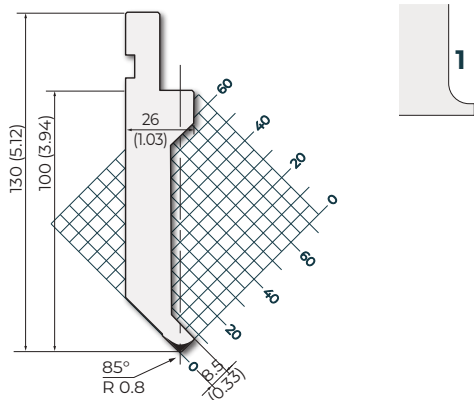
85°

C45: 560-710 N/mm²

700 kN/m max.

P.130.85.R08

835 mm	32.87 in	13.7 kg	
415 mm	16.34 in	6.8 kg	
795 mm	31.29 in	13.0 kg	FX
805 mm	31.69 in	13.2 kg	F



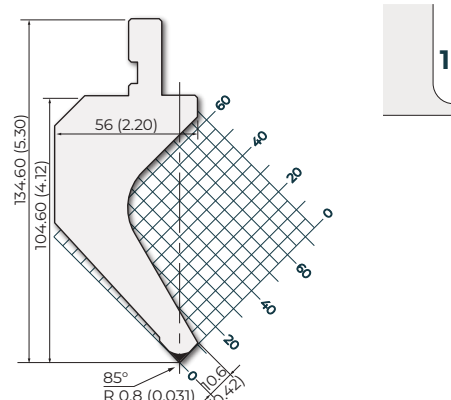
85°

C45: 560-710 N/mm²

500 kN/m max.

PK.135.85.R08

835 mm	32.87 in	22.2 kg	
415 mm	16.34 in	11.0 kg	
795 mm	31.29 in	21.7 kg	FX
805 mm	31.69 in	21.7 kg	F



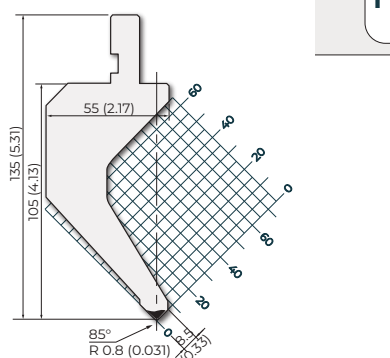
85°

42Cr: 900-1150 N/mm²

800 kN/m max.

P.135.85.R08

835 mm	32.87 in	20.9 kg	
415 mm	16.34 in	10.4 kg	
795 mm	31.29 in	19.2 kg	FX
805 mm	31.69 in	19.2 kg	F



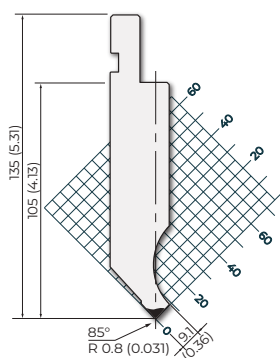
85°

C45: 560-710 N/mm²

1000 kN/m max.

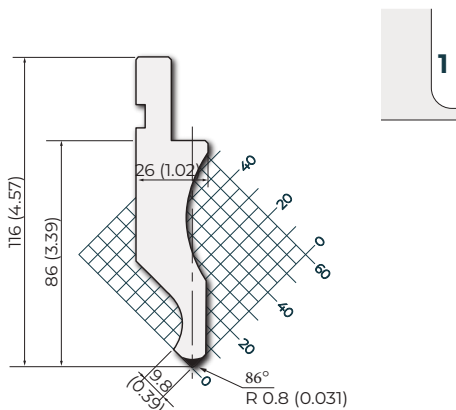
PS.135.85.R08

835 mm	32.87 in	17.7 kg	
415 mm	16.34 in	8.5 kg	
795 mm	31.29 in	16.0 kg	FX
805 mm	31.69 in	16.0 kg	F



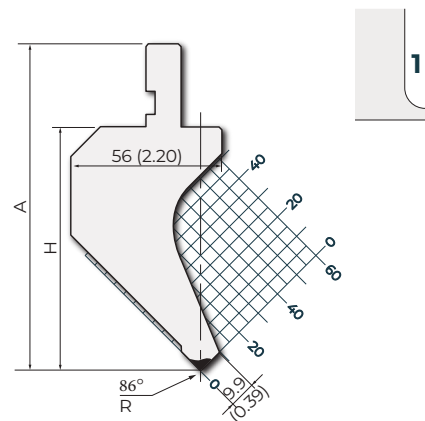
85°

C45: 560-710 N/mm ²			500 kN/m max.
835 mm	32.87 in	13.0 kg	
415 mm	16.34 in	6.5 kg	
795 mm	31.29 in	13.0 kg	FX
805 mm	31.69 in	13.0 kg	F



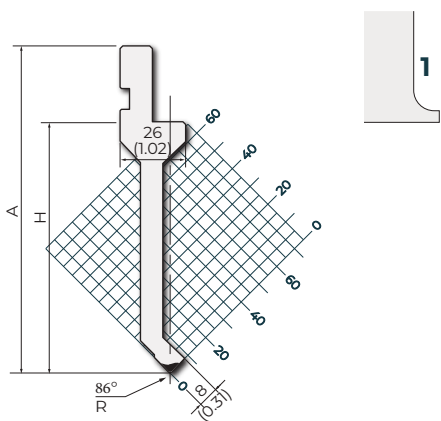
86°

C45: 560-710 N/mm ²			600 kN/m max.	C45: 560-710 N/mm ²			600 kN/m max.
PK.120.86.R08				PK.120.86.R025			
H=90 / A=120 / R=0.8 [mm] (H=3.52 / A=4.70 / R=0.031) [in]				H=90 / A=120 / R=0.25 [mm] (H=3.53 / A=4.71 / R=0.010) [in]			
835 mm	32.87 in	21.0 kg		835 mm	32.87 in	21.0 kg	
415 mm	16.34 in	10.5 kg		415 mm	16.34 in	10.5 kg	
795 mm	31.29 in	21.0 kg	FX	795 mm	31.29 in	21.0 kg	FX
805 mm	31.69 in	21.0 kg	F	805 mm	31.69 in	21.0 kg	F



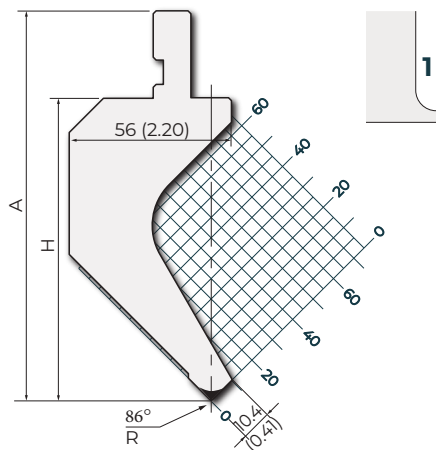
86°

42Cr: 900-1150 N/mm ²			350 kN/m max.	42Cr: 900-1150 N/mm ²			350 kN/m max.
P.130.86.R06				P.130.86.R06			
H=100.00 / A=130.00 / R=0.6 [mm] (H=3.94 / A=5.12 / R=0.024) [in]				H=100.00 / A=130.00 / R=0.25 [mm] (H=3.94 / A=5.12 / R=0.010) [in]			
835 mm	32.87 in	11.5 kg		835 mm	32.87 in	11.5 kg	
415 mm	16.34 in	5.7 kg		415 mm	16.34 in	5.7 kg	
795 mm	31.29 in	11.0 kg	FX	795 mm	31.29 in	11.0 kg	FX
805 mm	31.69 in	11.0 kg	F	805 mm	31.69 in	11.0 kg	F



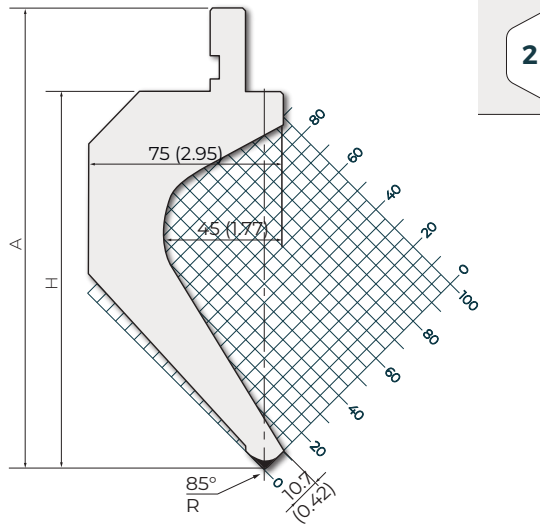
86°

C45: 560-710 N/mm ²			500 kN/m max.	C45: 560-710 N/mm ²			500 kN/m max.
PK.135.86.R08				PK.135.86.R08			
H=104.35 / A=134.35 / R=0.8 [mm] (H=4.11 / A=5.29 / R=0.031) [in]				H=104.60 / A=134.60 / R=0.25 [mm] (H=4.12 / A=5.30 / R=0.010) [in]			
835 mm	32.87 in	22.0 kg		835 mm	32.87 in	22.0 kg	
415 mm	16.34 in	11.5 kg		415 mm	16.34 in	11.5 kg	
795 mm	31.29 in	23.0 kg	FX	795 mm	31.29 in	23.0 kg	FX
805 mm	31.69 in	23.0 kg	F	805 mm	31.69 in	23.0 kg	F



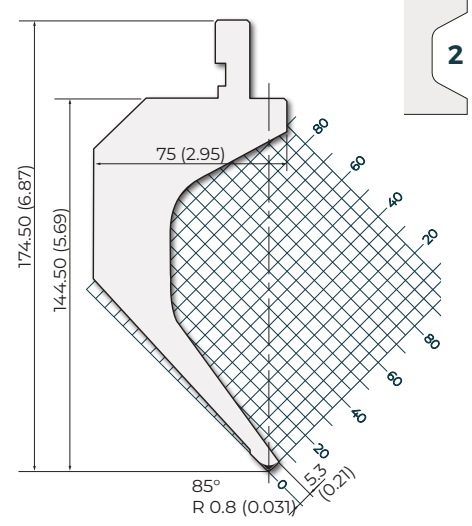
86°

42Cr: 900-1150 N/mm ² 900 kN/m max.				42Cr: 900-1150 N/mm ² 900 kN/m max.			
TOP.175.85.R08				TOP.175.85.R2			
H=145.00 / A=175.00 / R=0.8 [mm] (H=5.71 / A=6.89 / R=0.031) [in]				H=144.30 / A=174.30 / R=2.0 [mm] (H=5.71 / A=6.89 / R=0.031) [in]			
525 mm	20.67 in	20.9 kg		525 mm	20.67 in	20.9 kg	
495 mm	19.49 in	19.7 kg	FA	495 mm	19.49 in	19.7 kg	FA
500 mm	19.68 in	19.9 kg	FB	500 mm	19.68 in	19.9 kg	FB



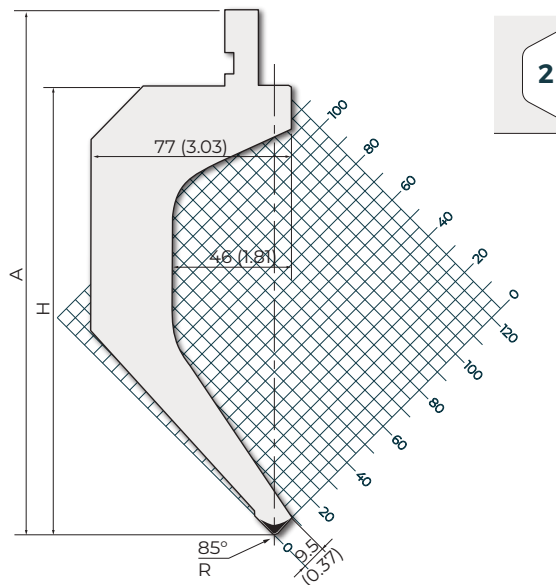
85°

42Cr: 900-1150 N/mm ² 200 kN/m max.			
TOP.175.85.R08.S			
525 mm	20.67 in	18.5 kg	
495 mm	19.49 in	17.4 kg	FA
500 mm	19.68 in	17.6 kg	FB

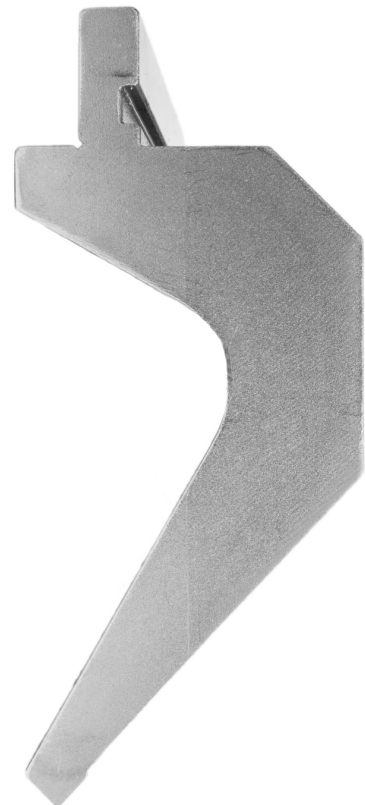


85°

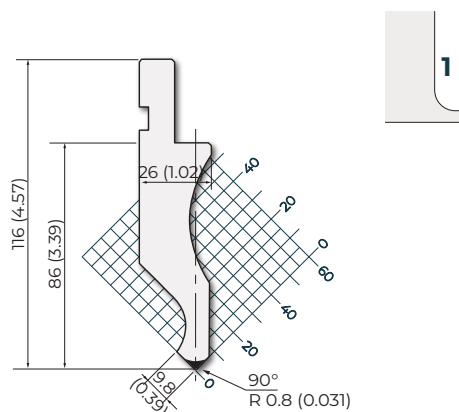
42Cr: 900-1150 N/mm ² 700 kN/m max.				42Cr: 900-1150 N/mm ² 700 kN/m max.			
TOP.205.85.R08				TOP.205.85.R2			
H=175.00 / A=205.00 / R=0.8 [mm] (H=6.89 / A=8.07 / R=0.031) [in]				H=174.30 / A=204.30 / R=2.0 [mm] (H=6.86 / A=8.04 / R=0.079) [in]			
525 mm	20.67 in	24.0 kg		525 mm	20.67 in	24.0 kg	
495 mm	19.49 in	22.6 kg	FA	495 mm	19.49 in	22.6 kg	FA
500 mm	19.68 in	22.9 kg	FB	500 mm	19.68 in	22.9 kg	FB



85°

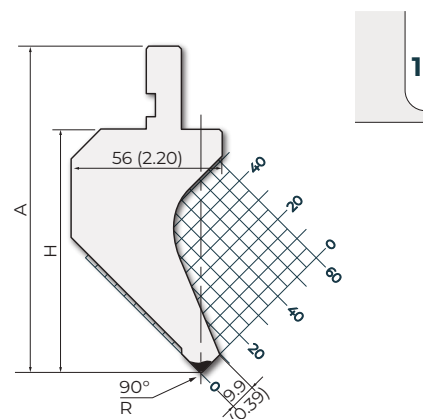


C45: 560-710 N/mm ²			500 kN/m max.
DK.116.90.R08			
835 mm	32.87 in	13.0 kg	
415 mm	16.34 in	6.5 kg	
795 mm	31.29 in	13.0 kg	FX
805 mm	31.69 in	13.0 kg	F



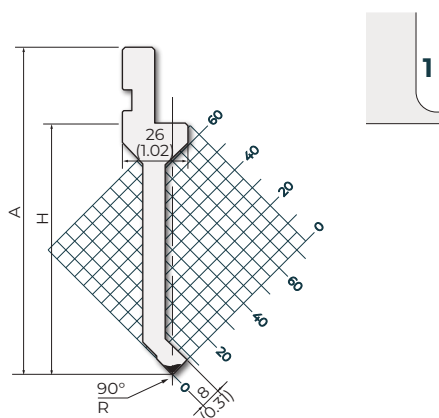
C45: 560-710 N/mm ²			600 kN/m max.
PK.120.90.R08			
H=89.35 / A=119.35 / R=0.8 [mm] (H=3.52 / A=4.70 / R=0.031) [in]			
835 mm	32.87 in	21.0 kg	
415 mm	16.34 in	10.5 kg	
795 mm	31.29 in	21.0 kg	FX
805 mm	31.69 in	21.0 kg	F

C45: 560-710 N/mm ²			600 kN/m max.
PK.120.90.R025			
H=89.60 / A=119.60 / R=0.25 [mm] (H=3.53 / A=4.71 / R=0.010) [in]			
835 mm	32.87 in	21.0 kg	
415 mm	16.34 in	10.5 kg	
795 mm	31.29 in	21.0 kg	FX
805 mm	31.69 in	21.0 kg	F



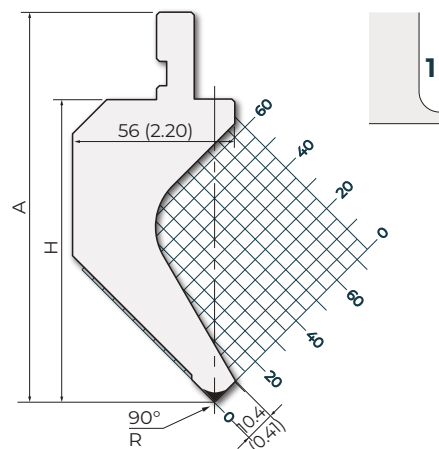
42Cr: 900-1150 N/mm ²			350 kN/m max.
P.130.90.R06			
H=100.00 / A=130.00 / R=0.6 [mm] (H=3.94 / A=5.12 / R=0.024) [in]			
835 mm	32.87 in	11.5 kg	
415 mm	16.34 in	5.7 kg	
795 mm	31.29 in	11.0 kg	FX
805 mm	31.69 in	11.0 kg	F

42Cr: 900-1150 N/mm ²			350 kN/m max.
P.130.90.R025			
H=100.00 / A=130.00 / R=0.25 [mm] (H=3.94 / A=5.12 / R=0.010) [in]			
835 mm	32.87 in	11.5 kg	
415 mm	16.34 in	5.7 kg	
795 mm	31.29 in	11.0 kg	FX
805 mm	31.69 in	11.0 kg	F



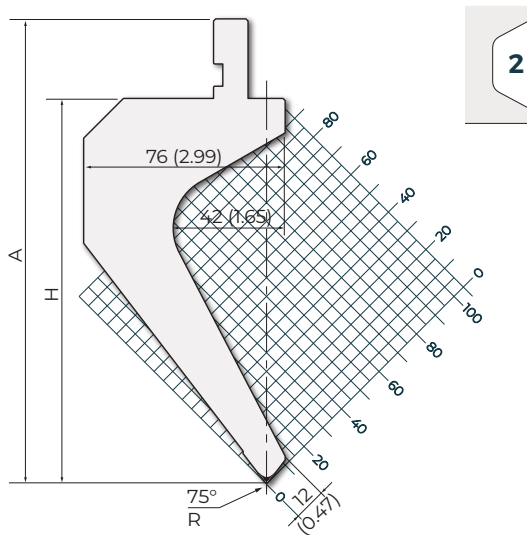
C45: 560-710 N/mm ²			500 kN/m max.
PK.135.90.R08			
H=104.35 / A=134.35 / R=0.8 [mm] (H=4.11 / A=5.29 / R=0.031) [in]			
835 mm	32.87 in	22.0 kg	
415 mm	16.34 in	11.5 kg	
795 mm	31.29 in	23.0 kg	FX
805 mm	31.69 in	23.0 kg	F

C45: 560-710 N/mm ²			500 kN/m max.
PK.135.90.R025			
H=104.60 / A=134.60 / R=0.25 [mm] (H=4.12 / A=5.30 / R=0.010) [in]			
835 mm	32.87 in	22.0 kg	
415 mm	16.34 in	11.5 kg	
795 mm	31.29 in	23.0 kg	FX
805 mm	31.69 in	23.0 kg	F

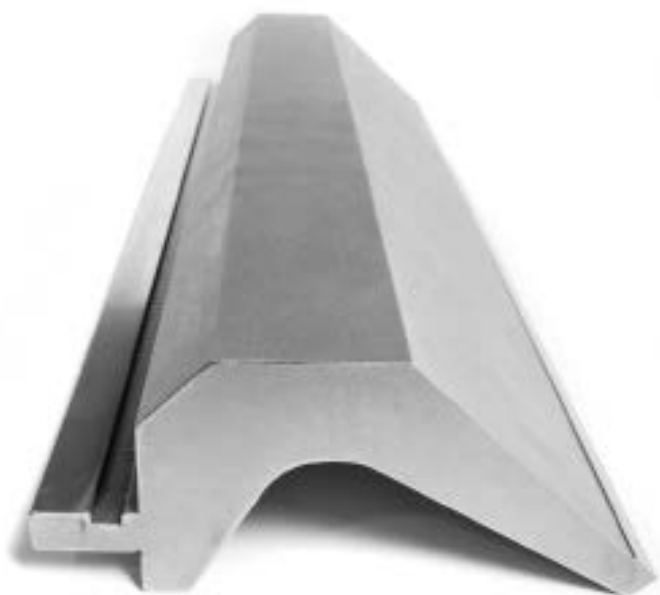


42Cr: 900-1150 N/mm² 750 kN/m max. 42Cr: 900-1150 N/mm² 750 kN/m max.

TOP.175.75.R08			TOP.175.75.R2		
H=145.00 / A=175.00 / R=0.8 [mm] (H=5.71 / A=6.89 / R=0.031) [in]			H=144.20 / A=174.30 / R=2.0 [mm] (H=5.68 / A=6.86 / R=0.079) [in]		
525 mm	20.67 in	21.5 kg	525 mm	20.67 in	21.5 kg
495 mm	19.49 in	20.3 kg FA	495 mm	19.49 in	20.3 kg FA
500 mm	19.68 in	20.5 kg FB	500 mm	19.68 in	20.5 kg FB

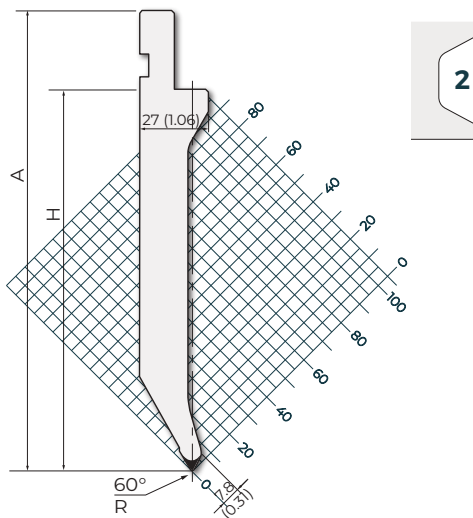


75°



42Cr: 900-1150 N/mm² 800 kN/m max. 42Cr: 900-1150 N/mm² 800 kN/m max.

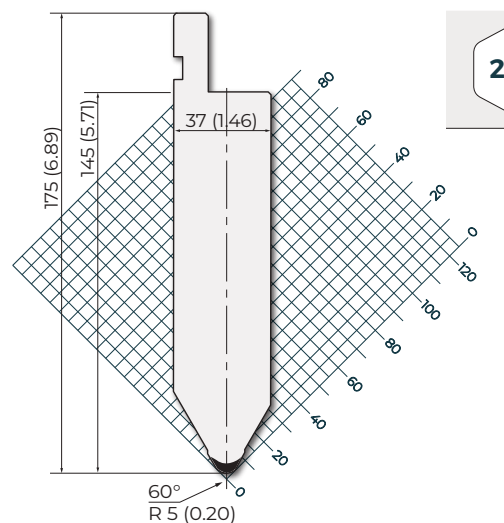
TOP.175.60.R08			TOP.175.60.R2		
H=145.00 / A=175.00 / R=0.8 [mm] (H=5.71 / A=6.89 / R=0.031) [in]			H=143.80 / A=173.80 / R=2.0 [mm] (H=5.66 / A=6.84 / R=0.079) [in]		
525 mm	20.67 in	12.0 kg	525 mm	20.67 in	12.0 kg
495 mm	19.49 in	11.3 kg FA	495 mm	19.49 in	12.0 kg FA
500 mm	19.68 in	11.4 kg FB	500 mm	19.68 in	11.0 kg FB



60°

42Cr: 900-1150 N/mm² 1600 kN/m max.

TOP.175.60.R5		
525 mm	20.67 in	21.5 kg
495 mm	19.49 in	21.0 kg FA
500 mm	19.68 in	19.0 kg FB



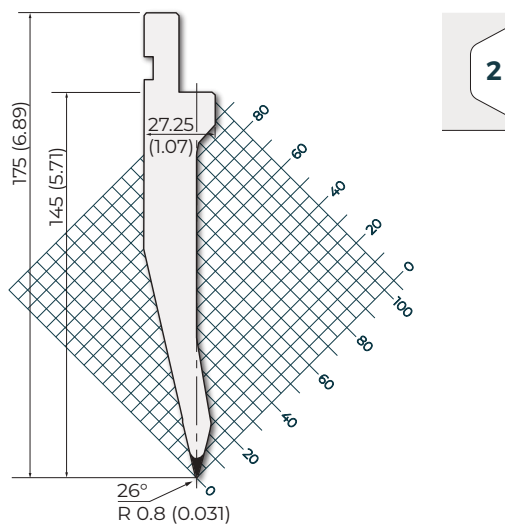
60°

42Cr: 900-1150 N/mm²

950 kN/m max.

TOP.175.26.R08

525 mm	20.67 in	11.0 kg
495 mm	19.49 in	10.4 kg FA
500 mm	19.68 in	10.5 kg FB



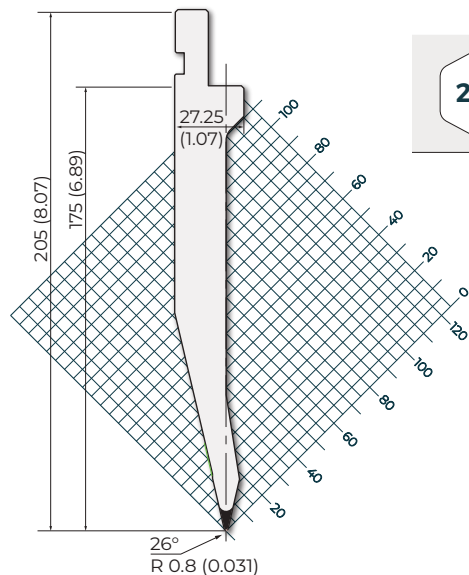
26°

42Cr: 900-1150 N/mm²

950 kN/m max.

TOP.205.26.R08

525 mm	20.67 in	14.0 kg
495 mm	19.49 in	13.2 kg FA
500 mm	19.68 in	13.3 kg FB



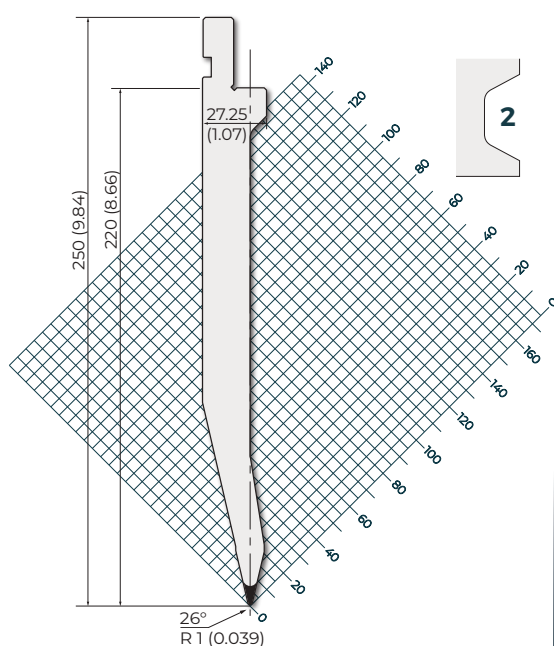
26°

42Cr: 900-1150 N/mm²

1000 kN/m max.

TOP.250.26.R1

525 mm	20.67 in	17.7 kg
495 mm	19.49 in	17.7 kg FA
500 mm	19.68 in	17.7 kg FB



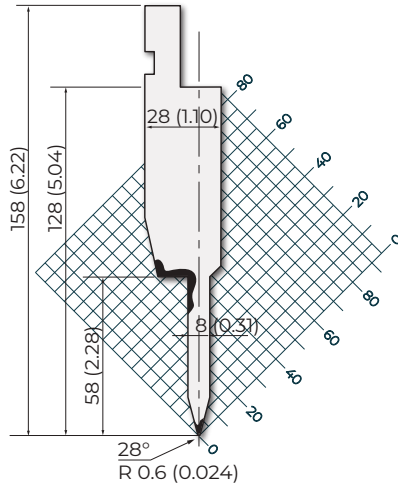
26°

42Cr: 900-1150 N/mm²

800 kN/m max. - 1000 kN/m max.

TOP.SP.134.28.8

525 mm	20.67 in	11.0 kg	FA	To use with: TOP.SM-134.28.8 (Page 81)
495 mm	19.49 in	10.3 kg		



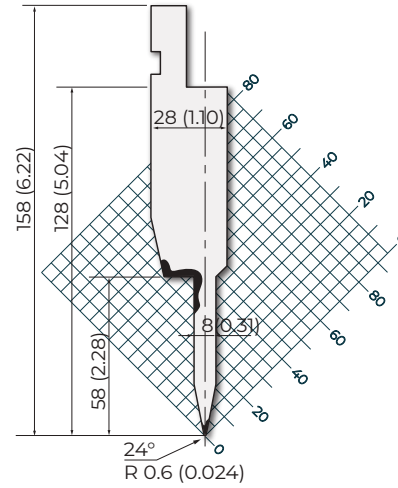
28°

42Cr: 900-1150 N/mm²

800 kN/m max. - 1000 kN/m max.

TOP.SP.134.24.8

525 mm	20.67 in	11.0 kg	FA	To use with: TOP.SM-134.24.8 (Page 81)
495 mm	19.49 in	10.3 kg		



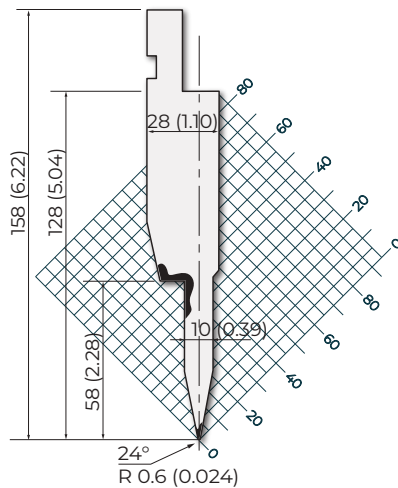
24°

42Cr: 900-1150 N/mm²

800 kN/m max. - 1000 kN/m max.

TOP.SP.134.24.10

525 mm	20.67 in	11.0 kg	FA	To use with: TOP.SM-134.24.10 (Page 81)
495 mm	19.49 in	10.3 kg		



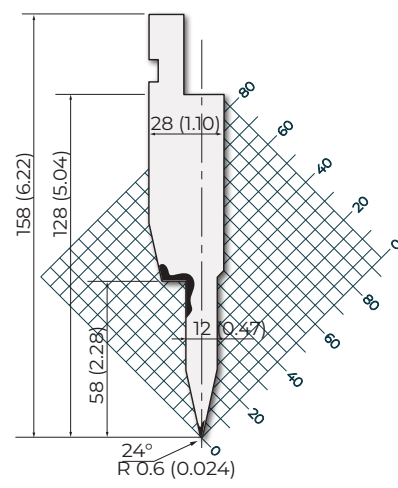
24°

42Cr: 900-1150 N/mm²

800 kN/m max. - 1000 kN/m max.

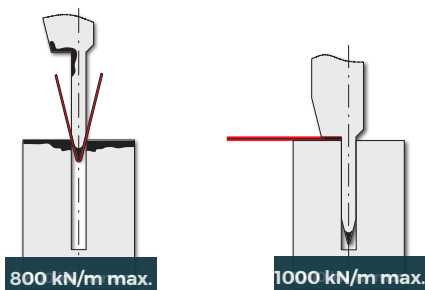
TOP.SP.134.24.12

525 mm	20.67 in	11.6 kg	FA	To use with: TOP.SM-134.24.12 (Page 81)
495 mm	19.49 in	11.0 kg		



24°

Ex. Application

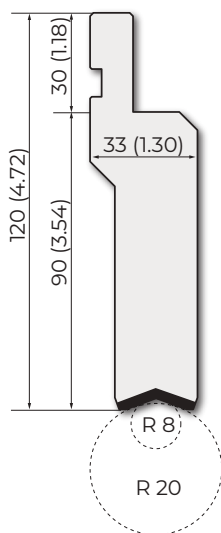


S [mm]	S [in]	A [mm]	A [in]	R420 N/mm ² kN/m	R700 N/mm ² kN/m
0.6	0.02	3.0	0.12	90	150
0.8	0.03	3.0	0.12	120	200
1.0	0.04	3.5	0.14	150	250
1.25	0.05	3.5	0.14	170	260

S [mm]	S [in]	A [mm]	A [in]	R420 N/mm ² kN/m	R700 N/mm ² kN/m
0.6	0.02	1.2	0.05	230	350
0.8	0.03	1.6	0.06	320	500
1.0	0.04	1.0	0.04	400	600
1.25	0.05	2.5	0.10	500	800

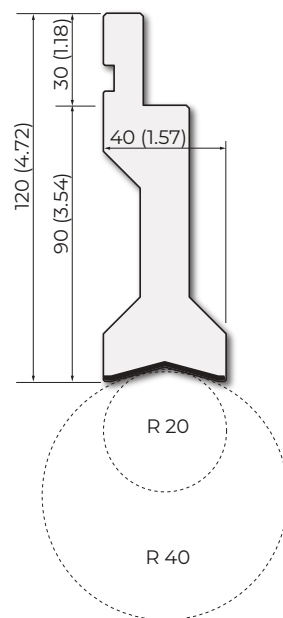


42Cr: 900-1150 N/mm ²			1000 kN/m max.
TOP.PC.120-08			
522 mm	20.55 in	11.0 kg	
495 mm	19.49 in	12.0 kg	FA



R8 - R20

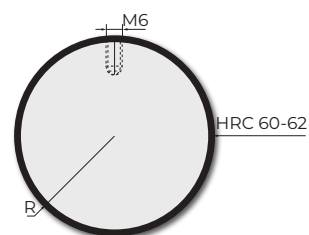
42Cr: 900-1150 N/mm ²			1000 kN/m max.
TOP.PC.120-20			
522 mm	20.67 in	10.5 kg	
495 mm	19.49 in	10.0 kg	FA



R20 - R40

C53: 610-760 N/mm ²			1000 kN/m max.
Radius punches: R08-R40			

Model	R [mm]	R [in]		
TOP.C08	8	0.31	0,8 kg	1,9 kg
TOP.C10	10	0.39	1,3 kg	2,7 kg
TOP.C12.5	12,5	0.49	2,0 kg	2,8 kg
TOP.C15	15	0.59	3,0 kg	3,8 kg
TOP.C17.5	17,5	0.69	4,0 kg	4,7 kg
TOP.C20	20	0.79	5,2 kg	6,6 kg
TOP.C22.5	22,5	0.88	6,6 kg	6,6 kg
TOP.C25	25	0.98	8,1 kg	7,5 kg
TOP.C27.5	27,5	1.08	9,8 kg	9,2 kg
TOP.C30	30	1.18	11,7 kg	11,3 kg
TOP.C32.5	32,5	1.28	13,7 kg	12,9 kg
TOP.C35	35	1.38	16,0 kg	15,1 kg
TOP.C37.5	37,5	1.47	18,2 kg	17,2 kg
TOP.C40	40	1.57	20,7 kg	19,5 kg

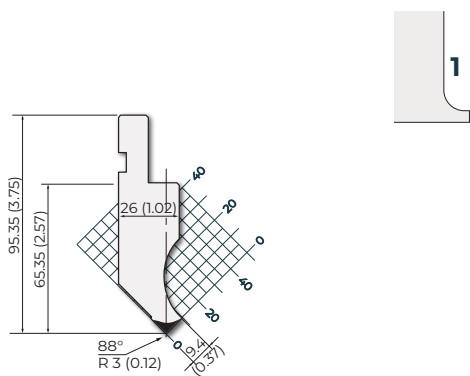


C45: 560-710 N/mm²

1000 kN/m max.

P.95.88.R3

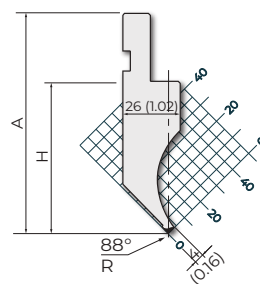
835 mm	32.87 in	11.0 kg
415 mm	16.34 in	5.5 kg
795 mm	31.29 in	10.0 kg FX
805 mm	31.69 in	10.0 kg F

**88°**42Cr: 900-1150 N/mm²

350 kN/m max.

P.97.88.R06H=67.00 / A=97.00 / R=0.6 [mm]
(H=2.64 / A=3.82 / R=0.024) [in]

835 mm	32.87 in	9.5 kg
415 mm	16.34 in	5.0 kg
795 mm	31.29 in	10.0 kg FX
805 mm	31.69 in	10.0 kg F
900 mm	35.43 in	11.0 kg



88°

42Cr: 900-1150 N/mm²

350 kN/m max.

P.97.88.R025H=66.95 / A=96.95 / R=0.25 [mm]
(H=2.64 / A=3.82 / R=0.010) [in]

835 mm	32.87 in	9.5 kg
415 mm	16.34 in	5.0 kg
795 mm	31.29 in	9.2 kg FX
805 mm	31.69 in	9.2 kg F
900 mm	35.43 in	9.5 kg

C45: 560-710 N/mm²

1000 kN/m max.

P.97.88.R08H=66.65 / A=96.65 / R=0.8 [mm]
(H=2.62 / A=3.81 / R=0.031) [in]

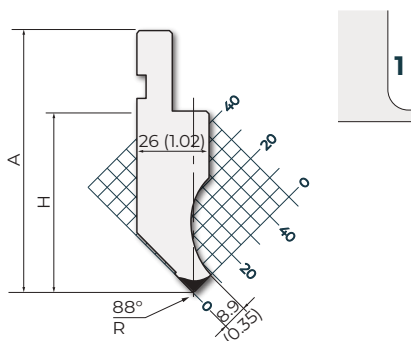
835 mm	32.87 in	11.1 kg
415 mm	16.34 in	5.5 kg
795 mm	31.29 in	10.6 kg FX
805 mm	31.69 in	10.6 kg F
900 mm	35.43 in	11.0 kg

C45: 560-710 N/mm²

1000 kN/m max.

PK.97.88.R025H=66.60 / A=96.60 / R=0.25 [mm]
(H=2.62 / A=3.80 / R=0.010) [in]

835 mm	32.87 in	11.1 kg
415 mm	16.34 in	5.5 kg
795 mm	31.29 in	10.0 kg FX
805 mm	31.69 in	10.0 kg F
900 mm	35.43 in	11.8 kg



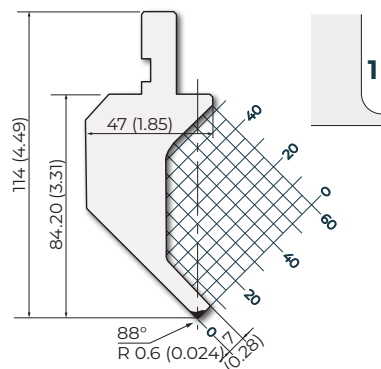
88°

42Cr: 900-1150 N/mm²

200 kN/m max.

P.114.88.R06

835 mm	32.87 in	15.6 kg
415 mm	16.34 in	7.7 kg
795 mm	31.29 in	14.5 kg FX
805 mm	31.69 in	14.5 kg F



88°

42Cr: 900-1150 N/mm² 350 kN/m max.

P.130.88.R06		
H=100.00 / A=130.00 / R=0.6 [mm] (H=3.94 / A=5.12 / R=0.024) [in]		

835 mm	32.87 in	9.8 kg
415 mm	16.34 in	4.9 kg
795 mm	31.29 in	9.4 kg FX
805 mm	31.69 in	9.4 kg F
900 mm	35.43 in	10.5 kg

42Cr: 900-1150 N/mm² 350 kN/m max.

PK.130.88.R025		
H=99.95 / A=129.95 / R=0.25 [mm] (H=3.94 / A=5.12 / R=0.010) [in]		

835 mm	32.87 in	9.7 kg
415 mm	16.34 in	4.8 kg
795 mm	31.29 in	9.3 kg FX
805 mm	31.69 in	9.3 kg F
900 mm	35.43 in	10.4 kg

C45: 560-710 N/mm² 400 kN/m max.

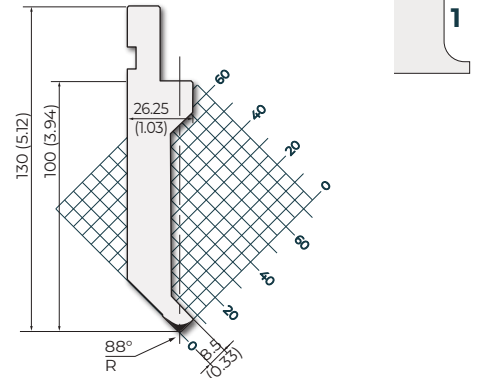
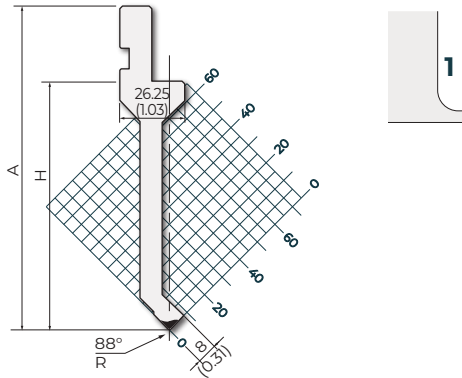
P.130.88.R08		
H=100.00 / A=130.00 / R=0.8 [mm] (H=3.94 / A=5.12 / R=0.031) [in]		

835 mm	32.87 in	14.0 kg
415 mm	16.34 in	7.0 kg
795 mm	31.29 in	14.0 kg FX
805 mm	31.69 in	14.0 kg F

C45: 560-710 N/mm² 400 kN/m max.

P.130.88.R025		
H=100.00 / A=130.00 / R=0.25 [mm] (H=3.94 / A=5.12 / R=0.010) [in]		

835 mm	32.87 in	13.7 kg
415 mm	16.34 in	6.8 kg
795 mm	31.29 in	13.2 kg FX
805 mm	31.69 in	13.2 kg F



88°

88°

C45: 560-710 N/mm² 500 kN/m max.

P.135.88.R08		
H=104.65 / A=134.50 / R=0.8 [mm] (H=4.12 / A=5.30 / R=0.031) [in]		

835 mm	32.87 in	22.5 kg
415 mm	16.34 in	11.2 kg
795 mm	31.29 in	21.7 kg FX
805 mm	31.69 in	21.7 kg F

C45: 560-710 N/mm² 500 kN/m max.

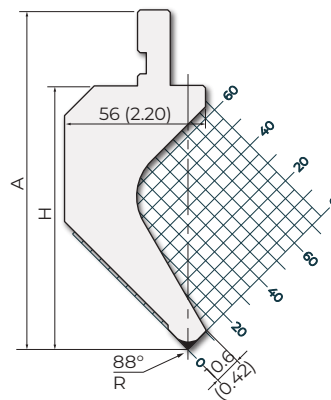
P.135.88.R3		
H=103.40 / A=133.40 / R=3.0 [mm] (H=4.07 / A=5.25 / R=0.118) [in]		

835 mm	32.87 in	22.5 kg
415 mm	16.34 in	11.2 kg
795 mm	31.29 in	21.5 kg FX
805 mm	31.69 in	21.5 kg F

C45: 560-710 N/mm² 500 kN/m max.

PK.135.88.R025		
H=104.60 / A=134.50 / R=0.25 [mm] (H=4.12 / A=5.30 / R=0.010) [in]		

835 mm	32.87 in	22.7 kg
415 mm	16.34 in	11.5 kg
795 mm	31.29 in	21.0 kg FX
805 mm	31.69 in	21.0 kg F



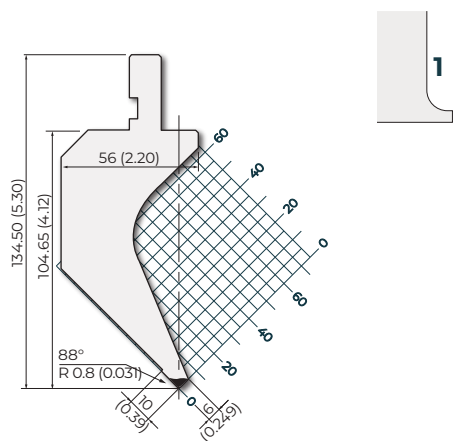
88°

C45: 560-710 N/mm²

450 kN/m max.

PS.135.88.R08

835 mm	32.87 in	22.0 kg
415 mm	16.34 in	12.5 kg
795 mm	31.29 in	21.5 kg FX
805 mm	31.69 in	21.5 kg F



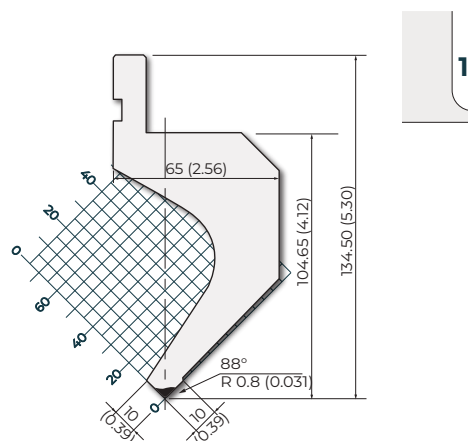
88°

C45: 560-710 N/mm²

450 kN/m max.

PR.135.88.R08

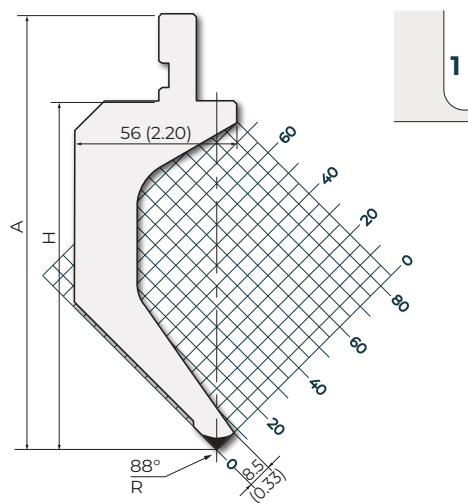
835 mm	32.87 in	25.0 kg
415 mm	16.34 in	11.5 kg
795 mm	31.29 in	24.1 kg FX
805 mm	31.69 in	24.1 kg F



88°

42Cr: 900-1150 N/mm² 500 kN/m max.**P.150.88.R08**H=120.00 / A=150.00 / R=0.8 [mm]
(H=4.72 / A=5.91 / R=0.031) [in]

835 mm	32.87 in	21.0 kg
415 mm	16.34 in	10.5 kg
795 mm	31.29 in	20.5 kg FX
805 mm	31.69 in	20.5 kg F
900 mm	35.43 in	23.0 kg



88°

42Cr: 900-1150 N/mm² 500 kN/m max.**P.150.88.R3**H=119.00 / A=149.00 / R=3.0 [mm]
(H=4.69 / A=5.87 / R=0.118) [in]

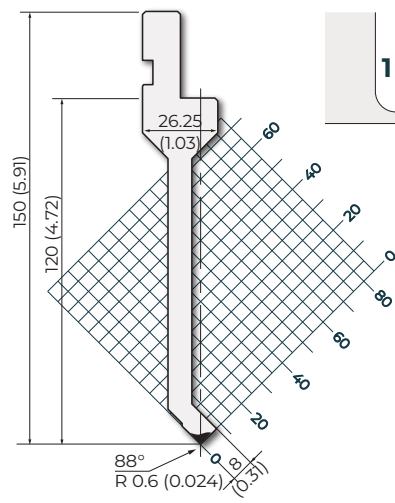
835 mm	32.87 in	19.2 kg
415 mm	16.34 in	15.0 kg
795 mm	31.29 in	20.0 kg FX
805 mm	31.69 in	20.0 kg F
900 mm	35.43 in	22.6 kg

42Cr: 900-1150 N/mm²

350 kN/m max.

P.150.88.R06

835 mm	32.87 in	12.9 kg
415 mm	16.34 in	12.9 kg
795 mm	31.29 in	12.9 kg FX
805 mm	31.69 in	12.9 kg F
900 mm	35.43 in	12.9 kg



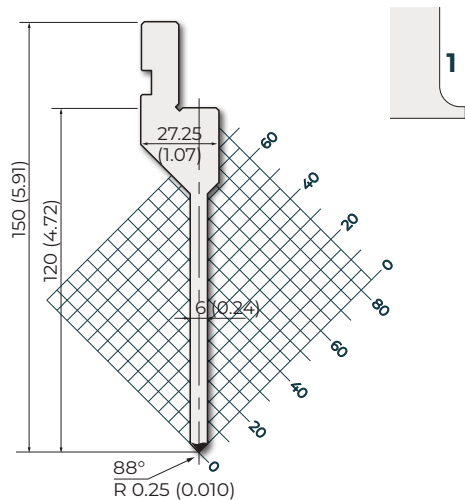
88°

42Cr: 900-1150 N/mm²

500 kN/m max.

P.150.88.R025

835 mm	32.87 in	10.6 kg
415 mm	16.34 in	5.3 kg
795 mm	31.29 in	10.1 kg FX
805 mm	31.69 in	10.2 kg F



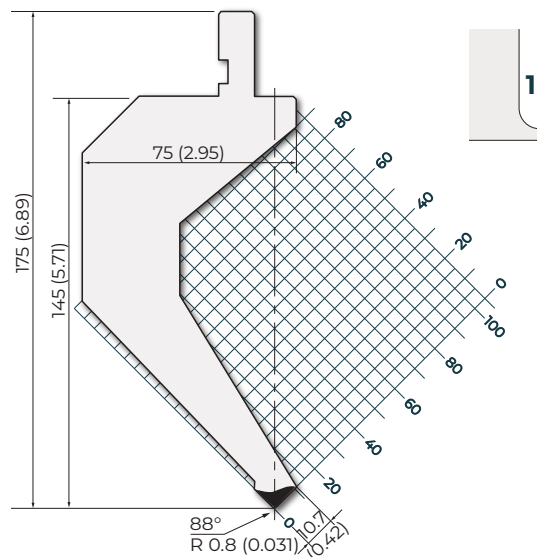
88°

C45: 560-710 N/mm²

500 kN/m max.

P.175.88.R08

835 mm	32.87 in	35.0 kg
415 mm	16.34 in	17.5 kg
795 mm	31.29 in	39.0 kg FX
805 mm	31.69 in	39.0 kg F



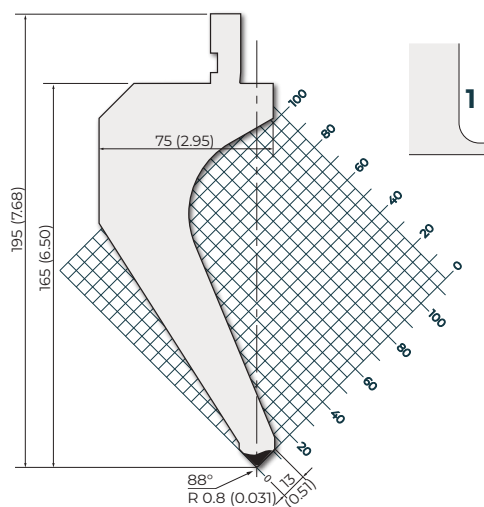
88°

C45: 560-710 N/mm²

600 kN/m max.

P.195.88.R08

835 mm	32.87 in	41.0 kg
415 mm	16.34 in	20.4 kg
795 mm	31.29 in	39.5 kg FX
805 mm	31.69 in	39.5 kg F



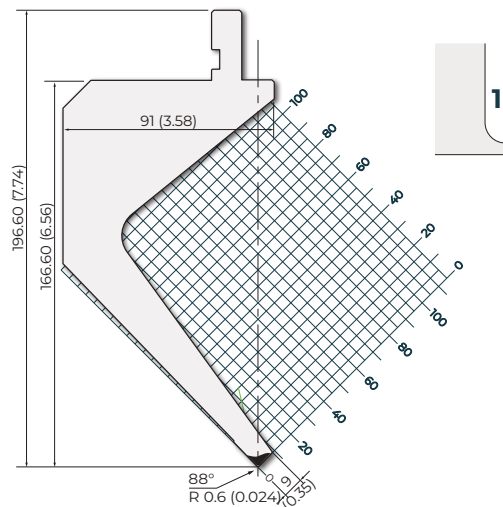
88°

C45: 560-710 N/mm²

300 kN/m max.

P.196.88.R06

835 mm	32.87 in	41.8 kg
415 mm	16.34 in	20.8 kg
795 mm	31.29 in	40.2 kg FX
805 mm	31.69 in	40.2 kg F
900 mm	35.43 in	45.0 kg



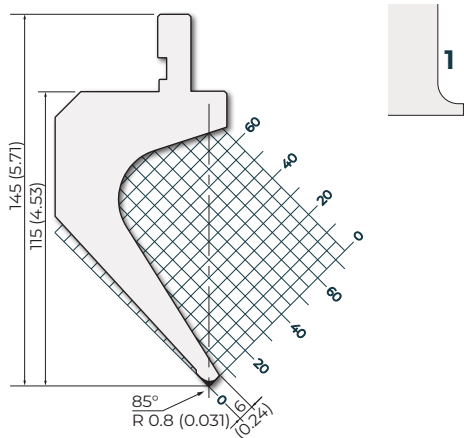
88°

42Cr: 900-1150 N/mm²

600 kN/m max.

P.145.85.R08

835 mm	32.87 in	22.6 kg
415 mm	16.34 in	11.2 kg
795 mm	31.29 in	20.0 kg FX
805 mm	31.69 in	20.0 kg F



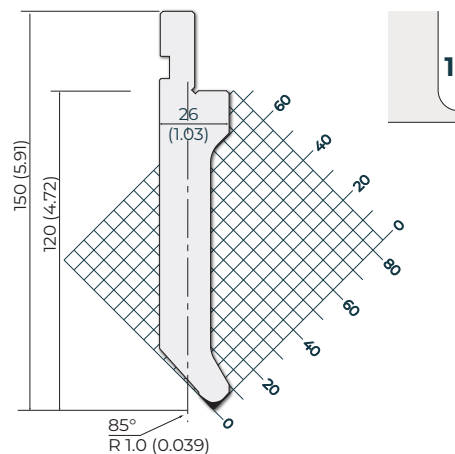
85°

C45: 560-710 N/mm²

400 kN/m max.

P.150.85.R1

835 mm	32.87 in	17.5 kg
415 mm	16.34 in	8.7 kg
795 mm	31.29 in	16.6 kg FX
805 mm	31.69 in	16.9 kg F



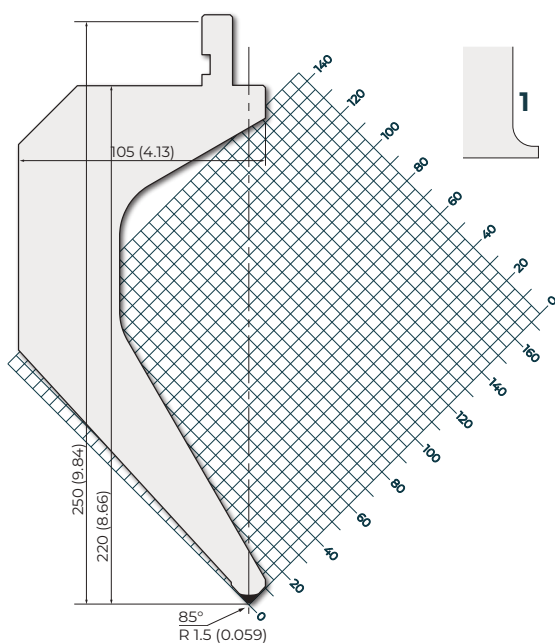
85°

42Cr: 900-1150 N/mm²

850 kN/m max.

P.250.85.R15

415 mm	16.34 in	33.1 kg
795 mm	31.29 in	63.3 kg FX



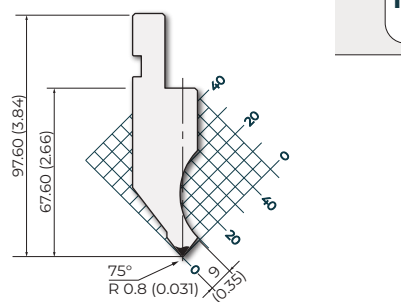
85°

42Cr: 900-1150 N/mm²

1000 kN/m max.

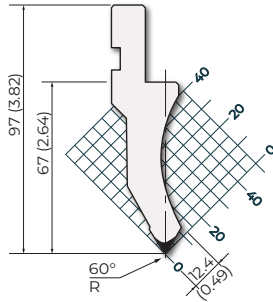
P.97.75.R08

835 mm	32.87 in	11.0 kg
415 mm	16.34 in	5.5 kg
795 mm	31.29 in	11.0 kg FX
805 mm	31.69 in	11.0 kg F



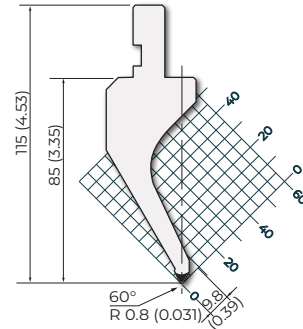
75°

C45: 560-710 N/mm ² 600 kN/m max.			C45: 560-710 N/mm ² 600 kN/m max.		
P.97.60.R08			P.97.60.R2		
R=0.8 (0.031)			R=2.0 (0.079)		
835 mm	32.87 in	9.0 kg	835 mm	32.87 in	9.0 kg
415 mm	16.34 in	4.5 kg	415 mm	16.34 in	5.0 kg
795 mm	31.29 in	9.0 kg FX	795 mm	31.29 in	9.0 kg FX
805 mm	31.69 in	9.0 kg F	805 mm	31.69 in	9.0 kg F



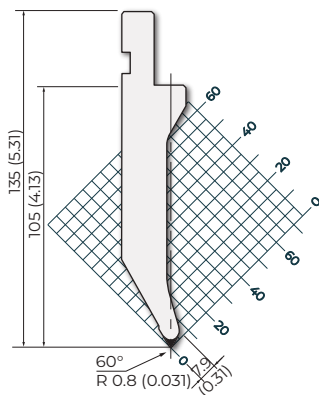
60°

42Cr: 900-1150 N/mm ² 400 kN/m max.		
P.115.60.R08		
835 mm	32.87 in	11.9 kg
415 mm	16.34 in	5.9 kg
795 mm	31.29 in	10.7 kg FX
805 mm	31.69 in	10.7 kg F



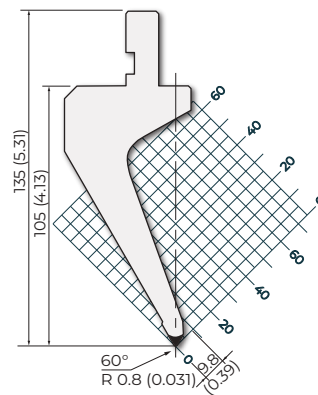
60°

42Cr: 900-1150 N/mm ² 800 kN/m max.		
P.135.60.R08		
835 mm	32.87 in	14.0 kg
415 mm	16.34 in	7.0 kg
795 mm	31.29 in	13.5 kg FX
805 mm	31.69 in	13.5 kg F



60°

42Cr: 900-1150 N/mm ² 700 kN/m max.		
PG.135.60.R08		
835 mm	32.87 in	16.5 kg
415 mm	16.34 in	8.5 kg
795 mm	31.29 in	16.0 kg FX
805 mm	31.69 in	16.0 kg F



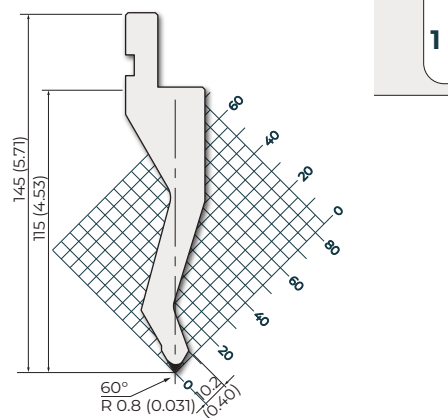
60°

42Cr: 900-1150 N/mm²

700 kN/m max.

P.145.60.R08

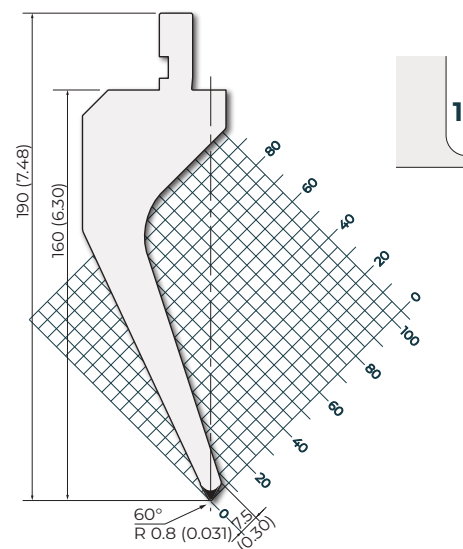
835 mm	32.87 in	15.0 kg	
415 mm	16.34 in	7.5 kg	
795 mm	31.29 in	15.0 kg	FX
805 mm	31.69 in	15.0 kg	F



60°

P.190.60.R08

835 mm	32.87 in	27.0 kg	
415 mm	16.34 in	13.5 kg	
795 mm	31.29 in	26.0 kg	FX
805 mm	31.69 in	26.1 kg	F



60°

P.95.45.R08

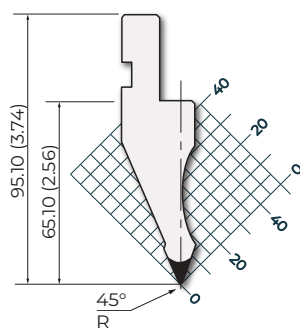
R=0.8 (0.031)

835 mm	32.87 in	9.5 kg	
415 mm	16.34 in	4.2 kg	
795 mm	31.29 in	9.0 kg	FX
805 mm	31.69 in	9.0 kg	F

P.95.45.R15

R=1.5 (0.059)

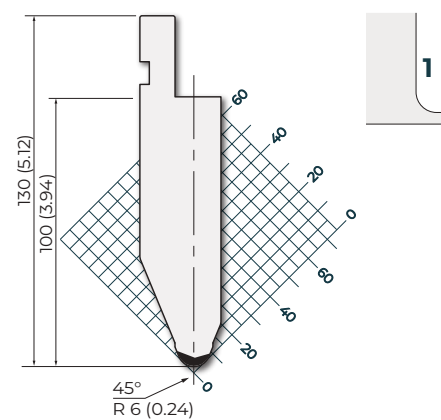
835 mm	32.87 in	9.5 kg	
415 mm	16.34 in	4.2 kg	
795 mm	31.29 in	9.5 kg	FX
805 mm	31.69 in	9.5 kg	F



45°

P.130.45.R6

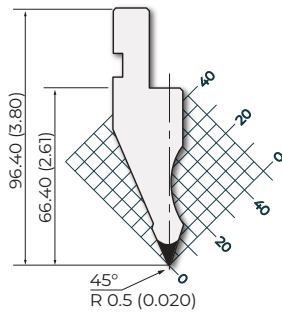
835 mm	32.87 in	19.5 kg	
415 mm	16.34 in	9.6 kg	
795 mm	31.29 in	18.3 kg	FX
805 mm	31.69 in	18.3 kg	F



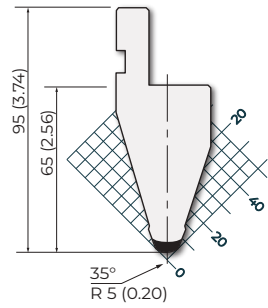
45°

P.97.45.R05

835 mm	32.87 in	10.2 kg
415 mm	16.34 in	5.1 kg
795 mm	31.29 in	10.2 kg FX
805 mm	31.69 in	10.2 kg F
900 mm	35.43 in	10.2 kg



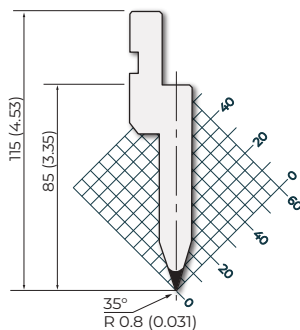
45°



35°

PU.85.35.R08

835 mm	32.87 in	11.0 kg
415 mm	16.34 in	5.5 kg
795 mm	31.29 in	10.5 kg FX
805 mm	31.69 in	10.5 kg F



35°

P.116.35.R08

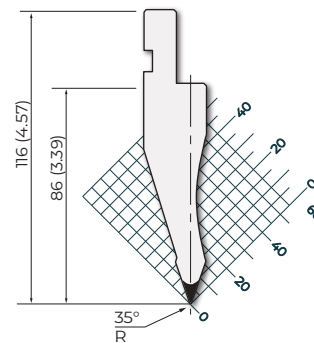
R=0.8 (0.031)

835 mm	32.87 in	10.5 kg
415 mm	16.34 in	5.7 kg
795 mm	31.29 in	10.1 kg FX
805 mm	31.69 in	10.1 kg F

P.116.35.R15

R=1.5 (0.059)

835 mm	32.87 in	11.0 kg
415 mm	16.34 in	5.7 kg
795 mm	31.29 in	10.0 kg FX
805 mm	31.69 in	10.0 kg F



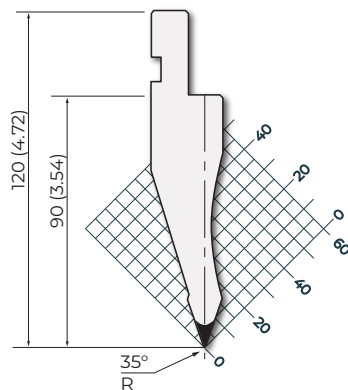
35°



P.120.35.R08		
R=0.8 (0.031)		
835 mm	32.87 in	12.3 kg
415 mm	16.34 in	6.1 kg
795 mm	31.29 in	11.5 kg FX
805 mm	31.69 in	11.5 kg F

P.120.35.R15		
R=1.5 (0.059)		
835 mm	32.87 in	12.5 kg
415 mm	16.34 in	6.0 kg
795 mm	31.29 in	12.0 kg FX
805 mm	31.69 in	12.0 kg F

P.120.35.R3		
R=3.0 (0.118)		
835 mm	32.87 in	13.0 kg
415 mm	16.34 in	6.4 kg
795 mm	31.29 in	12.0 kg FX
805 mm	31.69 in	12.0 kg F



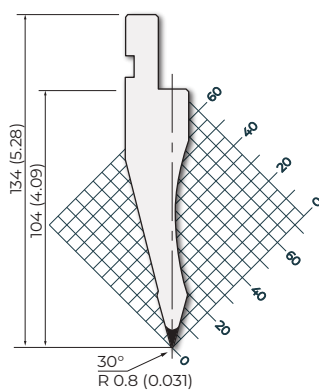
35°

C45: 560-710 N/mm²

700 kN/m max.

PS.134.30.R08

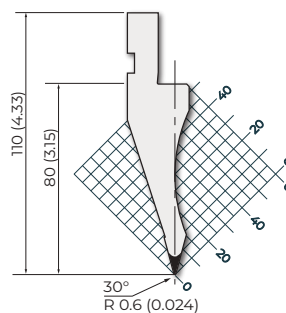
835 mm	32.87 in	13.3 kg	
415 mm	16.34 in	6.5 kg	
795 mm	31.29 in	12.5 kg	FX
805 mm	31.69 in	12.5 kg	F

**30°**C45: 560-710 N/mm²

500 kN/m max.

P.110.30.R06

835 mm	32.87 in	10.5 kg	
415 mm	16.34 in	5.2 kg	
795 mm	31.29 in	10.0 kg	FX
805 mm	31.69 in	10.0 kg	F



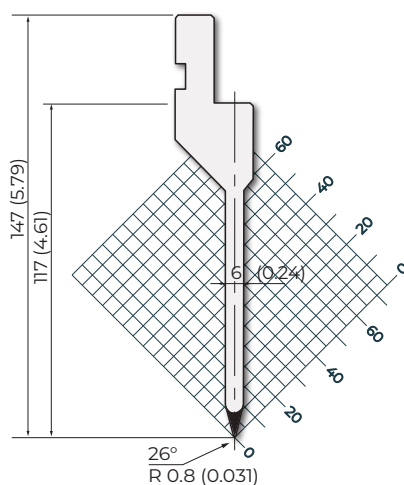
30°

42Cr: 900-1150 N/mm²

500 kN/m max.

P.147.26.R08

835 mm	32.87 in	9.8 kg	
415 mm	16.34 in	4.9 kg	
795 mm	31.29 in	9.8 kg	FX
805 mm	31.69 in	9.8 kg	F

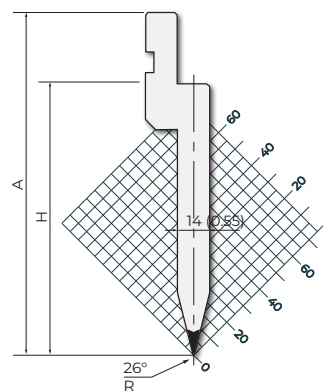
**26°**C45: 560-710 N/mm²

1000 kN/m max.

PU.117.26.R08

H=117.00 / A=147.00 / R=0.8 [mm]
(H=4.61 / A=5.79 / R=0.031) [in]

835 mm	32.87 in	13.5 kg	
415 mm	16.34 in	6.5 kg	
795 mm	31.29 in	12.6 kg	FX
805 mm	31.69 in	12.6 kg	F



26°

C45: 560-710 N/mm²

1000 kN/m max.

PU.117.26.R3

H=109.00 / A=139.00 / R=3.0 [mm]
(H=4.29 / A=5.47 / R=0.118) [in]

835 mm	32.87 in	13.5 kg	
415 mm	16.34 in	6.7 kg	
795 mm	31.29 in	13.5 kg	FX
805 mm	31.69 in	13.5 kg	F

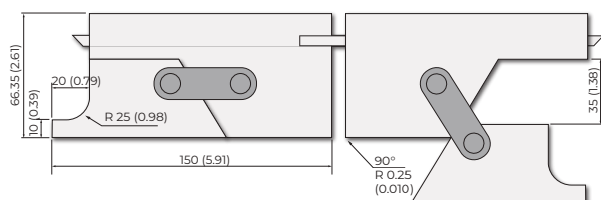
88°	85°	70°	60°	26°
P.97.88.R06	TOP.175.85.R08	P.160.70.R08	P.135.60.R08	PU.117.26.R08
P.97.88.R08	TOP.205.85.R08		P.145.60.R08	TOP.205.26.R08
P.130.88.R08			TOP.175.60.R08	TOP.175.26.R08
P.150.88.R08				


C45: 560-710 N/mm²

150 kN/m max.

SCA.M.90.R08

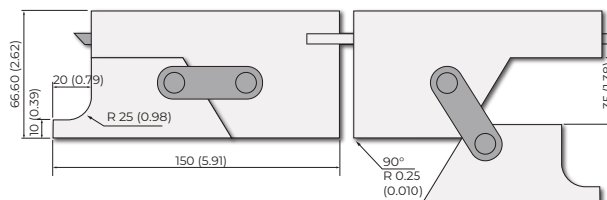
per pair 3.5 kg

1 Pair left/right compatible
with PK.97.90.R08

C45: 560-710 N/mm²

150 kN/m max.

SCA.M.90.R025

per pair 3.5 kg

1 Pair left/right compatible
with PK.97.90.R025


90°

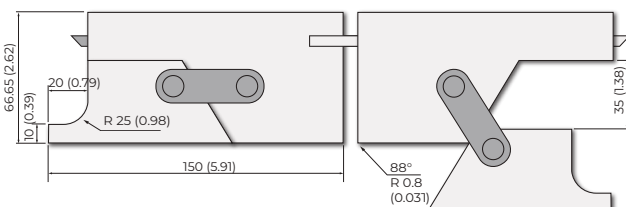
90°

C45: 560-710 N/mm²

150 kN/m max.

SCA.M.88.R08

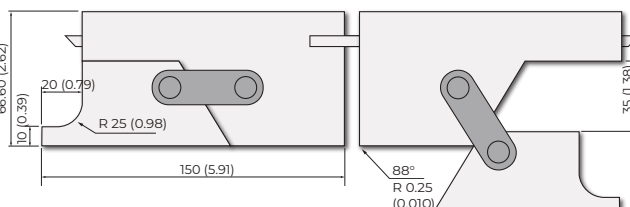
per pair 3.5 kg

1 Pair left/right compatible
with P.97.88.R08

C45: 560-710 N/mm²

150 kN/m max.

SCA.M.88.R025

per pair 3.5 kg

1 Pair left/right compatible
with PK.97.88.R025


88°

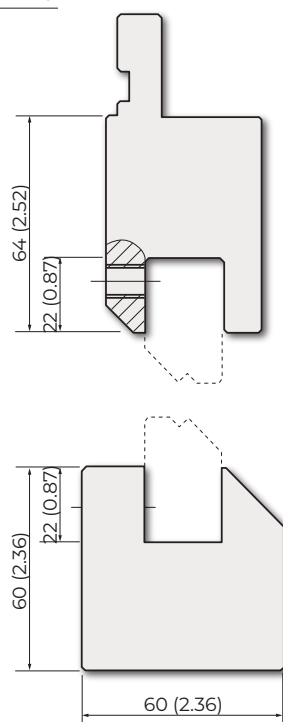
88°

C45: 560-710 N/mm²

1000 kN/m max.

CPZ

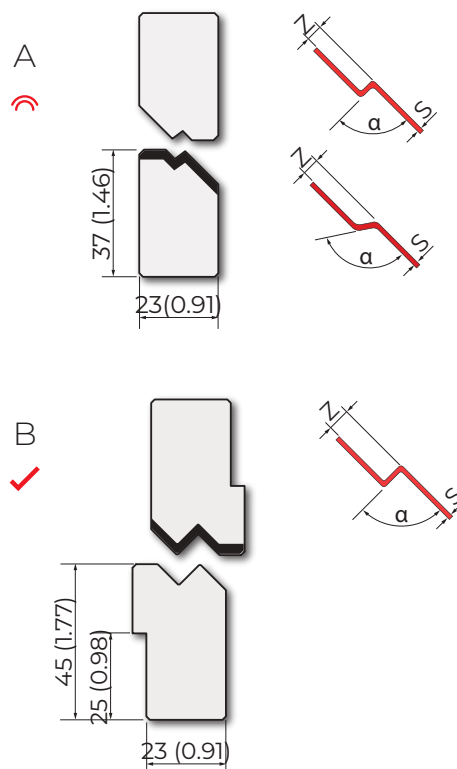
835 mm	32.87 in	37.5 kg
415 mm	16.34 in	18.7 kg

C45: 560-710 N/mm²

1000 kN/m max.

Joggle Tool Inserts

Model	Z [mm]	Z [in]	α	S* [mm]	S* [in]	Weight	Weight	
CEZ 1.0	1.0	0.04	160°	1.2	0.05	11.0 kg	5.5 kg	A
CEZ 1.5	1.5	0.06	160°	1.5	0.06	11.0 kg	5.5 kg	A
CEZ 2.0	2.0	0.08	150°	1.4	0.06	11.0 kg	5.5 kg	A
CEZ 2.5	2.5	0.10	140°	1.3	0.05	11.0 kg	5.5 kg	A
CEZ 1.0/90	1.0	0.04	90°	0.3	0.01	11.0 kg	5.5 kg	A
CEZ 1.5/90	1.5	0.06	90°	0.3	0.01	11.0 kg	5.5 kg	A
CEZ 2.0/90	2.0	0.08	90°	0.4	0.02	11.0 kg	5.5 kg	A
CEZ 2.5/90	2.5	0.10	90°	0.5	0.02	11.0 kg	5.5 kg	A
CEZ 3.0	3.0	0.12	90°	1.0	0.04	10.3 kg	5.1 kg	A
CEZ 3.5	3.5	0.14	90°	1.0	0.04	10.0 kg	5.0 kg	A
CEZ 4.0	4.0	0.16	90°	1.2	0.05	10.0 kg	5.0 kg	A
CEZ 4.5	4.5	0.18	90°	1.2	0.05	10.0 kg	5.0 kg	A
CEZ 5.0	5.0	0.20	90°	1.3	0.05	10.0 kg	5.0 kg	A
CEZ 5.5	5.5	0.22	90°	1.4	0.06	10.0 kg	5.0 kg	A
CEZ 6.0	6.0	0.24	90°	1.5	0.06	10.0 kg	5.0 kg	A
CEZ 6.5	6.5	0.26	90°	1.5	0.06	10.0 kg	5.0 kg	A
CEZ 7.0	7.0	0.28	90°	1.5	0.06	10.0 kg	5.0 kg	A
CEZ 7.5	7.5	0.30	90°	1.6	0.06	10.0 kg	5.0 kg	A
CEZ 8.0	8.0	0.31	90°	1.6	0.06	10.0 kg	5.0 kg	A
CEZ 9.0	9	0.35	90°	1.8	0.07	13.5 kg	6.5 kg	B
CEZ 10.0	10	0.39	90°	1.8	0.07	13.5 kg	5.0 kg	B
CEZ 11.0	11	0.43	90°	2	0.08	13.5 kg	5.0 kg	B
CEZ 12.0	12	0.47	90°	2	0.08	13.5 kg	5.0 kg	B
CEZ 13.0	13	0.51	90°	2	0.08	13.5 kg	5.0 kg	B
CEZ 14.0	14	0.55	90°	2	0.08	13.5 kg	5.0 kg	B
CEZ 15.0	15	0.59	90°	2.3	0.09	13.5 kg	5.0 kg	B

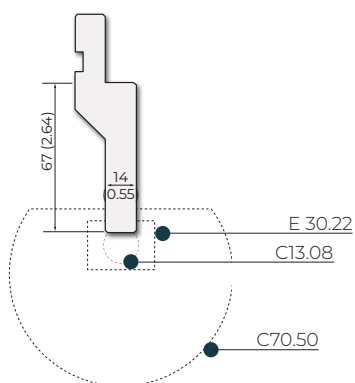
* Fe Rmax = 420 N/mm²

C45: 560-710 N/mm²

800 kN/m max.

PU.67.14

830 mm	32.68 in	9.0 kg
410 mm	16.14 in	5.0 kg

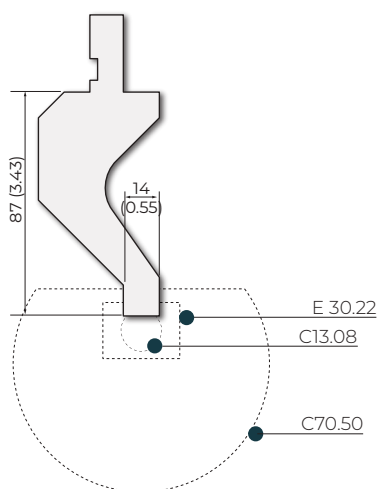


C45: 560-710 N/mm²

500 kN/m max.

PU.87.14

830 mm	32.68 in	9.0 kg
412 mm	16.22 in	4.5 kg

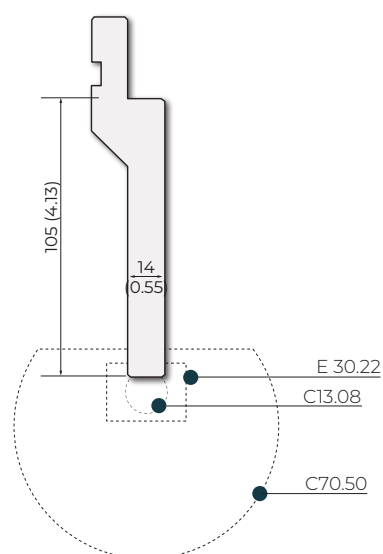


C45: 560-710 N/mm²

800 kN/m max.

PU.105.14

830 mm	32.68 in	12.0 kg
412 mm	16.22 in	6.0 kg

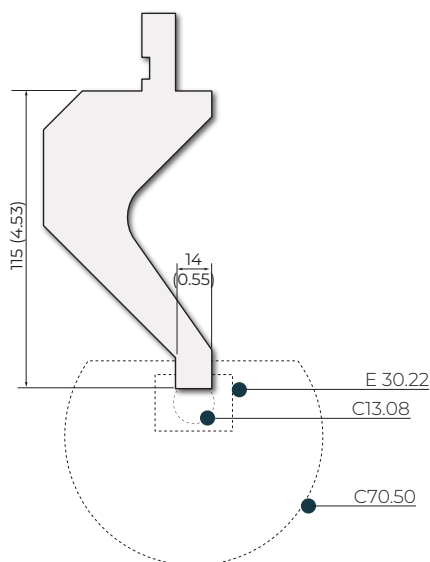


C45: 560-710 N/mm²

500 kN/m max.

PU.115.14

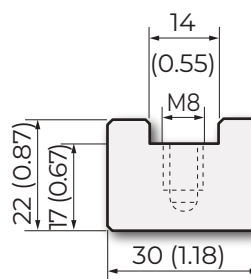
830 mm	32.68 in	26.0 kg
412 mm	16.22 in	13.0 kg

C45: 560-710 N/mm²

800 kN/m max.

E30.22

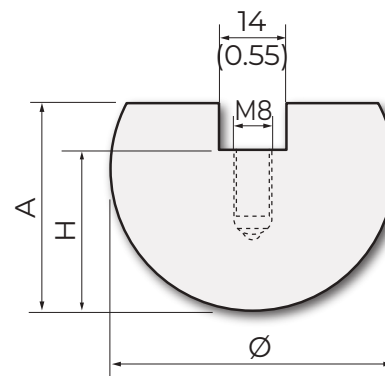
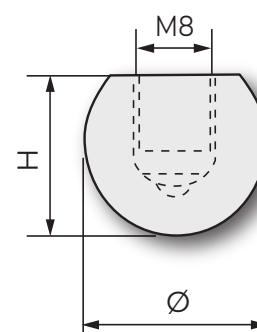
830 mm	32.68 in	3.5 kg	▶ Hemming tool
412 mm	16.22 in	1.7 kg	

C45: 560-710 N/mm²

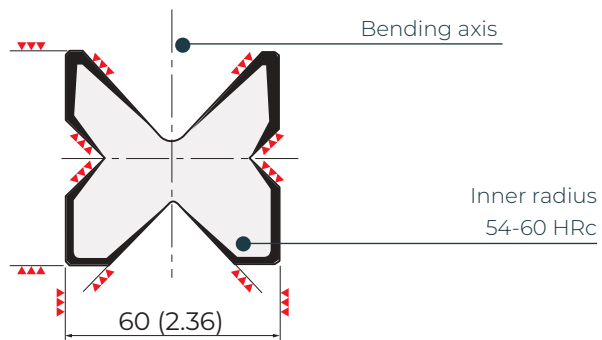
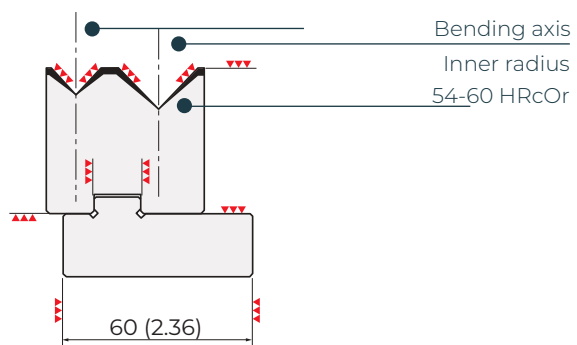
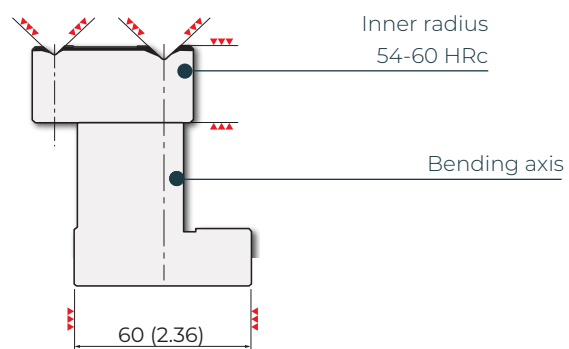
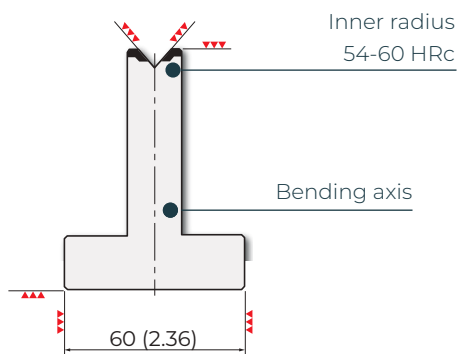
800 kN/m max.

Radius tools ϕ 16 - 100

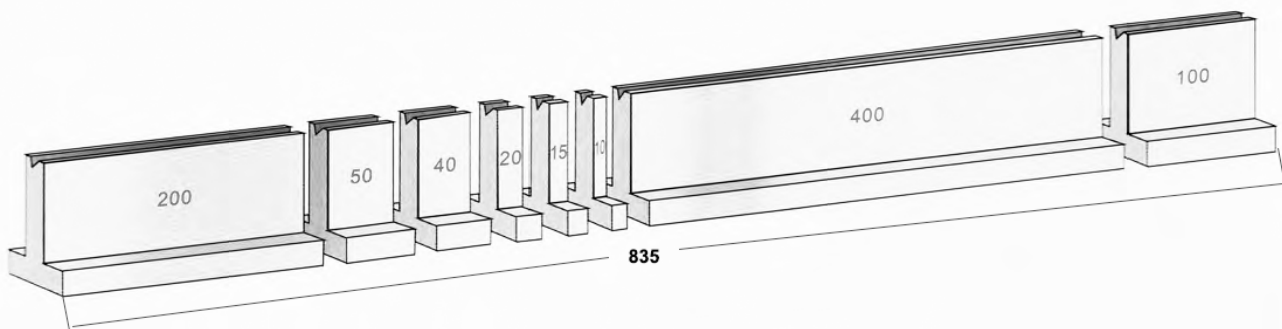
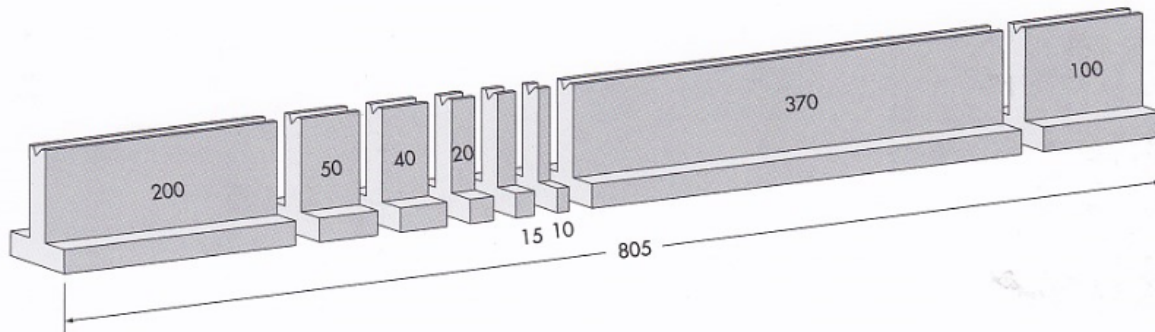
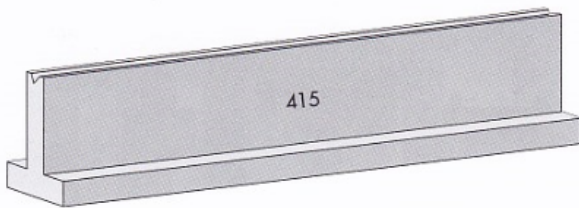
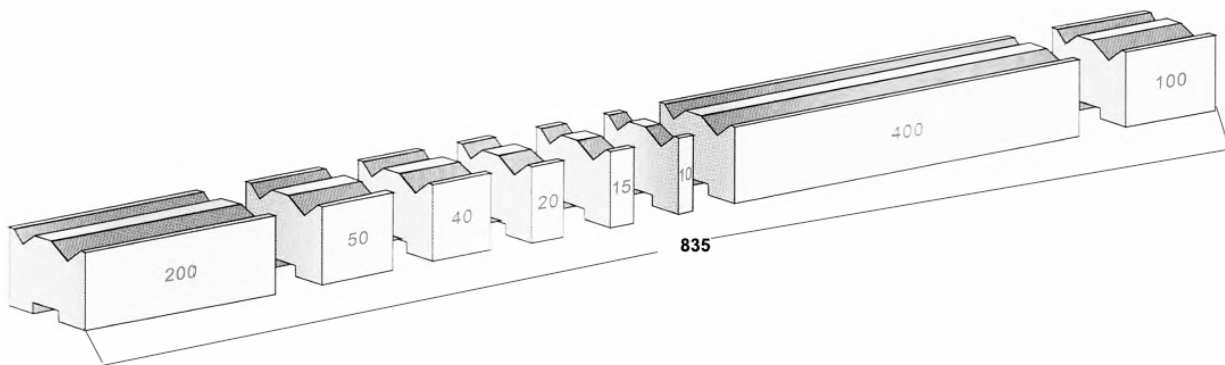
Model	Z [mm]	ϕ [in]	H [mm]	H [in]	A [mm]	A [in]	Weight	Weight
C13.08	16	0.63	13	0.51	-	-	2.0 kg	1.0 kg
C13.09	18	0.71	16	0.63	-	-	2.0 kg	1.0 kg
C16.10	20	0.79	16	0.63	-	-	2.0 kg	1.0 kg
C17.12	25	0.98	17	0.67	22	0.87	2.5 kg	1.2 kg
C20.15	30	1.18	20	0.79	27	1.06	3.7 kg	1.8 kg
C22.17	35	1.38	22	0.87	32	1.26	5.0 kg	2.4 kg
C24.20	40	1.57	24	0.94	34	1.33	7.0 kg	3.5 kg
C25.22	45	1.77	25	0.98	35	1.38	7.5 kg	3.8 kg
C29.25	50	1.97	29	1.14	39	1.53	10.0 kg	4.7 kg
C34.27	55	2.16	34	1.33	44	1.73	12.4 kg	6.2 kg
C34.30	60	2.36	34	1.33	44	1.73	13.5 kg	6.7 kg
C37.32	65	2.56	37	1.46	47	1.85	15.9 kg	7.9 kg
C45.35	70	2.75	45	1.77	55	2.16	20.3 kg	10.0 kg
C42.37	75	2.95	42	1.65	52	2.04	20.5 kg	10.3 kg
C45.40	80	3.15	45	1.77	55	2.16	23.0 kg	11.5 kg
C60.45	90	3.54	60	2.36	70	2.75	34.0 kg	17.0 kg
C70.50	100	3.93	70	2.75	80	3.15	43.5 kg	21.7 kg



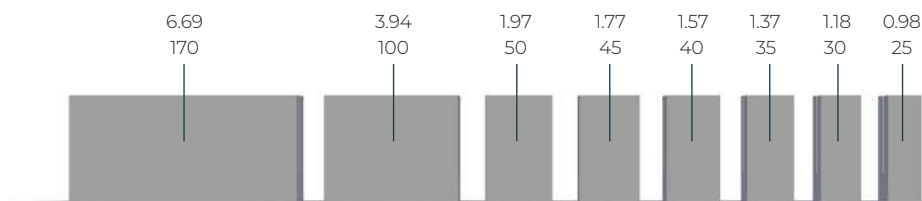
STANDARD TANG



STANDARD LENGTH



495 mm (19.49 in) - 8 segments



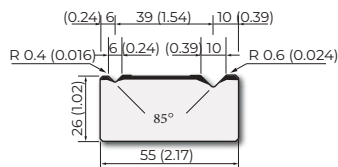
2-V Dies and Holders

C45: 560-710 N/mm²

1000 kN/m max.

M26.90.01

835 mm	32.87 in	9.0 kg
415 mm	16.34 in	4.5 kg
900 mm	35.43 in	10.0 kg

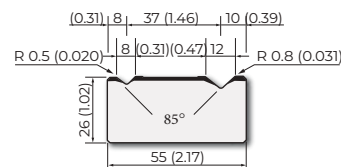


C45: 560-710 N/mm²

1000 kN/m max.

M26.90.02

835 mm	32.87 in	9.0 kg
415 mm	16.34 in	4.5 kg
900 mm	35.43 in	10.0 kg



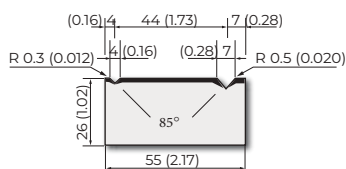
90°

C45: 560-710 N/mm²

1000 kN/m max.

M26.90.03

835 mm	32.87 in	9.0 kg
415 mm	16.34 in	4.5 kg



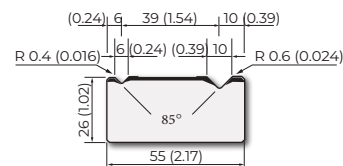
85°

C45: 560-710 N/mm²

1000 kN/m max.

M26.88.01

835 mm	32.87 in	9.0 kg
415 mm	16.34 in	4.5 kg



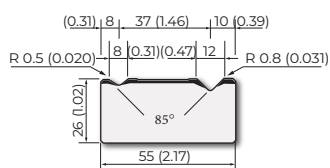
85°

C45: 560-710 N/mm²

1000 kN/m max.

M26.88.02

835 mm	32.87 in	9.0 kg
415 mm	16.34 in	4.5 kg



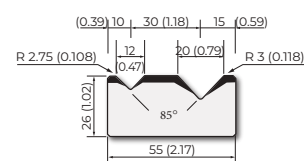
85°

C45: 560-710 N/mm²

1000 kN/m max.

M26.88.03

835 mm	32.87 in	9.0 kg
415 mm	16.34 in	4.5 kg



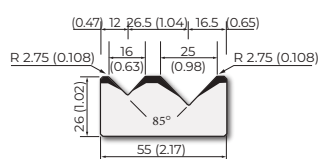
85°

C45: 560-710 N/mm²

1000 kN/m max.

M26.88.04

835 mm	32.87 in	8.0 kg
415 mm	16.34 in	4.0 kg



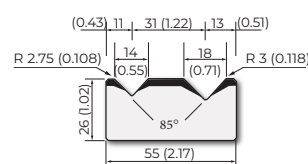
85°

C45: 560-710 N/mm²

1000 kN/m max.

M26.88.05

835 mm	32.87 in	8.0 kg
415 mm	16.34 in	4.0 kg



85°

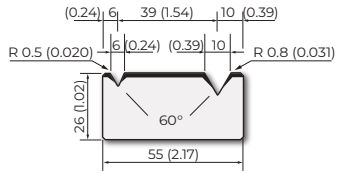
2-V Dies and Holders

C45: 560-710 N/mm²

600 kN/m max.

M26.60.01

835 mm	32.87 in	9.0 kg
415 mm	16.34 in	4.5 kg
900 mm	35.43 in	10.0 kg



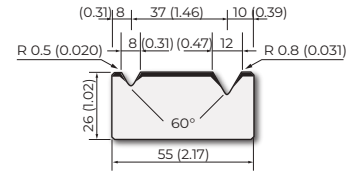
60°

C45: 560-710 N/mm²

800 kN/m max.

M26.60.02

835 mm	32.87 in	9.0 kg
415 mm	16.34 in	4.5 kg



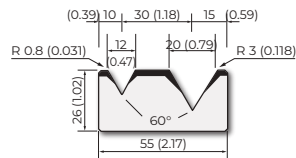
60°

C45: 560-710 N/mm²

800 kN/m max.

M26.60.03

835 mm	32.87 in	8.0 kg
415 mm	16.34 in	4.0 kg



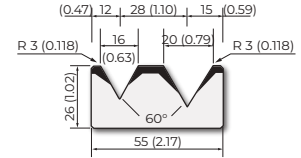
60°

C45: 560-710 N/mm²

800 kN/m max.

M26.60.05

835 mm	32.87 in	8.0 kg
415 mm	16.34 in	4.0 kg



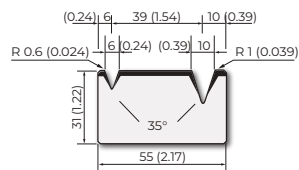
60°

C45: 560-710 N/mm²

300 kN/m max.

M31.35.01

835 mm	32.87 in	11.0 kg
415 mm	16.34 in	5.5 kg



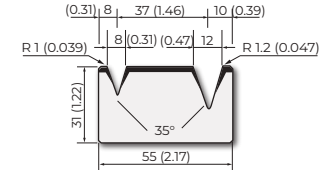
35°

C45: 560-710 N/mm²

300 kN/m max.

M31.35.02

835 mm	32.87 in	10.0 kg
415 mm	16.34 in	5.0 kg



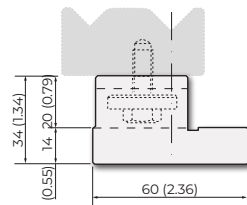
35°

2-V Dies and Holders

C45: 560-710 N/mm²

SU034

835 mm	32.87 in	9.0 kg
415 mm	16.34 in	4.5 kg

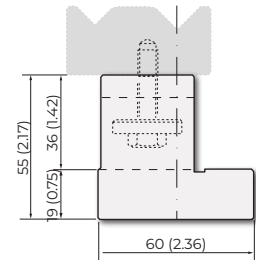


Holder

C45: 560-710 N/mm²

SU055

835 mm	32.87 in	14.5 kg
415 mm	16.34 in	7.2 kg

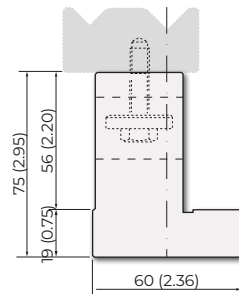


Holder

C45: 560-710 N/mm²

SU075

830 mm	32.87 in	20.5 kg
410 mm	16.34 in	10.0 kg



Holder



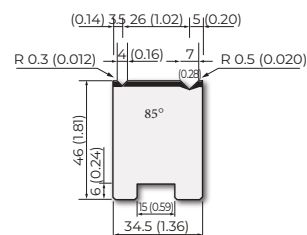
2-V Dies - Self centering and Holders

C45: 560-710 N/mm²

800 kN/m max.

46-10

835 mm	32.87 in	9.7 kg
415 mm	16.34 in	4.8 kg
795 mm	31.29 in	9.7 kg FX
805 mm	31.69 in	9.7 kg F



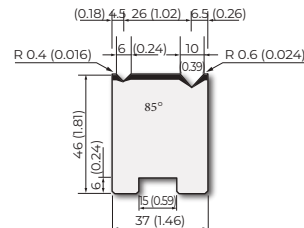
85°

C45: 560-710 N/mm²

800 kN/m max.

46-11

835 mm	32.87 in	10.3 kg
415 mm	16.34 in	5.1 kg
795 mm	31.29 in	9.9 kg FX
805 mm	31.69 in	9.9 kg F



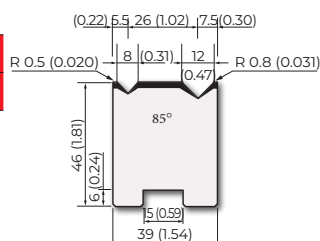
85°

C45: 560-710 N/mm²

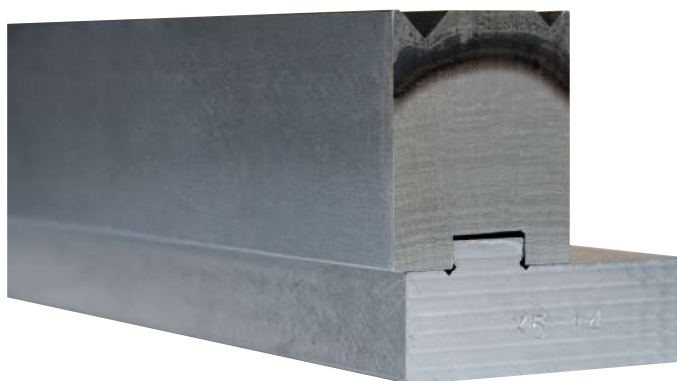
800 kN/m max.

46-12

835 mm	32.87 in	10.0 kg
415 mm	16.34 in	5.0 kg
795 mm	31.29 in	9.5 kg FX
805 mm	31.69 in	10.0 kg F



85°

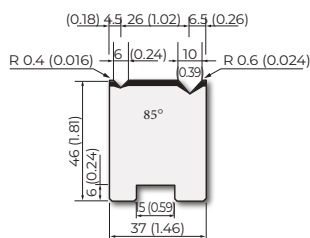


C45: 560-710 N/mm²

800 kN/m max.

46.11.88

835 mm	32.87 in	10.3 kg
415 mm	16.34 in	5.2 kg
795 mm	31.29 in	9.8 kg FX
805 mm	31.69 in	10.3 kg F



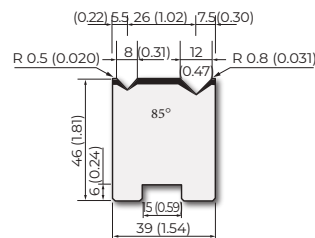
85°

C45: 560-710 N/mm²

800 kN/m max.

46.13

835 mm	32.87 in	10.9 kg
415 mm	16.34 in	5.4 kg
795 mm	31.29 in	9.6 kg FX
805 mm	31.69 in	9.6 kg F



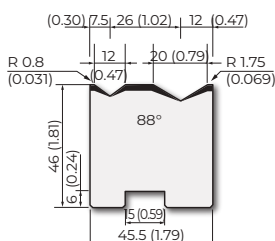
85°

C45: 560-710 N/mm²

800 kN/m max.

46.14

835 mm	32.87 in	12.0 kg
415 mm	16.34 in	6.0 kg
795 mm	31.29 in	11.4 kg FX
805 mm	31.69 in	11.5 kg F



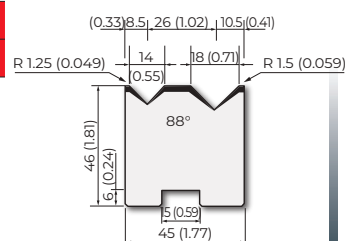
85°

C45: 560-710 N/mm²

800 kN/m max.

46.15

835 mm	32.87 in	12.6 kg
415 mm	16.34 in	6.0 kg
795 mm	31.29 in	12.0 kg FX
805 mm	31.69 in	12.1 kg F



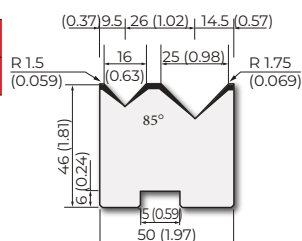
85°

C45: 560-710 N/mm²

800 kN/m max.

46.16

835 mm	32.87 in	13.0 kg
415 mm	16.34 in	6.5 kg
795 mm	31.29 in	12.4 kg
805 mm	31.69 in	12.5 kg



85°

42Cr: 900-1150 N/mm²

1000 kN/m max.

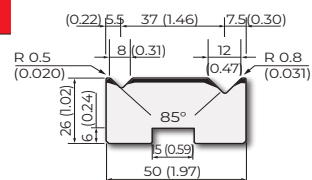
M26.85.02

835 mm	32.87 in	9.0 kg	PM50 + Support is needed	
415 mm	16.34 in	4.5 kg		
795 mm	31.29 in	8.6 kg		FX
805 mm	31.69 in	8.7 kg		F

(0.22)

65.37 (1.46)

17



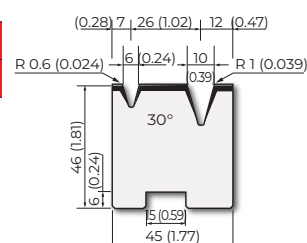
85°

C45: 560-710 N/mm²

400 kN/m max.

46.17

835 mm	32.87 in	12.2 kg
415 mm	16.34 in	6.0 kg
795 mm	31.29 in	12.2 kg
805 mm	31.69 in	12.2 kg



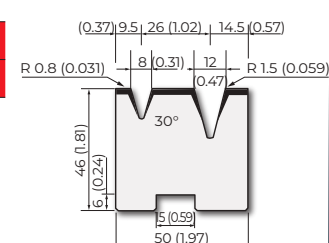
30°

C45: 560-710 N/mm²

400 kN/m max.

46.18

835 mm	32.87 in	13.2 kg
415 mm	16.34 in	6.6 kg
795 mm	31.29 in	13.0 kg
805 mm	31.69 in	13.0 kg



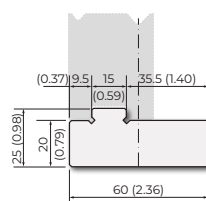
30°

C45: 560-710 N/mm²

1000 kN/m max.

PM60

835 mm	32.97 in	7.5 kg
415 mm	16.34 in	3.7 kg



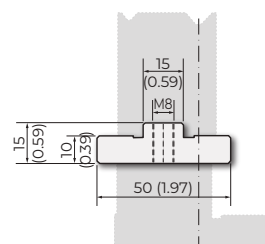
Holder

C45: 560-710 N/mm²

1000 kN/m max.

PM50

835 mm	32.97 in	4.0 kg
415 mm	16.34 in	3.7 kg



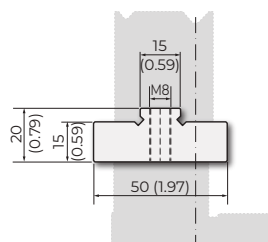
- Holder

C45: 560-710 N/mm²

1000 kN/m max.

PM50.20

835 mm	32.97 in	5.4 kg
415 mm	16.34 in	2.6 kg

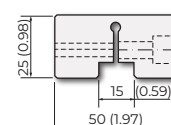


Holder

Fe37

PB60

pair	0.2 kg
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- Retainer

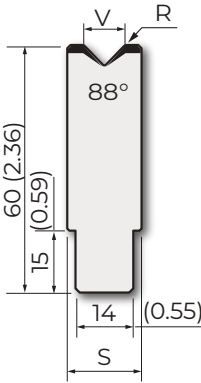
1-V Dies - Self centering and Holder

C45: 560-710 N/mm²

1000 kN/m max.

H=60 mm / 2.36 in

Model	V [mm]	V [in]	R [mm]	R [in]	S [mm]	S [in]	Weight	Weight	FX	Weight	F	Weight
AMR60.04.88	4	0.16	0.6	0.02	14	0.55	5.4 kg	2.7 kg		5.1 kg		5.2 kg
AMR60.06.88	6	0.24	0.8	0.03	14	0.55	5.4 kg	2.7 kg		5.2 kg		5.2 kg
AMR60.08.88	8	0.31	1.0	0.04	14	0.55	5.4 kg	2.7 kg		5.2 kg		5.2 kg
AMR60.10.88	10	0.39	1.2	0.04	18	0.71	5.6 kg	2.8 kg		5.4 kg		5.4 kg
AMR60.12.88	12	0.47	1.5	0.06	18	0.71	6.1 kg	3.0 kg		5.8 kg		5.9 kg
AMR60.16.88	16	0.63	2.0	0.08	24	0.94	7.1 kg	3.5 kg		6.8 kg		6.9 kg
AMR60.20.88	20	0.79	2.0	0.08	30	1.18	8.0 kg	4.0 kg		7.8 kg		7.8 kg
AMR60.25.88	25	0.98	3.0	0.12	35	1.38	9.1 kg	4.6 kg		8.9 kg		8.9 kg



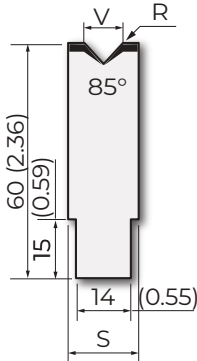
88°

C45: 560-710 N/mm²

1000 kN/m max.

H=60 mm / 4.72 in

Model	V [mm]	V [in]	R [mm]	R [in]	S [mm]	S [in]	Weight	Weight	FX	Weight	F	Weight
AMR60.04.85	4	0.16	0.6	0.02	14	0.55	5.4 kg	2.7 kg		5.2 kg		5.2 kg
AMR60.06.85	6	0.24	0.8	0.03	14	0.55	5.4 kg	2.7 kg		5.1 kg		5.2 kg
AMR60.08.85	8	0.31	1.0	0.04	14	0.55	5.4 kg	2.7 kg		5.1 kg		5.2 kg
AMR60.10.85	10	0.39	1.2	0.04	18	0.71	5.6 kg	2.8 kg		5.3 kg		5.4 kg
AMR60.12.85	12	0.47	1.5	0.06	18	0.71	6.1 kg	3.0 kg		5.8 kg		5.9 kg
AMR60.16.85	16	0.63	2.0	0.08	24	0.94	7.1 kg	3.5 kg		6.8 kg		6.9 kg
AMR60.20.85	20	0.79	2.0	0.08	30	1.18	8.0 kg	4.0 kg		7.6 kg		7.7 kg
AMR60.25.85	25	0.98	3.0	0.12	35	1.38	9.2 kg	4.6 kg		8.8 kg		8.9 kg



85°

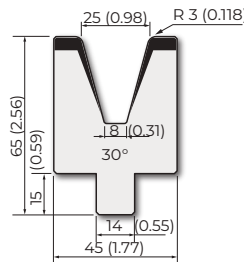
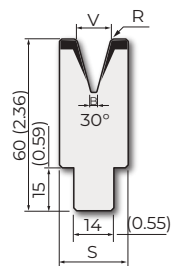
1-V Dies - Self centering and Holder

C45: 560-710 N/mm²

1000 kN/m max.

H=60-65 mm / 2.36-2.56 in

Model	V [mm]	V [in]	R [mm]	R [in]	B [mm]	B [in]	S [mm]	S [in]	Weight	Weight	FX	Weight	F	Weight
AMR60.06.30	6	0.24	0.6	0.02	-	-	14	0.55	5.9 kg	2.9 kg		5.6 kg		5.7 kg
AMR60.08.30	8	0.31	0.8	0.03	2	0.08	18	0.70	6.6 kg	3.3 kg		6.3 kg		6.4 kg
AMR60.10.30	10	0.39	1.0	0.04	2	0.08	24	0.94	7.8 kg	3.9 kg		7.4 kg		7.5 kg
AMR60.12.30	12	0.47	1.5	0.04	2	0.08	24	0.94	7.9 kg	3.9 kg		7.5 kg		7.6 kg
AMR60.16.30	16	0.63	2.0	0.06	5	0.19	30	1.18	8.8 kg	4.7 kg		8.4 kg		9.2 kg
AMR60.20.30	20	0.79	2.5	0.08	5	0.19	35	1.38	15.9 kg	7.9 kg		15.3 kg		15.3 kg
AMR65.25.30	25	0.98	3.0	0.12	8	0.31	45	1.78	13.0 kg	6.3 kg		12.4 kg		12.2 kg



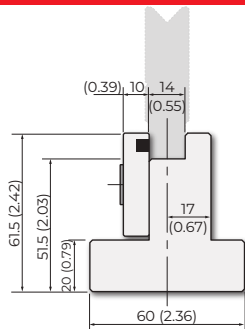
30°

C45: 560-710 N/mm²

1000 kN/m max.

SU61F

835 mm	32.87 in	16.0 kg
415 mm	16.34 in	7.3 kg



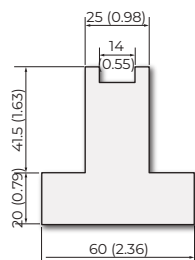
Holder

C45: 560-710 N/mm²

950 kN/m max.

O8000

1050 mm	41.34 in	14.0 kg
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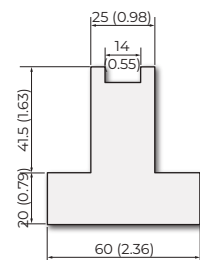
Holder

C45: 560-710 N/mm²

950 kN/m max.

O8100

1260 mm	49.61 in	14.0 kg
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Holder

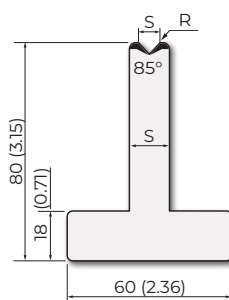
T - Dies

C45: 560-710 N/mm²

1000 kN/m max.

H=80 mm / 3.15 in

Model	V [mm]	V [in]	R [mm]	R [in]	S [mm]	S [in]	Weight	Weight	FX	Weight	F	Weight
T80.06.85	6	0.24	2.75	0.11	14	0.55	13.0 kg	6.5 kg		13.0 kg		13.0 kg
T80.08.85	8	0.31	2.75	0.11	14	0.55	12.6 kg	6.2 kg		12.0 kg		12.0 kg
T80.10.85	10	0.39	2.75	0.11	18	0.71	14.2 kg	7.0 kg		13.7 kg		14.0 kg
T80.12.85	12	0.47	2.75	0.11	18	0.71	14.1 kg	7.0 kg		14.0 kg		14.0 kg
T80.16.85	16	0.63	2.75	0.11	24	0.94	16.4 kg	8.2 kg		15.8 kg		15.8 kg
T80.20.85	20	0.79	3.0	0.12	30	1.18	19.0 kg	9.5 kg		18.0 kg		18.0 kg
T80.25.85	25	0.98	3.0	0.12	35	1.38	20.0 kg	10.0 kg		19.0 kg		20.0 kg



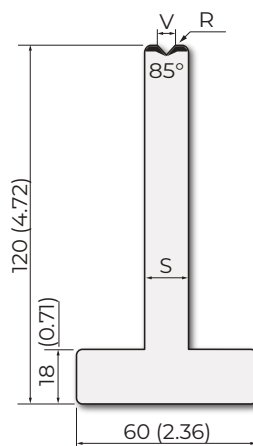
85°

C45: 560-710 N/mm²

1000 kN/m max.

H=120 mm / 4.72 in

Model	V [mm]	V [in]	R [mm]	R [in]	S [mm]	S [in]	Weight	Weight	FX	Weight	F	Weight
T120.06.85	6	0.24	2.75	0.11	14	0.55	16.3 kg	8.1 kg		15.7 kg		15.7 kg
T120.08.85	8	0.31	2.75	0.11	14	0.55	16.3 kg	8.1 kg		15.7 kg		15.7 kg
T120.10.85	10	0.39	2.75	0.11	18	0.71	19.0 kg	9.5 kg		19.0 kg		19.0 kg
T120.12.85	12	0.47	2.75	0.11	18	0.71	18.9 kg	9.4 kg		18.2 kg		18.2 kg
T120.16.85	16	0.63	2.75	0.11	24	0.94	22.7 kg	11.3 kg		21.9 kg		21.9 kg
T120.20.85	20	0.79	3.0	0.12	30	1.18	26.4 kg	13.0 kg		25.5 kg		25.5 kg
T120.25.85	25	0.98	3.0	0.12	35	1.38	30.0 kg	15.0 kg		30.0 kg		30.0 kg



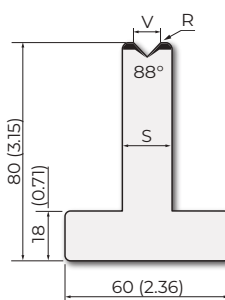
85°

C45: 560-710 N/mm²

1000 kN/m max.

H=80 mm / 3.15 in

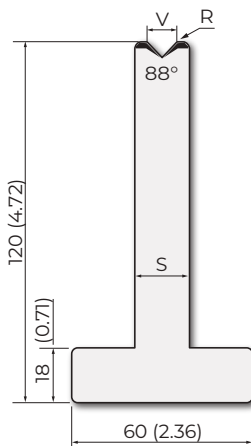
Model	V [mm]	V [in]	R [mm]	R [in]	S [mm]	S [in]	Weight	Weight	FX	Weight	F	Weight
T80.06.88	6	0.24	0.4	0.01	14	0.55	13.0 kg	6.5 kg		12.4 kg		12.5 kg
TR80.06.88	6	0.24	2.75	0.11	14	0.55	13.0 kg	6.5 kg		12.4 kg		12.5 kg
T80.08.88	8	0.31	0.5	0.02	14	0.55	12.6 kg	6.3 kg		12.0 kg		12.1 kg
TR80.08.88	8	0.31	2.75	0.11	14	0.55	13.0 kg	6.5 kg		13.0 kg		13.0 kg
T80.10.88	10	0.39	0.8	0.03	18	0.71	14.2 kg	7.0 kg		13.7 kg		13.7 kg
TR80.10.88	10	0.39	2.75	0.11	18	0.71	15.0 kg	7.5 kg		15.0 kg		15.0 kg
T80.12.88	12	0.47	2.75	0.11	18	0.71	14.0 kg	7.0 kg		13.3 kg		13.5 kg
T80.16.88	16	0.63	2.75	0.11	24	0.94	16.6 kg	8.3 kg		16.0 kg		16.0 kg
T80.20.88	20	0.79	3.0	0.12	30	1.18	18.5 kg	9.2 kg		17.8 kg		17.8 kg
T80.25.88	25	0.98	3.0	0.12	35	1.38	20.2 kg	10.0 kg		19.5 kg		19.5 kg

**88°**C45: 560-710 N/mm²

1000 kN/m max.

H=120 mm / 4.72 in

Model	V [mm]	V [in]	R [mm]	R [in]	S [mm]	S [in]	Weight	Weight	FX	Weight	F	Weight
T120.06.88	6	0.24	0.4	0.01	14	0.55	16.5 kg	8.0 kg		16.0 kg		16.0 kg
TR120.06.88	6	0.24	2.75	0.11	14	0.55	16.0 kg	8.0 kg		15.2 kg		16.0 kg
T120.08.88	8	0.31	0.5	0.02	14	0.55	16.0 kg	8.0 kg		16.0 kg		16.0 kg
TR120.08.88	8	0.31	2.75	0.11	14	0.55	16.0 kg	8.0 kg		15.2 kg		16.0 kg
T120.10.88	10	0.39	0.8	0.03	18	0.71	19.0 kg	9.5 kg		19.0 kg		19.0 kg
TR120.10.88	10	0.39	2.75	0.11	18	0.71	18.0 kg	9.0 kg		18.0 kg		18.0 kg
T120.12.88	12	0.47	2.75	0.11	18	0.71	19.0 kg	9.0 kg		18.0 kg		18.0 kg
T120.16.88	16	0.63	2.75	0.11	24	0.94	22.0 kg	11.0 kg		22.0 kg		22.0 kg
T120.20.88	20	0.79	3.0	0.12	30	1.18	27.0 kg	13.5 kg		25.7 kg		26.0 kg
T120.25.88	25	0.98	3.0	0.12	35	1.38	30.0 kg	15.0 kg		30.0 kg		30.0 kg

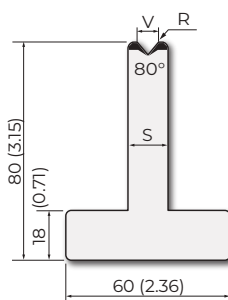
**88°**

C45: 560-710 N/mm²

950 kN/m max.

H=80 mm / 3.15 in

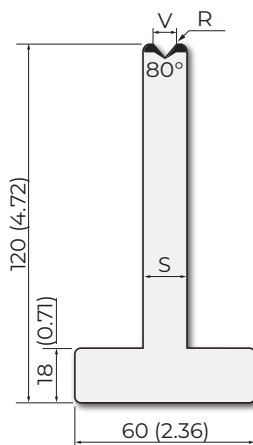
Model	V [mm]	V [in]	R [mm]	R [in]	S [mm]	S [in]	Weight	Weight	FX	Weight	F	Weight
T80.06.80	6	0.24	2.75	0.11	14	0.55	13.0 kg	6.5 kg		13.0 kg		13.0 kg
T80.08.80	8	0.31	2.75	0.11	14	0.55	13.0 kg	6.5 kg		13.0 kg		13.0 kg
T80.10.80	10	0.39	2.75	0.11	18	0.71	13.0 kg	6.5 kg		13.0 kg		13.0 kg
T80.12.80	12	0.47	2.75	0.11	18	0.71	13.0 kg	6.5 kg		13.0 kg		13.0 kg
T80.16.80	16	0.63	2.75	0.11	24	0.94	13.0 kg	6.5 kg		13.0 kg		13.0 kg
T80.20.80	20	0.79	3.0	0.12	30	1.18	17.0 kg	6.5 kg		12.4 kg		12.5 kg
T80.25.80	25	0.98	3.0	0.12	35	1.38	20.0 kg	10.0 kg		20.0 kg		20.0 kg

**80°**C45: 560-710 N/mm²

950 kN/m max.

H=120 mm / 4.72 in

Model	V [mm]	V [in]	R [mm]	R [in]	S [mm]	S [in]	Weight	Weight	FX	Weight	F	Weight
T120.06.80	6	0.24	2.75	0.11	14	0.55	18.0 kg	9.0 kg		17.1 kg		17.4 kg
T120.08.80	8	0.31	2.75	0.11	14	0.55	18.0 kg	18.0 kg		18.0 kg		18.0 kg
T120.10.80	10	0.39	2.75	0.11	18	0.71	18.0 kg	9.0 kg		17.1 kg		17.4 kg
T120.12.80	12	0.47	2.75	0.11	18	0.71	18.0 kg	9.0 kg		17.1 kg		17.4 kg
T120.16.80	16	0.63	2.75	0.11	24	0.94	18.0 kg	18.0 kg		18.0 kg		18.0 kg
T120.20.80	20	0.79	3.0	0.12	30	1.18	26.3 kg	13.0 kg		25.0 kg		25.4 kg
T120.25.80	25	0.98	3.0	0.12	35	1.38	30.0 kg	18.0 kg		18.0 kg		18.0 kg

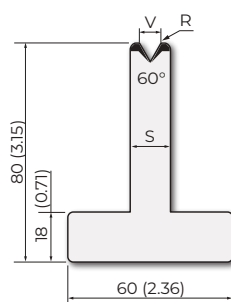
**80°**

C45: 560-710 N/mm²

600 kN/m max.

H=80 mm / 3.15 in

Model	V [mm]	V [in]	R [mm]	R [in]	S [mm]	S [in]	Weight	Weight	FX	Weight	F	Weight
T80.06.60	6	0.24	0.5	0.02	14	0.55	13.0 kg	6.5 kg		12.4 kg		12.5 kg
TR80.06.60	6	0.24	1.5	0.06	14	0.55	13.0 kg	6.5 kg		12.4 kg		12.5 kg
T80.08.60	8	0.31	0.8	0.03	14	0.55	13.0 kg	6.5 kg		13.0 kg		13.0 kg
TR80.08.60	8	0.31	1.5	0.06	14	0.55	13.0 kg	6.5 kg		13.0 kg		13.0 kg
T80.10.60	10	0.39	0.8	0.031	18	0.71	14.5 kg	7.0 kg		13.5 kg		13.5 kg
TR80.10.60	10	0.39	2.75	0.108	18	0.71	15.0 kg	7.5 kg		15.0 kg		15.0 kg
T80.12.60	12	0.47	0.8	0.031	18	0.71	14.0 kg	7.0 kg		13.5 kg		13.5 kg
TR80.12.60	12	0.47	2.75	0.108	18	0.71	15.0 kg	7.5 kg		15.0 kg		15.0 kg
T80.16.60	16	0.63	2.75	0.108	24	0.94	15.6 kg	8.7 kg		16.0 kg		16.0 kg
T80.20.60	20	0.79	3.0	0.118	30	1.18	18.0 kg	9.5 kg		19.0 kg		19.0 kg
T80.25.60	25	0.98	3.0	0.118	35	1.38	19.5 kg	10.0 kg		18.8 kg		18.8 kg



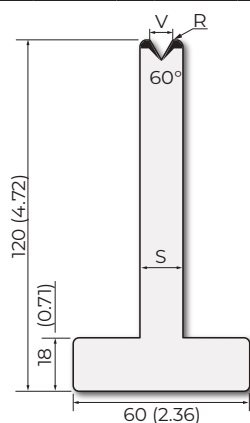
60°

C45: 560-710 N/mm²

600 kN/m max.

H=120 mm / 4.72 in

Model	V [mm]	V [in]	R [mm]	R [in]	S [mm]	S [in]	Weight	Weight	FX	Weight	F	Weight
T120.06.60	6	0.24	0.5	0.02	14	0.55	16.0 kg	8.0 kg		16.0 kg		15.4 kg
TR120.06.60	6	0.24	1.5	0.06	14	0.55	16.0 kg	8.0 kg		15.2 kg		15.4 kg
T120.08.60	8	0.31	0.8	0.03	14	0.55	16.0 kg	8.0 kg		16.0 kg		16.0 kg
TR120.08.60	8	0.31	1.5	0.06	14	0.55	16.0 kg	8.0 kg		16.0 kg		16.0 kg
T120.10.60	10	0.39	0.8	0.031	18	0.71	18.8 kg	9.3 kg		18.1 kg		18.1 kg
TR120.10.60	10	0.39	2.75	0.108	18	0.71	18.0 kg	9.0 kg		17.1 kg		17.4 kg
T120.12.60	12	0.47	0.8	0.031	18	0.71	18.0 kg	9.0 kg		18.3 kg		18.3 kg
TR120.12.60	12	0.47	2.75	0.108	18	0.71	18.0 kg	9.0 kg		17.1 kg		17.4 kg
T120.16.60	16	0.63	2.75	0.108	24	0.94	22.4 kg	11.1 kg		21.6 kg		21.6 kg
T120.20.60	20	0.79	3.0	0.118	30	1.18	26.0 kg	13.0 kg		24.8 kg		25.0 kg
T120.25.60	25	0.98	3.0	0.118	35	1.38	29.0 kg	15.0 kg		30.0 kg		30.0 kg



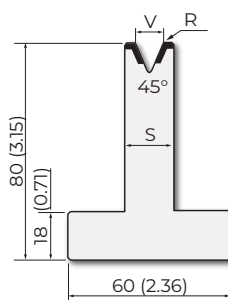
60°

C45: 560-710 N/mm²

500 kN/m max.

H=80 mm / 3.15 in

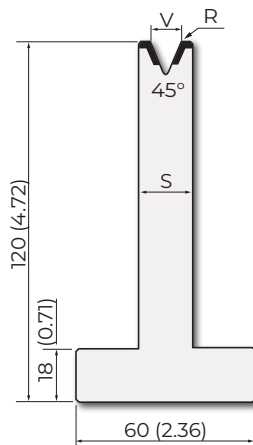
Model	V [mm]	V [in]	R [mm]	R [in]	S [mm]	S [in]	Weight	Weight	FX	Weight	F	Weight
T80.06.45	6	0.24	0.8	0.03	14	0.55	13.0 kg	6.5 kg		12.4 kg		12.5 kg
T80.08.45	8	0.31	1.0	0.04	18	0.71	15.0 kg	7.5 kg		15.0 kg		15.0 kg
T80.10.45	10	0.39	1.2	0.05	18	0.71	14.0 kg	7.0 kg		13.3 kg		13.5 kg
T80.12.45	12	0.47	1.6	0.06	24	0.94	16.3 kg	8.1 kg		15.7 kg		15.7 kg
T80.16.45	16	0.63	2.75	0.11	26	1.02	16.6 kg	8.3 kg		16.0 kg		16.0 kg
T80.20.45	20	0.79	3.0	0.12	30	1.18	18.0 kg	9.0 kg		18.0 kg		18.0 kg
T80.25.45	25	0.98	3.0	0.12	37	1.46	20.0 kg	10.0 kg		20.0 kg		20.0 kg

**45°**C45: 560-710 N/mm²

500 kN/m max.

H=120 mm / 4.72 in

Model	V [mm]	V [in]	R [mm]	R [in]	S [mm]	S [in]	Weight	Weight	FX	Weight	F	Weight
T120.06.45	6	0.24	0.8	0.03	14	0.55	16.0 kg	8.0 kg		16.0 kg		16.0 kg
T120.08.45	8	0.31	1.0	0.04	18	0.71	18.0 kg	9.0 kg		18.0 kg		18.0 kg
T120.10.45	10	0.39	1.2	0.05	18	0.71	18.0 kg	9.0 kg		18.0 kg		18.0 kg
T120.12.45	12	0.47	1.6	0.06	24	0.94	23.0 kg	9.0 kg		18.0 kg		18.0 kg
T120.16.45	16	0.63	2.75	0.11	26	1.02	25.0 kg	12.5 kg		25.0 kg		25.0 kg
T120.20.45	20	0.79	3.0	0.12	30	1.18	26.0 kg	13.5 kg		24.8 kg		25.0 kg
T120.25.45	25	0.79	3.0	0.12	37	1.46	30.0 kg	15.0 kg		28.6 kg		28.9 kg



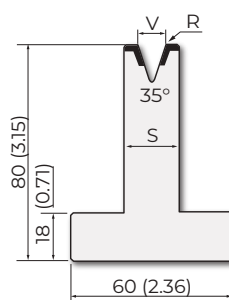
45°

C45: 560-710 N/mm²

See table

H=80 mm / 3.15 in

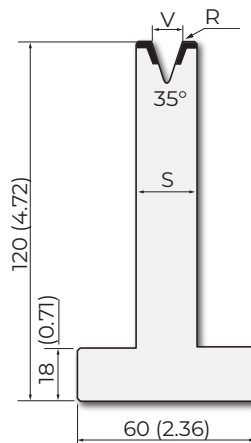
Model	V [mm]	V [in]	R [mm]	R [in]	S [mm]	S [in]	kN/m max.	Weight	Weight	FX	Weight	F	Weight
T80.06.35	6	0.24	0.8	0.03	14	0.55	350	12.5 kg	6.5 kg		12.0 kg		12.0 kg
T80.08.35	8	0.31	1.0	0.04	16	0.63	350	13.0 kg	7.0 kg		14.0 kg		14.0 kg
T80.10.35	10	0.39	1.2	0.05	20	0.79	400	15.0 kg	7.5 kg		15.0 kg		15.0 kg
T80.12.35	12	0.47	1.6	0.06	22	0.87	400	15.5 kg	8.0 kg		16.0 kg		16.0 kg
T80.16.35	16	0.63	3.0	0.12	30	1.18	450	18.0 kg	8.5 kg		17.0 kg		17.0 kg
T80.20.35	20	0.79	3.0	0.12	35	1.38	500	19.3 kg	9.0 kg		18.0 kg		18.0 kg
T80.25.35	25	0.98	3.0	0.12	40	1.57	500	20.0 kg	9.9 kg		19.3 kg		19.3 kg

**35°**C45: 560-710 N/mm²

See table

H=120 mm / 4.72 in

Model	V [mm]	V [in]	R [mm]	R [in]	S [mm]	S [in]	kN/m max.	Weight	Weight	FX	Weight	F	Weight
T120.06.35	6	0.24	0.8	0.03	14	0.55	350	16.0 kg	8.0 kg		16.0 kg		16.0 kg
T120.08.35	8	0.31	1.0	0.04	16	0.63	350	18.0 kg	9.0 kg		18.0 kg		18.0 kg
T120.10.35	10	0.39	1.2	0.05	20	0.79	400	19.9 kg	8.5 kg		19.0 kg		19.0 kg
T120.12.35	12	0.47	1.6	0.06	22	0.87	400	21.0 kg	10.0 kg		20.0 kg		20.0 kg
T120.16.35	16	0.63	3.0	0.12	30	1.18	450	25.8 kg	12.8 kg		24.8 kg		24.8 kg
T120.20.35	20	0.79	3.0	0.12	35	1.38	500	28.0 kg	14.0 kg		28.0 kg		28.0 kg
T120.25.35	25	0.98	3.0	0.12	40	1.57	500	30.5 kg	15.2 kg		29.0 kg		29.4 kg



35°

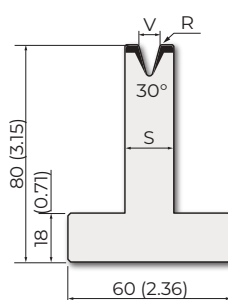


C45: 560-710 N/mm²

See table

H=80 mm / 3.15 in

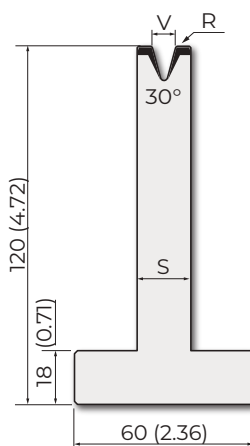
Model	V [mm]	V [in]	R [mm]	R [in]	S [mm]	S [in]	kN/m max.	Weight	Weight	FX	Weight	F	Weight
T80.06.30	6	0.24	0.6	0.024	14	0.55	350	12.4 kg	6.5 kg		12.0 kg		12.0 kg
T80.08.30	8	0.31	0.8	0.031	18	0.71	350	13.0 kg	7.0 kg		14.0 kg		14.0 kg
T80.10.30	10	0.39	1.0	0.039	24	0.94	500	16.0 kg	8.0 kg		15.4 kg		15.0 kg
T80.12.30	12	0.47	1.5	0.059	24	0.84	400	16.0 kg	8.0 kg		15.5 kg		15.5 kg
T80.16.30	16	0.63	2.0	0.079	30	1.18	450	18.0 kg	8.9 kg		17.3 kg		17.3 kg
T80.20.30	20	0.79	2.5	0.09	35	1.38	500	19.0 kg	9.5 kg		18.0 kg		18.0 kg
T80.25.30	25	0.98	3.0	0.118	40	1.57	500	20.0 kg	10.0 kg		19.3 kg		19.3 kg

**30°**C45: 560-710 N/mm²

See table

H=120 mm / 4.72 in

Model	V [mm]	V [in]	R [mm]	R [in]	S [mm]	S [in]	kN/m max.	Weight	Weight	FX	Weight	F	Weight
T120.06.30	6	0.24	0.6	0.024	14	0.55	350	16.0 kg	8.0 kg		16.0 kg		16.0 kg
T120.08.30	8	0.31	0.8	0.031	18	0.71	350	19.0 kg	9.5 kg		19.0 kg		19.0 kg
T120.10.30	10	0.39	1.0	0.039	18	0.71	500	22.0 kg	10.9 kg		14.5 kg		14.5 kg
T120.12.30	12	0.47	1.5	0.059	24	0.94	400	22.0 kg	10.0 kg		20.0 kg		20.0 kg
T120.16.30	16	0.63	2.0	0.079	30	1.18	450	25.8 kg	13.0 kg		25.8 kg		25.8 kg
T120.20.30	20	0.79	2.5	0.09	35	1.38	500	28.0 kg	14.0 kg		28.0 kg		28.0 kg
T120.25.30	25	0.98	3.0	0.118	40	1.57	500	30.5 kg	15.0 kg		30.5 kg		30.5 kg

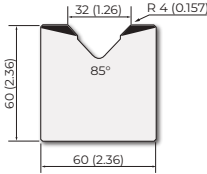
**30°**

1-V Dies

C45: 560-710 N/mm² 1000 kN/m max.

M60.85.32

835 mm	32.87 in	21.6 kg
415 mm	16.34 in	10.7 kg
795 mm	31.29 in	20.6 kg FX
805 mm	31.69 in	20.8 kg F

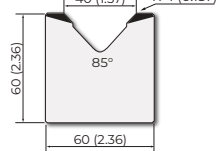


85°

C45: 560-710 N/mm² 1000 kN/m max.

M60.85.40

835 mm	32.87 in	20.0 kg
415 mm	16.34 in	10.5 kg
795 mm	31.29 in	19.0 kg FX
805 mm	31.69 in	19.0 kg F

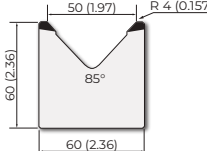


85°

C45: 560-710 N/mm² 1000 kN/m max.

M60.85.50

835 mm	32.87 in	19.0 kg
415 mm	16.34 in	9.5 kg
795 mm	31.29 in	19.0 kg FX
805 mm	31.69 in	19.0 kg F

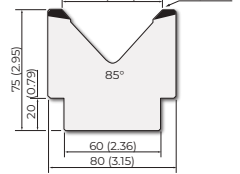


85°

C45: 560-710 N/mm² 1000 kN/m max.

M75.85.63

835 mm	32.87 in	29.2 kg
415 mm	16.34 in	14.5 kg
795 mm	31.29 in	28.0 kg FX
805 mm	31.69 in	28.0 kg F

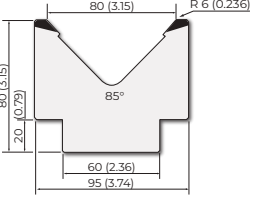


85°

C45: 560-710 N/mm² 1000 kN/m max.

M80.85.80

835 mm	32.87 in	33.5 kg
415 mm	16.34 in	16.6 kg
795 mm	31.29 in	32.2 kg FX
805 mm	31.69 in	32.2 kg F

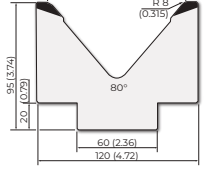


85°

C45: 560-710 N/mm² 1000 kN/m max.

M95.80.100

835 mm	32.87 in	46.2 kg
415 mm	16.34 in	22.9 kg
795 mm	31.29 in	44.5 kg FX
805 mm	31.69 in	44.5 kg F

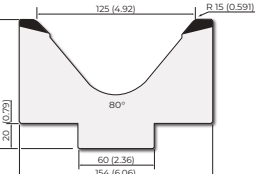


80°

C45: 560-710 N/mm² 700 kN/m max.

MK103.80.125

835 mm	32.87 in	62.0 kg
415 mm	16.34 in	31.0 kg
795 mm	31.29 in	59.8 kg FX
805 mm	31.69 in	59.8 kg F

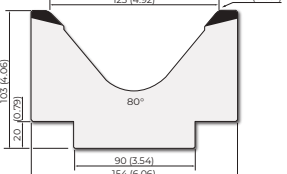


80°

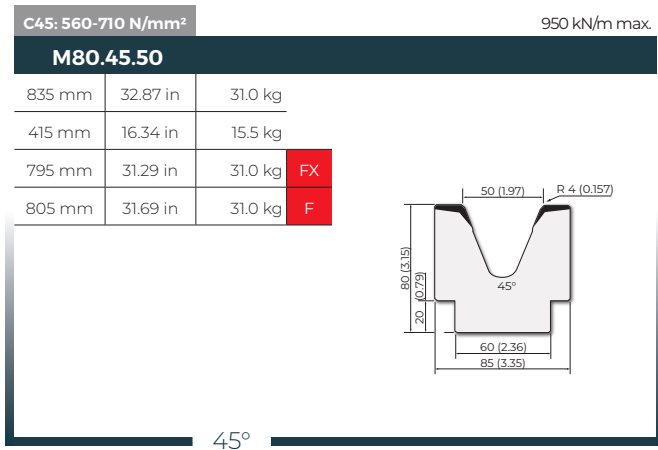
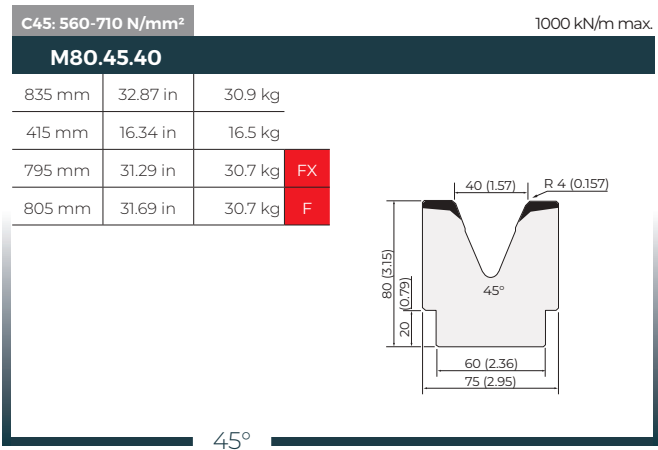
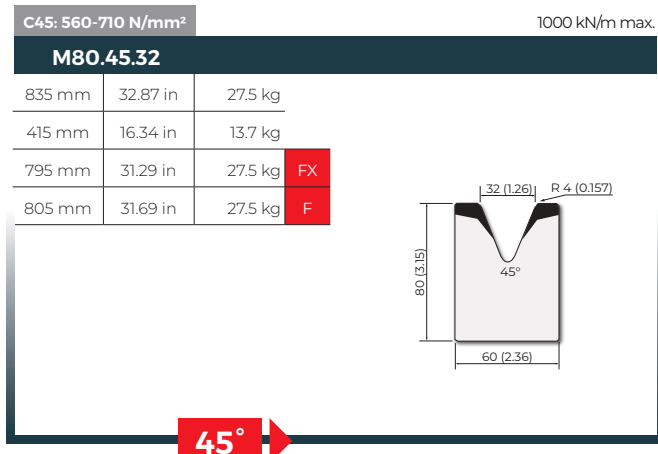
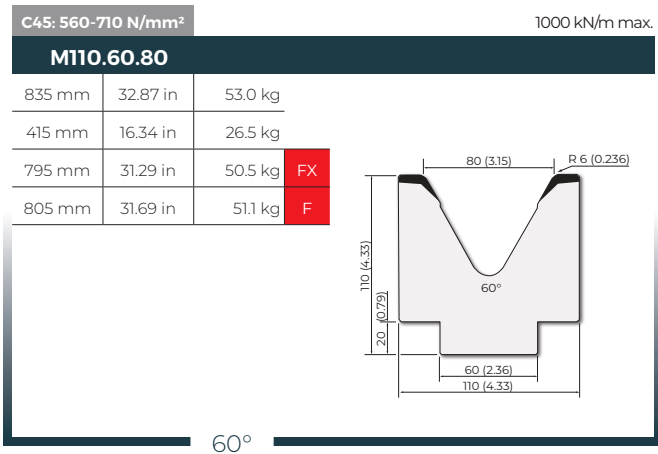
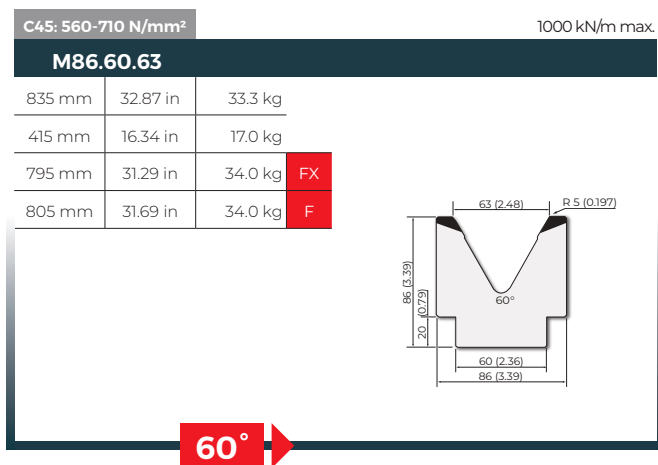
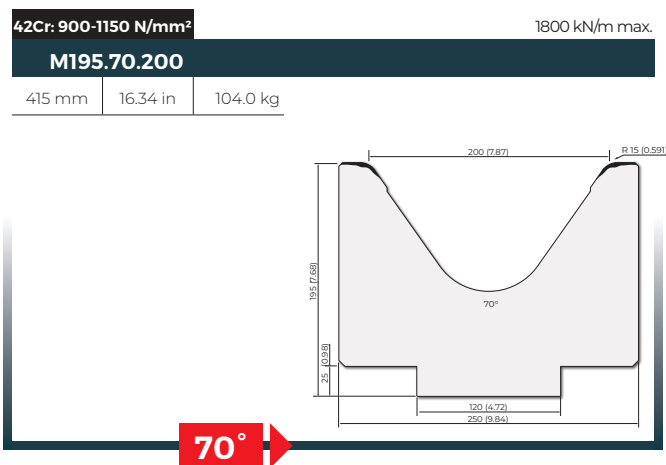
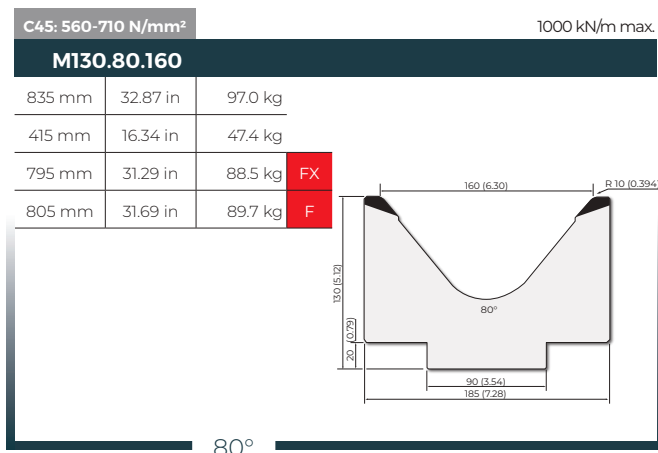
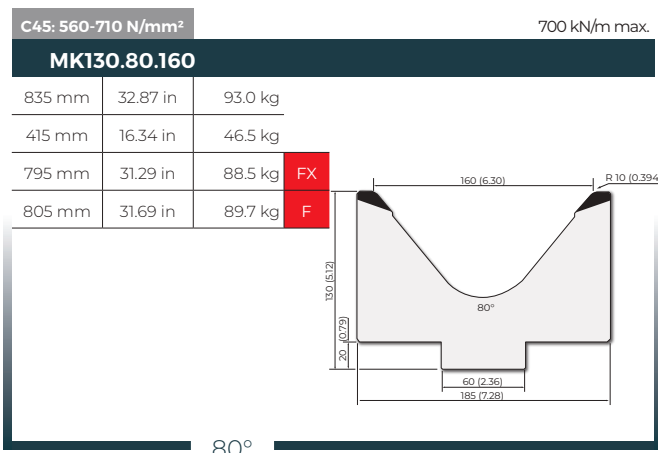
C45: 560-710 N/mm² 1000 kN/m max.

M103.80.125

835 mm	32.87 in	64.9 kg
415 mm	16.34 in	32.2 kg
795 mm	31.29 in	62.5 kg FX
805 mm	31.69 in	62.5 kg F



80°



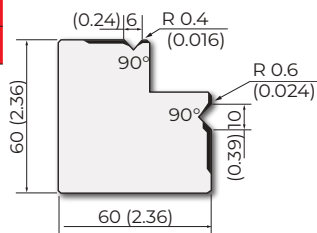
Multi-V Dies

C45: 560-710 N/mm²

1000 kN/m max.

M60.90.01

835 mm	32.87 in	20.0 kg
415 mm	16.34 in	10.0 kg
795 mm	31.29 in	20.0 kg FX
805 mm	31.69 in	20.0 kg F



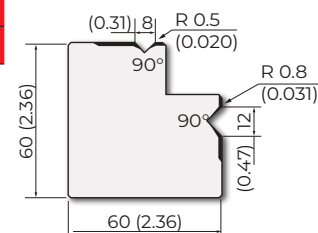
90°

C45: 560-710 N/mm²

1000 kN/m max.

M60.90.02

835 mm	32.87 in	20.0 kg
415 mm	16.34 in	10.0 kg
795 mm	31.29 in	20.0 kg FX
805 mm	31.69 in	20.0 kg F



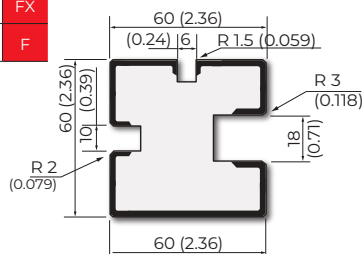
90°

C45: 560-710 N/mm²

1000 kN/m max.

M.360.R

835 mm	32.87 in	20.0 kg
415 mm	16.34 in	10.0 kg
795 mm	31.29 in	20.0 kg FX
805 mm	31.69 in	20.0 kg F

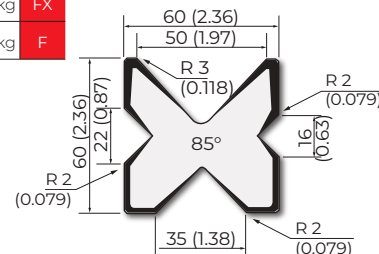


C45: 560-710 N/mm²

800 kN/m max.

M.460.R

835 mm	32.87 in	15.7 kg
415 mm	16.34 in	7.7 kg
795 mm	31.29 in	15.1 kg FX
805 mm	31.69 in	15.1 kg F



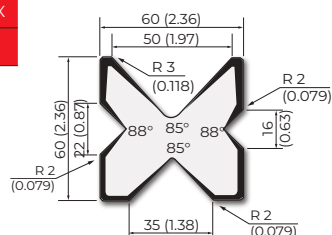
85°

C45: 560-710 N/mm²

800 kN/m max.

M.460

835 mm	32.87 in	15.7 kg
415 mm	16.34 in	7.7 kg
795 mm	31.29 in	15.5 kg FX
805 mm	31.69 in	15.5 kg F



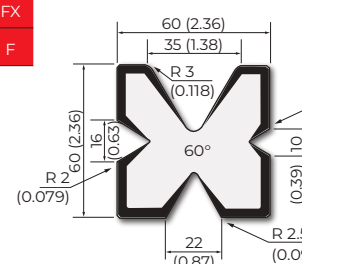
85° 88°

C45: 560-710 N/mm²

600 kN/m max.

M.460.60

835 mm	32.87 in	18.0 kg
415 mm	16.34 in	9.0 kg
795 mm	31.29 in	16.0 kg FX
805 mm	31.69 in	16.0 kg F



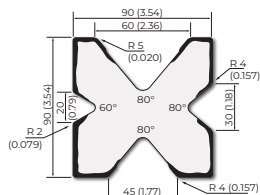
60°

C45: 560-710 N/mm²

1000 kN/m max.

M.490

835 mm	32.87 in	38.9 kg
415 mm	16.34 in	20.0 kg
795 mm	31.29 in	39.0 kg FX
805 mm	31.69 in	39.0 kg F



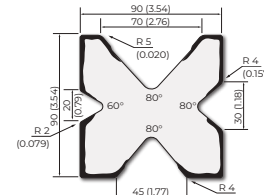
60° 80°

C45: 560-710 N/mm²

600 kN/m max.

M.490.70

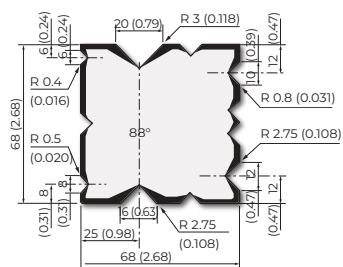
835 mm	32.87 in	35.8 kg
415 mm	16.34 in	17.9 kg
795 mm	31.29 in	36.0 kg FX
805 mm	31.69 in	36.0 kg F



60° 80°

1000 kN/m max.

525 mm	20.67 in	17.5 kg
495 mm	19.49 in	16.5 kg

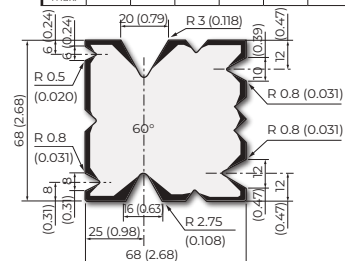


88°

See table

525 mm	20.67 in	16.8 kg
495 mm	19.49 in	15.8 kg

V [mm]	6	8	10	12	16	20
V [in]	0.24	0.31	0.39	0.47	0.63	0.79
kN/m max.	600	600	600	600	800	800

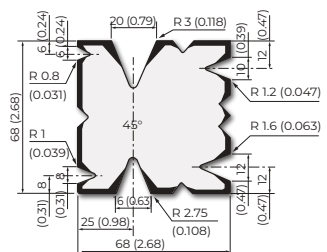


60°

See table

525 mm	20.67 in	16.1 kg
495 mm	19.49 in	15.2 kg

V [mm]	6	8	10	12	16	20
V [in]	0.24	0.31	0.39	0.47	0.63	0.79
kN/m _{max}	400	400	500	500	700	700

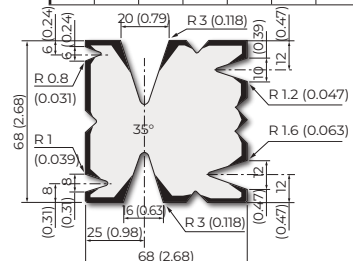


45°

See table

525 mm	20.67 in	15.3 kg
495 mm	19.49 in	14.4 kg

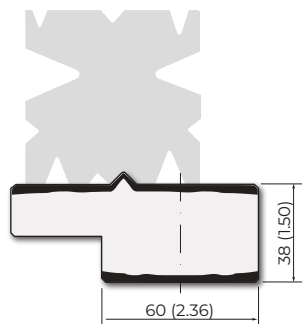
V [mm]	6	8	10	12	16	20
V [in]	0.24	0.31	0.39	0.47	0.63	0.79
kN/m max.	300	350	450	450	500	500



35°

SU-T70

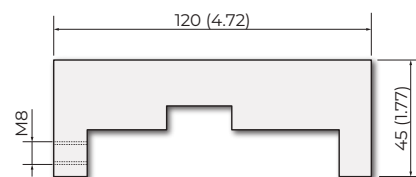
525 mm	20.67 in	12.4 kg
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Holder

PB-T70

20 mm	0.79 in	0.2 kg
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- Retainer

Hemming Tools

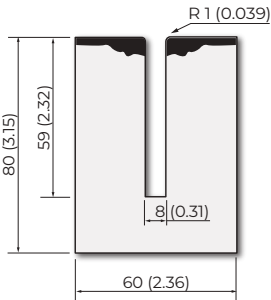
42Cr: 900-1150 N/mm²

500 kN/m max. - 1000 kN/m max.

TOP.SM-134.28.8

525 mm	20.67 in	17.5 kg
495 mm	19.49 in	16.5 kg

To use with:
▶ TOP.SP-134.28.8 (pag. 15)



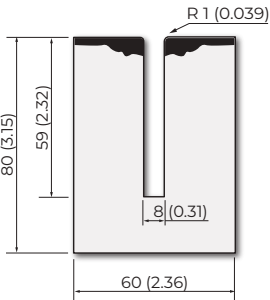
42Cr: 900-1150 N/mm²

500 kN/m max. - 1000 kN/m max.

TOP.SM-134.24.8

525 mm	20.67 in	16.5 kg
495 mm	19.49 in	16.5 kg

To use with:
▶ TOP.SP-134.24.8 (page 15)



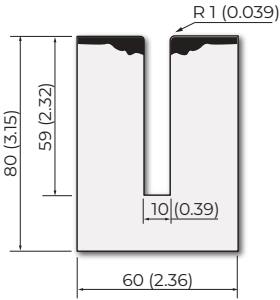
42Cr: 900-1150 N/mm²

500 kN/m max. - 1000 kN/m max.

TOP.SM-134.24.10

525 mm	20.67 in	18.0 kg
495 mm	19.49 in	16.9 kg

To use with:
▶ TOP.SP-134.24.10 (page 15)



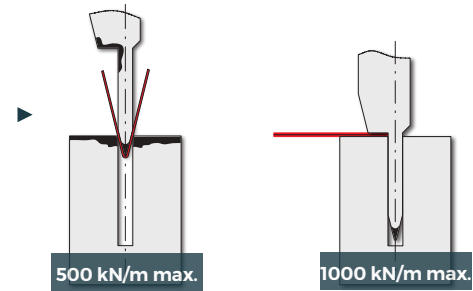
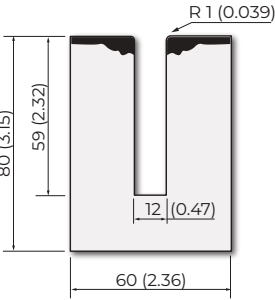
42Cr: 900-1150 N/mm²

500 kN/m max. - 1000 kN/m max.

TOP.SM-134.24.12

525 mm	20.67 in	16.8 kg
495 mm	19.49 in	15.9 kg

To use with:
▶ TOP.SP-134.24.12 (page 15)



S [mm]	S (in)	A [mm]	A (in)	R.420 N/mm ² kN/m	R.700 N/mm ² kN/m
0.6	0.02	3.0	0.12	90	150
0.8	0.03	3.0	0.12	120	200
1.0	0.04	3.5	0.14	150	250
1.25	0.05	3.5	0.14	170	260

S [mm]	S (in)	A [mm]	A (in)	R.420 N/mm ² kN/m	R.700 N/mm ² kN/m
0.6	0.02	1.2	0.05	230	350
0.8	0.03	1.6	0.06	320	500
1.0	0.04	1.0	0.04	400	600
1.25	0.05	2.5	0.10	500	800

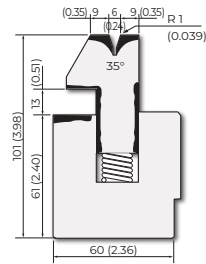
Spring-loaded Hemming Dies

C45: 560-710 N/mm²

600 kN/m max.

S101.35.06

835 mm	32.87 in	30.0 kg
415 mm	16.34 in	15.4 kg



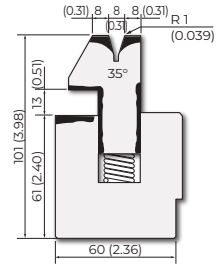
35°

C45: 560-710 N/mm²

600 kN/m max.

S101.35.08

835 mm	32.87 in	30.0 kg
415 mm	16.34 in	15.0 kg



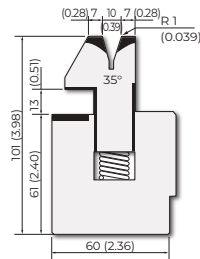
35°

C45: 560-710 N/mm²

600 kN/m max.

S101.35.10

835 mm	32.87 in	30.0 kg
415 mm	16.34 in	15.5 kg



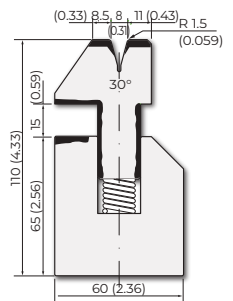
35°

C45: 560-710 N/mm²

800 kN/m max.

S110.30.08

835 mm	32.87 in	30.0 kg
415 mm	16.34 in	15.0 kg



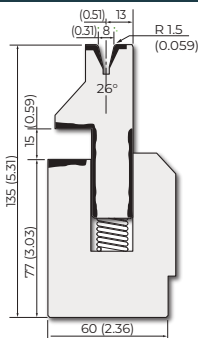
30°

42Cr: 900-1150 N/mm²

400 kN/m max.

S135.26.08

835 mm	32.87 in	39.8 kg
415 mm	16.34 in	21.0 kg



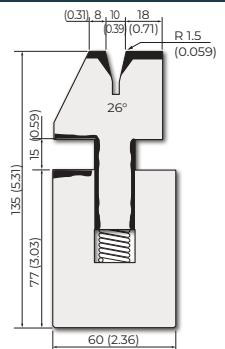
26°

C45: 560-710 N/mm²

1000 kN/m max.

S135.26.10

835 mm	32.87 in	41.5 kg
415 mm	16.34 in	20.7 kg



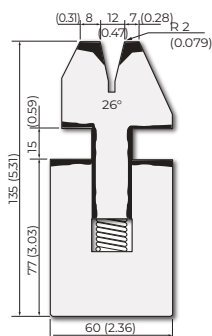
26°

C45: 560-710 N/mm²

1000 kN/m max.

SA135.26.12

835 mm	32.87 in	41.0 kg
415 mm	16.34 in	20.5 kg



26°

EMACPRESS hemming dies can also be used as standard dies. You only have to secure the screws when the die is closed to prevent springs from moving the mobile part upwards.



Spring-loaded Hemming Dies



S [mm]	S [in]	A [mm]	A [in]	R.420 N/mm ² kN/m	R.700 N/mm ² kN/m	S [mm]	S [in]	A [mm]	A [in]	R.420 N/mm ² kN/m	R.700 N/mm ² kN/m
0.6	0.02	3.0	0.12	90	150	0.6	0.02	1.2	0.05	230	350
0.8	0.03	3.0	0.12	120	200	0.8	0.03	1.6	0.06	320	500
1.0	0.04	3.5	0.14	150	250	1.0	0.04	1.0	0.04	400	600
1.25	0.05	3.5	0.14	170	260	1.25	0.05	2.5	0.10	500	800
1.5	0.06	4.6	0.18	220	380	1.5	0.06	3.0	0.12	630	950
2.0	0.08	5.5	0.22	300	500	2.0	0.08	4.0	0.16	800	1300
2.5	0.10	6.5	0.26	550	-	2.5	0.10	5.0	0.20	900	-
3.0	0.12	8.0	0.31	700	-	3.0	0.12	6.0	0.24	1000	-



Pneumatic Hemming Dies

KPN

Per piece 1.0 kg



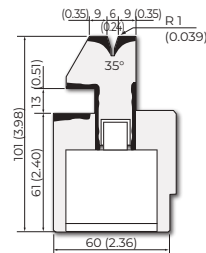
Accessory

C45: 560-710 N/mm²

600 kN/m max.

S101PN.35.06

835 mm	32.87 in	30.0 kg
415 mm	16.34 in	15.5 kg



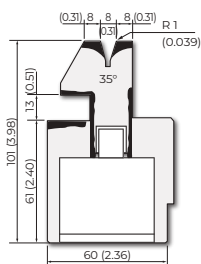
35°

C45: 560-710 N/mm²

600 kN/m max.

S101PN.35.08

835 mm	32.87 in	31.0 kg
415 mm	16.34 in	15.5 kg



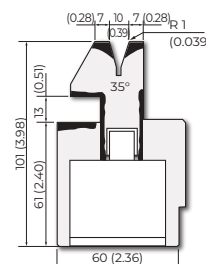
35°

C45: 560-710 N/mm²

600 kN/m max.

S101PN.35.10

835 mm	32.87 in	29.0 kg
415 mm	16.34 in	15.5 kg



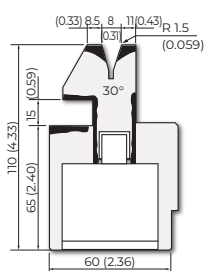
35°

C45: 560-710 N/mm²

800 kN/m max.

S110PN.30.08

835 mm	32.87 in	30.0 kg
415 mm	16.34 in	15.0 kg



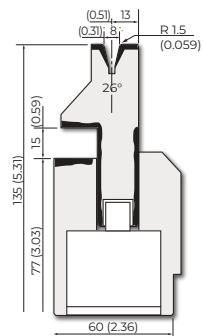
30°

42Cr: 900-1150 N/mm²

400 kN/m max.

S135PN.26.08

835 mm	32.87 in	39.8 kg
415 mm	16.34 in	21.2 kg



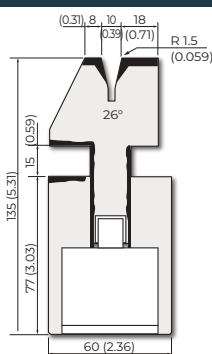
26°

C45: 560-710 N/mm²

1000 kN/m max.

S135PN.26.10

835 mm	32.87 in	41.5 kg
415 mm	16.34 in	20.7 kg



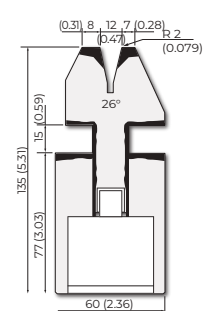
26°

C45: 560-710 N/mm²

1000 kN/m max.

SA135PN.26.12

835 mm	32.87 in	41.0 kg
415 mm	16.34 in	20.5 kg



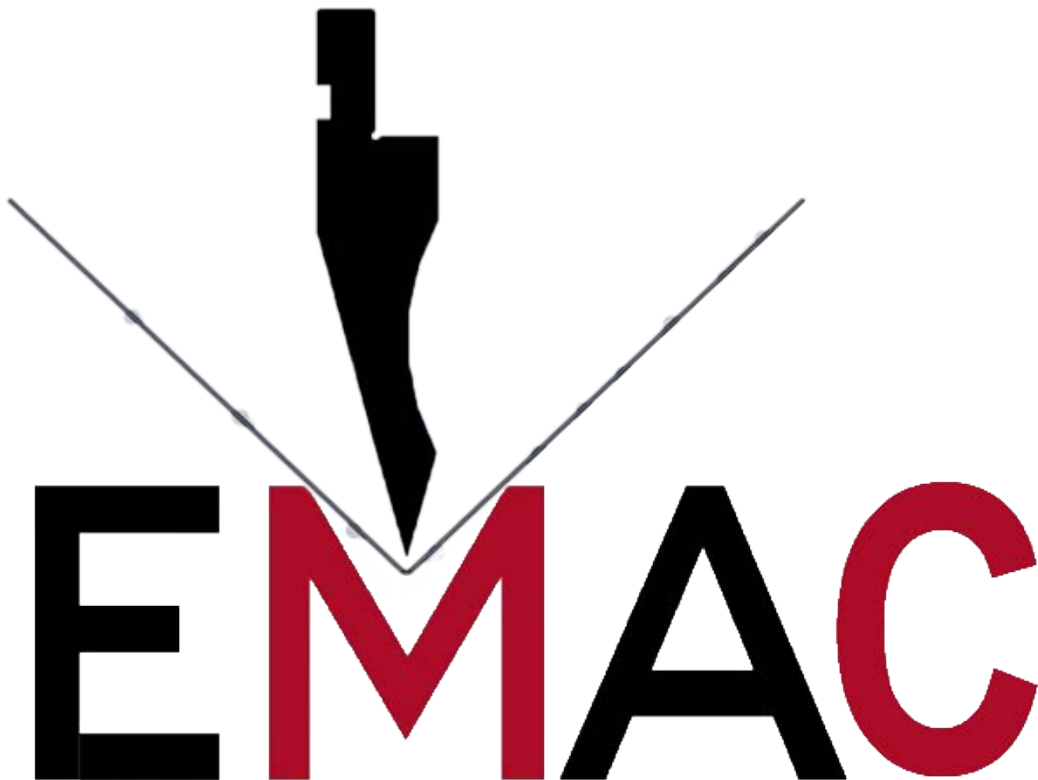
26°

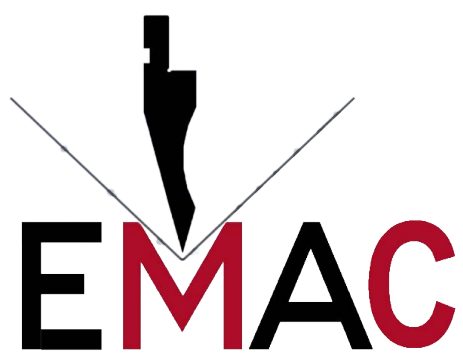
Pneumatic Hemming Dies - (R1)



S [mm]	S [in]	A [mm]	A [in]	R.45 Kgfi/ mm² kN/m	R.70 Kgfi/ mm² kN/m
0.6	0.02	3.0	0.12	90	150
0.8	0.03	3.0	0.12	120	200
1.0	0.04	3.5	0.14	150	250
1.25	0.05	3.5	0.14	170	260
1.5	0.06	4.6	0.18	220	380
2.0	0.08	5.5	0.22	300	500
2.5	0.10	6.5	0.26	550	-
3.0	0.12	8.0	0.31	700	-

S [mm]	S [in]	A [mm]	A [in]	R.45 Kgfi/ mm² kN/m	R.70 Kgfi/ mm² kN/m
0.6	0.02	1.2	0.05	230	350
0.8	0.03	1.6	0.06	320	500
1.0	0.04	1.0	0.04	400	600
1.25	0.05	2.5	0.10	500	800
1.5	0.06	3.0	0.12	630	950
2.0	0.08	4.0	0.16	800	1300
2.5	0.10	5.0	0.20	900	-
3.0	0.12	6.0	0.24	1000	-



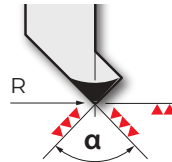
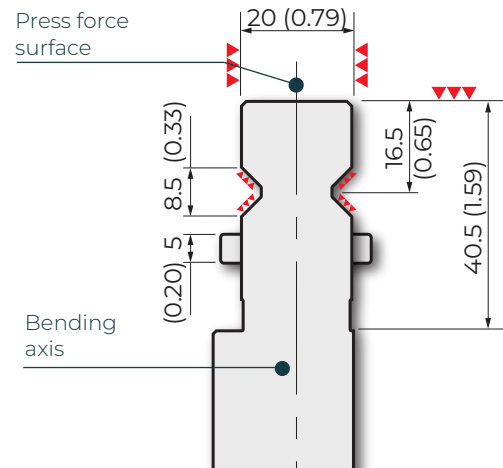
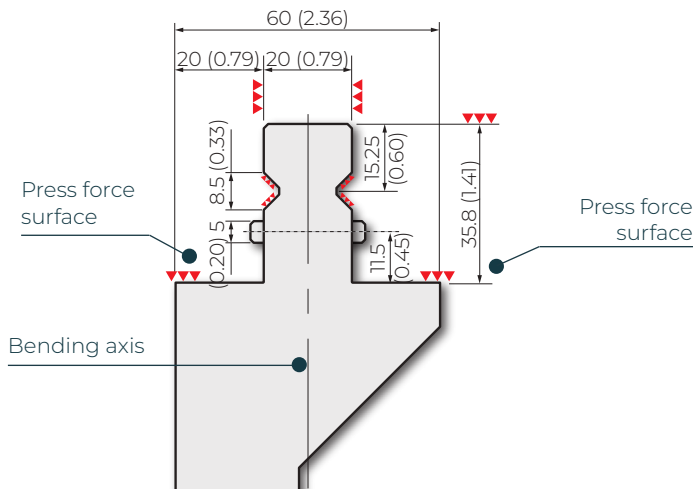


WILA TYPE PUNCHES

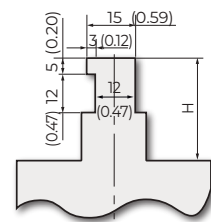
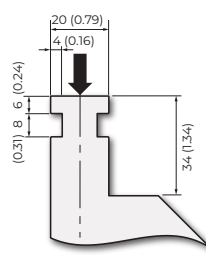
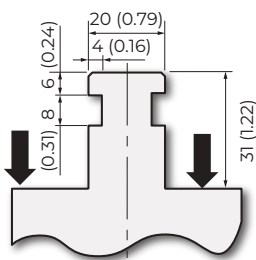


STANDARD TANG

↓: Press force surface



MODIFICATIONS FROM SAFETY GROOVES



STANDARD LENGTH

100 mm (3.93 in)	
250 mm (9.84 in)	
500 mm (19.68 in)	
515 mm (20.28 in)	
525 mm (20.67 in)	

CLAMPING SYSTEMS

QuickLock (Standard)

- ▶ Vertical tool change
- ▶ Easy handling
- ▶ Substantial improvement in time consumption and related costs
- ▶ Applicable on tools < 12.5 kg
- ▶ Applicable on tools > 12.5 kg through special sectioning

! check this icon, you can chose between three different clamping solutions



Safety Pins (Standard)

- ▶ Horizontal tool change



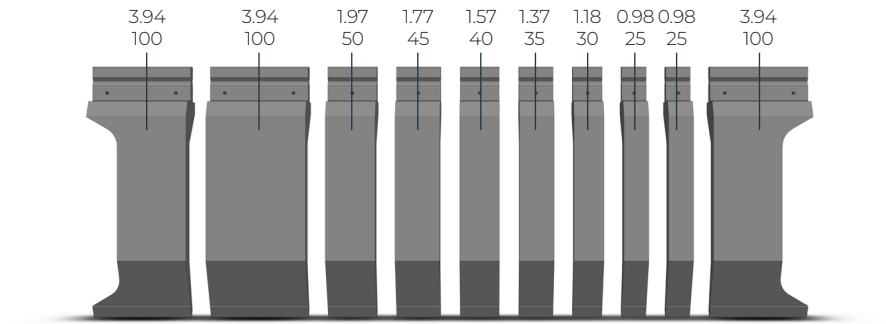
- ▶ Vertical tool change through spring-loaded ball bearings, which are mounted in the punch
- ▶ Increased longevity
- ▶ Easy handling
- ▶ To be used in hardened clamping systems only
- ▶ Applicable on tools < 12.5 kg



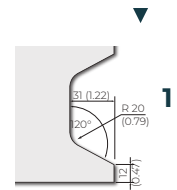


SEGMENTATION

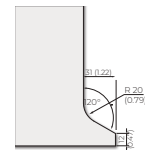
FW: 550 mm (21.65 in) - 10 segments



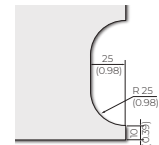
Horn types



1

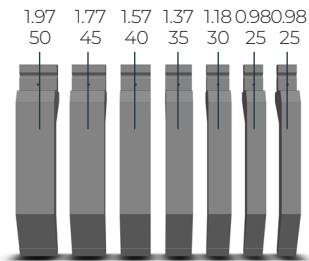


1/A

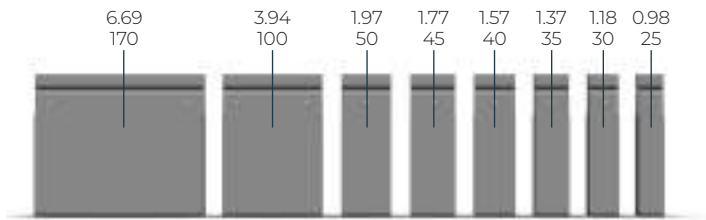


2

FC: 250 mm (9.84 in) - 7 segments



F: 495 mm (19.49 in) - 8 segments



FA: 49.21-80.71-100.39-120.08-159.45 in

Length mm (in)	25 (0.98)	30 (1.18)	35 (1.38)	40 (1.57)	45 (1.77)	50 (1.97)	100 (3.94) Horn l.	100 (3.94) Horn r.	100 (3.94)
1250 (49.21)	2	1	1	1	1	1	1	1	8
2050 (80.71)	2	1	1	1	1	1	1	1	16
2550 (100.39)	2	1	1	1	1	1	1	1	21
3050 (120.08)	2	1	1	1	1	1	1	1	26
4050 (159.45)	2	1	1	1	1	1	1	1	36

Available on request

FB: 49.21-80.71-100.39-120.08-159.45 in

Length mm (in)	25 (0.98)	30 (1.18)	35 (1.38)	40 (1.57)	45 (1.77)	50 (1.97)	100 (3.94) Horn l.	100 (3.94) Horn r.	100 (3.94)	200 (7.87)	300 (11.81)	500 (19.68)
1250 (49.21)	2	1	1	1	1	1	1	1	1	2	1	0
2050 (80.71)	2	1	1	1	1	1	1	1	1	1	1	2
2550 (100.39)	2	1	1	1	1	1	1	1	1	1	1	3
3050 (120.08)	2	1	1	1	1	1	1	1	1	1	1	4
4050 (159.45)	2	1	1	1	1	1	1	1	1	1	1	6

Available on request

Punches

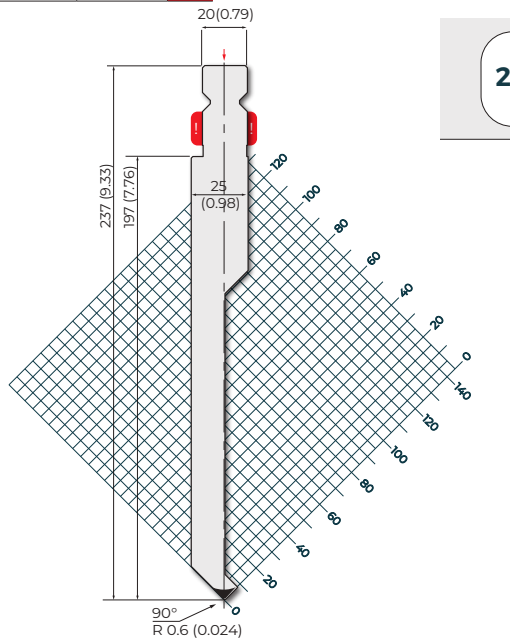
42Cr: 900-1150 N/mm²

600 kN/m max.

TPR237.90.R06

100 mm	3.93 in	3.4 kg
250 mm	9.84 in	8.5 kg
515 mm	20.82 in	17.5 kg
550 mm	21.65 in	18.7 kg

FW



90°

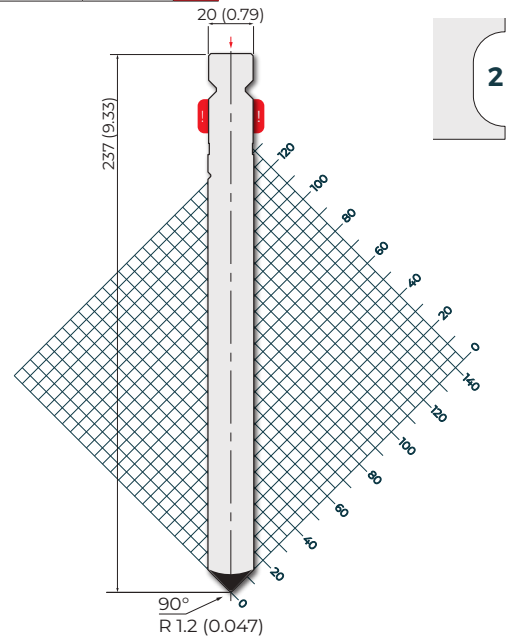
42Cr: 900-1150 N/mm²

1000 kN/m max.

TPR237.90.R12

100 mm	3.93 in	3.7 kg
250 mm	9.84 in	9.2 kg
515 mm	20.82 in	19.0 kg
550 mm	21.65 in	20.3 kg

FW



90°

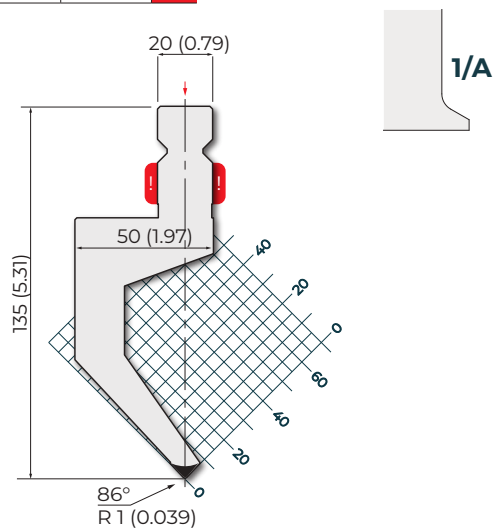
42Cr: 900-1150 N/mm²

650 kN/m max.

TPR135.86.R1

100 mm	3.93 in	2.4 kg
250 mm	9.84 in	6.0 kg
515 mm	20.82 in	12.3 kg
550 mm	21.65 in	13.1 kg

FW



86°

42Cr: 900-1150 N/mm²

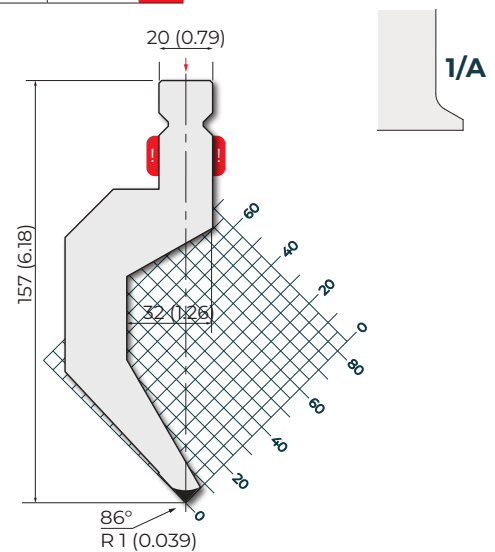
800 kN/m max.

TPR157.86.R1

100 mm	3.93 in	3.0 kg
500 mm	19.68 in	14.0 kg
250 mm	9.84 in	7.5 kg
550 mm	21.65 in	15.0 kg

FC

FW



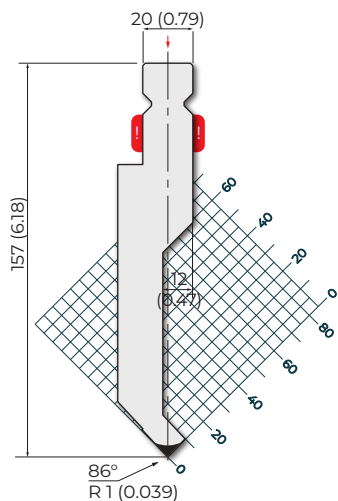
86°

42Cr: 900-1150 N/mm²

800 kN/m max.

TPR157.86.R1-A

100 mm	3.93 in	2.5 kg
500 mm	19.68 in	12.5 kg
250 mm	9.84 in	6.2 kg FC
550 mm	21.65 in	12.5 kg FW



1/A

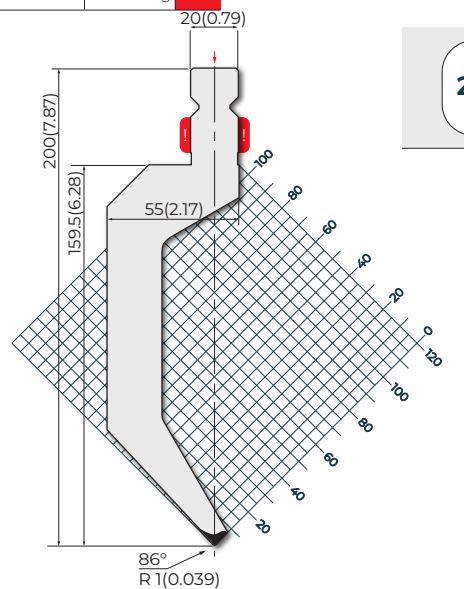
86°

42Cr: 900-1150 N/mm²

500 kN/m max.

TPR200.86.R1

100 mm	3.93 in	3.7 kg
250 mm	9.84 in	6.1 kg
515 mm	20.82 in	19.1 kg
550 mm	21.65 in	20.4 kg FW



2

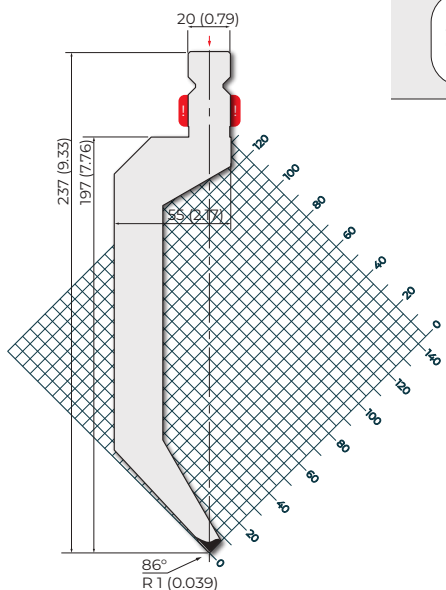
86°

42Cr: 900-1150 N/mm²

500 kN/m max.

TPR237.86.R1

100 mm	3.93 in	4.5 kg
250 mm	9.84 in	11.2 kg
515 mm	20.82 in	23.0 kg
550 mm	21.65 in	24.6 kg FW



2

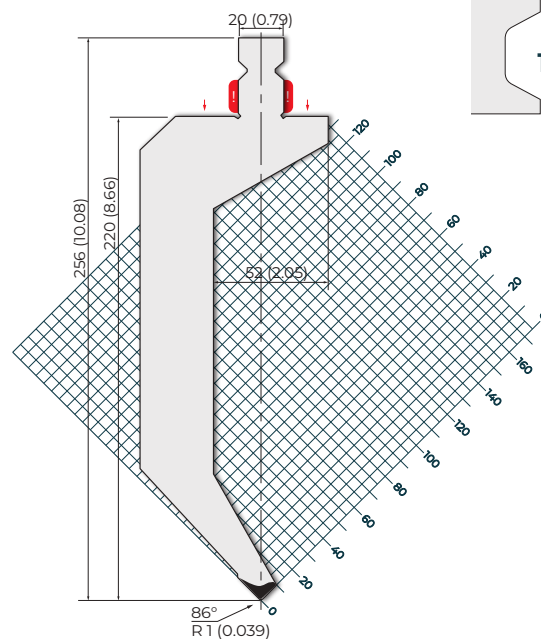
86°

42Cr: 900-1150 N/mm²

800 kN/m max.

TPR256.86.R1

100 mm	3.93 in	6.5 kg
500 mm	19.68 in	33.0 kg
250 mm	9.84 in	16.5 kg FC
550 mm	21.65 in	33.0 kg FW



1

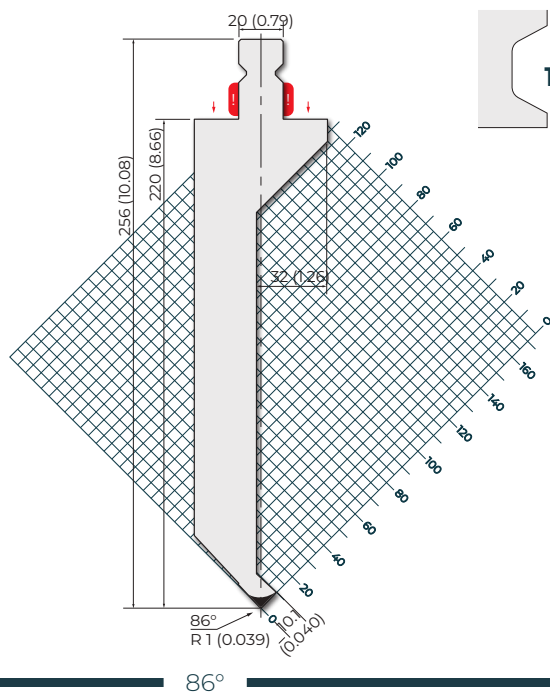
86°

42Cr: 900-1150 N/mm²

800 kN/m max.

TPR256.86.R1-A

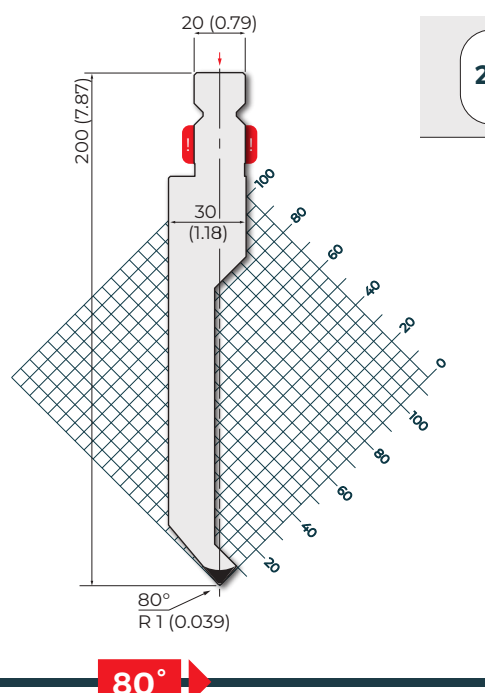
100 mm	3.93 in	4.7 kg
500 mm	19.68 in	28.5 kg
250 mm	9.84 in	12.5 kg FC
550 mm	21.65 in	28.5 kg FW

42Cr: 900-1150 N/mm²

800 kN/m max.

TPR200.80.R1

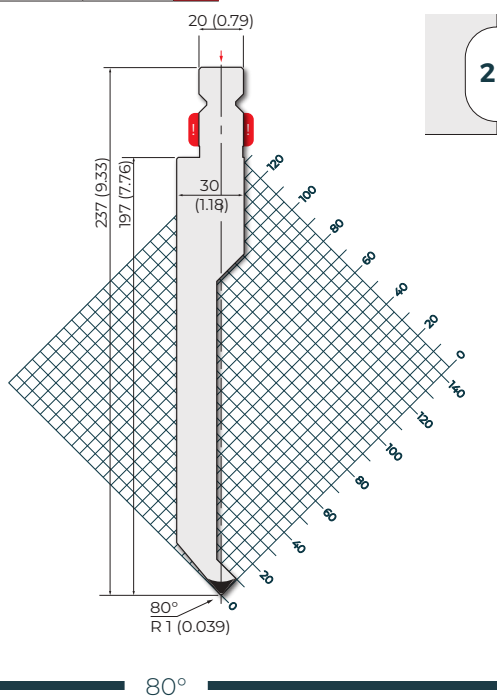
100 mm	3.93 in	3.7 kg
250 mm	9.84 in	9.2 kg
515 mm	20.82 in	19.0 kg
550 mm	21.65 in	21.0 kg FW

42Cr: 900-1150 N/mm²

800 kN/m max.

TPR237.80.R1

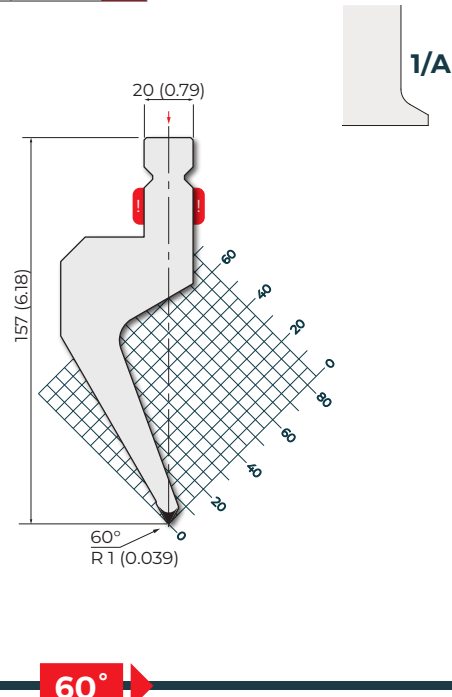
100 mm	3.93 in	3.8 kg
250 mm	9.84 in	9.6 kg
515 mm	20.82 in	19.7 kg
550 mm	21.65 in	21.0 kg FW

42Cr: 900-1150 N/mm²

700 kN/m max.

TPR157.60.R1

100 mm	3.93 in	3.0 kg
500 mm	19.68 in	15.0 kg
250 mm	9.84 in	7.5 kg FC
550 mm	21.65 in	16.5 kg FW

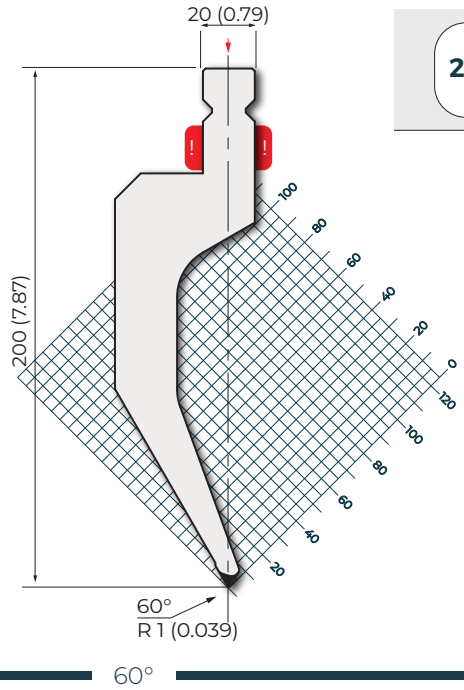


42Cr: 900-1150 N/mm²

700 kN/m max.

TPR200.60.R1

100 mm	3.93 in	3.7 kg
500 mm	19.68 in	18.3 kg
250 mm	9.84 in	9.2 kg FC
550 mm	21.65 in	20.2 kg FW

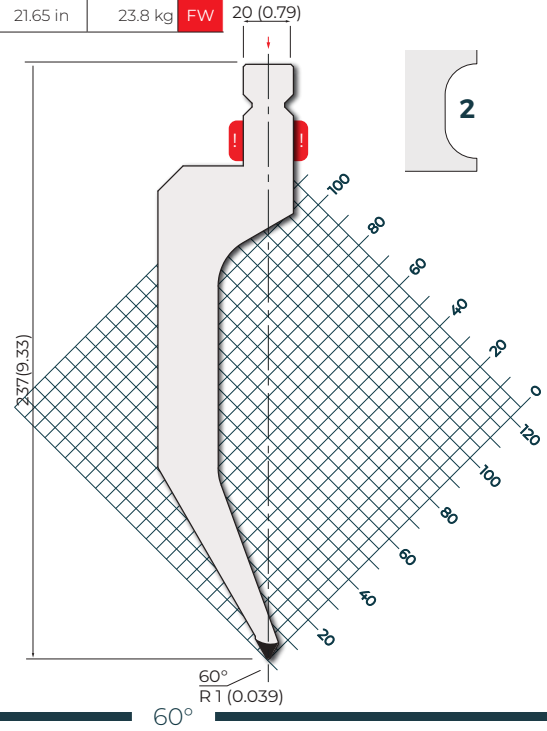


42Cr: 900-1150 N/mm²

700 kN/m max.

TPR237.60.R1

100 mm	3.93 in	4.3 kg
500 mm	19.68 in	21.6 kg
250 mm	9.84 in	10.8 kg FC
550 mm	21.65 in	23.8 kg FW

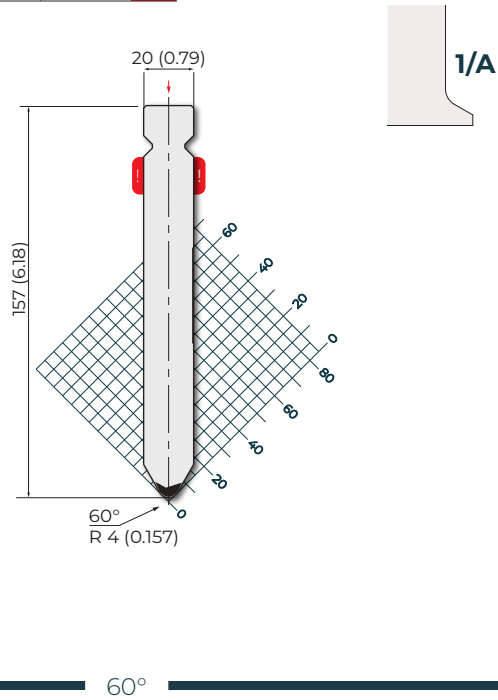


42Cr: 900-1150 N/mm²

1300 kN/m max.

TPR157.60.R4

100 mm	3.93 in	2.4 kg
500 mm	19.68 in	12.0 kg
250 mm	9.84 in	6.0 kg FC
550 mm	21.65 in	12.0 kg FW

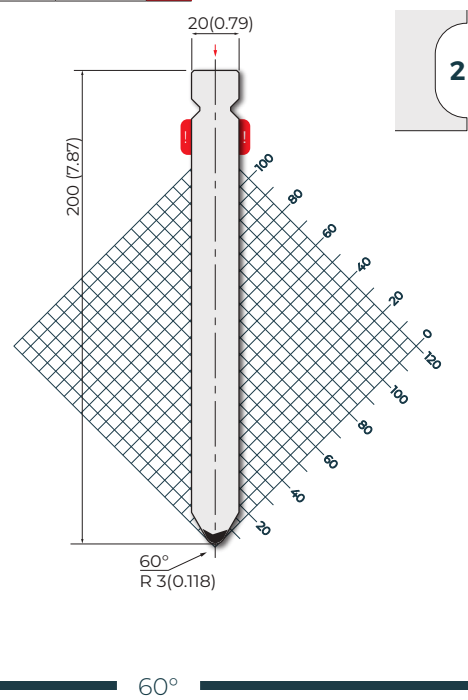


42Cr: 900-1150 N/mm²

1300 kN/m max.

TPR200.60.R3

100 mm	3.93 in	3.0 kg
250 mm	9.84 in	7.6 kg
515 mm	20.82 in	15.6 kg
550 mm	21.65 in	16.7 kg FW

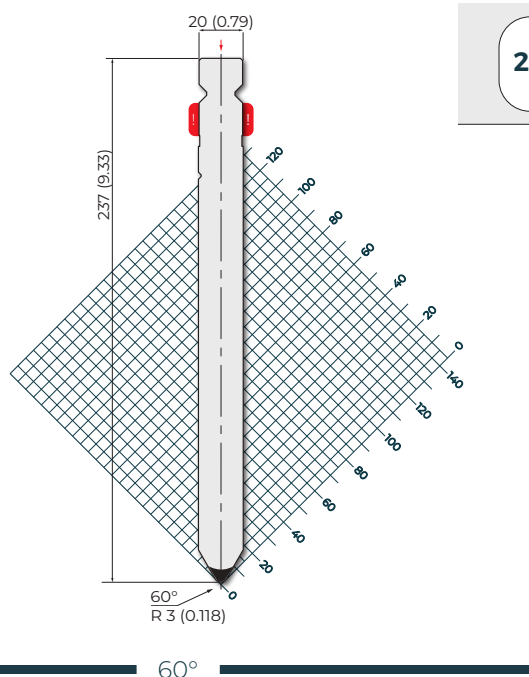


42Cr: 900-1150 N/mm²

1300 kN/m max.

TPR237.60.R3

100 mm	3.93 in	3.6 kg
250 mm	9.84 in	9.1 kg
515 mm	20.82 in	18.8 kg
550 mm	21.65 in	20.1 kg FW

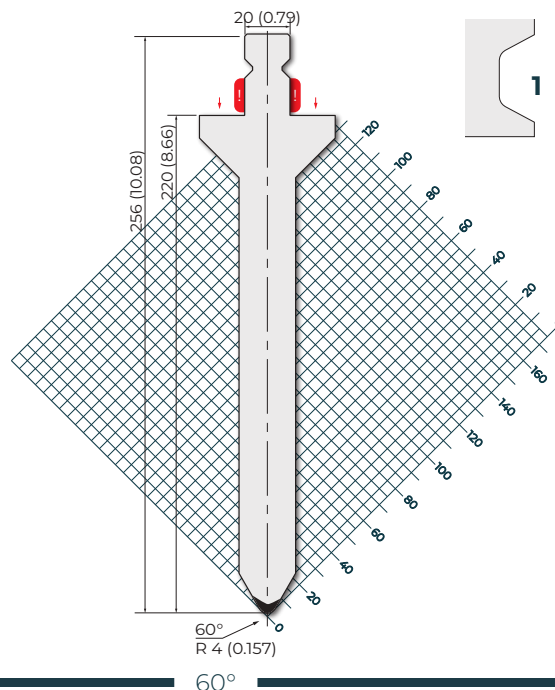


42Cr: 900-1150 N/mm²

1300 kN/m max.

TPR256.60.R4

100 mm	3.93 in	5.2 kg
500 mm	19.68 in	26.1 kg
250 mm	9.84 in	13.5 kg FC
550 mm	21.65 in	27.0 kg FW

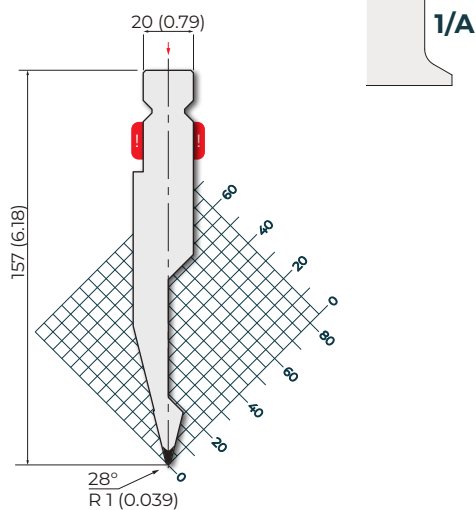


42Cr: 900-1150 N/mm²

600 kN/m max.

TPR157.28.R1

100 mm	3.93 in	2.0 kg
500 mm	19.68 in	10.0 kg
250 mm	9.84 in	5.0 kg FC
550 mm	21.65 in	10.0 kg FW

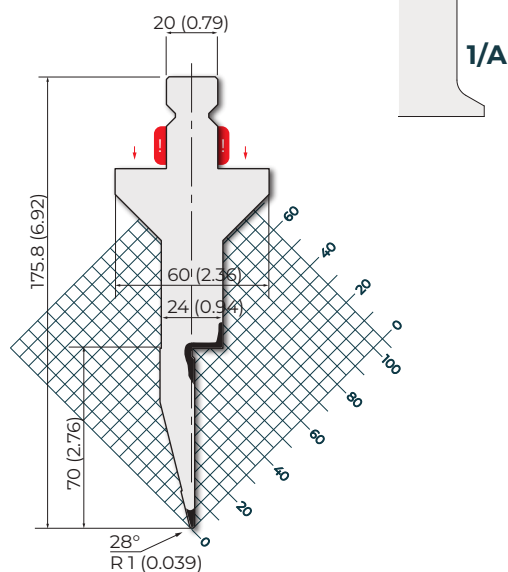


42Cr: 900-1150 N/mm²

400 kN/m max.

TPR176.28.R1

100 mm	3.93 in	3.0 kg
500 mm	19.68 in	15.0 kg
250 mm	9.84 in	7.5 kg FC
550 mm	21.65 in	10.0 kg FW



28°

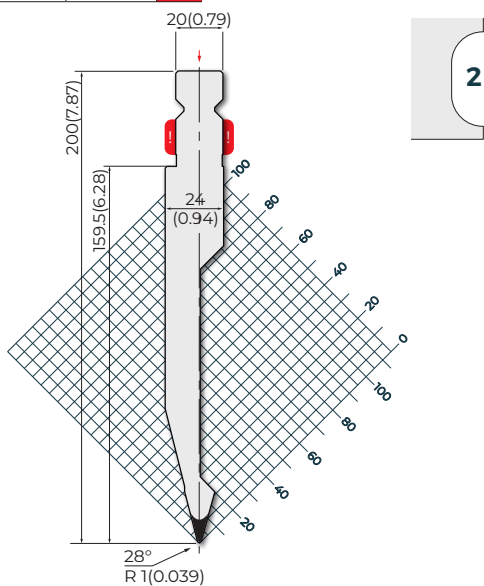
28°

42Cr: 900-1150 N/mm²

600 kN/m max.

TPR200.28.R1

100 mm	3.93 in	2.4 kg
250 mm	9.84 in	6.1 kg
515 mm	20.82 in	12.6 kg
550 mm	21.65 in	13.5 kg FW



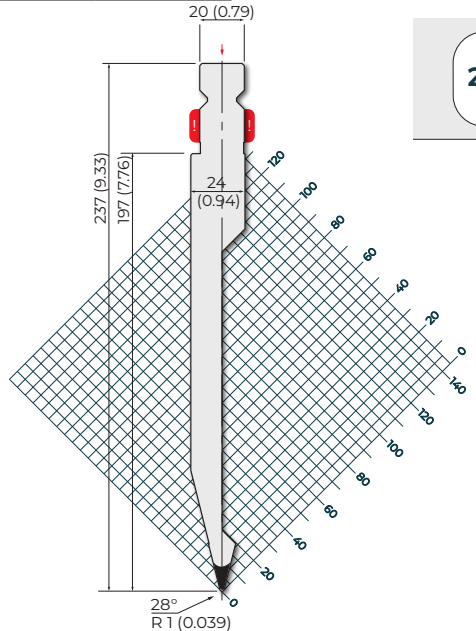
28°

42Cr: 900-1150 N/mm²

600 kN/m max.

TPR237.28.R1

100 mm	3.93 in	2.9 kg
250 mm	9.84 in	7.3 kg
515 mm	20.82 in	15.0 kg
550 mm	21.65 in	16.0 kg FW



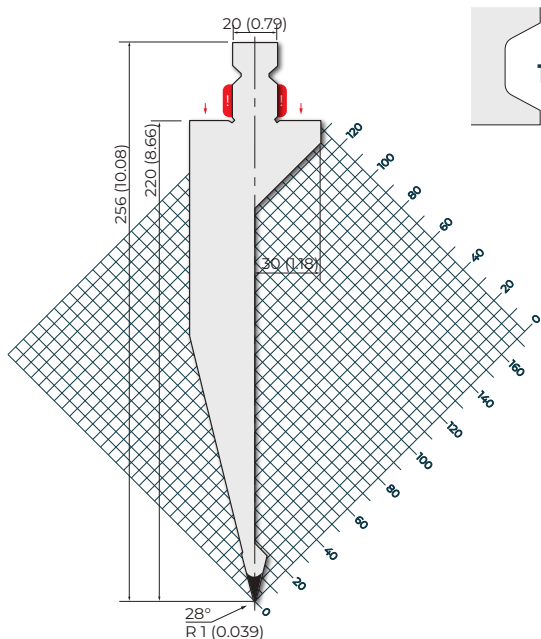
28°

42Cr: 900-1150 N/mm²

600 kN/m max.

TPR256.28.R1

100 mm	3.93 in	5.0 kg
500 mm	19.68 in	25.0 kg
250 mm	9.84 in	12.5 kg FC
550 mm	21.65 in	28.0 kg FW



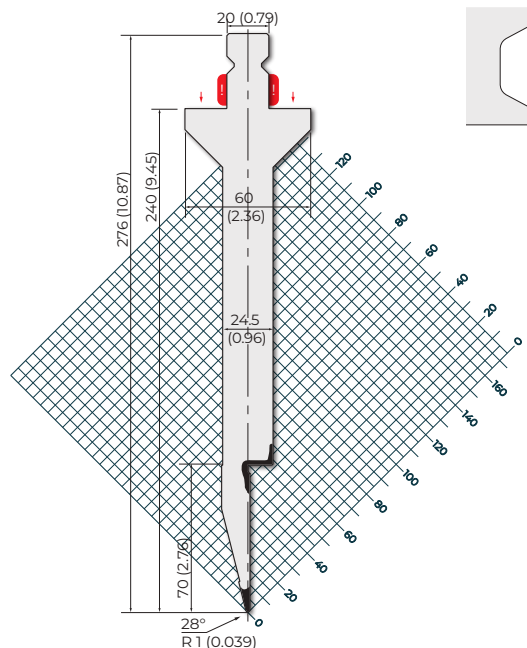
28°

42Cr: 900-1150 N/mm²

400 kN/m max.

TPR276.28.R1

100 mm	3.93 in	4.8 kg
500 mm	19.68 in	24.0 kg
250 mm	9.84 in	12.0 kg FC
550 mm	21.65 in	26.4 kg FW



28°

Hemming Punches

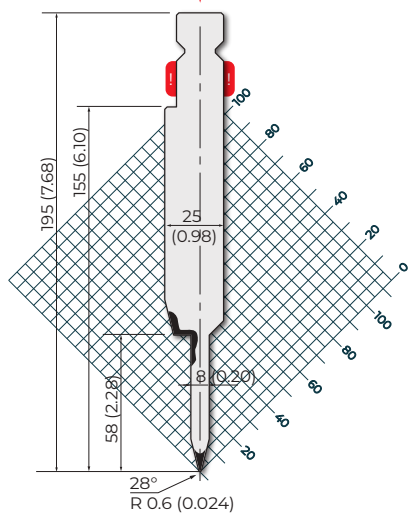
42Cr: 900-1150 N/mm²

800 kN/m max. - 1000 kN/m max.

TPR.SP.195.28.8

100 mm	3.93 in	2.9 kg
525 mm	20.67 in	15.1 kg
495 mm	19.49 in	8.9 kg

To use with:
▶ TPR.SM.195.28.8 (page 142)



28°

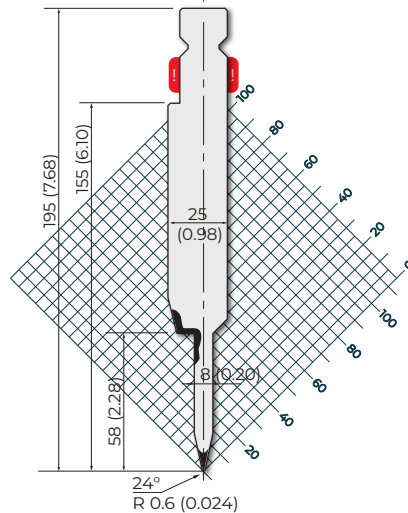
42Cr: 900-1150 N/mm²

800 kN/m max. - 1000 kN/m max.

TPR.SP.195.24.8

100 mm	3.93 in	2.9 kg
525 mm	20.67 in	15.0 kg
495 mm	19.49 in	8.9 kg

To use with:
▶ TPR.SM.195.24.8 (page 142)



24°

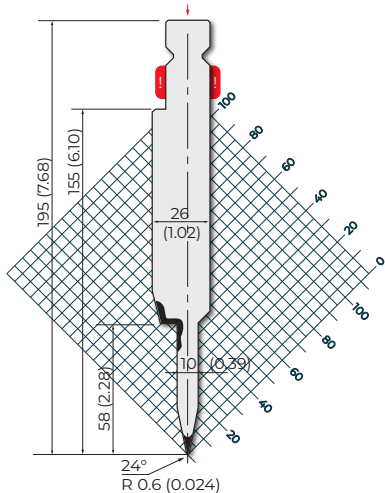
42Cr: 900-1150 N/mm²

800 kN/m max. - 1000 kN/m max.

TPR.SP.195.24.10

100 mm	3.93 in	3.0 kg
525 mm	20.67 in	15.5 kg
495 mm	19.49 in	9.3 kg

To use with:
▶ TPR.SM.195.24.10 (page 142)



24°

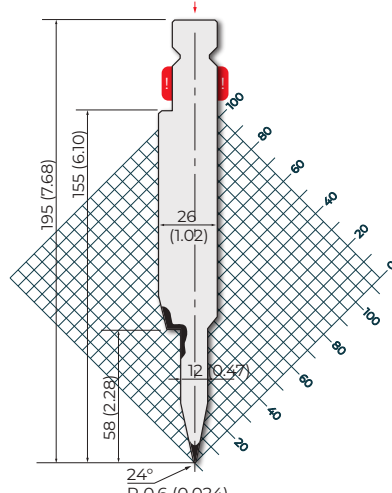
42Cr: 900-1150 N/mm²

800 kN/m max. - 1000 kN/m max.

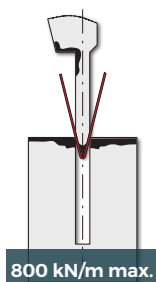
TPR.SP.195.24.12

100 mm	3.93 in	3.0 kg
525 mm	20.67 in	16.0 kg
495 mm	19.49 in	9.5 kg

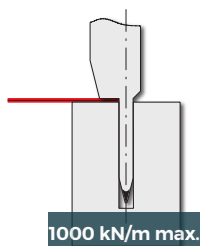
To use with:
▶ TPR.SM.195.24.12 (page 142)



24°



800 kN/m max.



1000 kN/m max.



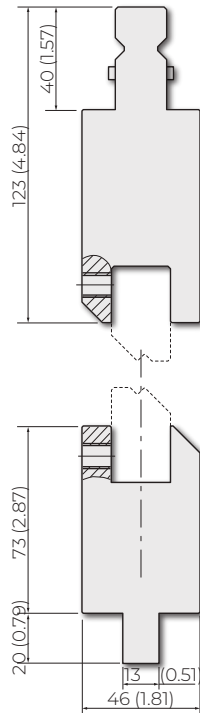
S [mm]	S (in)	A [mm]	A (in)	R.420 kN/mm ² kN/m	R.700 kN/mm ² kN/m	S [mm]	S (in)	A [mm]	A (in)	R.420 kN/mm ² kN/m	R.700 kN/mm ² kN/m
0.6	0.02	3.0	0.12	90	150	0.6	0.02	1.2	0.05	230	350
0.8	0.03	3.0	0.12	120	200	0.8	0.03	1.6	0.06	320	500
1.0	0.04	3.5	0.14	150	250	1.0	0.04	1.0	0.04	400	600
1.25	0.05	3.5	0.14	170	260	1.25	0.05	2.5	0.10	500	800

C45: 560-710 N/mm²

1000 kN/m max.

TPZ

835 mm	32.87 in	46.7 kg
415 mm	16.34 in	23.2 kg



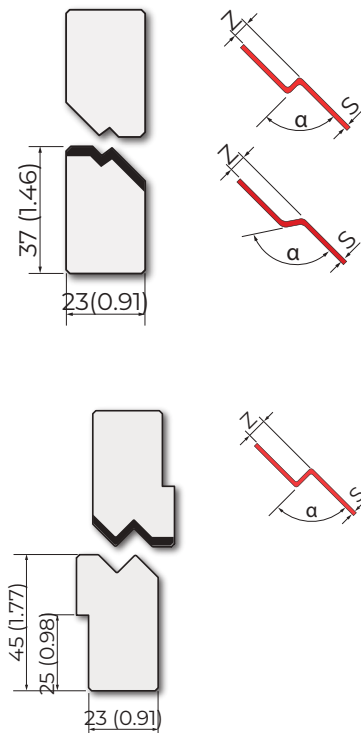
C45: 560-710 N/mm²

1000 kN/m max.

Joggle Tool Inserts

	Z [mm]	Z [in]	α	S* [mm]	S* [in]		
CEZ 1.0	1.0	0.04	160°	1.2	0.05	11.0 kg	5.5 kg A
CEZ 1.5	1.5	0.06	160°	1.5	0.06	11.0 kg	5.5 kg A
CEZ 2.0	2.0	0.08	150°	1.4	0.06	11.0 kg	5.5 kg A
CEZ 2.5	2.5	0.10	140°	1.3	0.05	11.0 kg	5.5 kg A
CEZ 1.0/90	1.0	0.04	90°	0.3	0.01	11.0 kg	5.5 kg A
CEZ 1.5/90	1.5	0.06	90°	0.3	0.01	11.0 kg	5.5 kg A
CEZ 2.0/90	2.0	0.08	90°	0.4	0.02	11.0 kg	5.5 kg A
CEZ 2.5/90	2.5	0.10	90°	0.5	0.02	11.0 kg	5.5 kg A
CEZ 3.0	3.0	0.12	90°	1.0	0.04	10.3 kg	5.1 kg A
CEZ 3.5	3.5	0.14	90°	1.0	0.04	10.0 kg	5.0 kg A
CEZ 4.0	4.0	0.16	90°	1.2	0.05	10.0 kg	5.0 kg A
CEZ 4.5	4.5	0.18	90°	1.2	0.06	10.0 kg	5.0 kg A
CEZ 5.0	5.0	0.20	90°	1.3	0.06	10.0 kg	5.0 kg A
CEZ 5.5	5.5	0.22	90°	1.4	0.06	10.0 kg	5.0 kg A
CEZ 6.0	6.0	0.24	90°	1.5	0.06	10.0 kg	5.0 kg A
CEZ 6.5	6.5	0.26	90°	1.5	0.06	10.0 kg	5.0 kg A
CEZ 7.0	7.0	0.28	90°	1.5	0.06	10.0 kg	5.0 kg A
CEZ 7.5	7.5	0.30	90°	1.6	0.06	10.0 kg	5.0 kg A
CEZ 8.0	8.0	0.31	90°	1.6	0.06	10.0 kg	5.0 kg A
CEZ 9.0	9	0.35	90°	1.8	0.07	13.5 kg	6.5 kg B
CEZ 10.0	10	0.39	90°	1.8	0.07	13.5 kg	5.0 kg B
CEZ 11.0	11	0.43	90°	2	0.08	13.5 kg	5.0 kg B
CEZ 12.0	12	0.47	90°	2	0.08	13.5 kg	5.0 kg B
CEZ 13.0	13	0.51	90°	2	0.08	13.5 kg	5.0 kg B
CEZ 14.0	14	0.55	90°	2	0.08	13.5 kg	5.0 kg B
CEZ 15.0	15	0.59	90°	2.3	0.09	13.5 kg	5.0 kg B

* Fe Rmax = 420 N/mm²



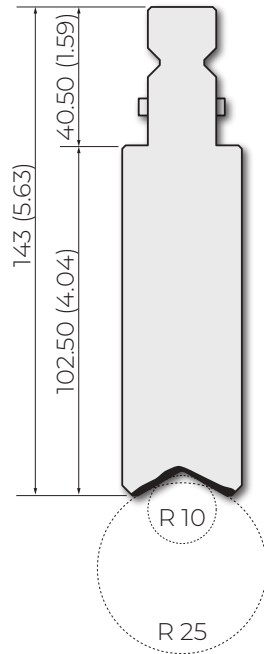
Radius punches

42Cr: 900-1150 N/mm²

1000 kN/m max.

TPR143.10

525 mm	20.67 in	18.0 kg
495 mm	19.49 in	17.0 kg F

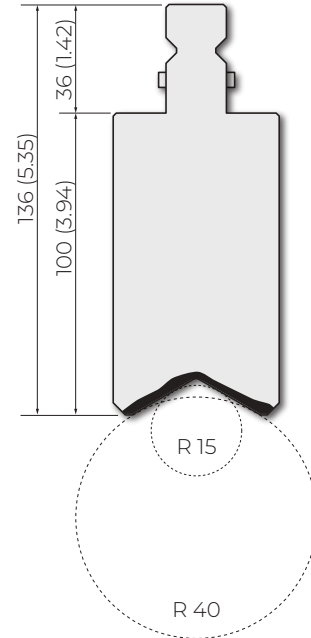


42Cr: 900-1150 N/mm²

1000 kN/m max.

TPR136.15

525 mm	20.67 in	25.0 kg
495 mm	19.49 in	23.7 kg F

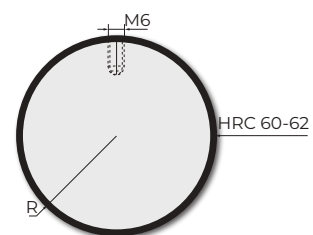


C53: 610-760 N/mm²

1000 kN/m max.

Radius punches: R10-R40

	R [mm]	R (in)		
TOP.C10	10	0.39	1.3 kg	2.7 kg
TOP.C12.5	12.5	0.49	2.0 kg	2.8 kg
TOP.C15	15	0.59	3.0 kg	3.8 kg
TOP.C17.5	17.5	0.69	4.0 kg	4.7 kg
TOP.C20	20	0.79	5.2 kg	6.6 kg
TOP.C22.5	22.5	0.88	6.6 kg	6.6 kg
TOP.C25	25	0.98	8.1 kg	7.5 kg
TOP.C27.5	27.5	1.08	9.8 kg	9.2 kg
TOP.C30	30	1.18	11.7 kg	11.3 kg
TOP.C32.5	32.5	1.28	13.7 kg	12.9 kg
TOP.C35	35	1.38	16.0 kg	15.1 kg
TOP.C37.5	37.5	1.47	18.2 kg	17.2 kg
TOP.C40	40	1.57	20.7 kg	19.5 kg



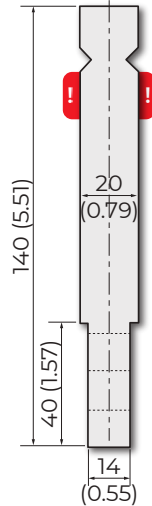
Radius Tools and Hemming tool

C45: 560-710 N/mm²

800 kN/m max.

TPR140-14

830 mm	32.69 in	17.0 kg
412 mm	16.22 in	9.0 kg



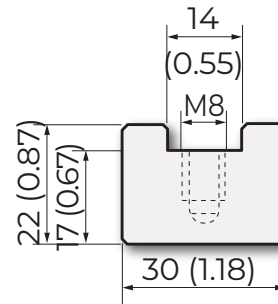
C45: 560-710 N/mm²

800 kN/m max.

E30.22

830 mm	32.69 in	3.5 kg
412 mm	16.22 in	1.7 kg

► Hemming tool

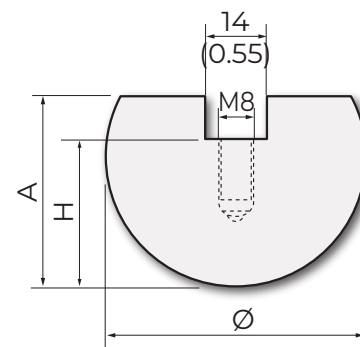
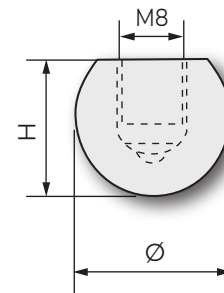


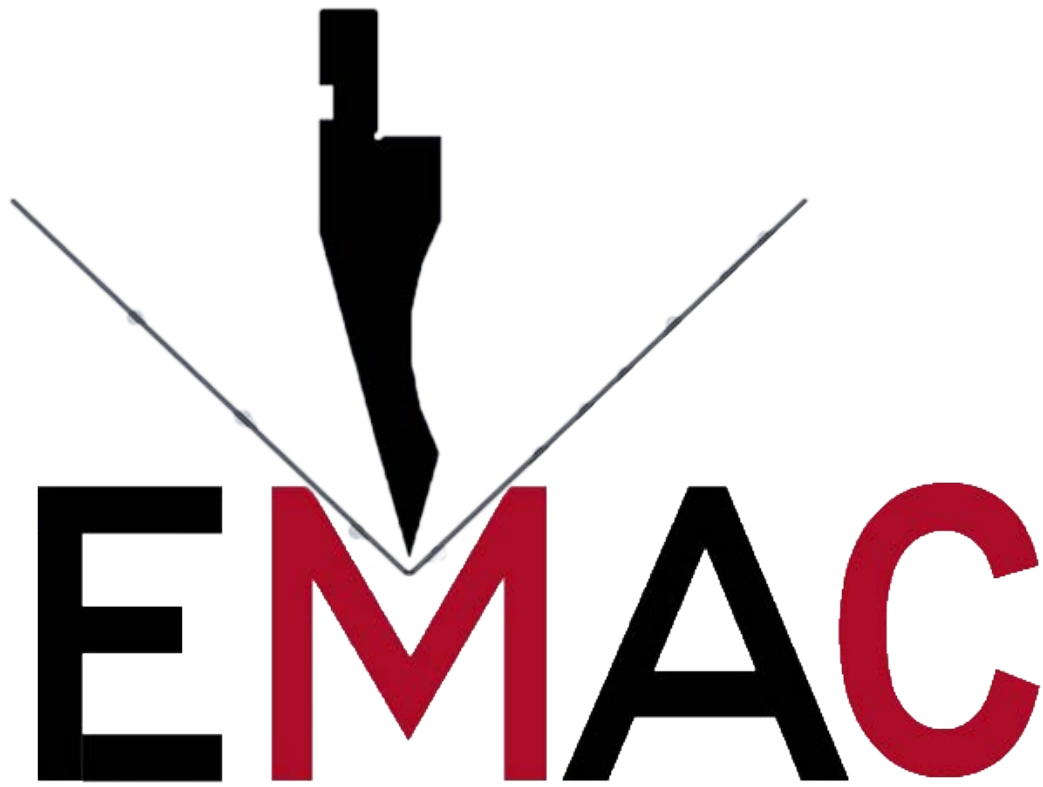
C45: 560-710 N/mm²

800 kN/m max.

Radius tool: $\phi 16 - 100$

	ϕ [mm]	ϕ [in]	A [mm]	A [in]	H [mm]	H [in]		
C13.08	16	0.63	13	0.51	-	-	2.0 kg	1.0 kg
C13.09	18	0.71	16	0.63	-	-	2.0 kg	1.0 kg
C16.10	20	0.79	16	0.63	-	-	2.0 kg	1.0 kg
C17.12	25	0.98	17	0.67	22	0.86	2.5 kg	1.2 kg
C20.15	30	1.18	20	0.79	27	1.06	3.7 kg	1.8 kg
C22.17	35	1.38	22	0.86	32	1.26	5.0 kg	2.4 kg
C24.20	40	1.57	24	0.94	34	1.33	7.0 kg	3.5 kg
C25.22	45	1.78	25	0.98	35	1.33	7.5 kg	3.8 kg
C29.25	50	1.97	29	1.14	39	1.53	10.0 kg	4.7 kg
C34.27	55	2.16	34	1.33	44	1.73	12.4 kg	6.2 kg
C34.30	60	2.36	34	1.33	44	1.73	13.5 kg	6.7 kg
C37.32	65	2.56	37	1.45	47	1.85	15.9 kg	7.9 kg
C45.35	70	2.75	45	1.77	55	2.16	20.3 kg	10.0 kg
C42.37	75	2.95	42	1.65	52	2.04	20.5 kg	10.3 kg
C45.40	80	3.15	45	1.78	55	2.16	23.0 kg	11.5 kg
C60.45	90	3.54	60	2.36	70	2.75	34.0 kg	17.0 kg
C70.50	100	3.93	70	2.75	80	3.15	43.5 kg	21.7 kg



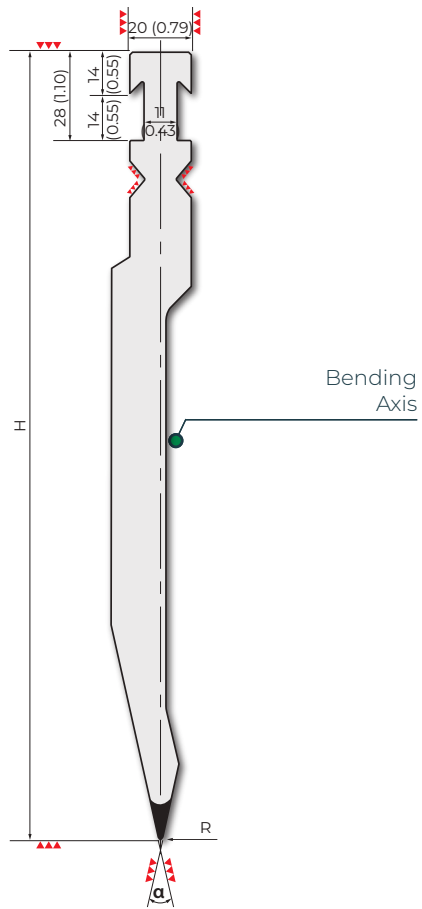


Bystronic TYPE PUNCHES

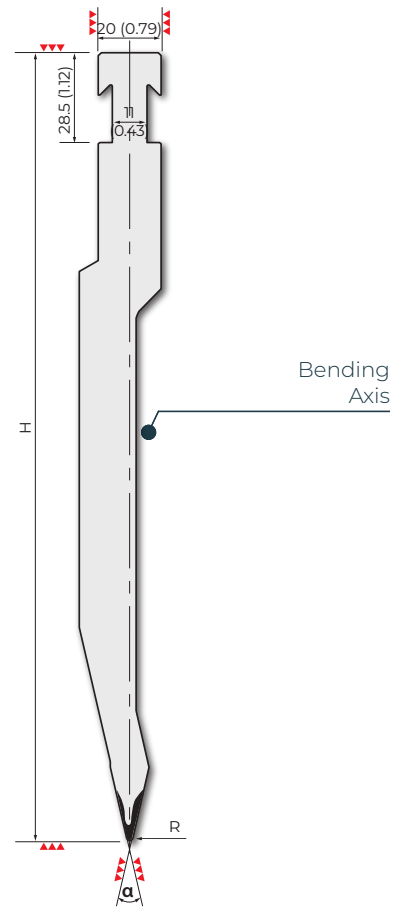
emacpress@hotmail.com
emacpress.com

STANDARD TANG

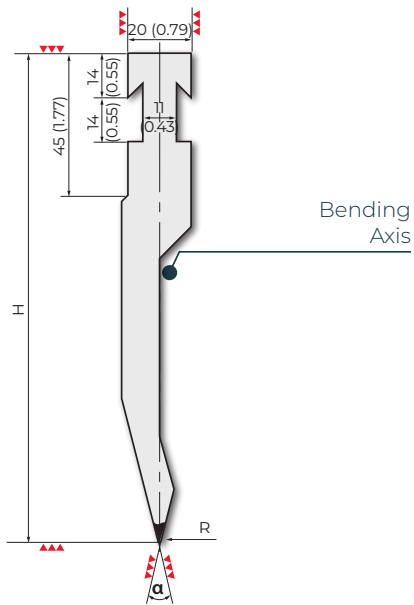
RFA



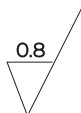
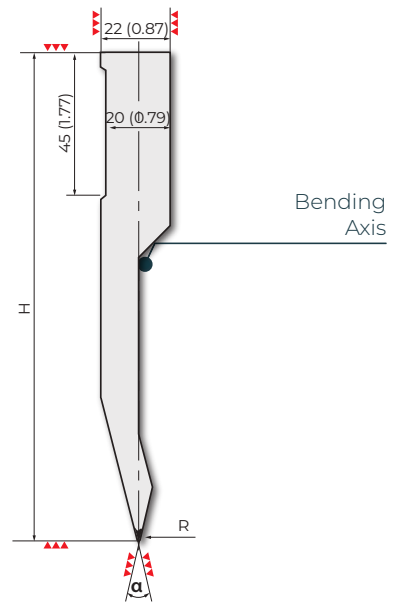
RF



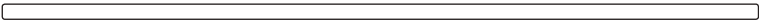
R



S

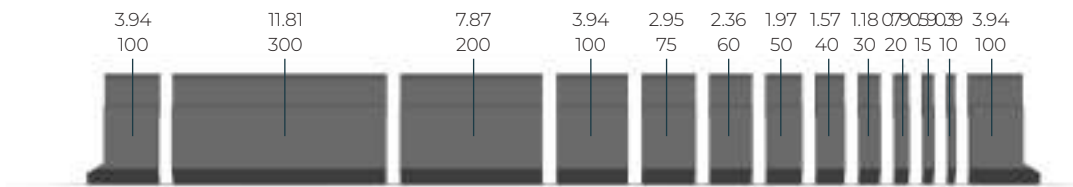


STANDARD LENGTH

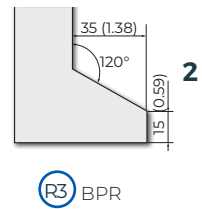
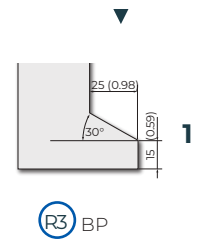
500 mm (19.68 in)	
508 mm (20.00 in)	
525 mm (20.67 in)	
1000 mm (39.36 in)	

SEGMENTATION

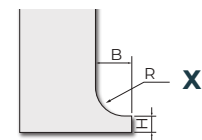
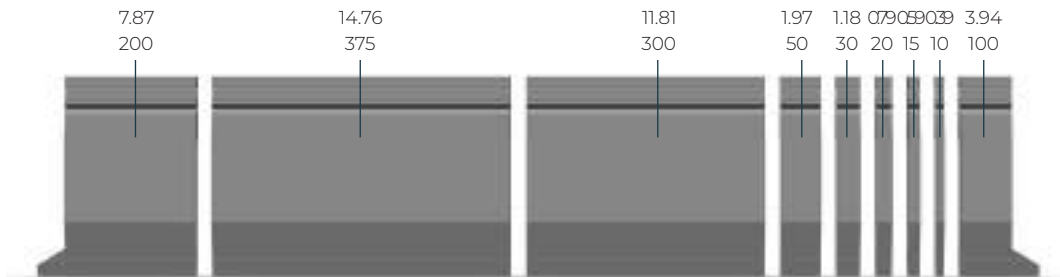
F - Punches BP: 1100 mm (43.30 in)- 13 segments



Horn types

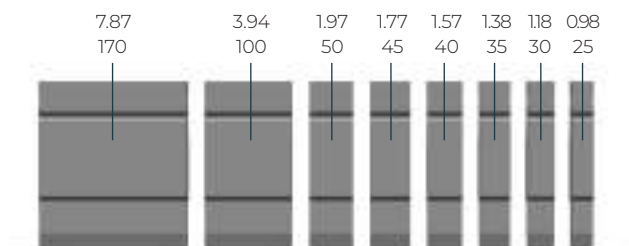


F - Punches BPR: 1100 mm (43.30 in) - 9 segments



Production according to your specifications

F: 495 mm (19.48 in) - 8 segments

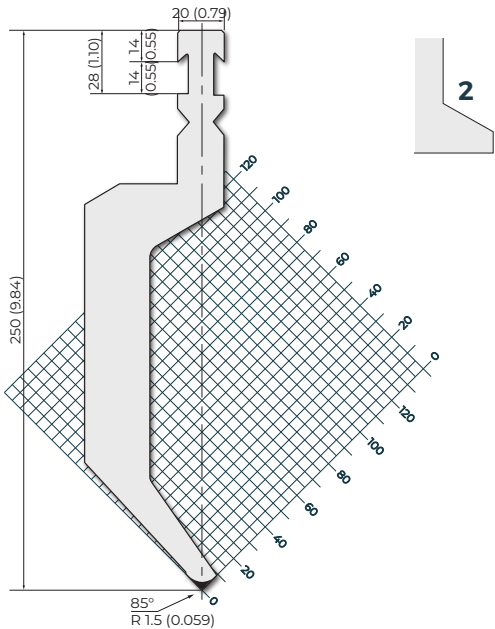


42Cr: 900-1150 N/mm²

900 kN/m max.

BPR250.P4-RFA

508 mm	20.00 in	27.4 kg
1100 mm	43.31 in	59.0 kg F



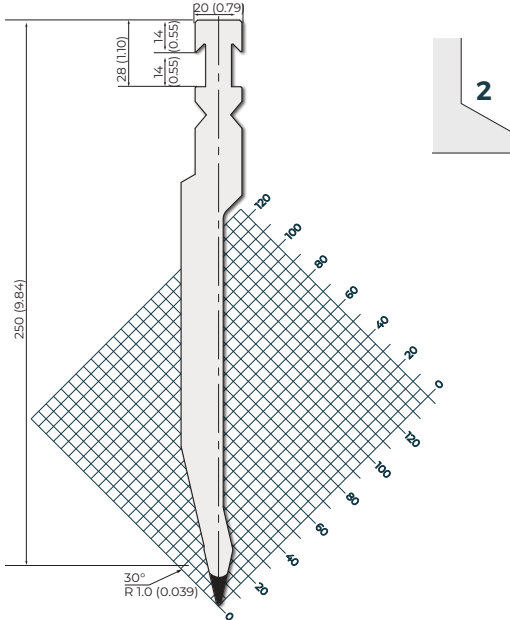
85°

42Cr: 900-1150 N/mm²

750 kN/m max.

BPR250.P5.30-RFA

508 mm	20.00 in	13.2 kg
1100 mm	43.31 in	28.6 kg F



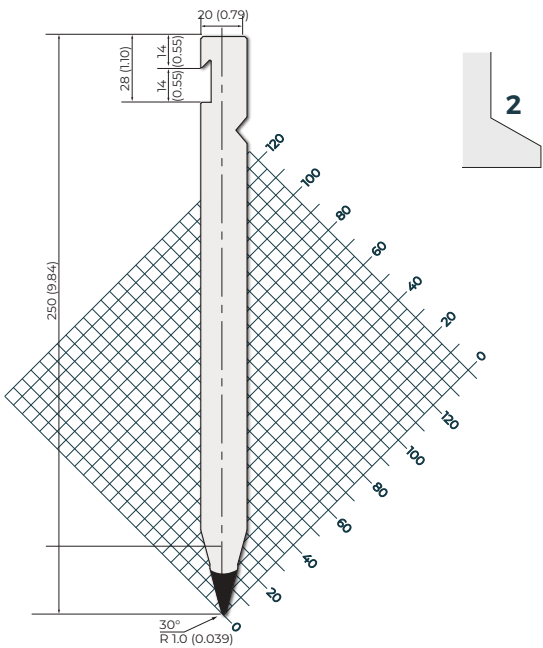
30°

42Cr: 900-1150 N/mm²

1400 kN/m max.

BPR.250.P6-RFA

508 mm	20.00 in	17.8 kg
1100 mm	43.31 in	38.5 kg F



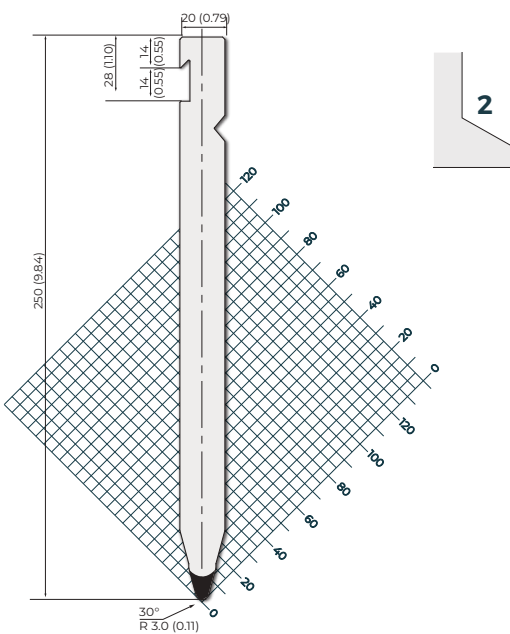
30°

42Cr: 900-1150 N/mm²

1400 kN/m max.

BPR.250.P7-RFA

508 mm	20.00 in	18.5 kg
1100 mm	43.31 in	40.1 kg F



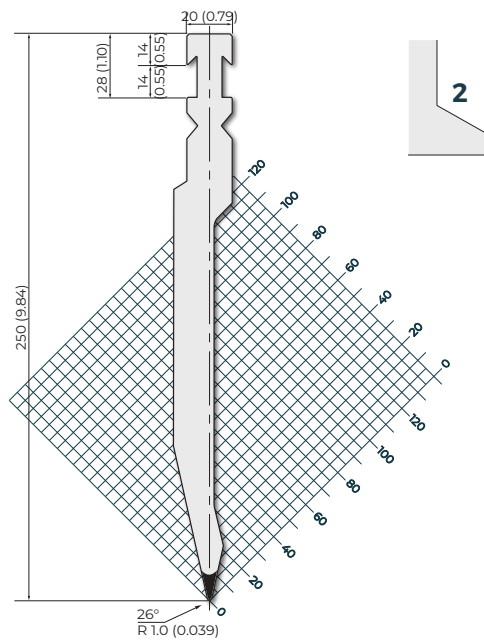
30°

42Cr: 900-1150 N/mm²

1000 kN/m max.

BPR250.P5-RFA

508 mm	20.00 in	26.0 kg	
1100 mm	43.31 in	57.0 kg	F



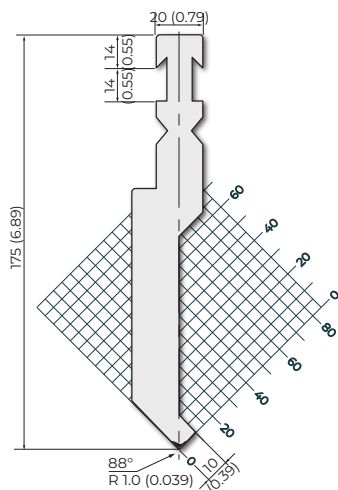
26°



42Cr: 900-1150 N/mm² 1000 kN/m max.

BP175.88.R1-A-RFA

1000 mm	39.37 in	23.0 kg
500 mm	19.68 in	11.5 kg
1100 mm	43.31 in	25.3 kg F



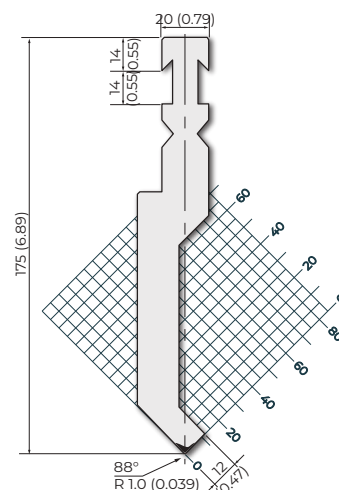
88°

42Cr: 900-1150 N/mm²

1000 kN/m max.

BP175.88.R1-B-RFA

1000 mm	39.37 in	23.0 kg
500 mm	19.68 in	11.5 kg
1100 mm	43.31 in	25.3 kg F

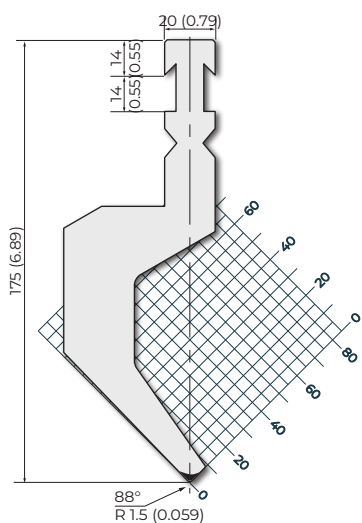


88°

42Cr: 900-1150 N/mm² 500 kN/m max.

BP175.88.R15-RFA

1000 mm	39.37 in	23.0 kg
500 mm	19.68 in	11.5 kg
1100 mm	43.31 in	23.0 kg F



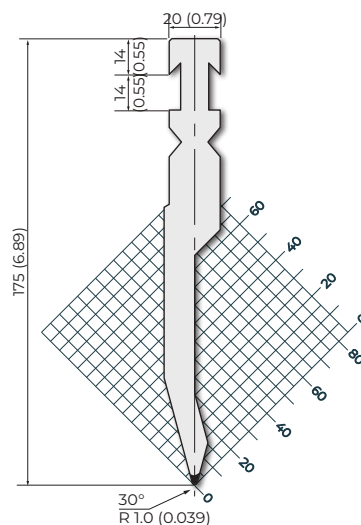
85°

42Cr: 900-1150 N/mm²

900 kN/m max.

BP175.30.R1-RFA

1000 mm	39.37 in	16.0 kg
500 mm	19.68 in	8.0 kg
1100 mm	43.31 in	16.0 kg F



30°

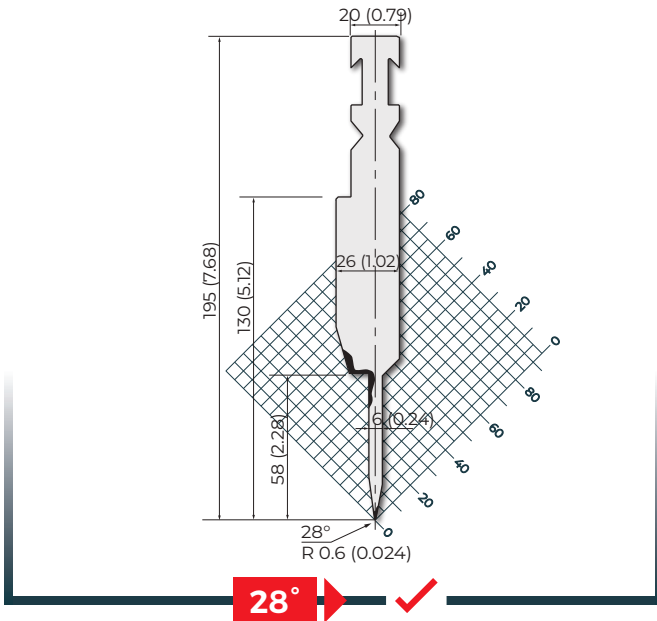
42Cr: 900-1150 N/mm²

800 kN/m max. - 1000 kN/m max.

BPR.SP-195.28.6

525 mm	20.67 in	8.7 kg
495 mm	19.49 in	8.2 kg

To use with:
► BPR.SM.195.28.6 (page 142)



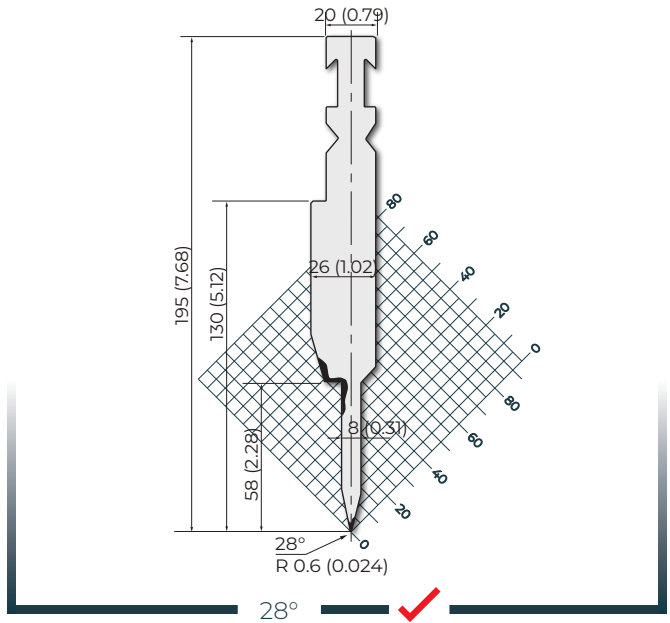
42Cr: 900-1150 N/mm²

800 kN/m max. - 1000 kN/m max.

BPR.SP-195.28.8

525 mm	20.67 in	8.7 kg
495 mm	19.49 in	8.2 kg

To use with:
► BPR.SM.195.28.8 (page 142)



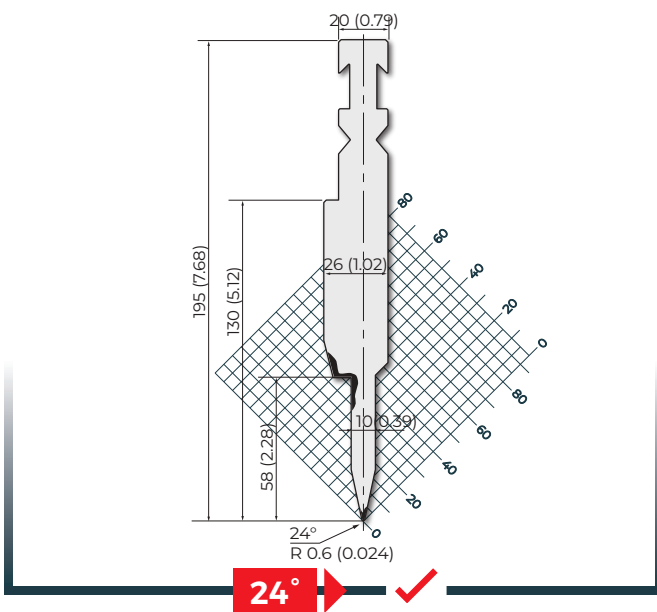
42Cr: 900-1150 N/mm²

800 kN/m max. - 1000 kN/m max.

BPR.SP-195.24.10

525 mm	20.67 in	8.7 kg
495 mm	19.49 in	8.2 kg

To use with:
► BPR.SM.195.24.10 (page 142)



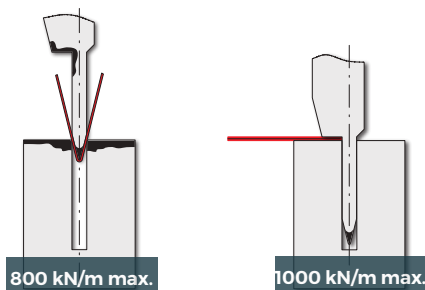
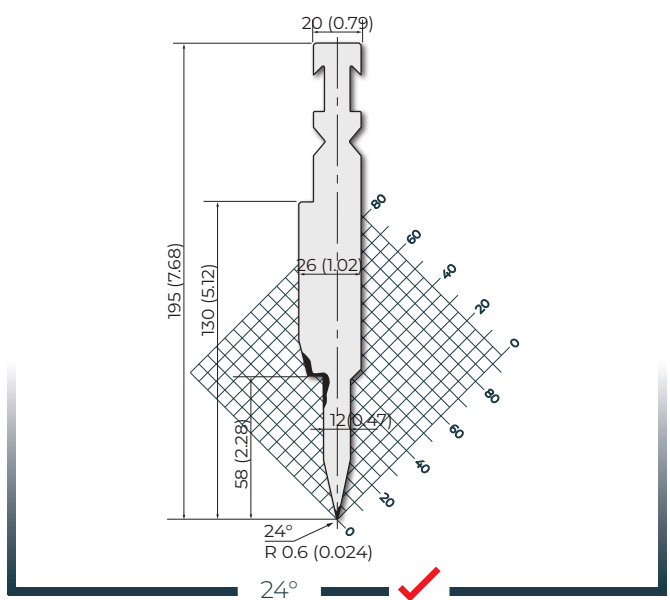
42Cr: 900-1150 N/mm²

800 kN/m max. - 1000 kN/m max.

BPR.SP-195.24.12

525 mm	20.67 in	8.7 kg
495 mm	19.49 in	8.2 kg

To use with:
► BPR.SM.195.24.12 (page 142)



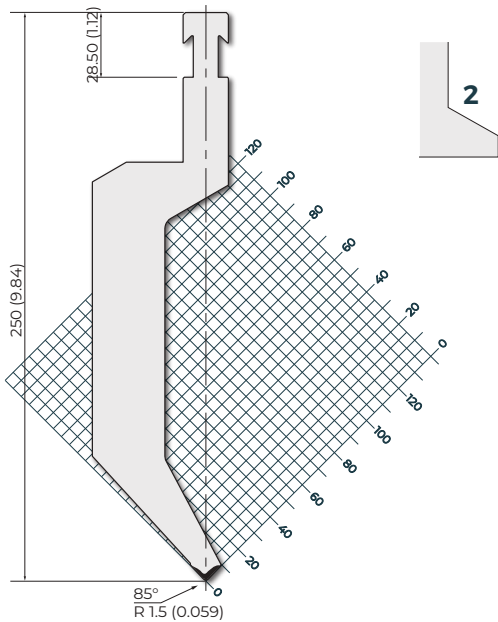
S [mm]	S (in)	A [mm]	A (in)	R.420 N/mm ² kN/m	R.700 N/mm ² kN/m	S [mm]	S (in)	A [mm]	A (in)	R.420 N/mm ² kN/m	R.700 N/mm ² kN/m
0.6	0.02	3.0	0.12	90	150	0.6	0.02	1.2	0.05	230	350
0.8	0.03	3.0	0.12	120	200	0.8	0.03	1.6	0.06	320	500
1.0	0.04	3.5	0.14	150	250	1.0	0.04	1.0	0.04	400	600
1.25	0.05	3.5	0.14	170	260	1.25	0.05	2.5	0.10	500	800

42Cr: 900-1150 N/mm²

1000 kN/m max.

BPR250.P4-RF

508 mm	20.00 in	27.6 kg
1100 mm	43.31 in	51.0 kg F



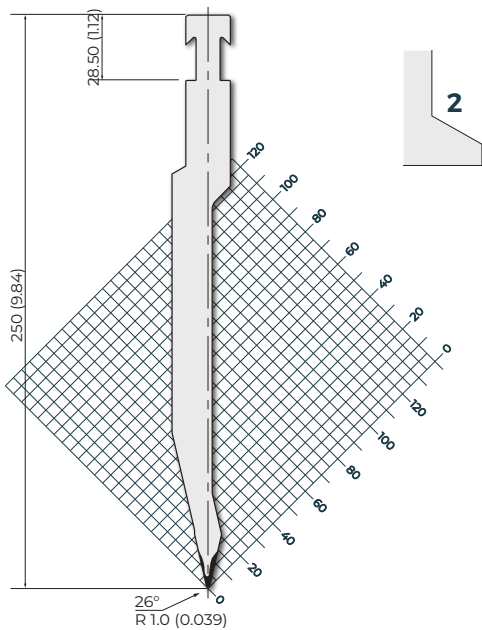
85°

42Cr: 900-1150 N/mm²

900 kN/m max.

BPR250.P5-RF

508 mm	20.00 in	16.6 kg
1100 mm	43.31 in	35.0 kg F



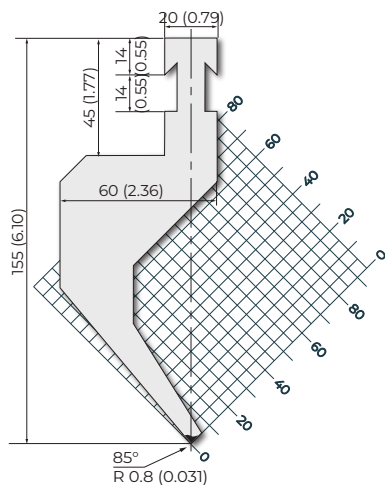
26°

42Cr: 900-1150 N/mm²

500 kN/m max.

BP155.85.R08-R

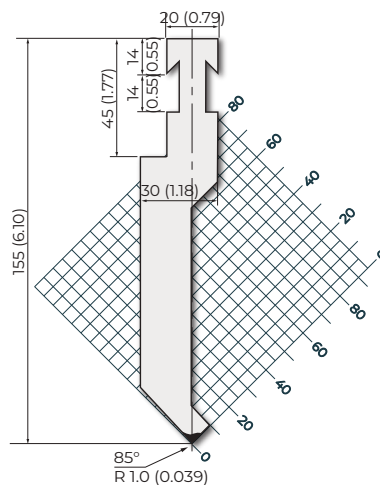
1000 mm	39.37 in	22.0 kg
500 mm	19.68 in	12.5 kg
1100 mm	43.31 in	21.5 kg F

**85°**42Cr: 900-1150 N/mm²

1000 kN/m max.

BP155.85.R1-R

1000 mm	39.37 in	23.0 kg
500 mm	19.68 in	11.5 kg
1100 mm	43.31 in	23.0 kg F



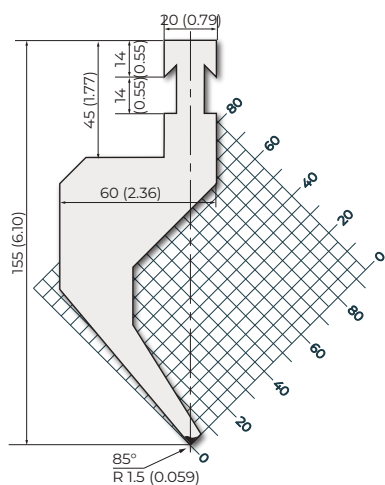
85°

42Cr: 900-1150 N/mm²

500 kN/m max.

BP155.85.R15-R

1000 mm	39.37 in	32.0 kg
500 mm	19.68 in	16.0 kg
1100 mm	43.31 in	32.0 kg F



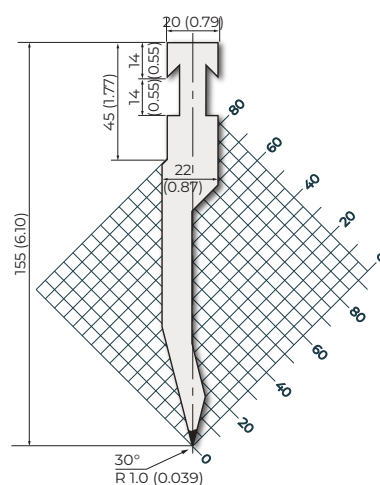
85°

42Cr: 900-1150 N/mm²

800 kN/m max.

BP155.30.R1-R

1000 mm	39.37 in	16.0 kg
500 mm	19.68 in	8.0 kg
1100 mm	43.31 in	18.0 kg F

**30°**

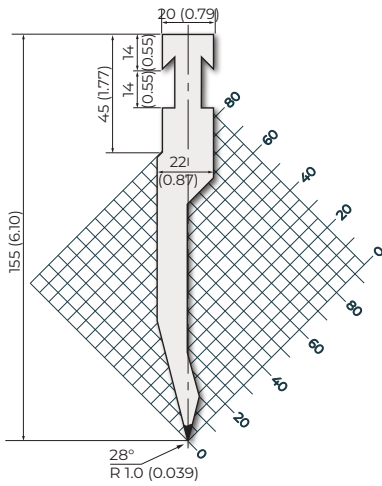
42Cr: 900-1150 N/mm²

800 kN/m max.

BP155.28.R1-R

1000 mm	39.37 in	16.0 kg
500 mm	19.68 in	8.0 kg
1100 mm	43.31 in	17.5 kg

F



28°

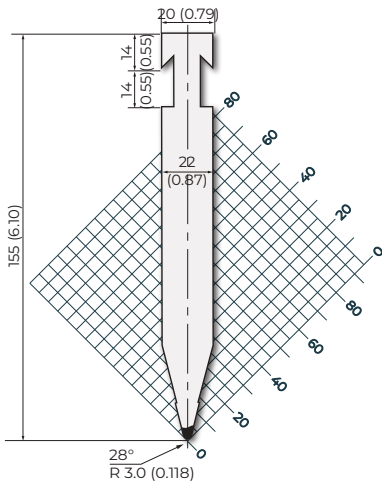
42Cr: 900-1150 N/mm²

1000 kN/m max.

BP155.28.R3-R

1000 mm	39.37 in	21.0 kg
500 mm	19.68 in	11.0 kg
1100 mm	43.31 in	23.5 kg

F



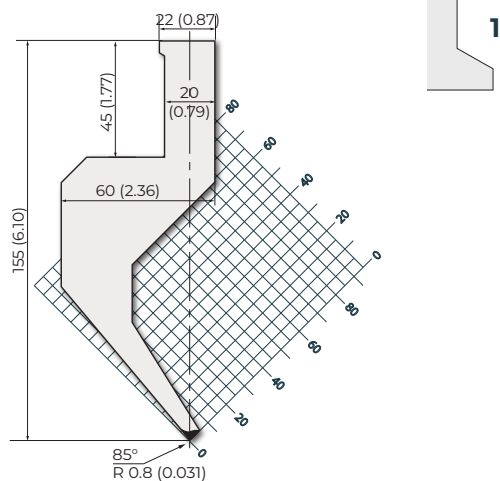
28°

42Cr: 900-1150 N/mm²

500 kN/m max.

BP155.85.R08-S

1000 mm	39.37 in	16.0 kg
500 mm	19.68 in	8.0 kg
1100 mm	43.31 in	17.5 kg F

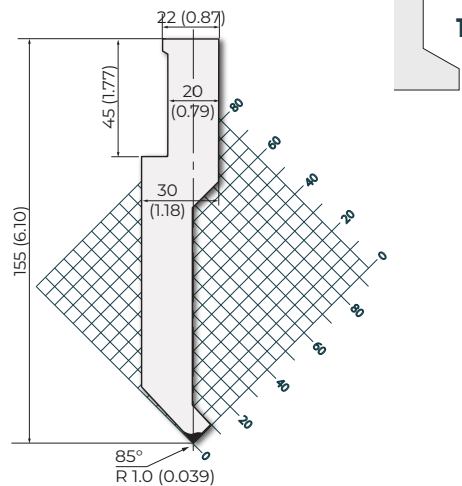


42Cr: 900-1150 N/mm²

1000 kN/m max.

BP155.85.R1-S

1000 mm	39.37 in	32.0 kg
500 mm	19.68 in	16.0 kg
1100 mm	43.31 in	35.2 kg F

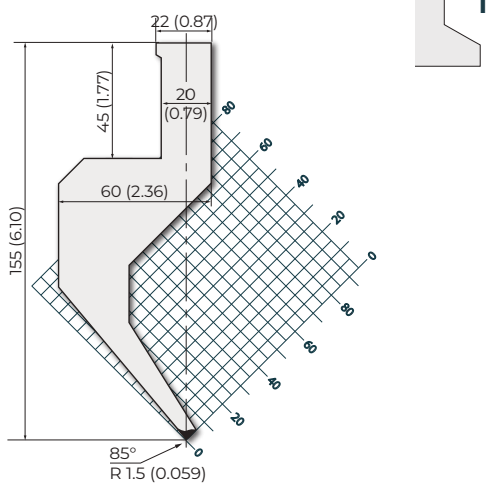


42Cr: 900-1150 N/mm²

500 kN/m max.

BP155.85.R15-S

1000 mm	39.37 in	32.0 kg
500 mm	19.68 in	16.5 kg
1100 mm	43.31 in	32.0 kg F

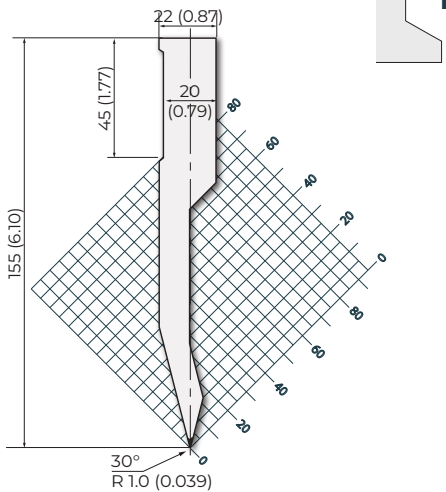


42Cr: 900-1150 N/mm²

800 kN/m max.

BP155.30.R1-S

1000 mm	39.37 in	17.5 kg
500 mm	19.68 in	9.0 kg
1100 mm	43.31 in	17.5 kg F



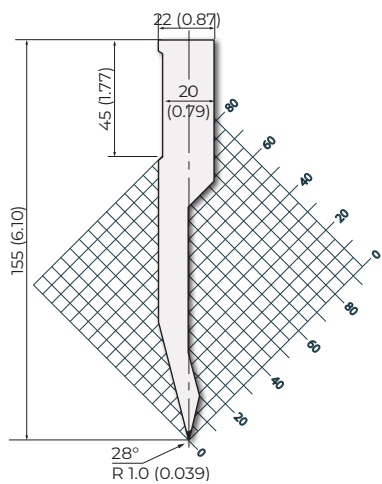
42Cr: 900-1150 N/mm²

500 kN/m max.

BP155.28.R1-S

1000 mm	39.37 in	16.0 kg
500 mm	19.68 in	8.0 kg
1100 mm	43.31 in	17.5 kg

F



28°



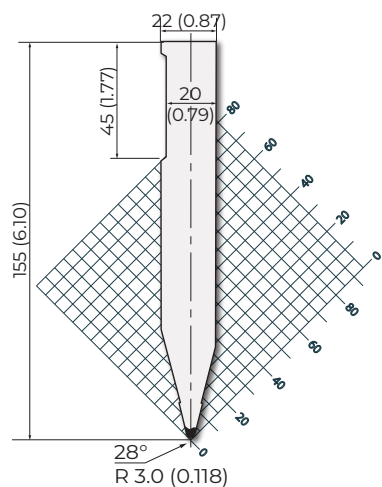
C45: 560-710 N/mm²

1000 kN/m max.

BP155.28.R3-S

1000 mm	39.37 in	23.5 kg
500 mm	19.68 in	12.0 kg
1100 mm	43.31 in	23.5 kg

F



28°

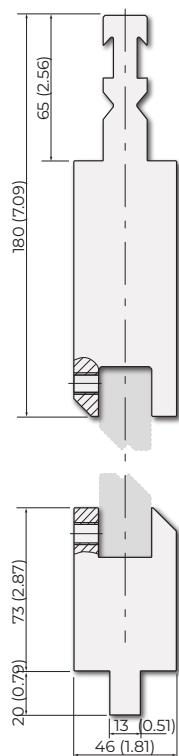


C45: 560-710 N/mm²

1000 kN/m max.

BPZ-RFA

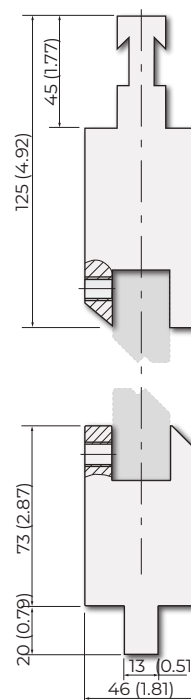
835 mm	32.87 in	37.5 kg
415 mm	16.34 in	18.7 kg

C45: 560-710 N/mm²

1000 kN/m max.

BPZ-R

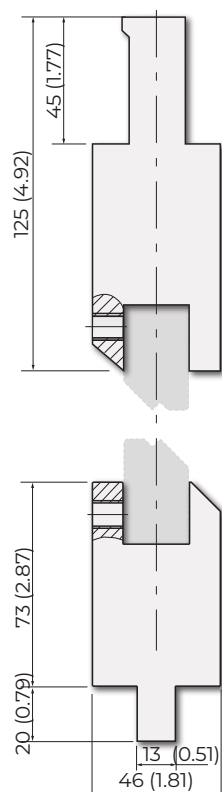
835 mm	32.87 in	24.7 kg
415 mm	16.34 in	12.3 kg

C45: 560-710 N/mm²

1000 kN/m max.

BPZ-S

835 mm	32.87 in	37.5 kg
415 mm	16.34 in	18.5 kg

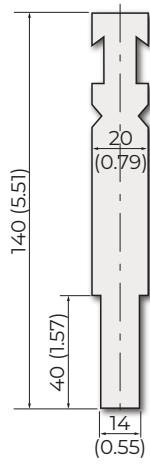


C45: 560-710 N/mm²

800 kN/m max.

BPU-RFA

830 mm	32.68 in	15.3 kg
410 mm	16.14 in	7.6 kg

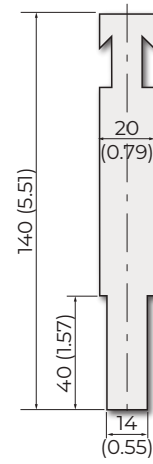


C45: 560-710 N/mm²

800 kN/m max.

BPU-R

830 mm	32.68 in	15.8 kg
410 mm	16.14 in	7.8 kg

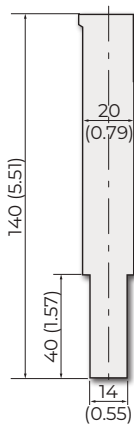


C45: 560-710 N/mm²

800 kN/m max.

BPU-S

830 mm	32.68 in	16.8 kg
410 mm	16.14 in	8.3 kg

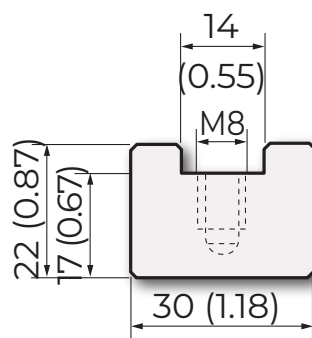


C45: 560-710 N/mm²

800 kN/m max.

E30.22

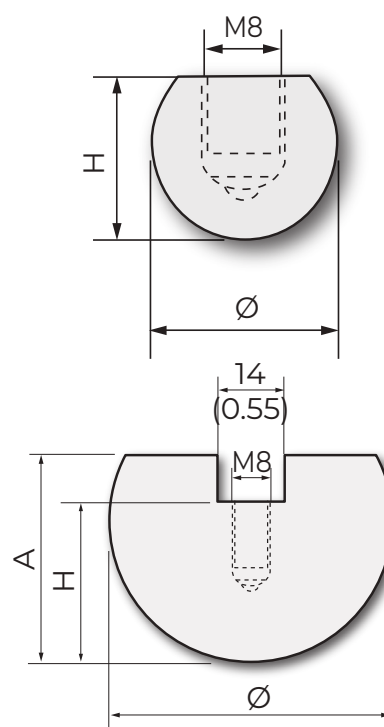
830 mm	32.87 in	3.5 kg	► Hemming tool
412 mm	16.34 in	1.7 kg	

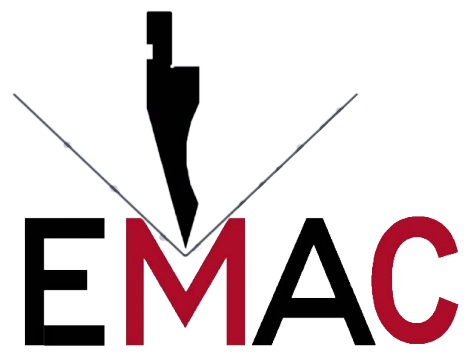
C45: 560-710 N/mm²

800 kN/m max.

Radius tools ø 16 - 100

	ø [mm]	ø [in]	H [mm]	A [mm]	A [in]			
C13.08	16	0.63	13	-	-	835 mm / 32.87 in	2.0 kg	1.0 kg
C13.09	18	0.71	16	-	-		2.0 kg	1.0 kg
C16.10	20	0.79	16	-	-		2.0 kg	1.0 kg
C17.12	25	0.98	17	22	0.87		2.5 kg	1.2 kg
C20.15	30	1.18	20	27	1.06		3.7 kg	1.8 kg
C22.17	35	1.39	22	32	1.26		5.0 kg	2.4 kg
C24.20	40	1.57	24	34	1.34		7.0 kg	3.5 kg
C25.22	45	1.77	25	35	1.37		7.5 kg	3.8 kg
C29.25	50	1.97	29	39	1.54		10.0 kg	4.7 kg
C34.27	55	2.17	34	44	1.73		12.4 kg	6.2 kg
C34.30	60	2.36	34	44	1.73	415 mm / 16.34 in	13.5 kg	6.7 kg
C37.32	65	2.56	37	47	1.85		15.9 kg	7.9 kg
C45.35	70	2.76	45	55	2.17		20.3 kg	10.0 kg
C42.37	75	2.96	42	52	2.04		20.5 kg	10.3 kg
C45.40	80	3.15	45	55	2.17		23.0 kg	11.5 kg
C60.45	90	3.54	60	70	2.76		34.0 kg	17.0 kg
C70.50	100	3.94	70	80	3.15		43.5 kg	21.7 kg

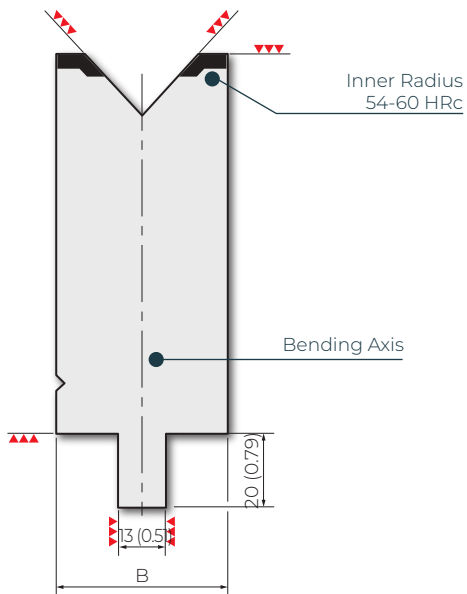




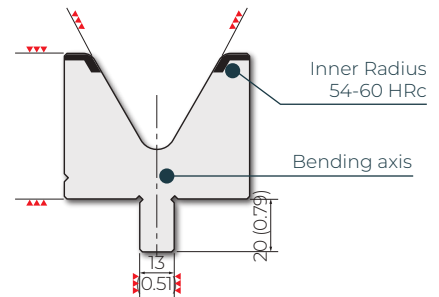
WILA TYPE DIES



STANDARD TANG

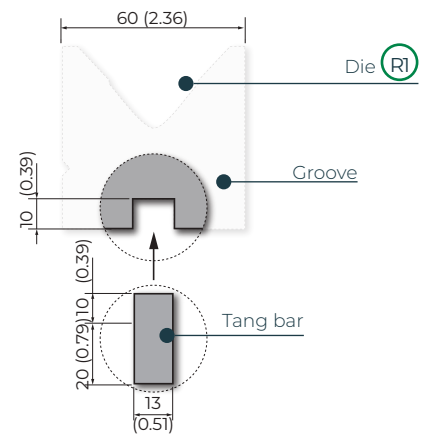


All Rolleri R2
type dies have got
13 x 20 mm tang



0.8

A30 [Example]



STANDARD LENGTH

100 mm (3.93 in)

500 mm (19.69 in)

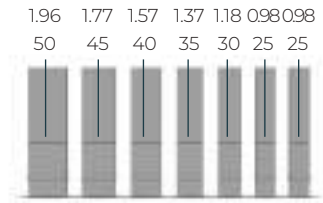
515 mm (20.28 in)

525 mm (20.67 in)

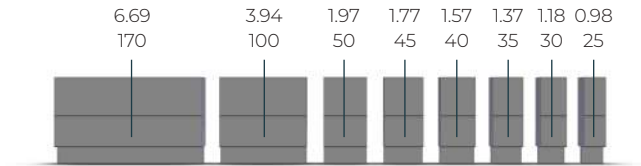
1000 mm (39.37 in)

SEGMENTATION

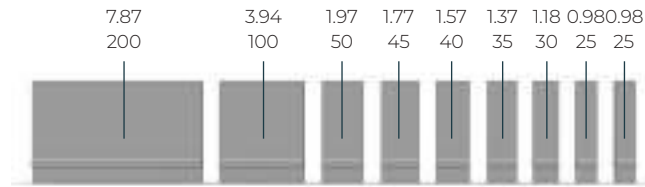
FC: 250 mm (9.84 in) - 7 segments



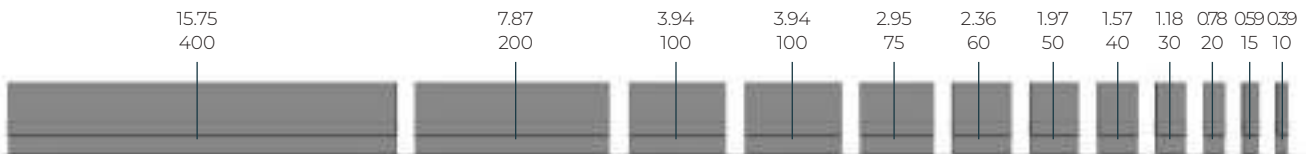
F: 495 mm (19.49 in) - 8 segments



FW: 550 mm (21.65 in) - 9 segments



F: 1100 mm (43.31 in) - 12 segments



FA: 49.21-80.71-100.39-120.08-159.45 in

Length mm [in]	25 [0.98]	30 [1.18]	35 [1.38]	40 [1.57]	45 [1.77]	50 [1.97]	100 [3.94]
1250 [49.21]	2	1	1	1	1	1	10
2050 [80.71]	2	1	1	1	1	1	18
2550 [100.39]	2	1	1	1	1	1	23
3050 [120.08]	2	1	1	1	1	1	28
4050 [159.45]	2	1	1	1	1	1	28

Available on request

FB: 49.21-80.71-100.39-120.08-159.45 in

Length mm [in]	25 [0.98]	30 [1.18]	35 [1.38]	40 [1.57]	45 [1.77]	50 [1.97]	100 [3.94]	200 [7.87]	300 [11.81]	500 [19.68]
1250 [49.21]	2	1	1	1	1	1	3	2	1	0
2050 [80.71]	2	1	1	1	1	1	3	1	1	2
2550 [100.39]	2	1	1	1	1	1	3	1	1	3
3050 [120.08]	2	1	1	1	1	1	3	1	1	4
4050 [159.45]	2	1	1	1	1	1	3	1	1	6

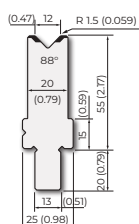
Available on request

42Cr: 900-1150 N/mm²

1200 kN/m max.

BMR55.12.88

1000 mm	39.37 in	10.5 kg
500 mm	19.68 in	5.2 kg
1100 mm	43.31 in	10.0 kg F



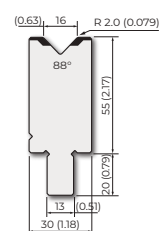
88°

42Cr: 900-1150 N/mm²

1200 kN/m max.

BMR55.16.88

1000 mm	39.37 in	14.5 kg
500 mm	19.68 in	7.2 kg
1100 mm	43.31 in	14.0 kg F



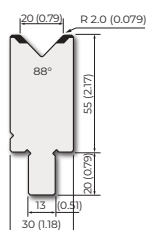
88°

42Cr: 900-1150 N/mm²

1100 kN/m max.

BMR55.20.88

1000 mm	39.37 in	14.5 kg
500 mm	19.68 in	7.2 kg
1100 mm	43.31 in	14.0 kg F



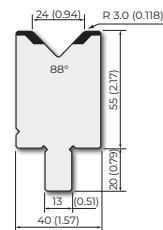
88°

42Cr: 900-1150 N/mm²

1200 kN/m max.

BMR55.24.88

1000 mm	39.37 in	18.5 kg
500 mm	19.68 in	9.2 kg
1100 mm	43.31 in	18.0 kg F



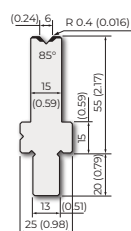
88°

42Cr: 900-1150 N/mm²

1150 kN/m max.

BMR55.06.85

1000 mm	39.37 in	8.5 kg
500 mm	19.68 in	4.2 kg
1100 mm	43.31 in	8.5 kg F



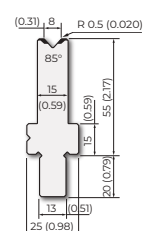
85°

42Cr: 900-1150 N/mm²

1100 kN/m max.

BMR55.08.85

1000 mm	39.37 in	9.0 kg
500 mm	19.68 in	4.5 kg
1100 mm	43.31 in	8.5 kg F



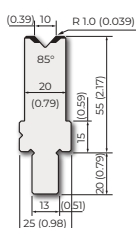
85°

42Cr: 900-1150 N/mm²

1100 kN/m max.

BMR55.10.85

1000 mm	39.37 in	11.0 kg
500 mm	19.68 in	5.0 kg
1100 mm	43.31 in	12.0 kg F



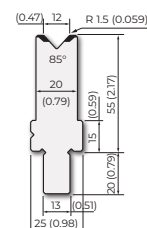
85°

42Cr: 900-1150 N/mm²

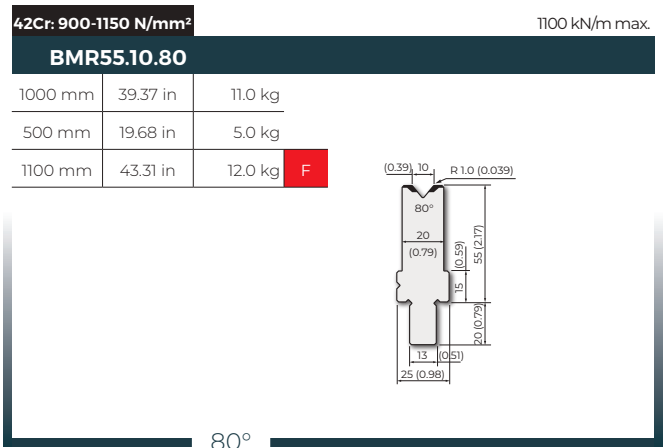
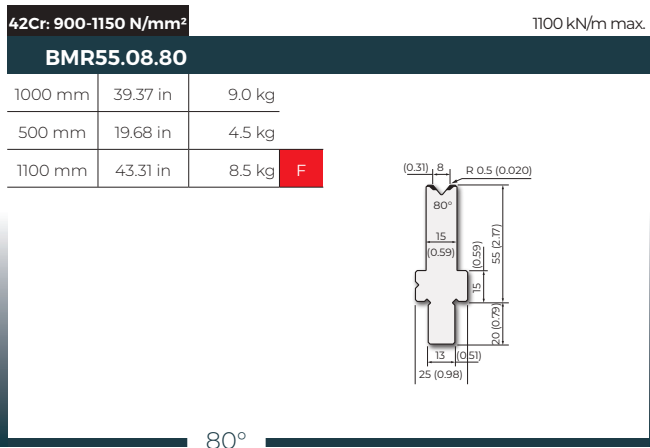
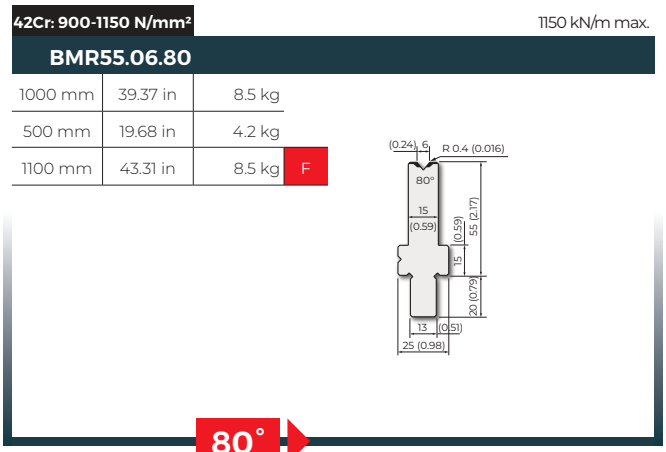
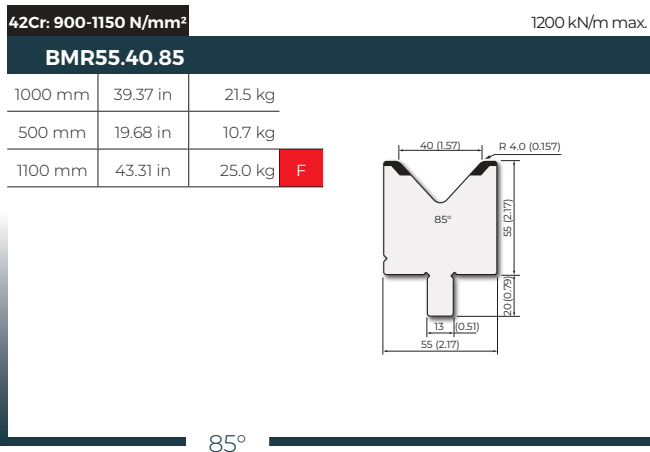
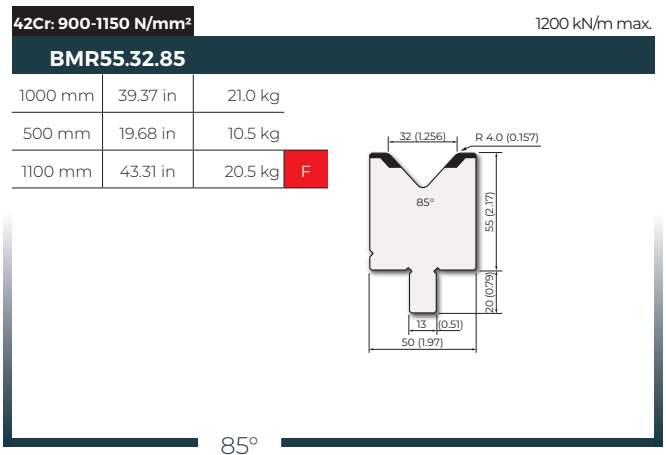
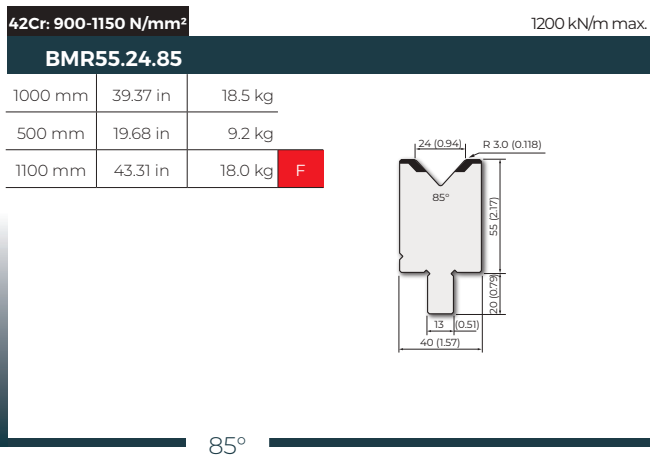
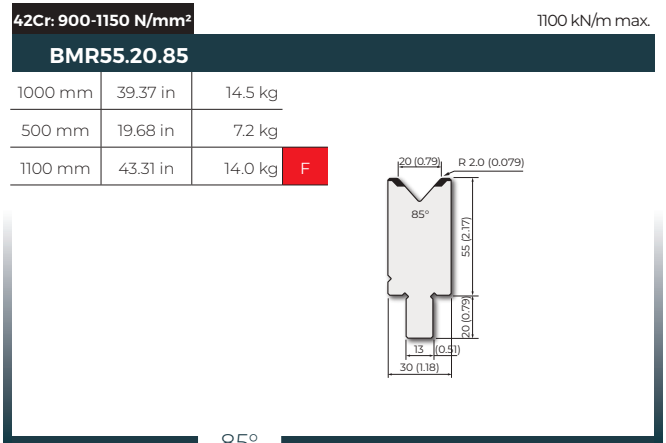
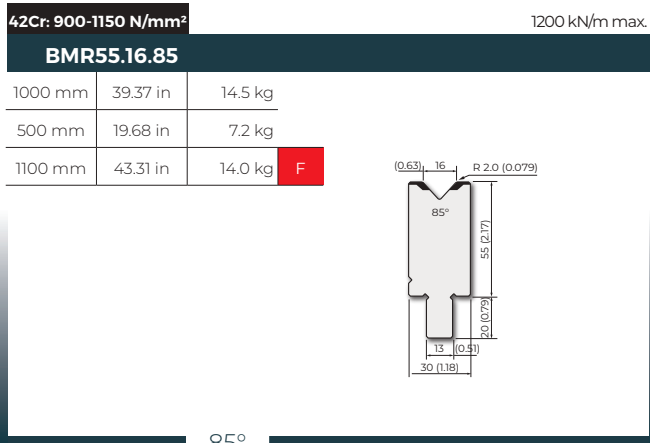
1200 kN/m max.

BMR55.12.85

1000 mm	39.37 in	10.5 kg
500 mm	19.68 in	5.2 kg
1100 mm	43.31 in	10.0 kg F



85°

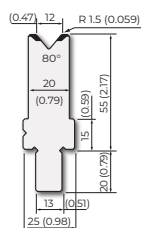


42Cr: 900-1150 N/mm²

1200 kN/m max.

BMR55.12.80

1000 mm	39.37 in	10.5 kg
500 mm	19.68 in	5.2 kg
1100 mm	43.31 in	10.0 kg F



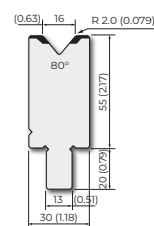
80°

42Cr: 900-1150 N/mm²

1200 kN/m max.

BMR55.16.80

1000 mm	39.37 in	14.5 kg
500 mm	19.68 in	7.2 kg
1100 mm	43.31 in	14.0 kg F



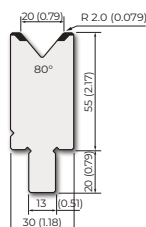
80°

42Cr: 900-1150 N/mm²

1100 kN/m max.

BMR55.20.80

1000 mm	39.37 in	14.5 kg
500 mm	19.68 in	7.2 kg
1100 mm	43.31 in	14.0 kg F



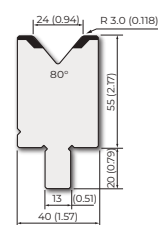
80°

42Cr: 900-1150 N/mm²

1200 kN/m max.

BMR55.24.80

1000 mm	39.37 in	18.5 kg
500 mm	19.68 in	9.2 kg
1100 mm	43.31 in	18.0 kg F



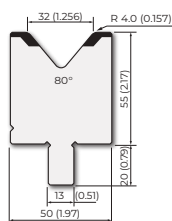
80°

42Cr: 900-1150 N/mm²

1200 kN/m max.

BMR55.32.80

1000 mm	39.37 in	21.0 kg
500 mm	19.68 in	10.5 kg
1100 mm	43.31 in	20.5 kg F



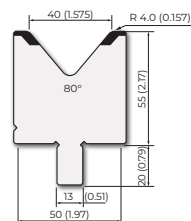
80°

42Cr: 900-1150 N/mm²

1200 kN/m max.

BMR55.40.80

1000 mm	39.37 in	21.5 kg
500 mm	19.68 in	10.7 kg
1100 mm	43.31 in	25.0 kg F



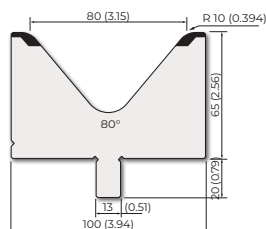
80°

42Cr: 900-1150 N/mm²

1700 kN/m max.

BMR65.80.80

1000 mm	39.37 in	39.0 kg
500 mm	19.68 in	20.0 kg
1100 mm	43.31 in	43.0 kg F



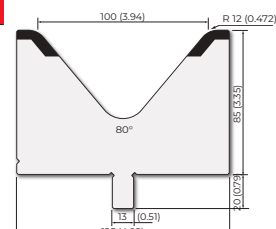
80°

42Cr: 900-1150 N/mm²

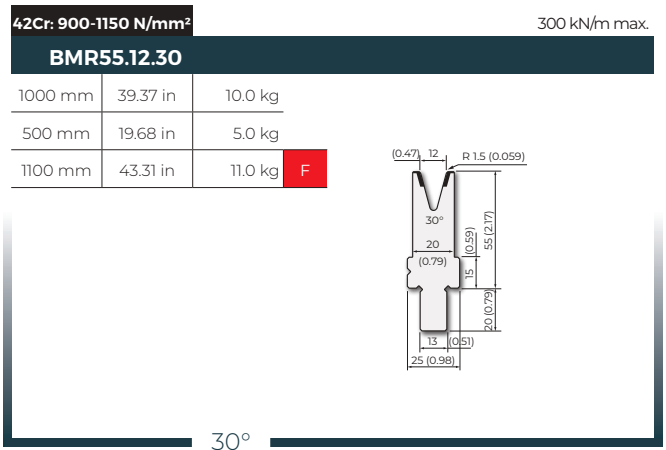
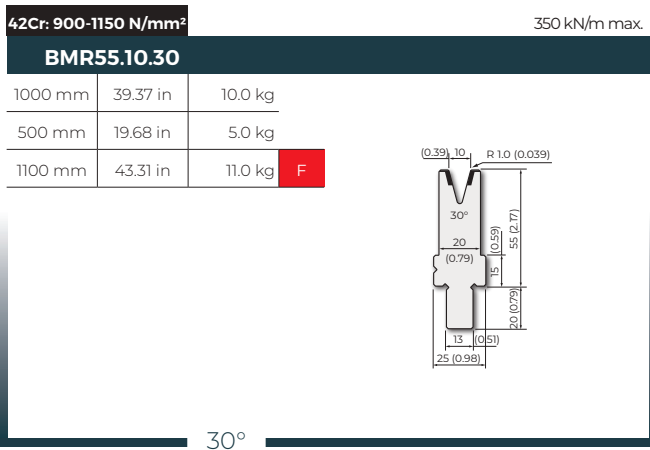
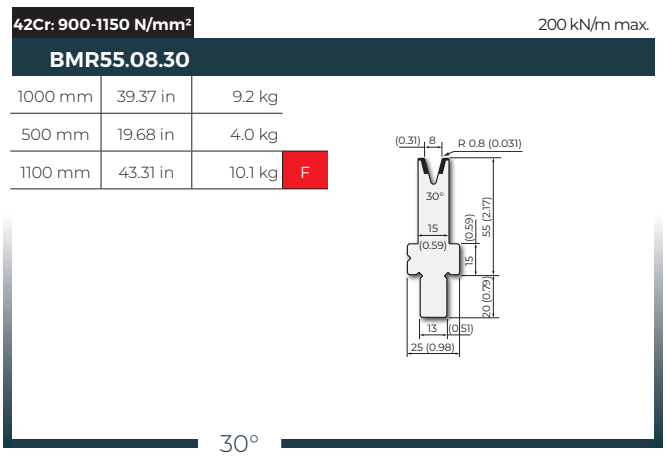
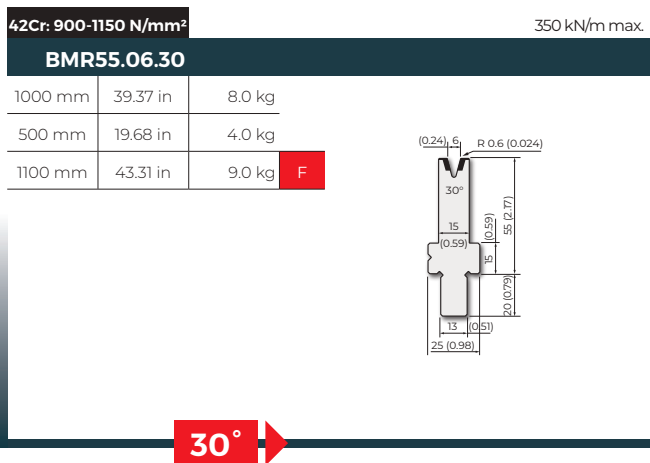
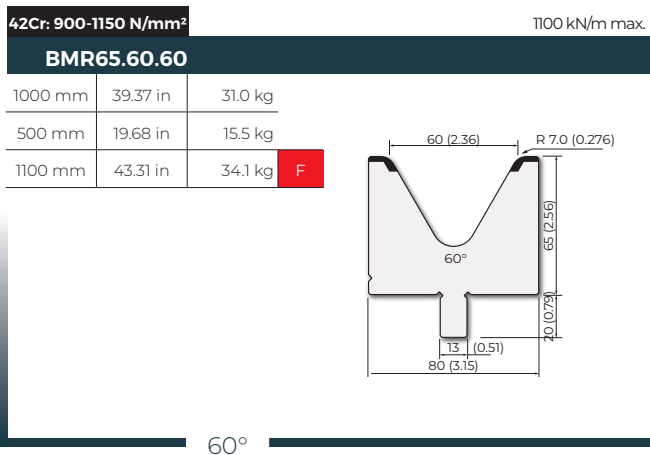
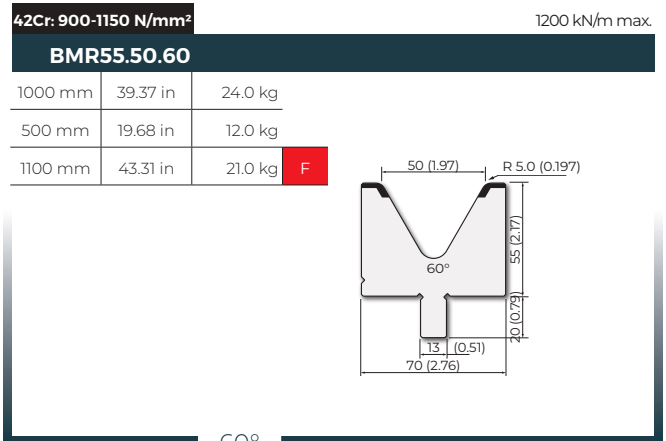
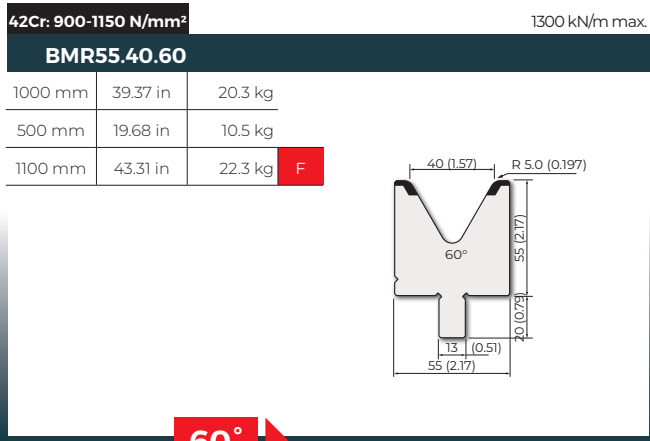
2300 kN/m max.

BMR85.100.80

1000 mm	39.37 in	62.0 kg
500 mm	19.68 in	31.0 kg
1100 mm	43.31 in	69.0 kg F



80°

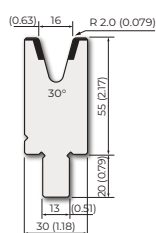


42Cr: 900-1150 N/mm²

450 kN/m max.

BMR55.16.30

1000 mm	39.37 in	13.5 kg
500 mm	19.68 in	6.7 kg
1100 mm	43.31 in	14.9 kg

F

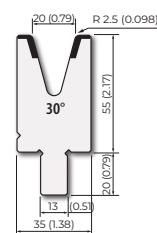
30°

42Cr: 900-1150 N/mm²

500 kN/m max.

BMR55.20.30

1000 mm	39.37 in	14.0 kg
500 mm	19.68 in	7.0 kg
1100 mm	43.31 in	13.5 kg

F

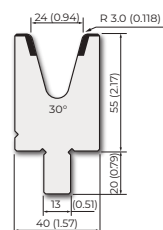
30°

42Cr: 900-1150 N/mm²

550 kN/m max.

BMR55.24.30

1000 mm	39.37 in	15.5 kg
500 mm	19.68 in	7.8 kg
1100 mm	43.31 in	17.0 kg

F

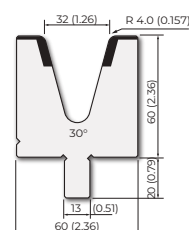
30°

42Cr: 900-1150 N/mm²

650 kN/m max.

BMR60.32.30

1000 mm	39.37 in	23.0 kg
500 mm	19.68 in	11.5 kg
1100 mm	43.31 in	22.5 kg

F

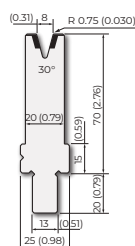
30°

42Cr: 900-1150 N/mm²

200 kN/m max.

BMR70.08.30

1000 mm	39.37 in	13.1 kg
500 mm	19.68 in	6.5 kg
1100 mm	43.31 in	14.0 kg

F

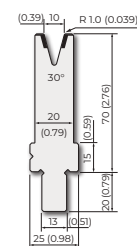
30°

42Cr: 900-1150 N/mm²

350 kN/m max.

BMR70.10.30

1000 mm	39.37 in	12.8 kg
500 mm	19.68 in	6.4 kg
1100 mm	43.31 in	12.4 kg

F

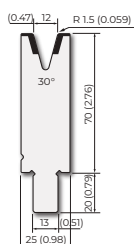
30°

42Cr: 900-1150 N/mm²

300 kN/m max.

BMR70.12.30

1000 mm	39.37 in	14.7 kg
500 mm	19.68 in	7.3 kg
1100 mm	43.31 in	14.3 kg

F

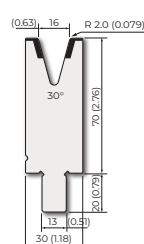
30°

42Cr: 900-1150 N/mm²

450 kN/m max.

BMR70.16.30

1000 mm	39.37 in	16.7 kg
500 mm	19.68 in	8.3 kg
1100 mm	43.31 in	16.2 kg

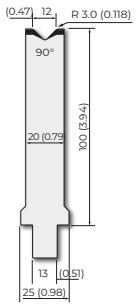
F

30°

42Cr: 900-1150 N/mm² 1200 kN/m max.

WMR100.12.90

100 mm	39.37 in	1.7 kg
515 mm	20.28 in	9.0 kg
550 mm	21.65 in	9.6 kg FW

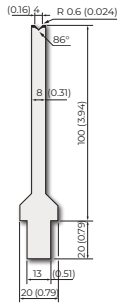


90°

42Cr: 900-1150 N/mm² 250 kN/m max.

TMR100.04.86

100 mm	3.94 in	1.0 kg
500 mm	19.68 in	4.8 kg
250 mm	9.84 in	2.4 kg FC
550 mm	21.65 in	5.2 kg FW

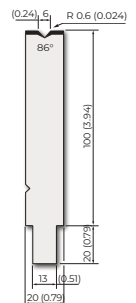


86°

42Cr: 900-1150 N/mm² 1200 kN/m max.

TMR100.06.86

100 mm	3.94 in	1.8 kg
500 mm	19.68 in	8.9 kg
250 mm	9.84 in	4.4 kg FC
550 mm	21.65 in	8.9 kg FW

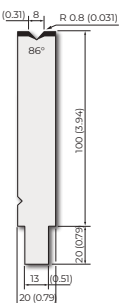


86°

42Cr: 900-1150 N/mm² 1150 kN/m max.

TMR100.08.86

100 mm	3.94 in	1.8 kg
500 mm	19.68 in	8.8 kg
250 mm	9.84 in	4.4 kg FC
550 mm	21.65 in	9.6 kg FW

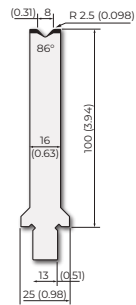


86°

42Cr: 900-1150 N/mm² 400 kN/m max.

WMR100.08.86

100 mm	39.37 in	1.5 kg
515 mm	20.28 in	7.7 kg
550 mm	43.31 in	8.2 kg FW

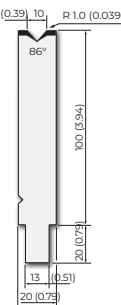


86°

42Cr: 900-1150 N/mm² 1100 kN/m max.

TMR100.10.86

100 mm	3.94 in	1.8 kg
500 mm	19.68 in	8.8 kg
250 mm	9.84 in	4.4 kg FC
550 mm	21.65 in	9.6 kg FW

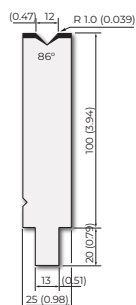


86°

42Cr: 900-1150 N/mm² 1200 kN/m max.

TMR100.12.86

100 mm	3.94 in	2.1 kg
500 mm	19.68 in	10.7 kg
250 mm	9.84 in	5.0 kg FC
550 mm	21.65 in	11.7 kg FW

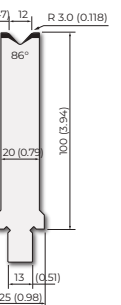


86°

42Cr: 900-1150 N/mm² 1200 kN/m max.

WMR100.12.86

100 mm	39.37 in	1.7 kg
515 mm	20.28 in	9.0 kg
550 mm	43.31 in	9.6 kg FW



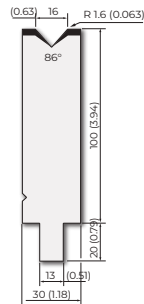
86°

42Cr: 900-1150 N/mm²

1200 kN/m max.

TMR100.16.86

100 mm	3.94 in	2.5 kg
500 mm	19.68 in	12.5 kg
250 mm	9.84 in	6.3 kg FC
550 mm	21.65 in	13.8 kg FW



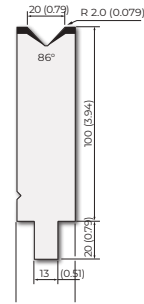
86°

42Cr: 900-1150 N/mm²

1150 kN/m max.

TMR100.20.86

100 mm	3.94 in	2.4 kg
500 mm	19.68 in	12.2 kg
250 mm	9.84 in	6.2 kg FC
550 mm	21.65 in	13.5 kg FW



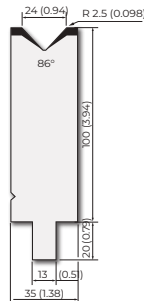
86°

42Cr: 900-1150 N/mm²

1200 kN/m max.

TMR100.24.86

100 mm	3.94 in	2.8 kg
500 mm	19.68 in	14.0 kg
250 mm	9.84 in	7.0 kg FC
550 mm	21.65 in	15.5 kg FW



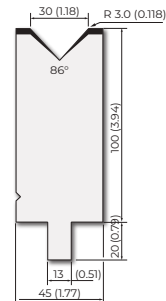
86°

42Cr: 900-1150 N/mm²

1200 kN/m max.

TMR100.30.86

100 mm	3.94 in	3.5 kg
500 mm	19.68 in	17.6 kg
250 mm	9.84 in	8.8 kg FC
550 mm	21.65 in	19.4 kg FW



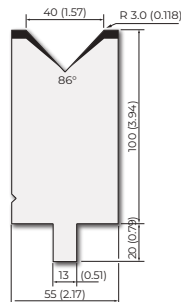
86°

42Cr: 900-1150 N/mm²

1200 kN/m max.

TMR100.40.86

100 mm	3.94 in	13.1 kg
500 mm	19.68 in	6.5 kg
250 mm	9.84 in	14.0 kg FC
550 mm	21.65 in	22.8 kg FW



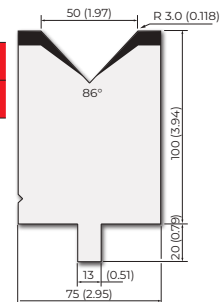
86°

42Cr: 900-1150 N/mm²

1500 kN/m max.

TMR100.50.86

100 mm	3.94 in	4.1 kg
500 mm	19.68 in	6.4 kg
250 mm	9.84 in	12.4 kg FC
550 mm	21.65 in	30.5 kg FW



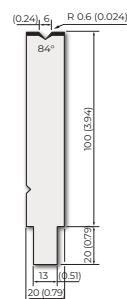
86°

42Cr: 900-1150 N/mm²

1200 kN/m max.

TMR100.06.84

100 mm	3.94 in	1.8 kg
500 mm	19.68 in	8.8 kg
250 mm	9.84 in	4.4 kg FC
550 mm	21.65 in	8.8 kg FW



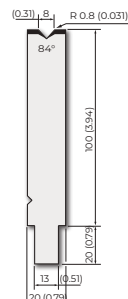
84°

42Cr: 900-1150 N/mm²

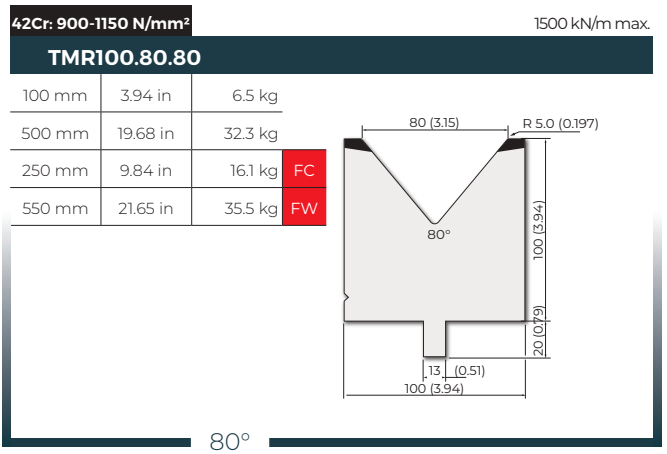
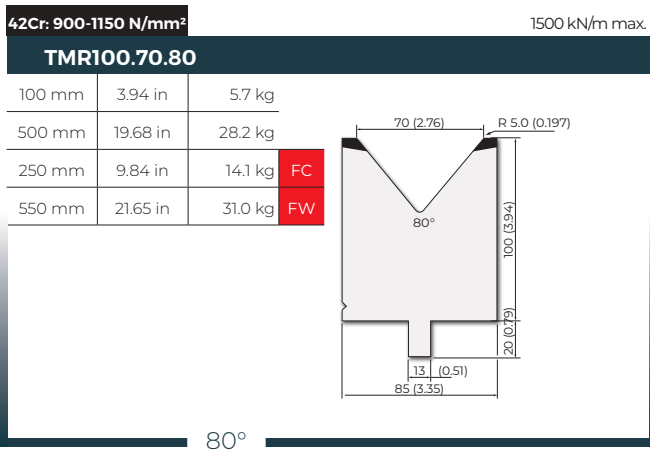
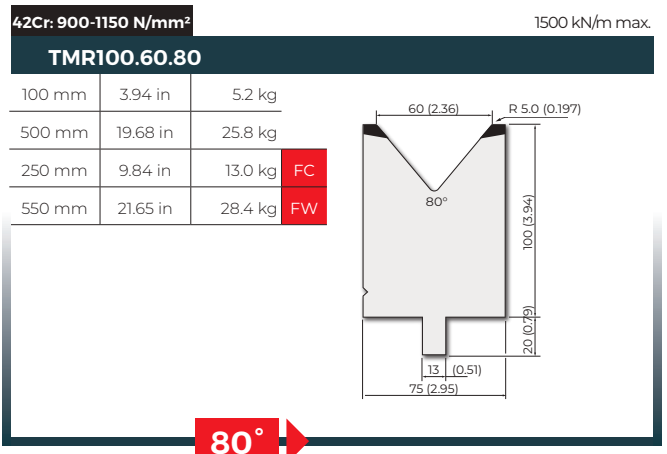
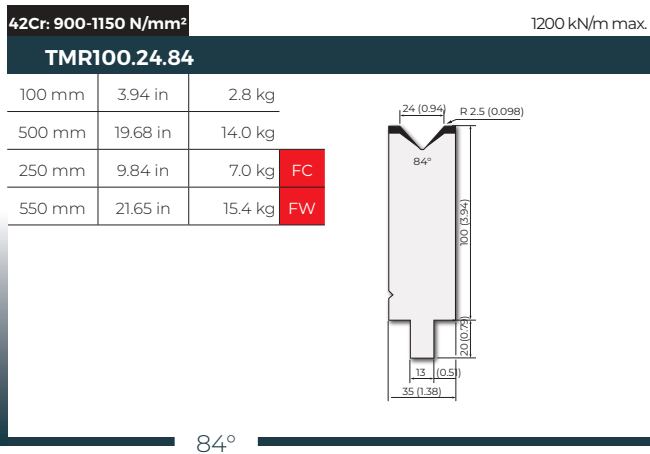
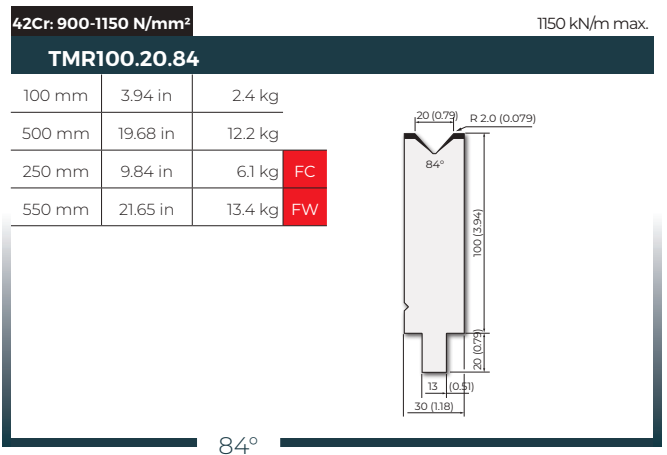
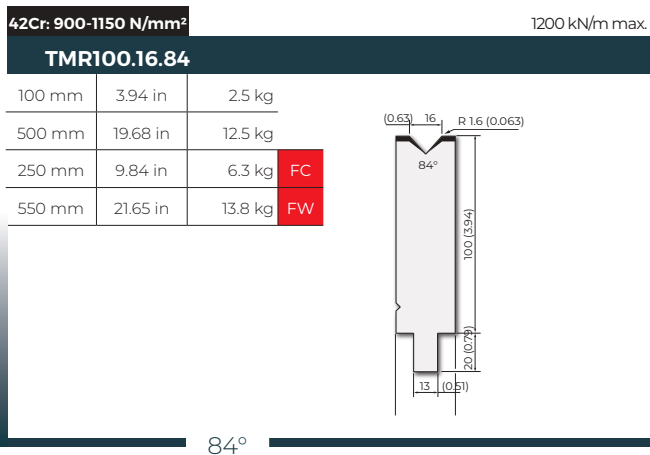
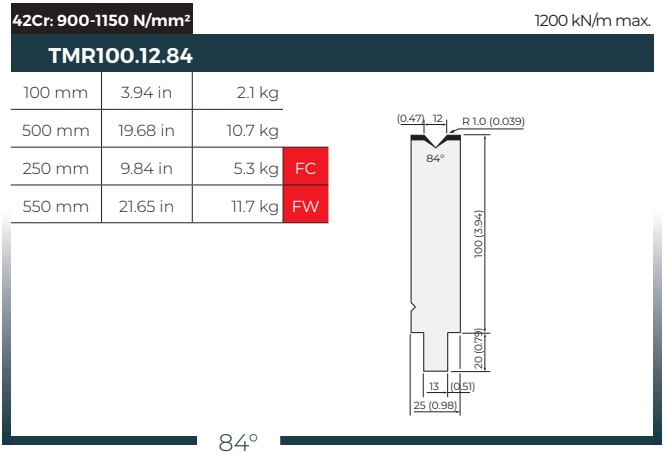
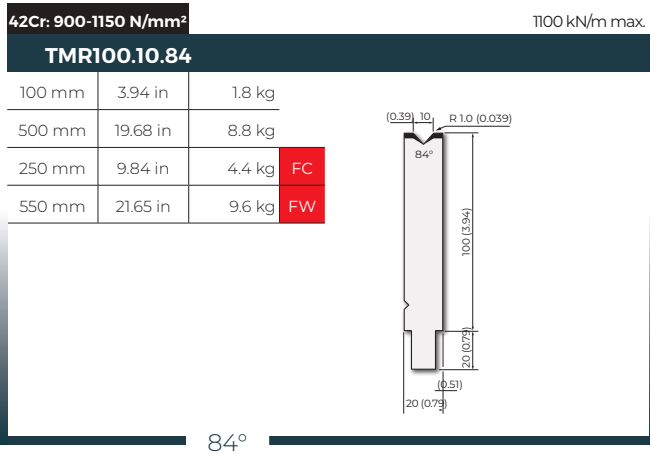
1150 kN/m max.

TMR100.08.84

100 mm	3.94 in	1.8 kg
500 mm	19.68 in	8.8 kg
250 mm	9.84 in	4.4 kg FC
550 mm	21.65 in	9.7 kg FW



84°

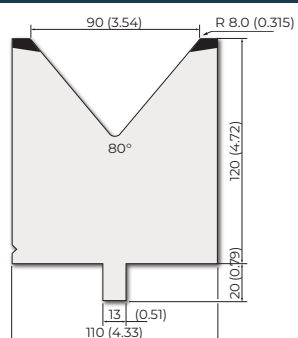


42Cr: 900-1150 N/mm²

1500 kN/m max.

TMR120.90.80

100 mm	3.94 in	8.4 kg
500 mm	19.68 in	42.1 kg
250 mm	9.84 in	21.0 kg FC
550 mm	21.65 in	46.3 kg FW



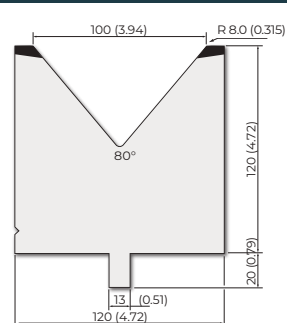
80°

42Cr: 900-1150 N/mm²

1500 kN/m max.

TMR120.100.80

100 mm	3.94 in	9.0 kg
500 mm	19.68 in	44.7 kg
250 mm	9.84 in	22.4 kg FC
550 mm	21.65 in	49.2 kg FW



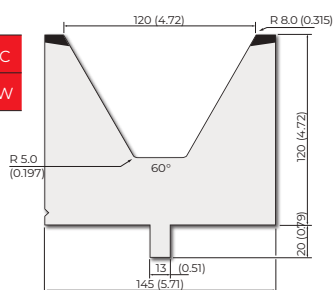
80°

42Cr: 900-1150 N/mm²

1600 kN/m max.

TMR120.120.60

100 mm	3.94 in	8.9 kg
500 mm	19.68 in	44.5 kg
250 mm	9.84 in	22.8 kg FC
550 mm	21.65 in	49.0 kg FW



60°

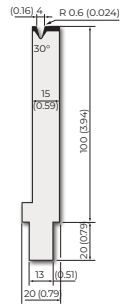


42Cr: 900-1150 N/mm²

150 kN/m max.

TMR100.04.30

100 mm	3.94 in	1.4 kg
500 mm	19.68 in	7.0 kg
250 mm	9.84 in	3.5 kg FC
550 mm	21.65 in	7.7 kg FW



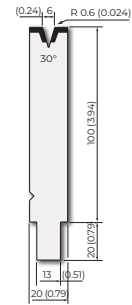
30°

42Cr: 900-1150 N/mm²

400 kN/m max.

TMR100.06.30

100 mm	3.94 in	1.8 kg
500 mm	19.68 in	8.8 kg
250 mm	9.84 in	4.4 kg FC
550 mm	21.65 in	9.6 kg FW



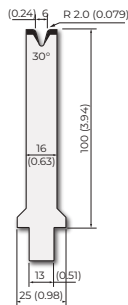
30°

42Cr: 900-1150 N/mm²

400 kN/m max.

WMR100.06.30

100 mm	39.37 in	1.5 kg
515 mm	20.28 in	7.7 kg
550 mm	43.31 in	8.2 kg FW



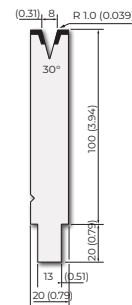
30°

42Cr: 900-1150 N/mm²

400 kN/m max.

TMR100.08.30

100 mm	3.94 in	2.4 kg
500 mm	19.68 in	12.2 kg
250 mm	9.84 in	6.1 kg FC
550 mm	21.65 in	13.4 kg FW



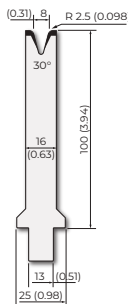
30°

42Cr: 900-1150 N/mm²

400 kN/m max.

WMR100.08.30

100 mm	39.37 in	2.8 kg
515 mm	20.28 in	14.0 kg
550 mm	43.31 in	15.4 kg FW



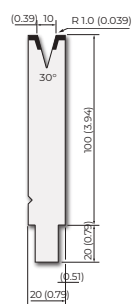
30°

42Cr: 900-1150 N/mm²

400 kN/m max.

TMR100.10.30

100 mm	3.94 in	1.7 kg
500 mm	19.68 in	8.5 kg
250 mm	9.84 in	4.3 kg FC
550 mm	21.65 in	9.4 kg FW



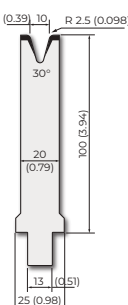
30°

42Cr: 900-1150 N/mm²

400 kN/m max.

WMR100.10.30

100 mm	39.37 in	1.7 kg
515 mm	20.28 in	9.0 kg
550 mm	43.31 in	9.6 kg FW



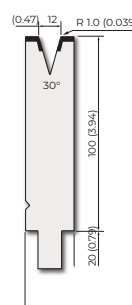
30°

42Cr: 900-1150 N/mm²

400 kN/m max.

TMR100.12.30

100 mm	3.94 in	2.0 kg
500 mm	19.68 in	10.3 kg
250 mm	9.84 in	5.1 kg FC
550 mm	21.65 in	11.3 kg FW



30°



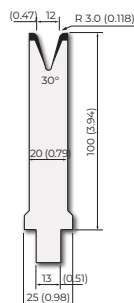
42Cr: 900-1150 N/mm²

400 kN/m max.

WMR100.12.30

100 mm	39.37 in	1.7 kg
515 mm	20.28 in	8.9 kg
550 mm	43.31 in	9.5 kg

FW



30°

42Cr: 900-1150 N/mm²

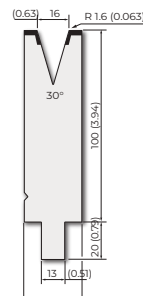
500 kN/m max.

TMR100.16.30

100 mm	3.94 in	2.4 kg
500 mm	19.68 in	11.8 kg
250 mm	9.84 in	6.0 kg
550 mm	21.65 in	13.0 kg

FC

FW



30°

42Cr: 900-1150 N/mm²

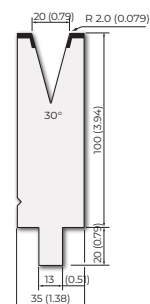
600 kN/m max.

TMR100.20.30

100 mm	3.94 in	2.6 kg
500 mm	19.68 in	13.2 kg
250 mm	9.84 in	6.5 kg
550 mm	21.65 in	15.0 kg

FC

FW



30°

42Cr: 900-1150 N/mm²

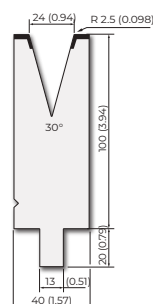
650 kN/m max.

TMR100.24.30

100 mm	3.94 in	3.0 kg
500 mm	19.68 in	14.8 kg
250 mm	9.84 in	7.4 kg
550 mm	21.65 in	16.2 kg

FC

FW



30°

42Cr: 900-1150 N/mm²

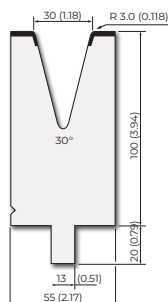
900 kN/m max.

TMR100.30.30

100 mm	3.94 in	3.8 kg
500 mm	19.68 in	19.0 kg
250 mm	9.84 in	9.5 kg
550 mm	21.65 in	21.0 kg

FC

FW



30°

42Cr: 900-1150 N/mm²

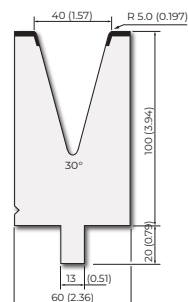
900 kN/m max.

TMR100.40.30

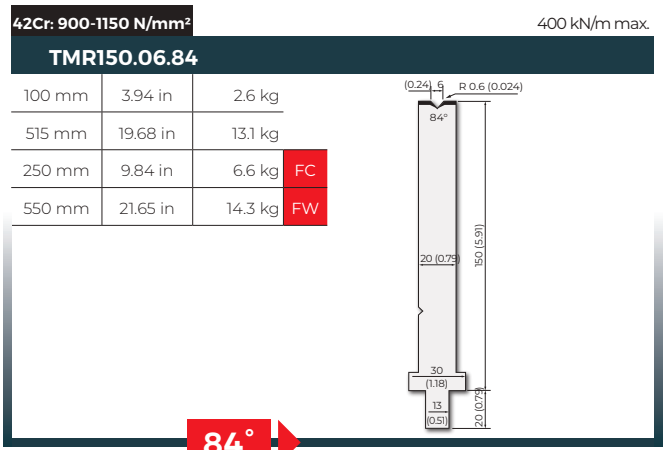
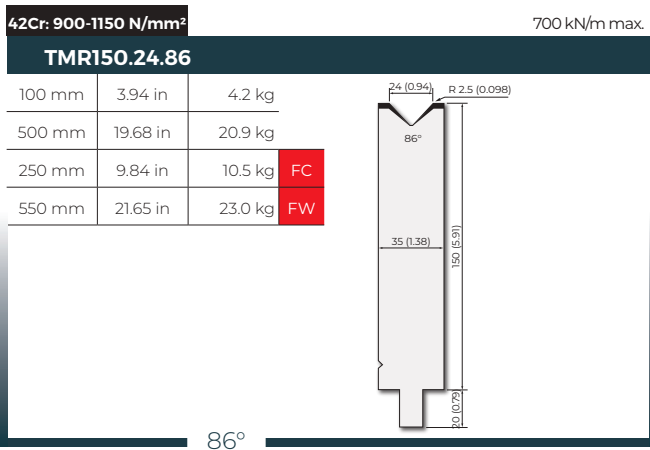
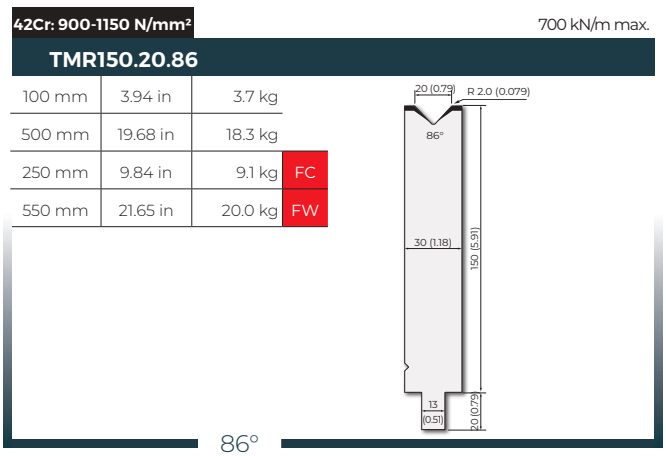
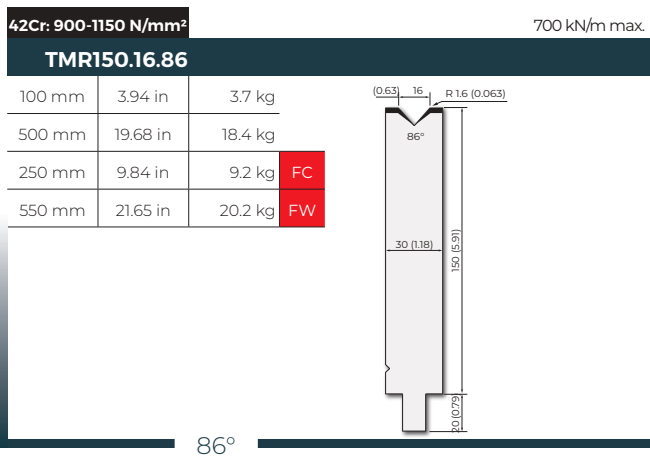
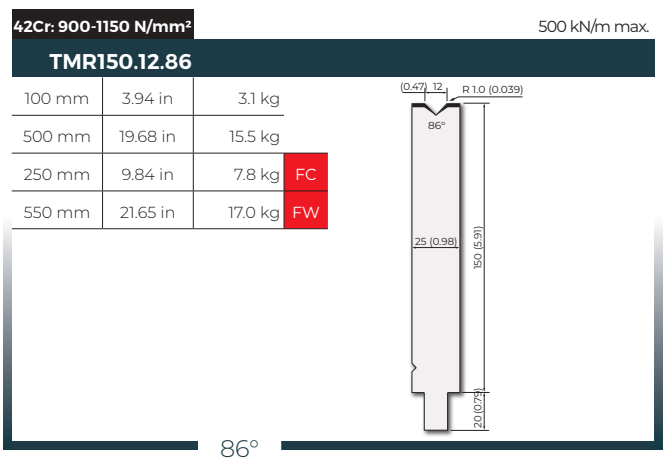
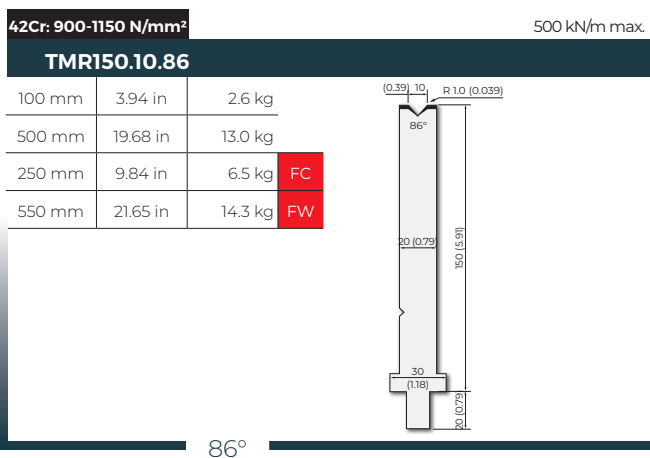
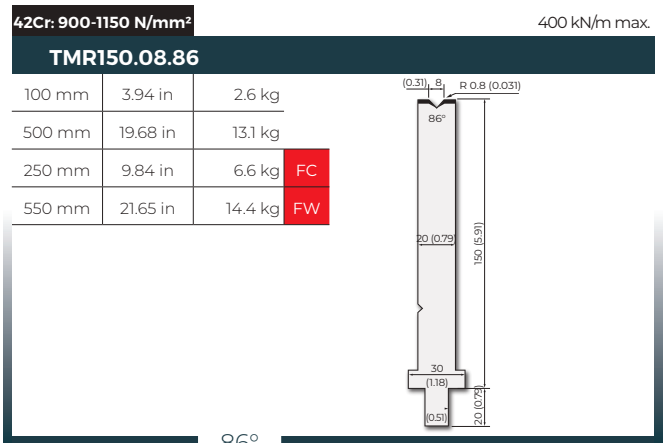
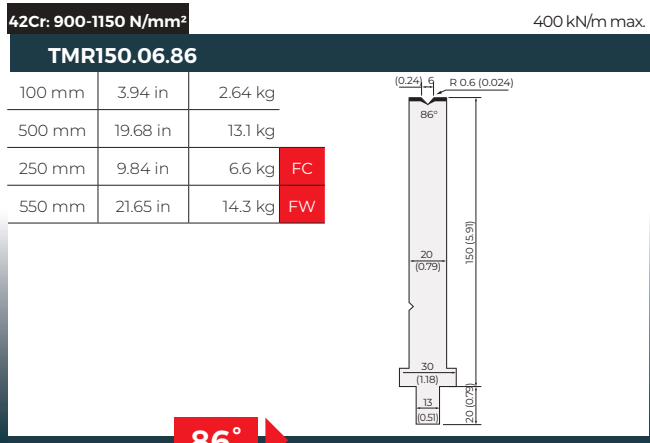
100 mm	3.94 in	3.7 kg
500 mm	19.68 in	18.3 kg
250 mm	9.84 in	9.3 kg
550 mm	21.65 in	20.1 kg

FC

FW



30°

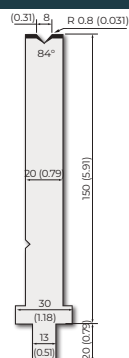


42Cr: 900-1150 N/mm²

400 kN/m max.

TMR150.08.84

100 mm	3.94 in	2.6 kg
500 mm	19.68 in	13.1 kg
250 mm	9.84 in	6.6 kg
550 mm	21.65 in	14.3 kg

FC
FW

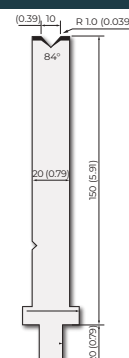
84°

42Cr: 900-1150 N/mm²

500 kN/m max.

TMR150.10.84

100 mm	3.94 in	2.6 kg
500 mm	19.68 in	13.0 kg
250 mm	9.84 in	6.5 kg
550 mm	21.65 in	14.3 kg

FC
FW

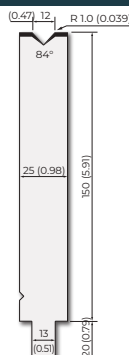
84°

42Cr: 900-1150 N/mm²

500 kN/m max.

TMR150.12.84

100 mm	3.94 in	3.1 kg
500 mm	19.68 in	15.5 kg
250 mm	9.84 in	7.8 kg
550 mm	21.65 in	17.0 kg

FC
FW

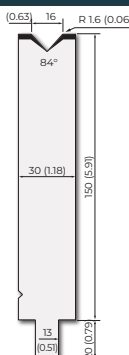
84°

42Cr: 900-1150 N/mm²

700 kN/m max.

TMR150.16.84

100 mm	3.94 in	3.7 kg
500 mm	19.68 in	18.4 kg
250 mm	9.84 in	9.2 kg
550 mm	21.65 in	20.2 kg

FC
FW

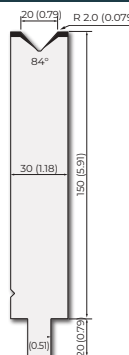
84°

42Cr: 900-1150 N/mm²

700 kN/m max.

TMR150.20.84

100 mm	3.94 in	3.7 kg
500 mm	19.68 in	18.3 kg
250 mm	9.84 in	9.1 kg
550 mm	21.65 in	20.0 kg

FC
FW

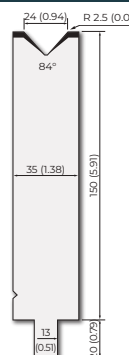
84°

42Cr: 900-1150 N/mm²

700 kN/m max.

TMR150.24.84

100 mm	3.94 in	4.2 kg
500 mm	19.68 in	20.9 kg
250 mm	9.84 in	10.4 kg
550 mm	21.65 in	22.9 kg

FC
FW

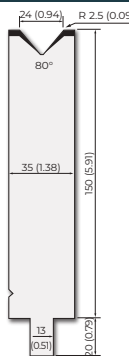
84°

42Cr: 900-1150 N/mm²

700 kN/m max.

TMR150.24.80

100 mm	3.94 in	4.2 kg
500 mm	19.68 in	20.9 kg
250 mm	9.84 in	10.4 kg
550 mm	21.65 in	22.9 kg

FC
FW

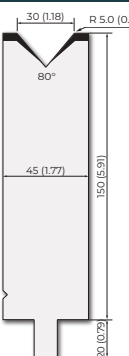
80°

42Cr: 900-1150 N/mm²

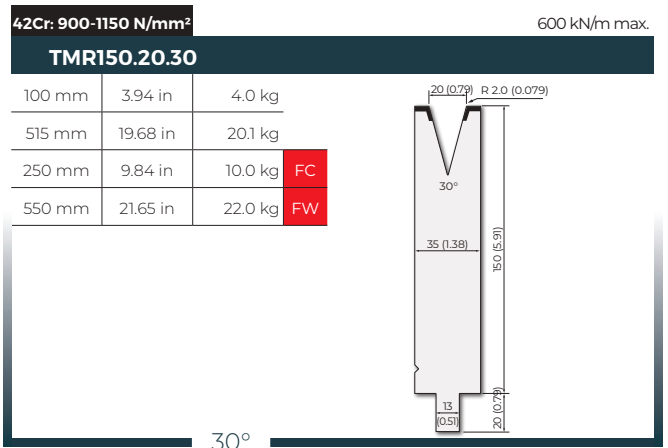
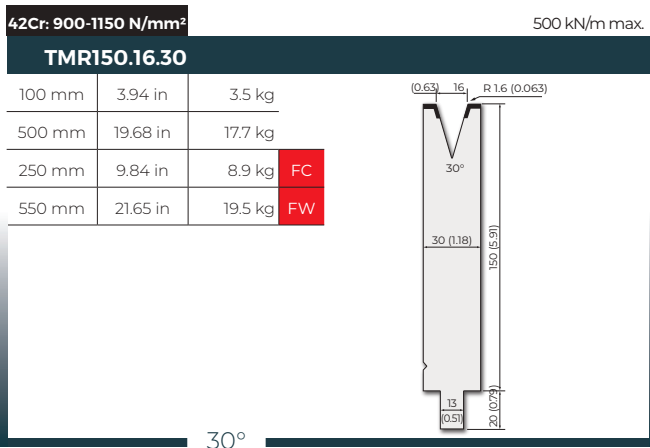
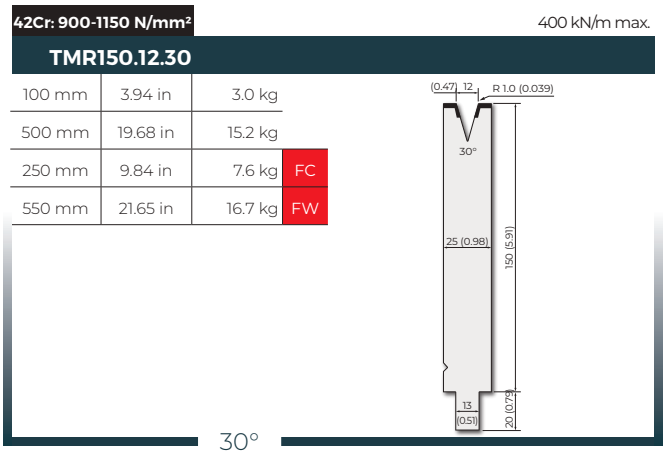
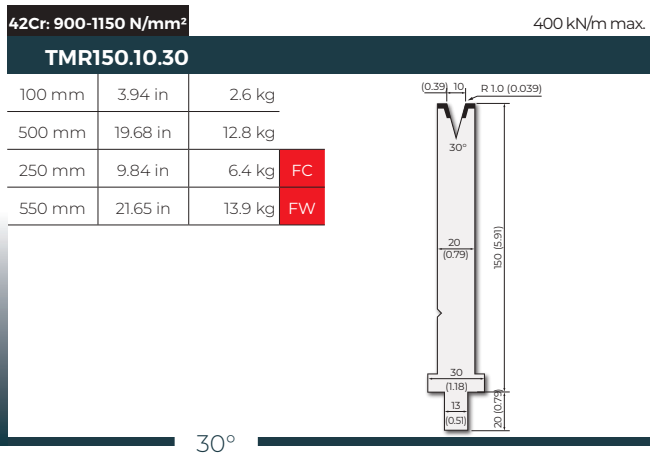
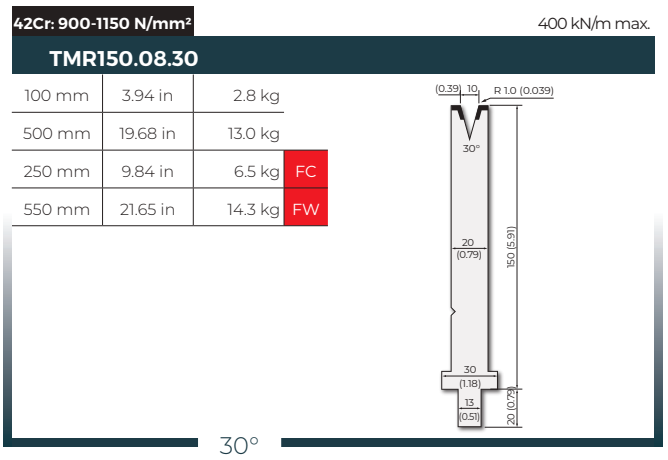
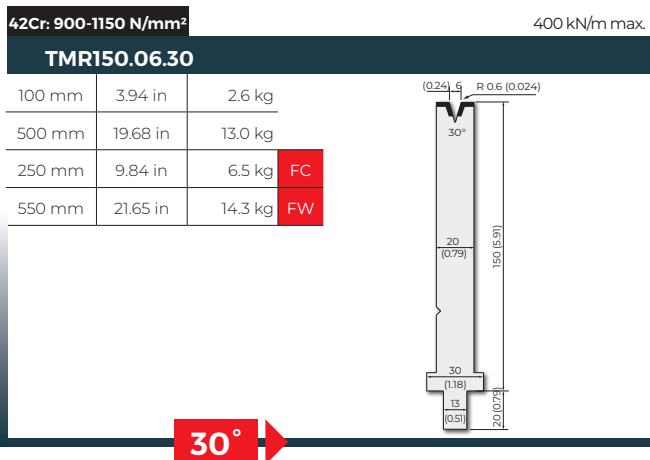
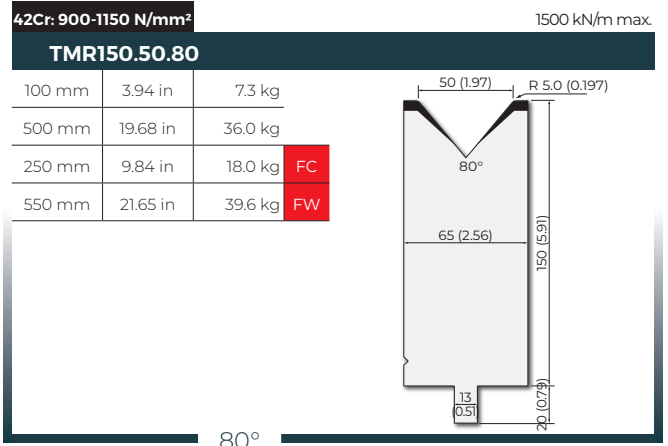
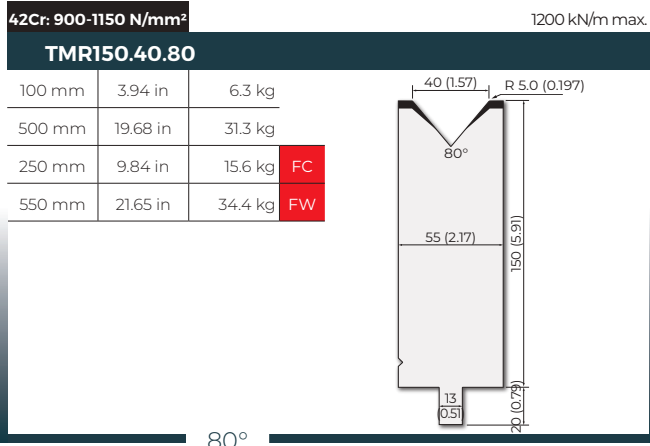
900 kN/m max.

TMR150.30.80

100 mm	3.94 in	5.3 kg
500 mm	19.68 in	26.3 kg
250 mm	9.84 in	13.1 kg
550 mm	21.65 in	28.9 kg

FC
FW

80°



42Cr: 900-1150 N/mm²

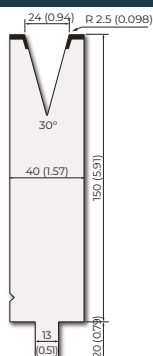
650 kN/m max.

TMR150.24.30

100 mm	3.94 in	4.5 kg
500 mm	19.68 in	22.3 kg
250 mm	9.84 in	11.2 kg
550 mm	21.65 in	24.5 kg

FC

FW



30°

42Cr: 900-1150 N/mm²

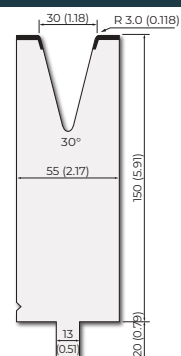
900 kN/m max.

TMR150.30.30

100 mm	3.94 in	6.0 kg
500 mm	19.68 in	30.0 kg
250 mm	9.84 in	15.0 kg
550 mm	21.65 in	33.0 kg

FC

FW



30°

42Cr: 900-1150 N/mm²

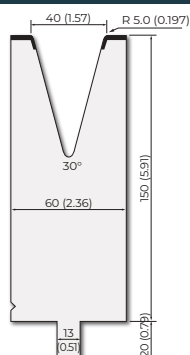
900 kN/m max.

TMR150.40.30

100 mm	3.94 in	6.0 kg
500 mm	19.68 in	30.1 kg
250 mm	9.84 in	15.1 kg
550 mm	21.65 in	33.1 kg

FC

FW



30°



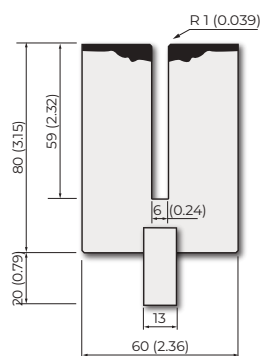
Hemming Dies

42Cr: 900-1150 N/mm²

500 kN/m max. - 1000 kN/m max.

BPR.SM.195.28.6

525 mm	20.67 in	12.0 kg	F	To use with: BPR.SP-195.28.6 (pag. 109)
495 mm	19.49 in	11.0 kg		

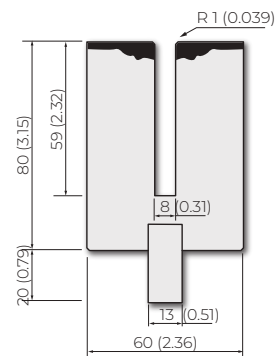


42Cr: 900-1150 N/mm²

500 kN/m max. - 1000 kN/m max.

BPR.SM.195.28.8 - TPR.SM.195.28.8 - TPR.SM.195.24.8

525 mm	20.67 in	12.0 kg	F	To use with:
495 mm	19.49 in	11.0 kg		BPR.SP-195.28.8 (pag. 109)
				TPR.SP.195.28.8 (pag. 98)
				TPR.SP.195.24.8 (pag. 98)

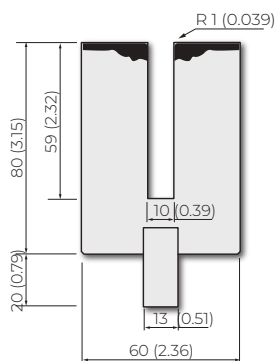


42Cr: 900-1150 N/mm²

500 kN/m max. - 1000 kN/m max.

BPR.SM.195.24.10 - TPR.SM.195.24.10

525 mm	20.67 in	12.0 kg	F	To use with:
495 mm	19.49 in	11.0 kg		BPR.SP-195.24.10 (pag. 109)
				TPR.SP-195.24.10 (pag. 98)

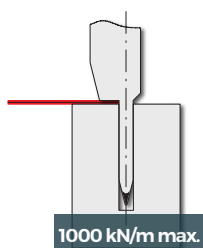
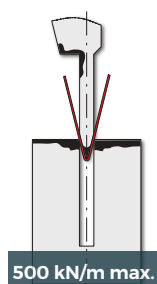
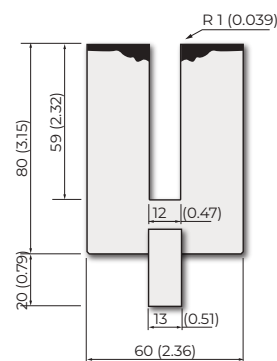


42Cr: 900-1150 N/mm²

500 kN/m max. - 1000 kN/m max.

BPR.SM.195.24.12 - TPR.SM.195.24.12

525 mm	20.67 in	12.0 kg	F	To use with:
495 mm	19.49 in	11.0 kg		BPR.SP-195.24.12 (pag. 109)
				TPR.SP.195.24.12 (pag. 98)

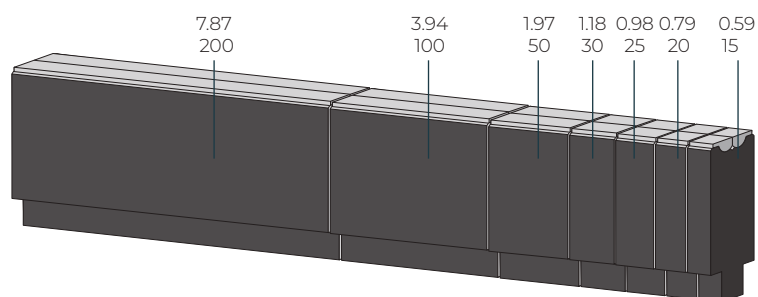


S [mm]	S [in]	A [mm]	A [in]	R.420 N/mm ² kN/m	R.700 N/mm ² kN/m
0.6	0.02	3.0	0.12	90	150
0.8	0.03	3.0	0.12	120	200
1.0	0.04	3.5	0.14	150	250
1.25	0.05	3.5	0.14	170	260

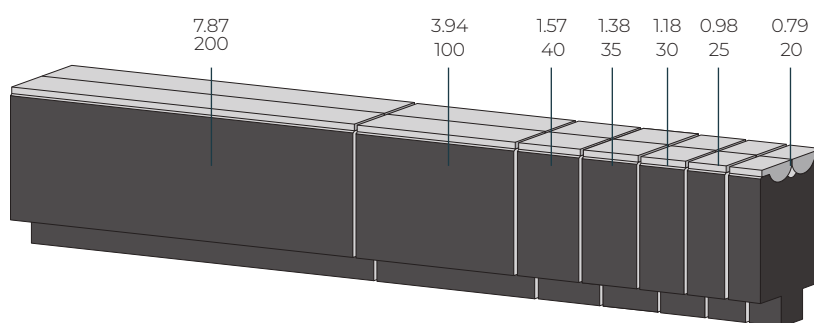
S [mm]	S [in]	A [mm]	A [in]	R.420 N/mm ² kN/m	R.700 N/mm ² kN/m
0.6	0.02	1.2	0.05	230	350
0.8	0.03	1.6	0.06	320	500
1.0	0.04	1.0	0.04	400	600
1.25	0.05	2.5	0.10	500	800

SEGMENTATION

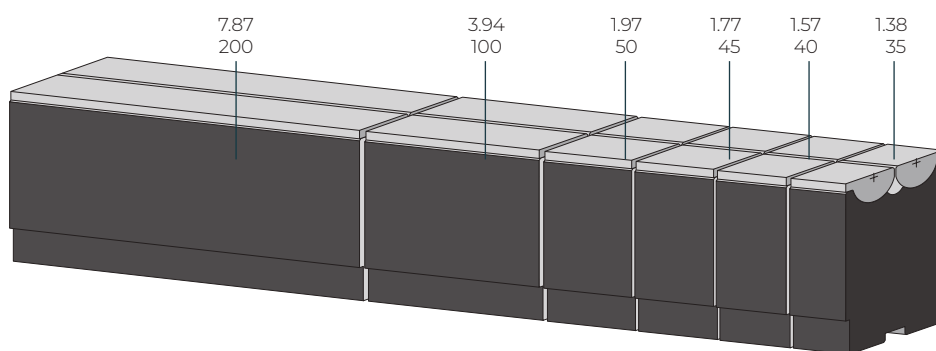
Model 1: 440 mm (17.32 in) - 7 segments



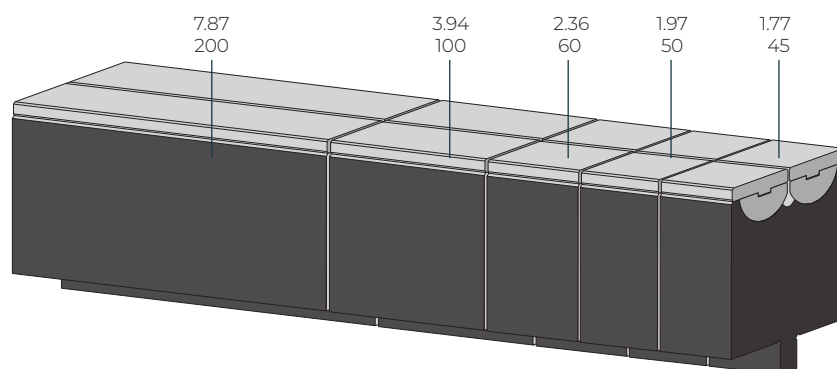
Model 2: 450 mm (17.72 in) - 7 segments



Model 2.5: 470 mm (18.50 in) - 6 segments



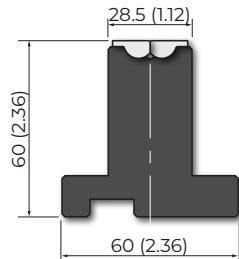
Model 3: 455 mm (17.91 in) - 5 segments



42Cr: 900-1150 N/mm² Toolox 44 1000 kN/m max.

RVP60-1

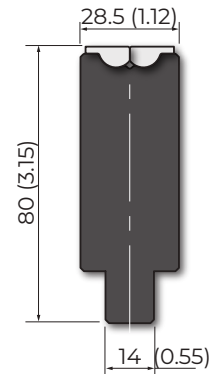
500 mm	16.68 in	6.9 kg
440 mm	17.32 in	6.1 kg F



42Cr: 900-1150 N/mm² Toolox 44 1000 kN/m max.

RVS80-1

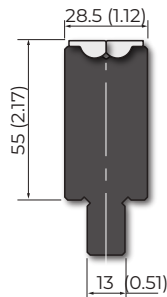
500 mm	16.68 in	6.3 kg
440 mm	17.32 in	5.8 kg F



42Cr: 900-1150 N/mm² Toolox 44 1000 kN/m max.

RVT55-1

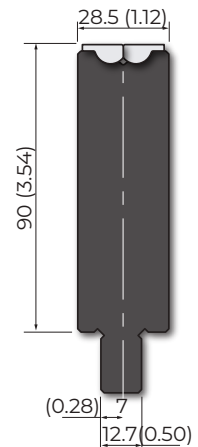
500 mm	16.68 in	5.5 kg
440 mm	17.32 in	5.0 kg F



42Cr: 900-1150 N/mm² Toolox 44 1000 kN/m max.

RVT90-1

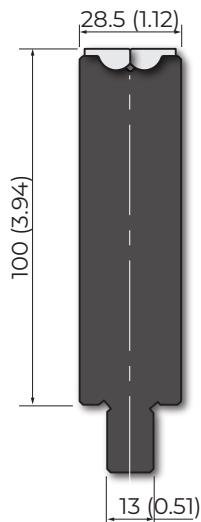
500 mm	16.68 in	9.4 kg
440 mm	17.32 in	7.8 kg F



42Cr: 900-1150 N/mm² Toolox 44 1000 kN/m max.

RVT100-1

500 mm	16.68 in	9.4 kg
440 mm	17.32 in	8.6 kg F



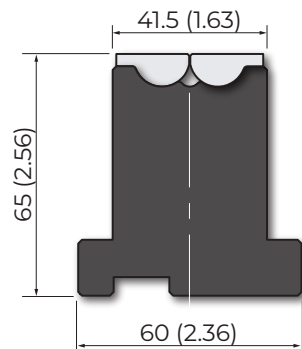
MODEL 1 - Features

Max. recommended thickness	≈1.5 mm [0.06 in] [2.0 mm / 0.08 in possible]		
Material Thickness mm [in]	0.70 [0.03]	1.10 [0.04]	1.50 [0.06]
Equivalent V size mm [in]	8 [0.31]		
Max. tool load (kN/m)	1000	1000	1000
Min. bending angle	40°	35°	35°
Needed press force mild steel with max. 450 N/mm ² (kN/m)	50	130	270
Needed press force stainless steel with max. 700 N/mm ² (kN/m)	70	200	410
Min. outside flange mm [in]	3.0 [0.12]	3.9 [0.15]	4.2 [0.17]
Max. outside radius mm [in]	3.0 [0.12]	2.6 [0.10]	2.2 [0.09]

42Cr: 900-1150 N/mm² Toolox 44 1500 kN/m max.

RVP65-2

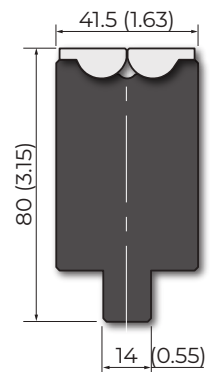
500 mm	16.68 in	7.9 kg
450 mm	17.72 in	7.4 kg F



42Cr: 900-1150 N/mm² Toolox 44 1500 kN/m max.

RVS80-2

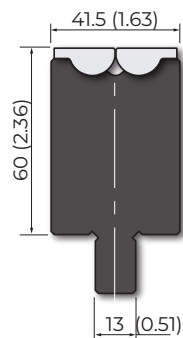
500 mm	16.68 in	8.3 kg
450 mm	17.72 in	7.8 kg F



42Cr: 900-1150 N/mm² Toolox 44 1500 kN/m max.

RVT60-2

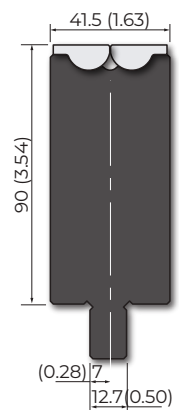
500 mm	16.68 in	7.9 kg
450 mm	17.72 in	7.4 kg F



42Cr: 900-1150 N/mm² Toolox 44 1500 kN/m max.

RVT90-2

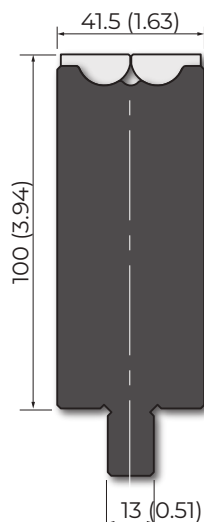
500 mm	16.68 in	11.3 kg
450 mm	17.72 in	10.6 kg F



42Cr: 900-1150 N/mm² Toolox 44 1500 kN/m max.

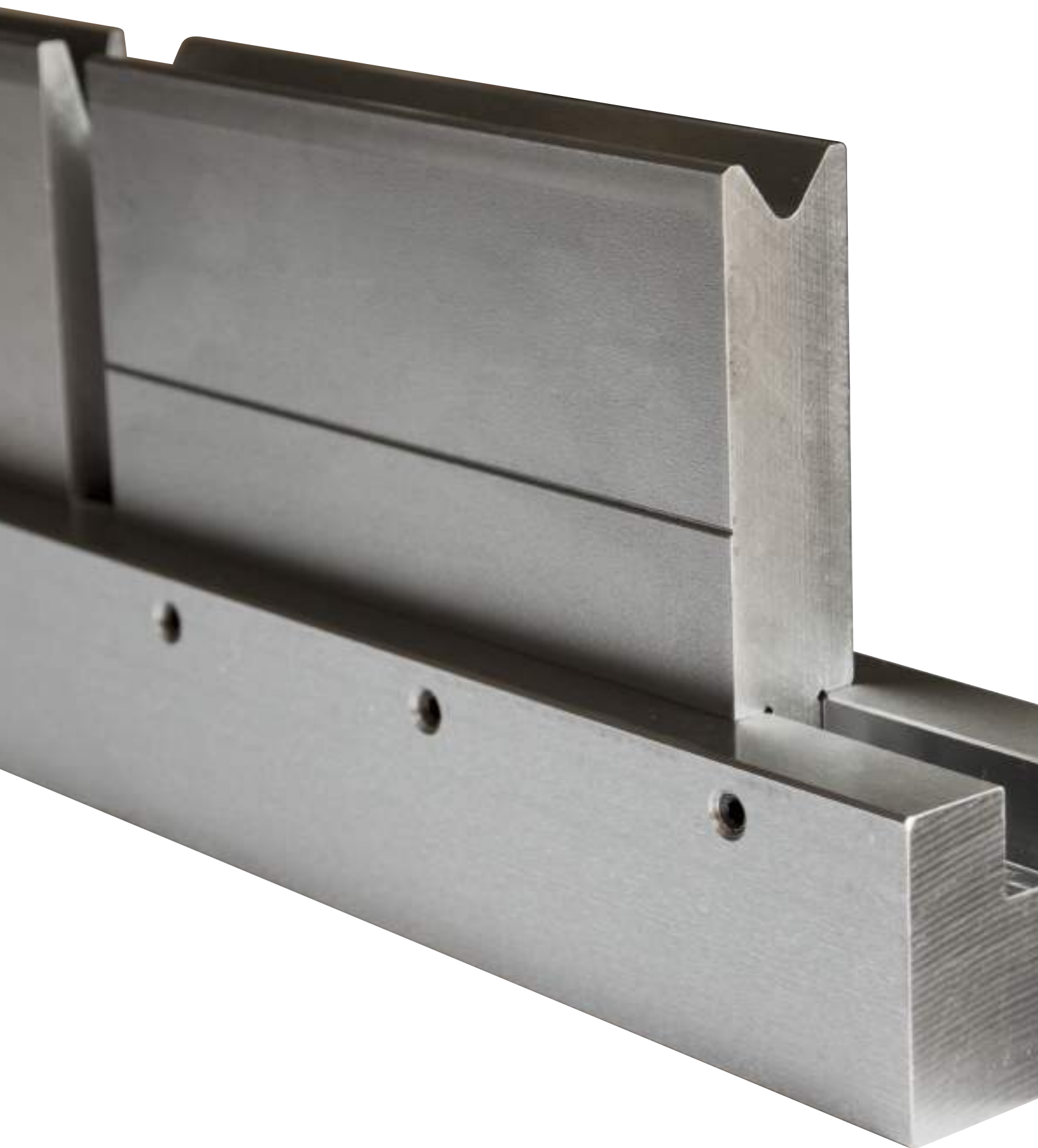
RVT100-2

500 mm	16.68 in	12.4 kg
450 mm	17.72 in	11.7 kg F



MODEL 2 - Features

Max. recommended thickness	=3.0 mm [0.12 in] [4.0 mm / 0.15 in possible]		
Material Thickness mm [in]	2.00 [0.08]	3.00 [0.12]	3.20 [0.13]
Equivalent V size mm [in]	15 [0.59]		
Max. tool load (kN/m)	1500	1500	1500
Min. bending angle	59°	47°	47°
Needed press force mild steel with max. 450 N/mm ² (kN/m)	210	550	650
Needed press force stainless steel with max. 700 N/mm ² (kN/m)	320	850	1000
Min. outside flange mm [in]	8.5 [0.33]	9.3 [0.37]	9.3 [0.37]
Max. outside radius mm [in]	6.0 [0.24]	5.0 [0.20]	4.8 [0.19]



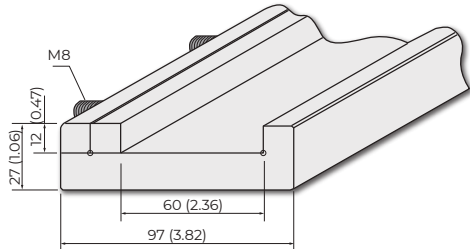
Dies - Holders

C45: 560-710 N/mm²

1000 kN/m max.

C 2000/S / C 2500/S / C 3000/S / C 4000/S

C 2000/S	2100 mm	82.68 in	27.0 kg
C 2500/S	2600 mm	102.36 in	34.0 kg
C 3000/S	3100 mm	122.05 in	40.0 kg
C 4000/S	4100 mm	161.42 in	53.0 kg

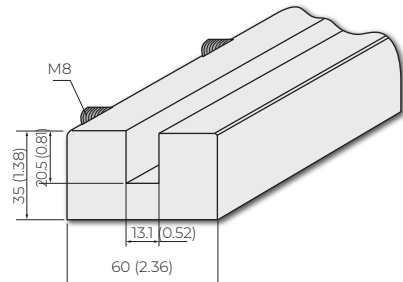


C45: 560-710 N/mm²

1000 kN/m max.

TC 2000/S / TC 2500/S / TC 3000/S / TC 4000/S

TC 2000/S	2100 mm	82.68 in	30.0 kg
TC 2500/S	2600 mm	102.36 in	37.0 kg
TC 3000/S	3100 mm	122.05 in	44.0 kg
TC 4000/S	4100 mm	161.42 in	59.0 kg

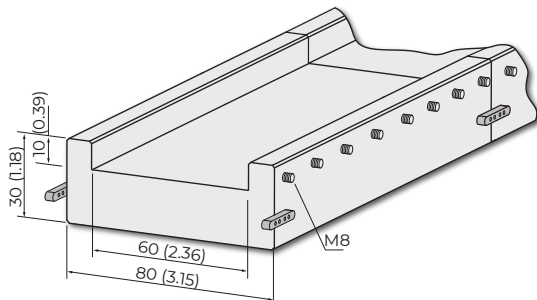


C45: 560-710 N/mm²

1000 kN/m max.

C 1050/R

C 1050/R	1050 mm	41.34 in	15.0 kg
C 1050/R/C	520 mm	20.47 in	7.5 kg

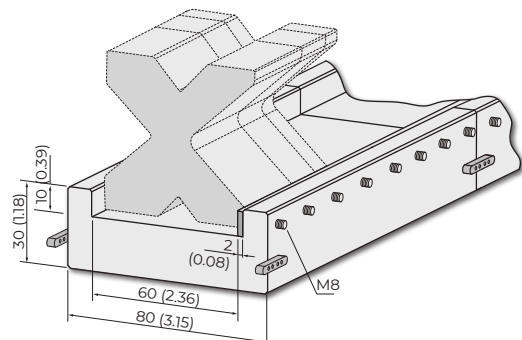


C45: 560-710 N/mm²

1000 kN/m max.

C 1050/RS

C 1050/RS	1050 mm	41.34 in	15.0 kg
C 1050/RS/C	520 mm	20.47 in	7.5 kg

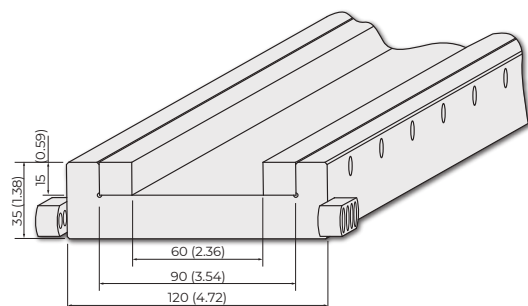


C45: 560-710 N/mm²

1000 kN/m max.

C 1050-90

C 1050-90	1050 mm	41.34 in	27.2 kg
C 1050-90/C	520 mm	20.47 in	13.5 kg

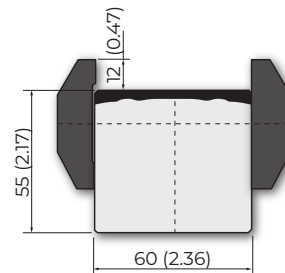


C45: 560-710 N/mm²

1000 kN/m max.

CTS60

835 mm	32.87 in	29.0 kg
415 mm	16.34 in	14.5 kg



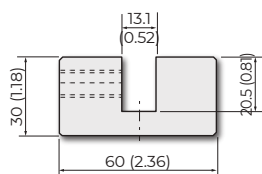
Dies - Adapters

C45: 560-710 N/mm²

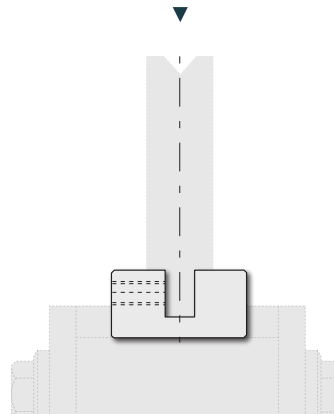
1000 kN/m max.

AD6

1000 mm	39.37 in	12.0 kg
500 mm	19.68 in	6.0 kg



AD6 Example of Application

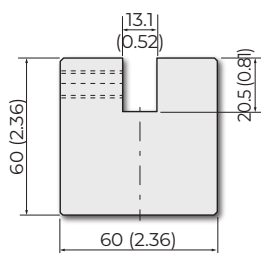


C45: 560-710 N/mm²

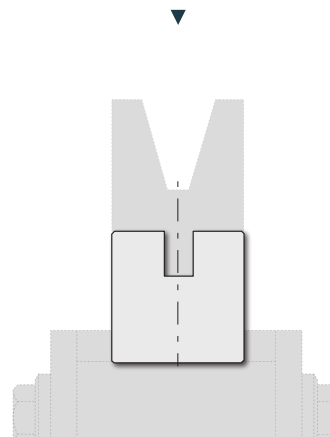
1000 kN/m max.

AD5

1000 mm	39.37 in	26.1 kg
500 mm	19.68 in	13.0 kg



AD5 Example of Application

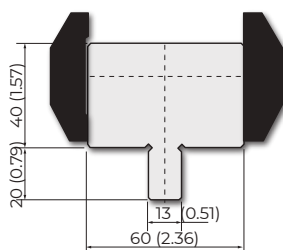


C45: 560-710 N/mm²

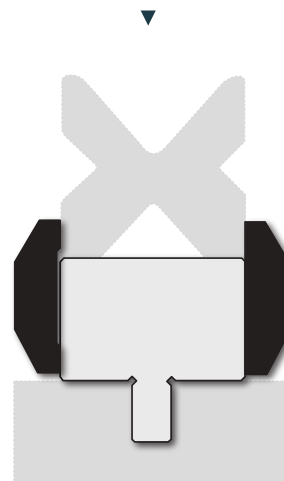
1000 kN/m max.

AD7

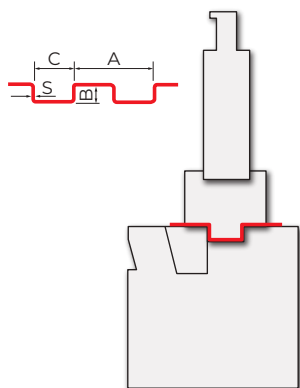
835 mm	32.87 in	25 kg
415 mm	16.34 in	8.5 kg



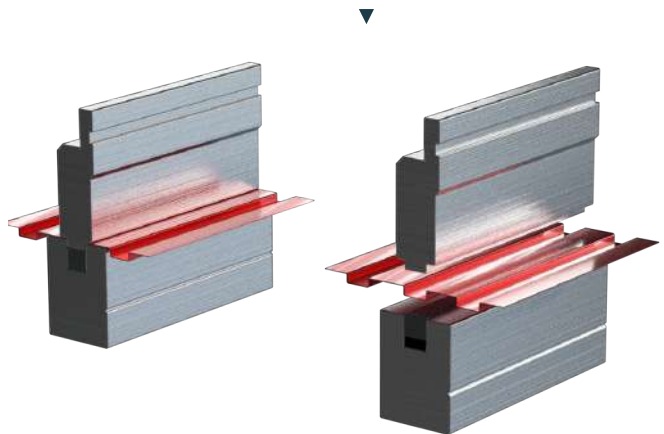
AD7 Example of Application



SPE1

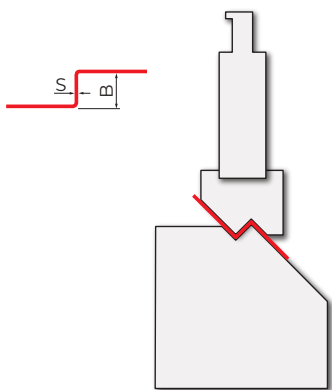


SPE1 Example of Application



SPE2

→ Z-Profiles

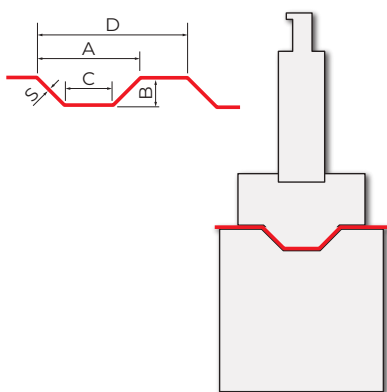


SPE2 Example of Application

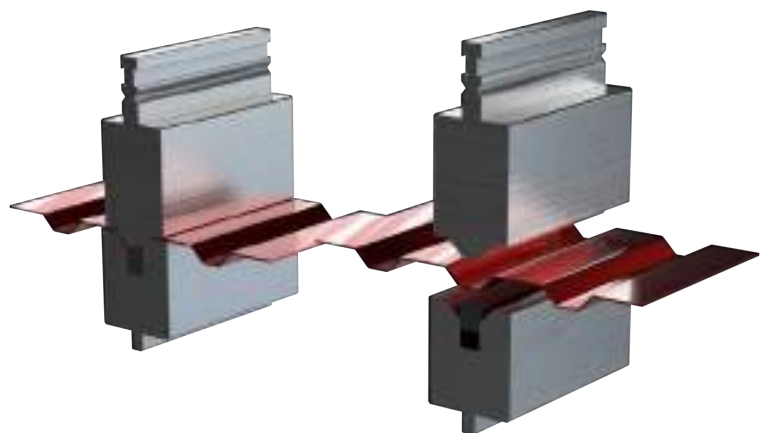


SPE3

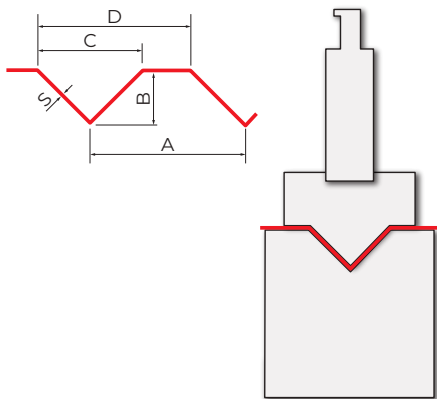
→ Trapezoidal Profiles



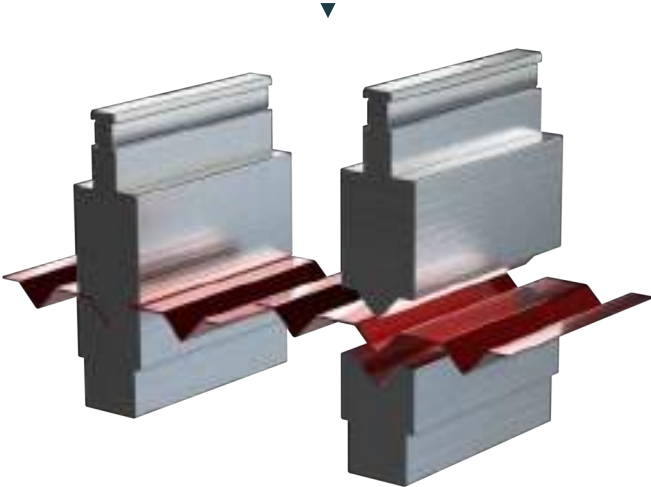
SPE3 Example of Application



SPE4

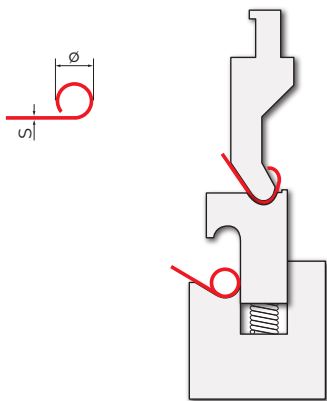


SPE4 Example of Application

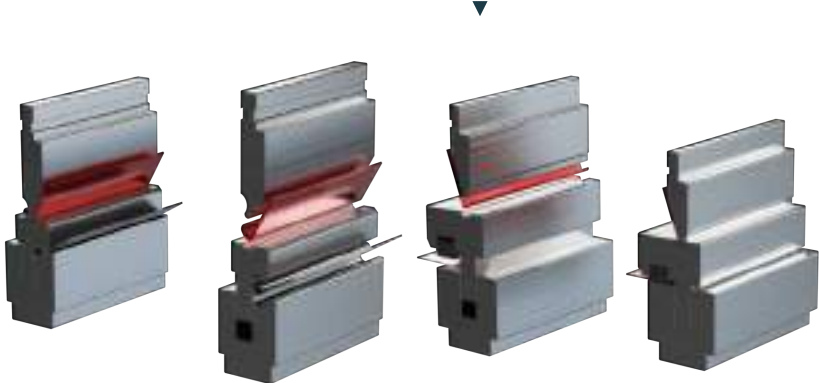


SPE5

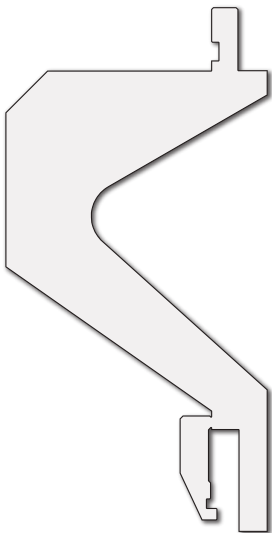
→ Hinges



SPE5 Example of Application



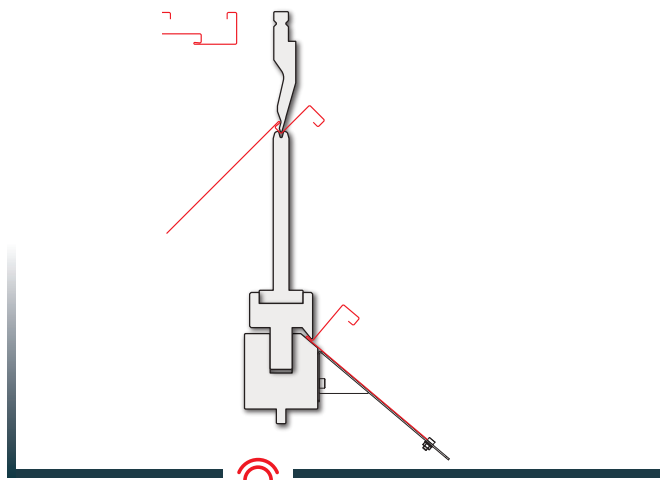
SPE-P4



SPE-P4 Example of Application



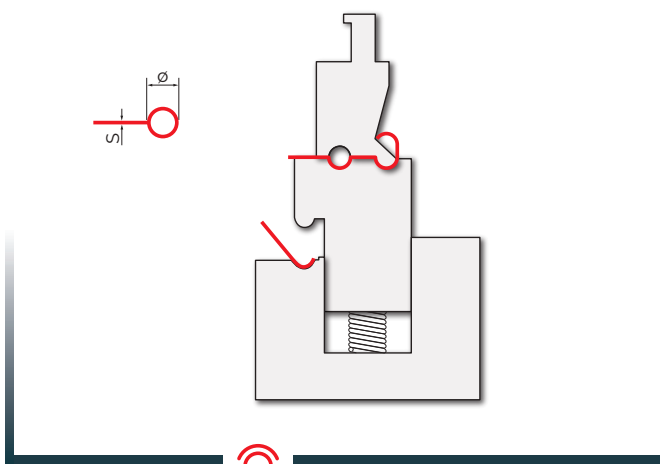
Pre-bending and flattening



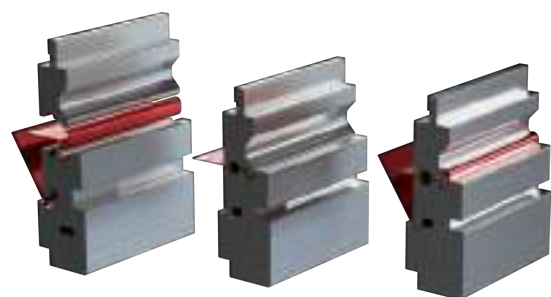
Example of Application



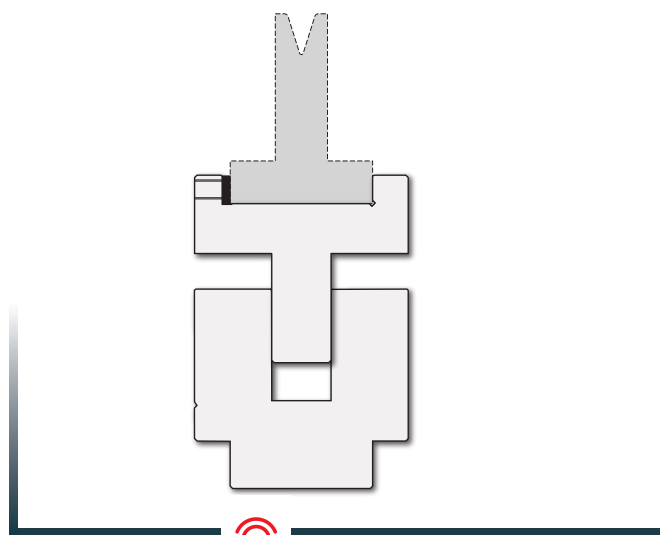
SPE6



SPE6 Example of Application



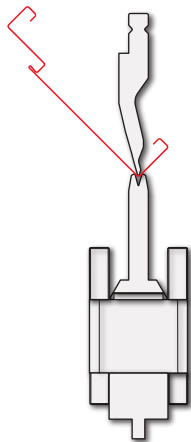
SPE9



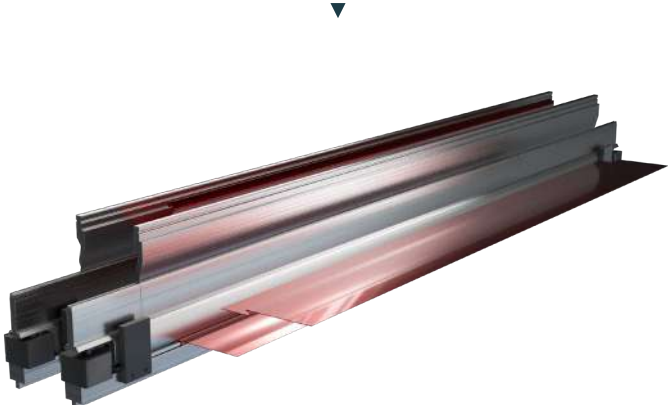
SPE9 Example of Application



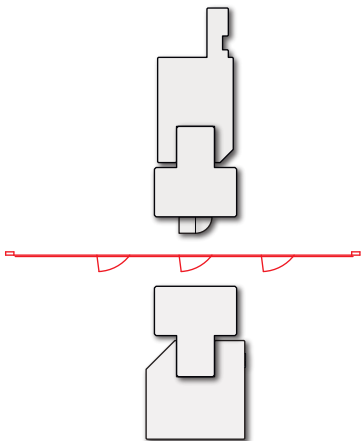
Special-Profile Doorframe



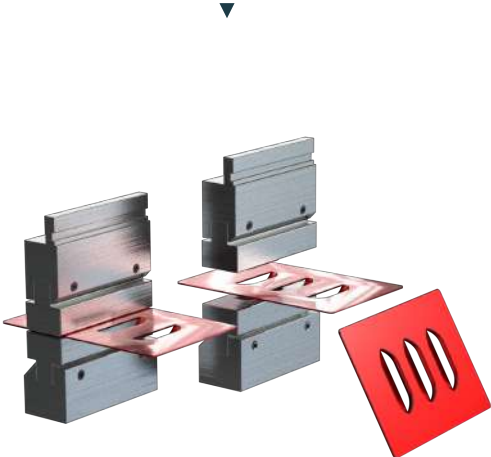
Example of Application



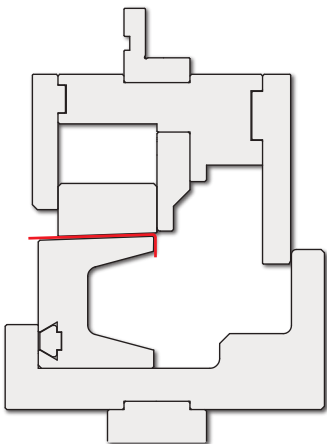
SPE10



SPE10 Example of Application



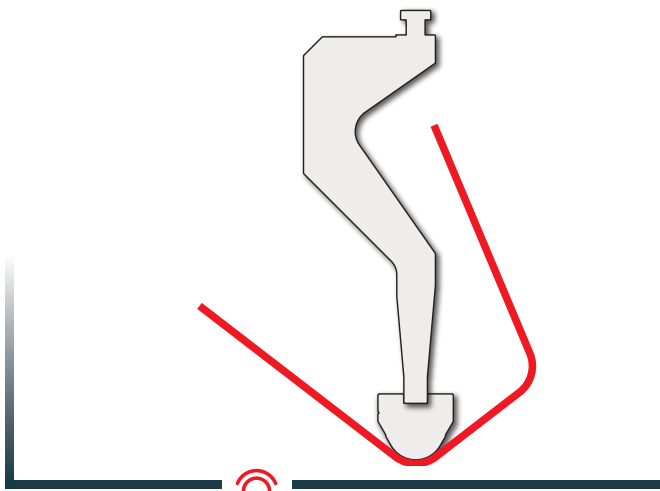
SPE12



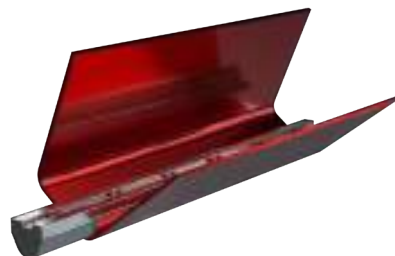
SPE12 Example of Application



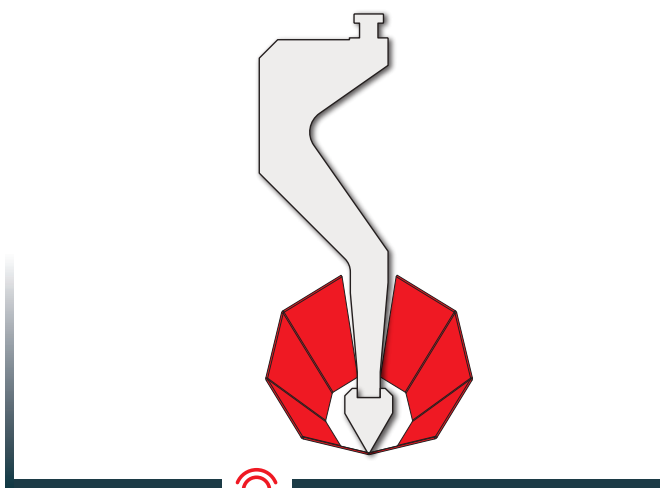
Special-Profile



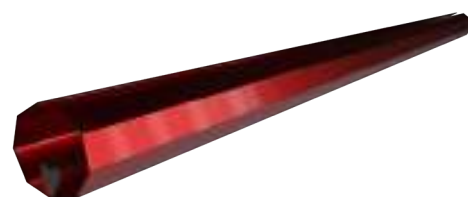
Example of Application



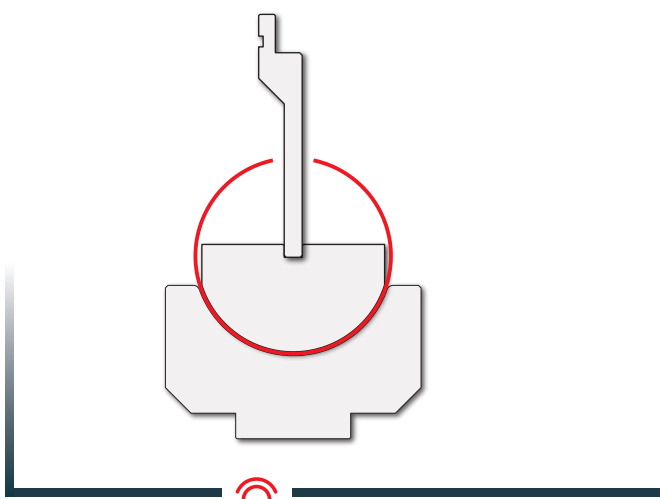
Special-Profile - Conical pole



Example of Application



Special-Profile - Circular pole



Example of Application



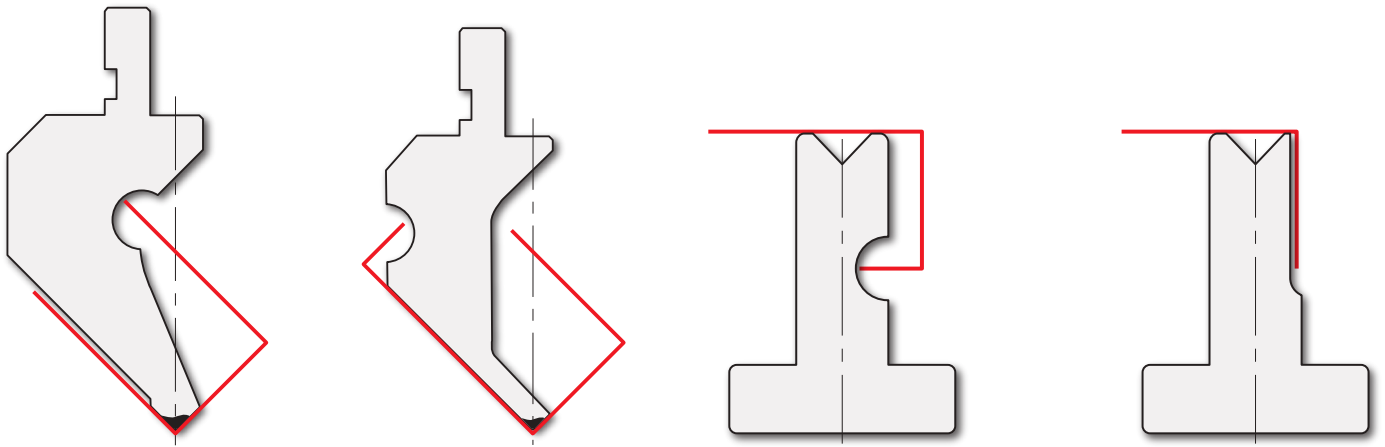
Panel bending tools

- ▶ In-house construction (no reseller or dealer)
- ▶ Production according to your specifications
- ▶ Every single tool is traceable thanks to a unique serial number stamped after the first quality control
- ▶ Precision grinding (tolerance of ± 0.01 mm)
- ▶ Exact parallelism
- ▶ Use of the best materials, guaranteed high resistance and tensile strength



Gaps

- Production according to your specifications



Windows

- Production according to your specifications

