

PRESS BRAKE TOOLING CATALOG



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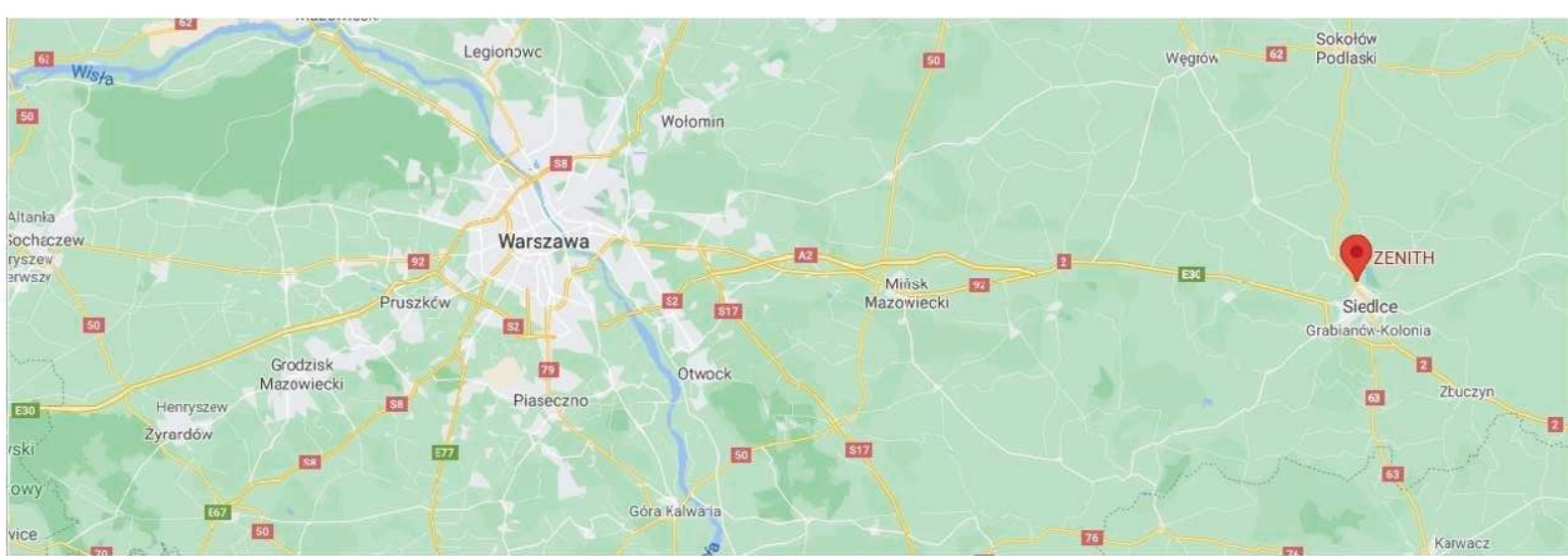


ZENITH MACHINES since many years provides metal working solutions as well as conventional and CNC. Our customers focus on the many of areas: automotive industry, plastic industry, machine designing and buiding, wood industry but also food or education.

Our service cover all needs of our Customers:

- * consulting (since Customer idea to realisation)
- * supplying
- * training
- * after-sales support
- * warranty service
- * post-warranty service
- * used and old machinery solutions.

Our team is only qualified and experienced service and engineers.





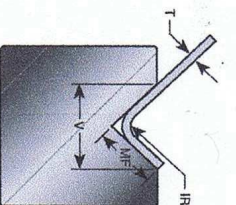
STANDARD FORMULAS FOR SELECTING A V-OPENING

MATERIAL THICKNESS: 2.6mm OR LESS = T x 6
 3.0mm - 8.0mm = T x 8
 9.00mm - 12.00mm = T x 10
 14.00mm & THICKER = T x 12

AIR BENDING FORCE CHART

METRIC

NOTE: The above formulas are for reference only. For more specific information, please refer to the chart below.



THICKNESS	V (mm)																								
	4	6	7	8	10	12	14	16	18	20	22	25	32	40	50	63	80	100	125	160	200	250			
0.5mm	4.5	2.8																							
0.6mm	6.0	4.2	3.3	3.2																					
0.8mm		8.0	7.2	5.6	4.4																				
1.0mm			11.0	10.0	9.0	7.0	5.5																		
1.2mm				14.0		13.2	10.8	8.4	7.5	6.6															
1.4mm					15.4	14.0	12.6	9.8	8.8	7.7															
1.6mm						17.6	16.0	14.4	11.2	10.0	8.8														
2.0mm							22.0	20.0	18.0	16.0	14.0	12.5	11.0												
2.3mm								25.3	23.0	20.7	18.4	16.1	14.4	12.7											
2.6mm									28.6	26.0	23.4	20.8	18.2	14.3											
3.0mm										33.0	30.0	28.53	27.0	21.0	16.5										
3.2mm											35.2	31.9	28.8	22.4	17.6	14.4									
3.5mm												38.5	35.0	28.0	21.9	15.8	14.0								
4.0mm													44.0	36.0	28.0	22.0	18.0								
4.5mm														45.0	36.0	28.1	20.3								
5.0mm														55.0	45.0	35.0	26.3	22.5							
6.0mm														60.0	54.0	37.5	31.5	24.0							
7.0mm																56.0	43.8	31.5	28.0						
9.0mm																	72.0	56.3	40.5						
10.0mm																	90.0	70.0	52.5						
12.0mm																		108.	84.0	63.0					
16.0mm																		0	144.	112.0					
19.0mm																			0	152.0					
22.0mm																				176.0					
25.0mm																				225.0					
30.0mm																					270.0				

T = MATERIAL THICKNESS • V = V-OPENING • MF = MINIMUM FLANGE LENGTH • IR = INSIDE RADIUS

The bending force (tonnage) figures listed above are based on mild steel with a tensile strength of 45-50 kilograms per square millimetre. To calculate the approximate bending force (tonnage) requirements for other materials, please use the multipliers listed.

Soft Brass..... Tons Per Metre x 50%
 Soft Aluminium..... Tons Per Metre x 50%
 Heat Treated Aluminium Alloys..... Tons Per Metre x 100%
 Stainless Steel..... Tons Per Metre x 150%

Note: * Based on bending to an included angle of 88 degrees. This dimension will increase when bending to an included angle of less than 88 degrees.

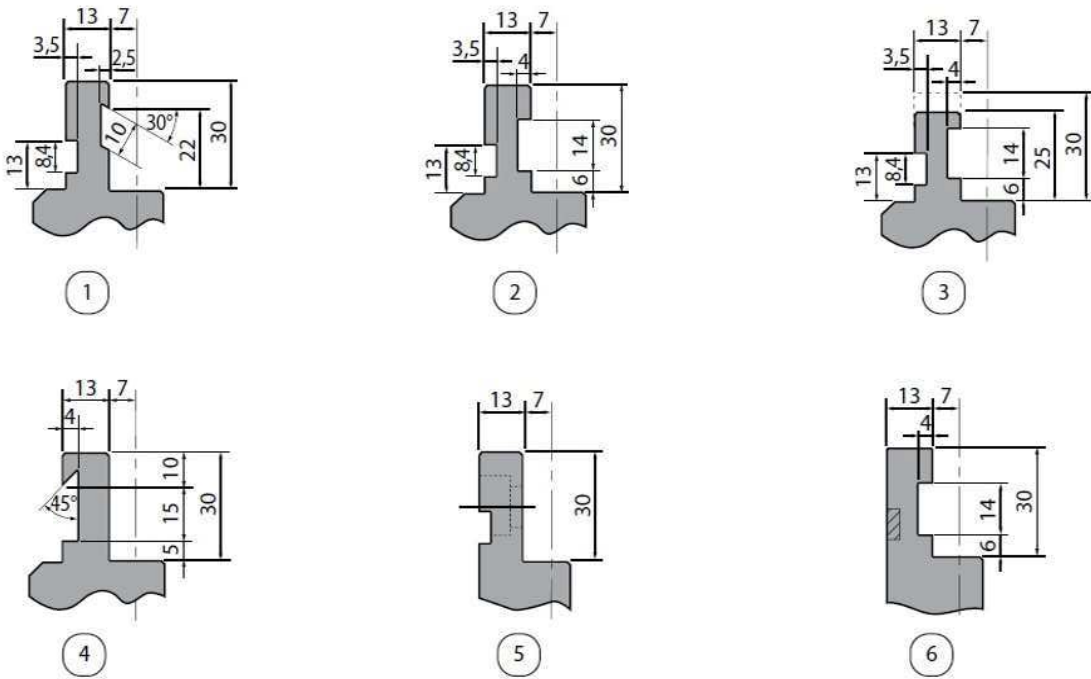
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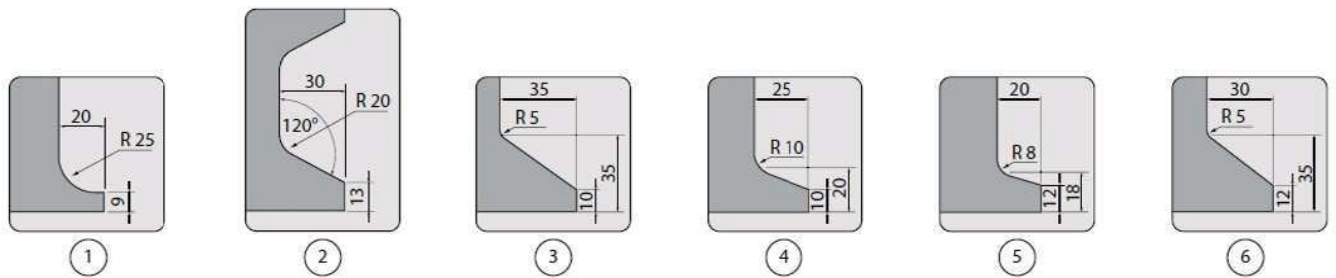
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Dies 84°, H=150 mm	74-75
Dies 80°, H=150 mm	76

Production	Page
Dies 30°, H=150 mm	77
Synthetic Dies, H=100 mm	78
Hemming Dies	79

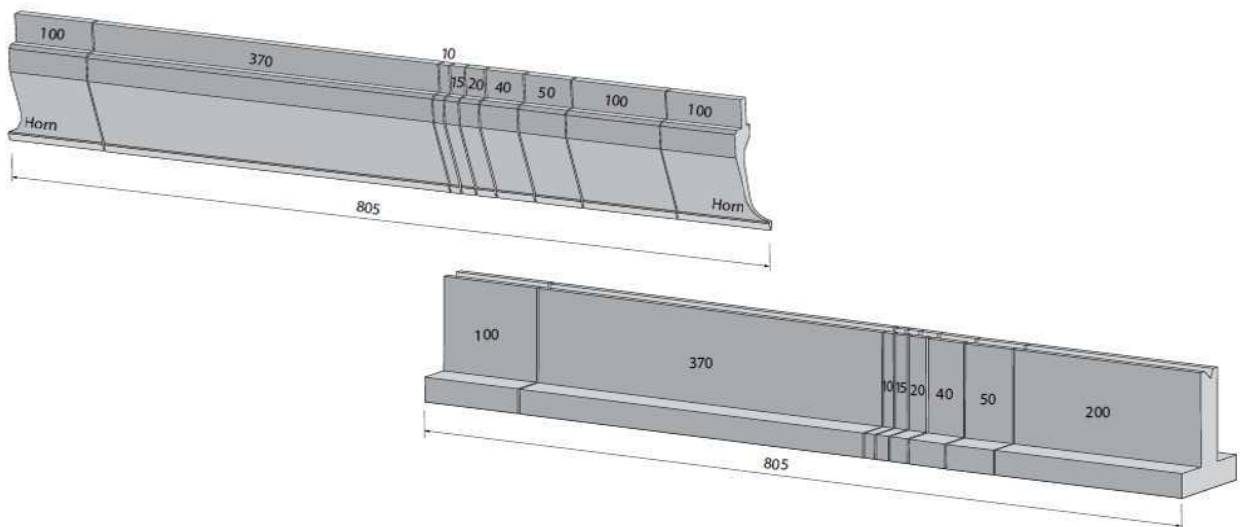
Adaption Standards



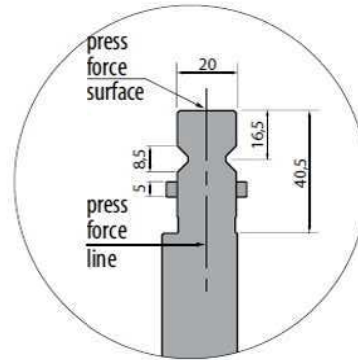
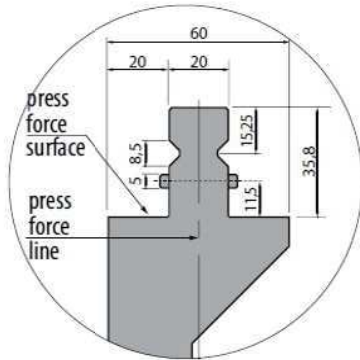
Horn Standards



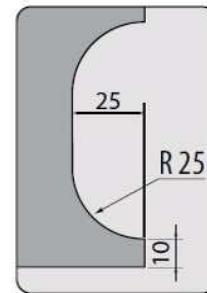
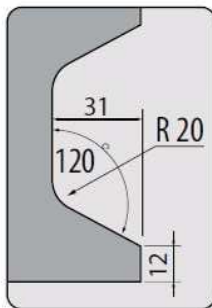
Segment Standards



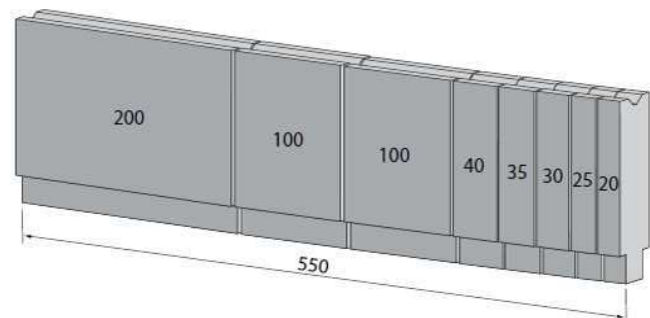
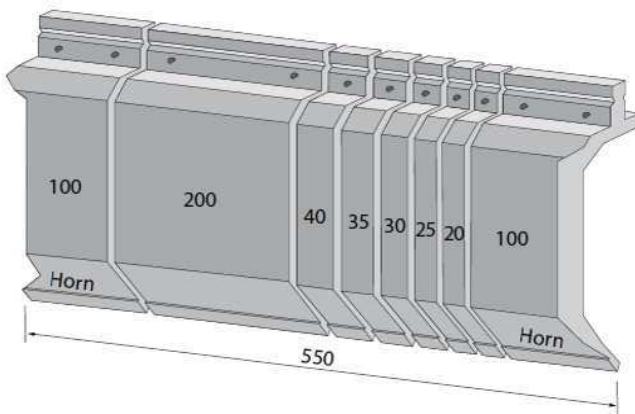
■ Adaption Standards



■ Horn Standards



■ Segment Standards



■ Material

Material	Resistance	Original Hardness	Final Hardness
42CrMo4	900-1200 N/mm ²	30 - 37 HRC	50 - 56 HRC

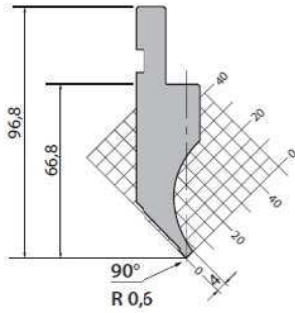
90° Punches



AP 97.90.R06

350 kN/m max.

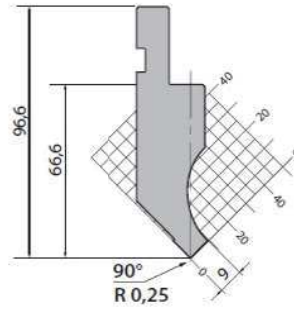
835 mm	\$ 160	10.6 kg
835 mm sections	\$ 210	10.6 kg
415 mm	\$ 90	5.2 kg



AP 97.90.R025

1000 kN/m max.

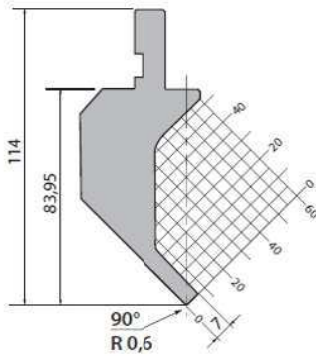
835 mm	\$ 140	10.8 kg
835 mm sections	\$ 190	10.8 kg
415 mm	\$ 90	5.4 kg



AP 114.90.R06

200 kN/m max.

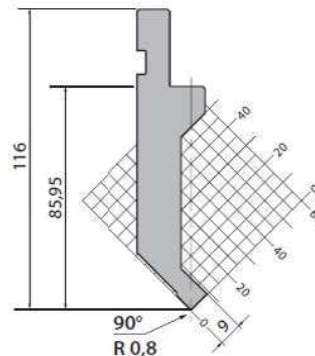
835 mm	\$ 280	13.8 kg
835 mm sections	\$ 330	13.8 kg
415 mm	\$ 180	7.0 kg



AP 116.90.R08

400 kN/m max.

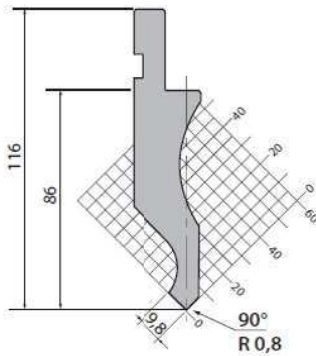
835 mm	\$ 160	12.8 kg
835 mm sections	\$ 210	12.8 kg
415 mm	\$ 90	6.6 kg



AP 116.90.R08S

500 kN/m max.

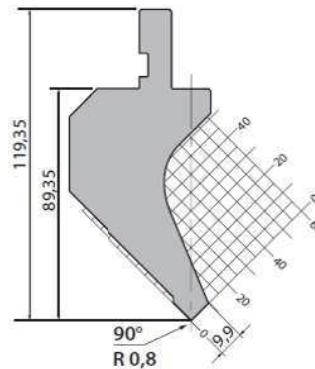
835 mm	\$ 200	13.0 kg
835 mm sections	\$ 250	13.0 kg
415 mm	\$ 110	6.4 kg



AP 120.90.R08

600 kN/m max.

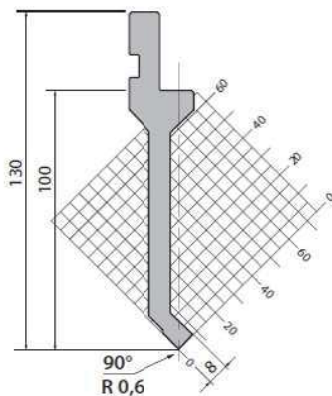
835 mm	\$ 240	20.8 kg
835 mm sections	\$ 290	20.8 kg
415 mm	\$ 130	10.6 kg



AP 130.90.R06

350 kN/m max.

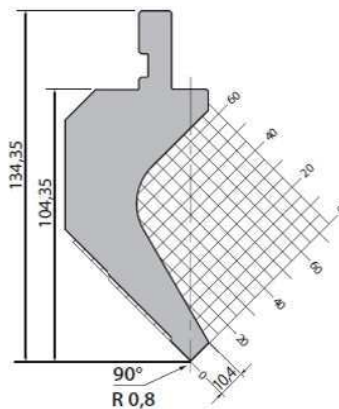
835 mm	\$ 210	11.6 kg
835 mm sections	\$ 260	11.6 kg
415 mm	\$ 120	5.8 kg



AP 135.90.R08

500 kN/m max.

835 mm	\$ 300	22.8 kg
835 mm sections	\$ 350	22.8 kg
415 mm	\$ 160	11.4 kg

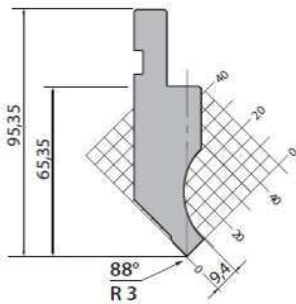


88° Punches



AP 95.88.R3

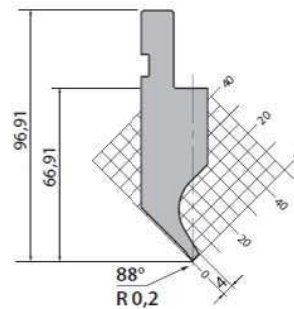
1000 kN/m max.



835 mm	\$ 150	11.0 kg
835 mm sections	\$ 200	11.0 kg
415 mm	\$ 90	5.4 kg

AP 97.88.R02

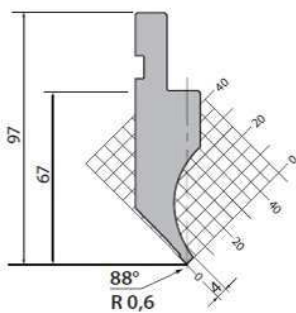
200 kN/m max.



835 mm	\$ 160	10.6 kg
835 mm sections	\$ 210	10.6 kg
415 mm	\$ 100	5.4 kg

AP 97.88.R06

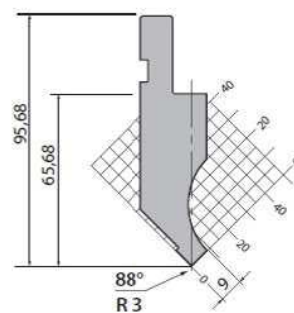
350 kN/m max.



835 mm	\$ 160	9.4 kg
835 mm sections	\$ 210	9.4 kg
415 mm	\$ 100	5.3 kg

AP 96.88.R3

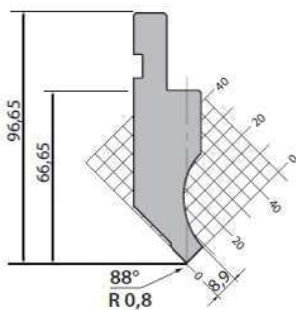
1000 kN/m max.



835 mm	\$ 150	11.0 kg
835 mm sections	\$ 200	11.0 kg
415 mm	\$ 90	5.4 kg

AP 97.88.R08

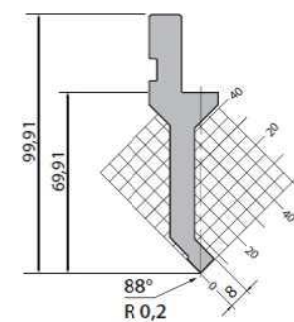
1000 kN/m max.



835 mm	\$ 150	11.0 kg
835 mm sections	\$ 200	11.0 kg
415 mm	\$ 90	5.4 kg

AP 100.88.R02

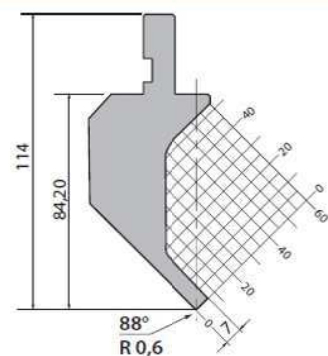
300 kN/m max.



835 mm	\$ 150	7.8 kg
835 mm sections	\$ 200	7.8 kg
415 mm	\$ 90	4.0 kg

AP 114.88.R06

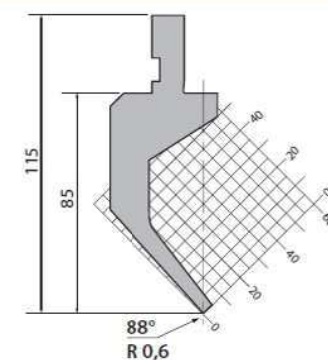
200 kN/m max.



835 mm	\$ 300	15.4 kg
835 mm sections	\$ 350	15.4 kg
415 mm	\$ 180	7.8 kg

AP 115.88.R06

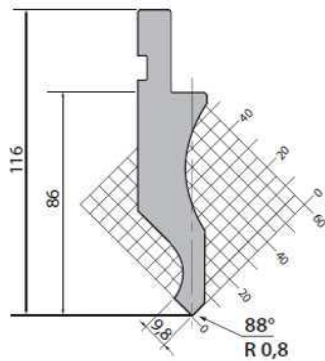
130 kN/m max.



835 mm	\$ 350	6.0 kg
835 mm sections	\$ 400	6.0 kg
415 mm	\$ 200	3.0 kg

AP 116.88.R08S

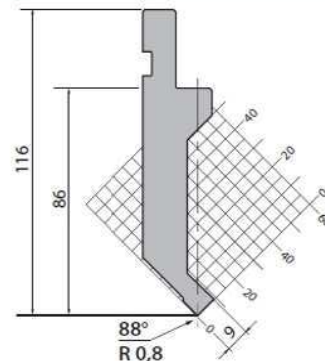
500 kN/m max.



835 mm	\$ 180	11.8 kg
835 mm sections	\$ 230	11.8 kg
415 mm	\$ 100	5.8 kg

AP 116.88.R08

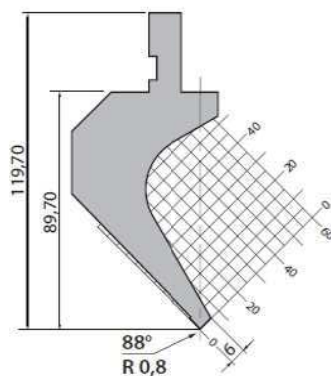
400 kN/m max.



835 mm	\$ 160	12.0 kg
835 mm sections	\$ 210	12.0 kg
415 mm	\$ 100	5.8 kg

AP 120.88.R08

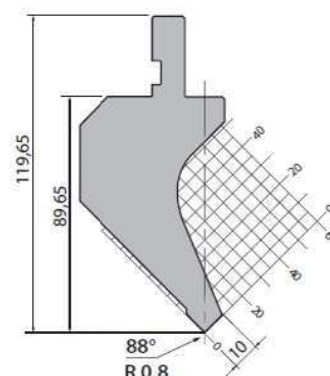
450 kN/m max.



835 mm	\$ 260	16.8 kg
835 mm sections	\$ 310	16.8 kg
415 mm	\$ 150	8.5 kg

AP 120.88.R08S

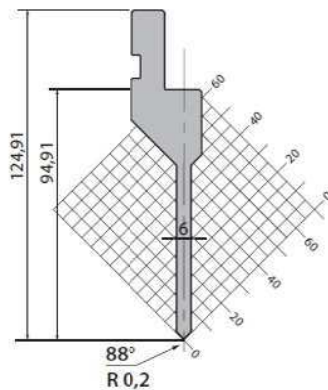
600 kN/m max.



835 mm	\$ 250	21.4 kg
835 mm sections	\$ 300	21.4 kg
415 mm	\$ 140	10.6 kg

AP 125.88.R02

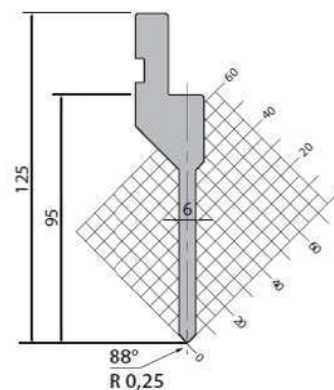
500 kN/m max.



835 mm	\$ 180	9.0 kg
835 mm sections	\$ 230	9.0 kg
415 mm	\$ 100	4.5 kg

AP 125.88.R025

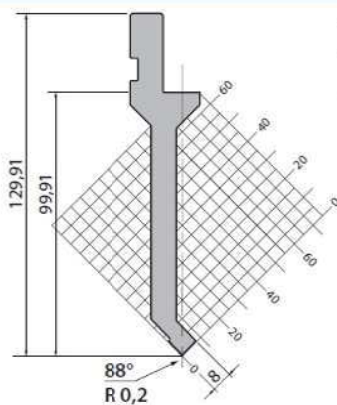
500 kN/m max.



835 mm	\$ 180	9.0 kg
835 mm sections	\$ 230	9.0 kg
415 mm	\$ 100	4.6 kg

AP 130.88.R02

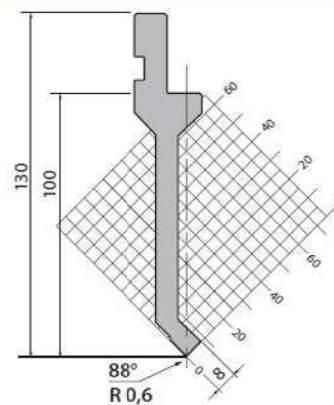
300 kN/m max.



835 mm	\$ 200	9.8 kg
835 mm sections	\$ 250	9.8 kg
415 mm	\$ 120	5.0 kg

AP 130.88.R06

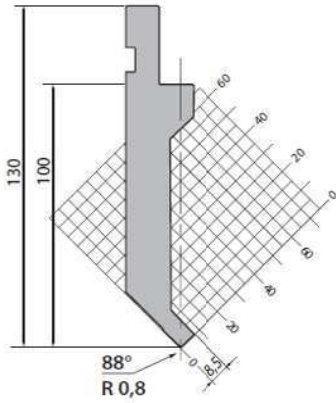
350 kN/m max.



835 mm	\$ 200	9.8 kg
835 mm sections	\$ 250	9.8 kg
415 mm	\$ 120	5.0 kg

AP 130.88.R08

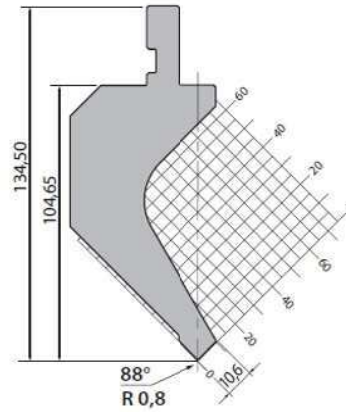
400 kN/m max.



835 mm	\$ 180	14.0 kg
835 mm sections	\$ 230	14.0 kg
415 mm	\$ 100	6.8 kg

AP 135.88.R08

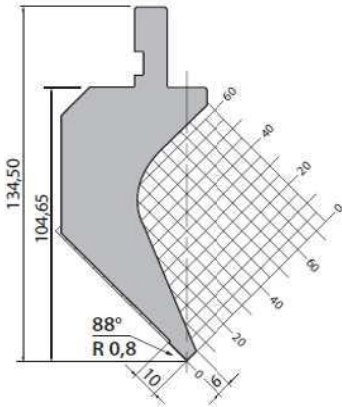
500 kN/m max.



835 mm	\$ 300	22.4 kg
835 mm sections	\$ 350	22.4 kg
415 mm	\$ 150	11.2 kg

AP 135.88.R08S

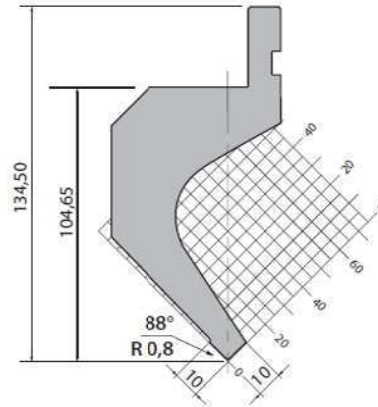
450 kN/m max.



835 mm	\$ 300	22.0 kg
835 mm sections	\$ 350	22.0 kg
415 mm	\$ 150	12.4 kg

AP 135.88.R08T

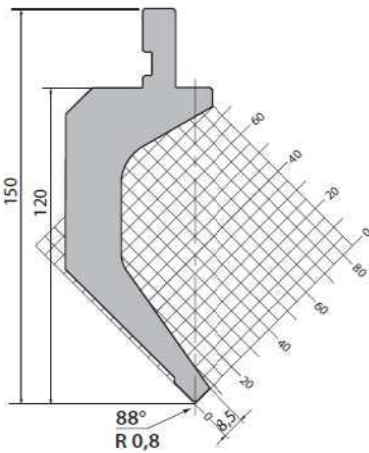
450 kN/m max.



835 mm	\$ 440	24.8 kg
835 mm sections	\$ 490	24.8 kg
415 mm	\$ 230	11.4 kg

AP 150.88.R08

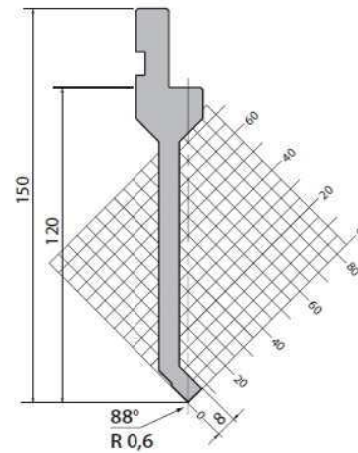
500 kN/m max.



835 mm	\$ 430	21.6 kg
835 mm sections	\$ 530	21.6 kg
415 mm	\$ 240	10.5 kg

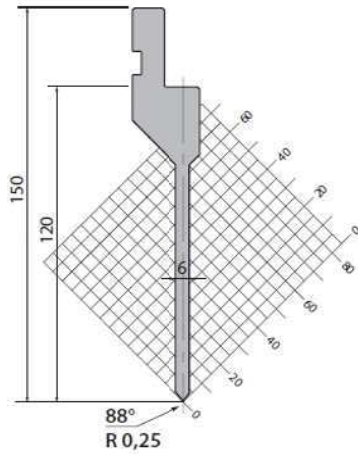
AP 150.88.R06

350 kN/m max.



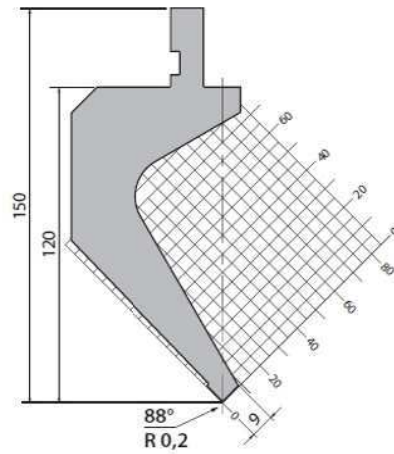
835 mm	\$ 360	13.0 kg
835 mm sections	\$ 460	13.0 kg
415 mm	\$ 180	6.0 kg

AP 150.88.R025



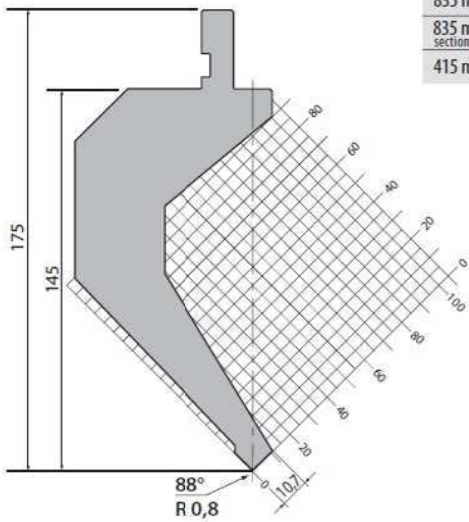
500 kN/m max.		
835 mm	\$ 380	10.0 kg
835 mm sections	\$ 480	10.0 kg
415 mm	\$ 190	4.5 kg

AP 150.88.R02



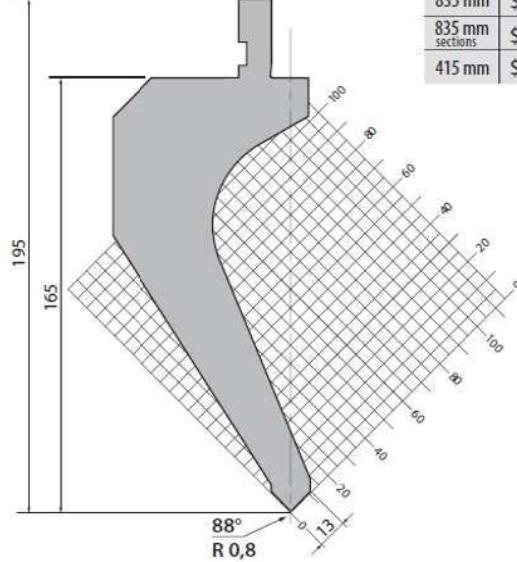
500 kN/m max.		
835 mm	\$ 420	25.8 kg
835 mm sections	\$ 520	25.8 kg
415 mm	\$ 240	13.0 kg

AP 175.88.R08



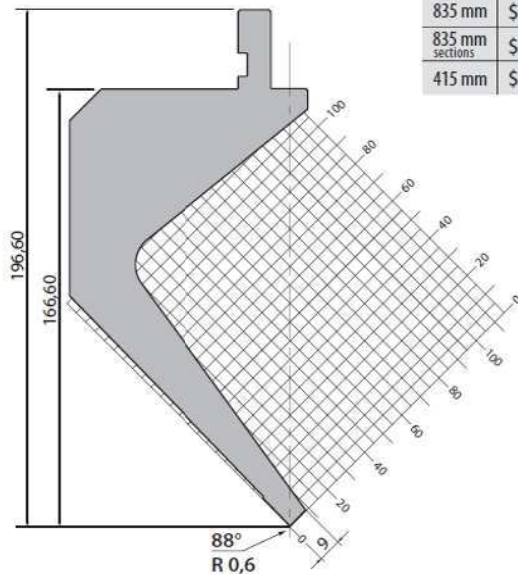
500 kN/m max.		
835 mm	\$ 600	35.0 kg
835 mm sections	\$ 700	35.0 kg
415 mm	\$ 340	17.6 kg

AP 195.88.R08



600 kN/m max.		
835 mm	\$ 720	40.8 kg
835 mm sections	\$ 820	40.8 kg
415 mm	\$ 400	20.5 kg

AP 196.88.R06



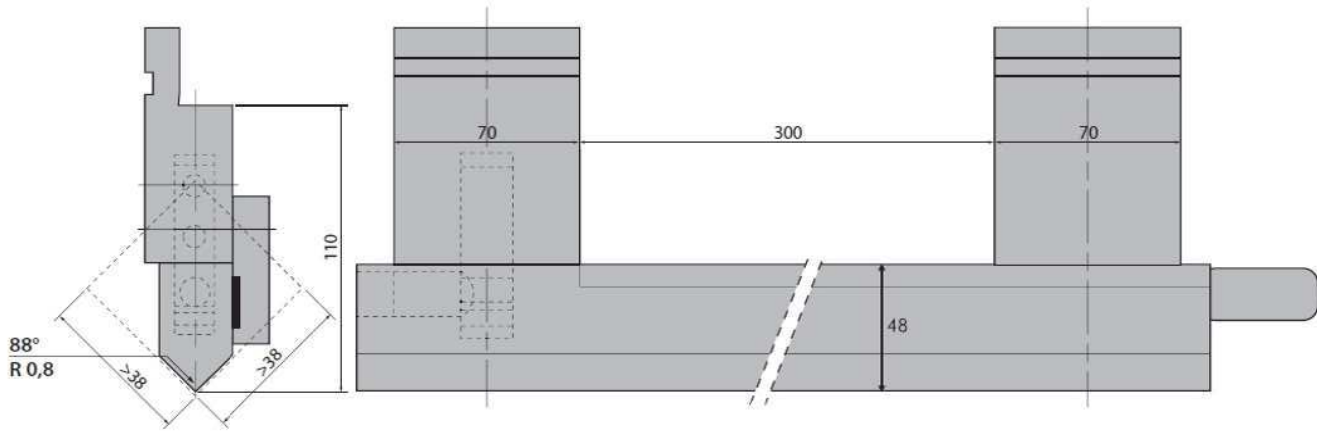
300 kN/m max.		
835 mm	\$ 750	42.0 kg
835 mm sections	\$ 850	42.0 kg
415 mm	\$ 430	20.8 kg

88° Punches for Closed Profiles



PCP88.R08

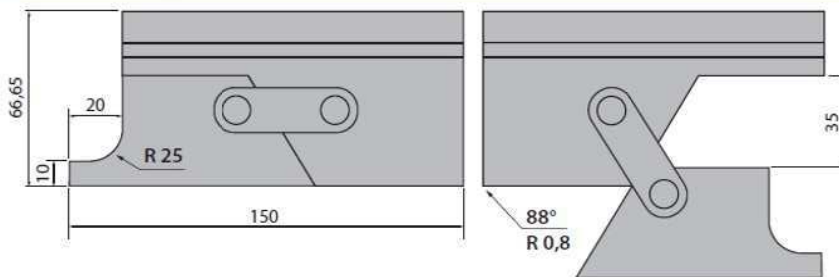
150 kN/m max.		
per set	upon request	7.0 kg



88° Segmented Punches with Mobile Horns

PMH150.88.R08

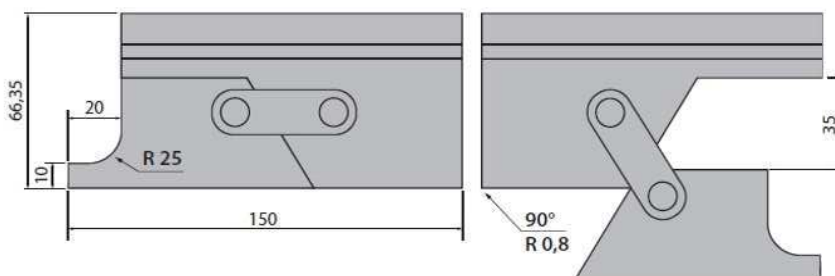
150 kN/m max.		
per set	\$ 600	3.5 kg



90° Segmented Punches with Mobile Horns

PMH150.90.R08

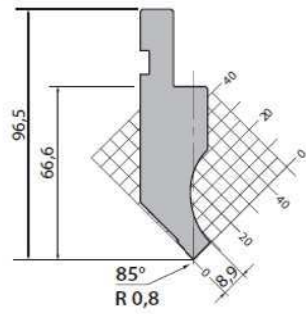
150 kN/m max.		
per set	\$ 600	3.5 kg



85° Punches

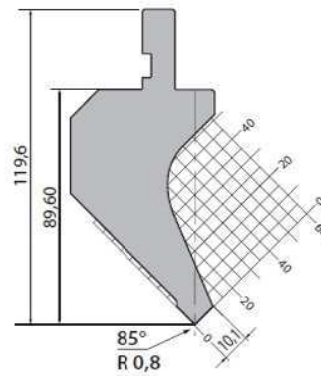


AP 97.85.R08



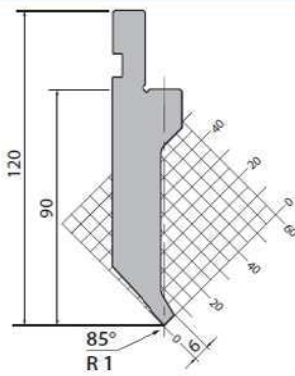
1000 kN/m max.		
835 mm	\$ 150	11.0 kg
835 mm sections	\$ 200	11.0 kg
415 mm	\$ 90	5.6 kg

AP 120.85.R08



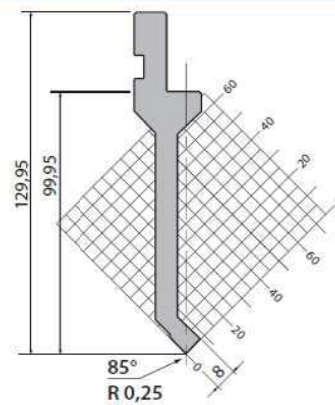
600 kN/m max.		
835 mm	\$ 250	20.8 kg
835 mm sections	\$ 300	20.8 kg
415 mm	\$ 150	10.6 kg

AP 120.85.R1



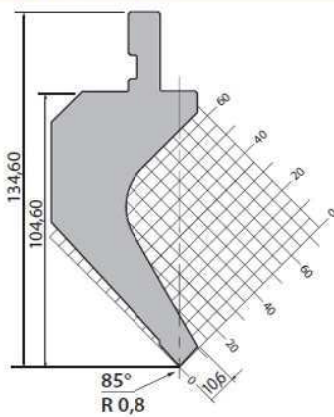
800 kN/m max.		
835 mm	\$ 180	13.6 kg
835 mm sections	\$ 230	13.6 kg
415 mm	\$ 110	6.8 kg

AP 130.85.R025



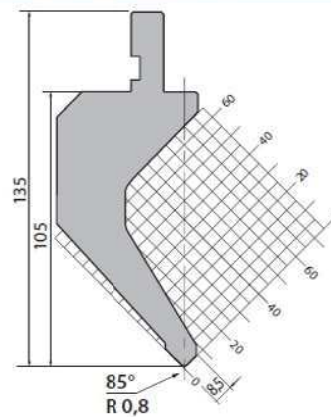
350 kN/m max.		
835 mm	\$ 190	11.4 kg
835 mm sections	\$ 240	11.4 kg
415 mm	\$ 120	5.6 kg

AP 135.85.R08



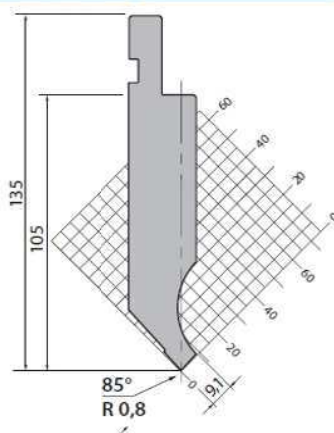
500 kN/m max.		
835 mm	\$ 290	22.0 kg
835 mm sections	\$ 340	22.0 kg
415 mm	\$ 150	11.2 kg

AP 135.85.R08S



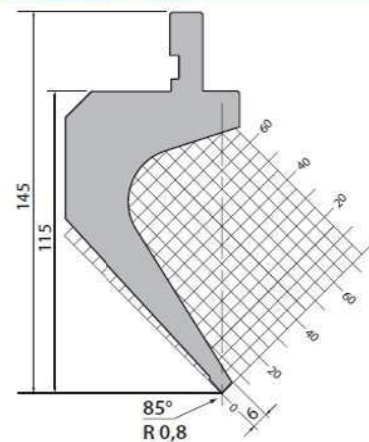
800 kN/m max.		
835 mm	\$ 340	21.0 kg
835 mm sections	\$ 390	21.0 kg
415 mm	\$ 200	10.4 kg

AP 135.85.R08T



1000 kN/m max.		
835 mm	\$ 160	17.6 kg
835 mm sections	\$ 210	17.6 kg
415 mm	\$ 100	8.6 kg

AP 145.85.R08



600 kN/m max.		
835 mm	\$ 440	22.8 kg
835 mm sections	\$ 540	22.8 kg
415 mm	\$ 250	11.2 kg

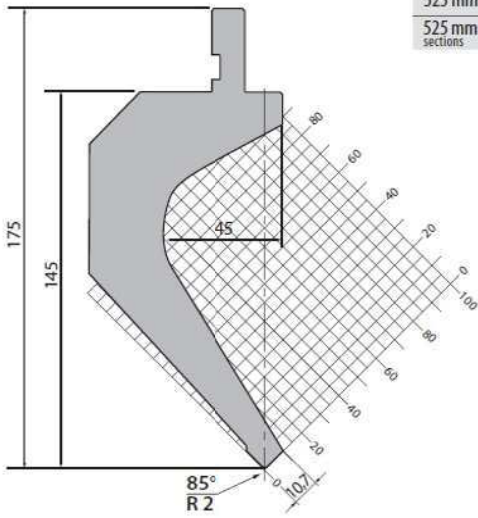
85° Punches



AP 175.85.R2

900 kN/m max.

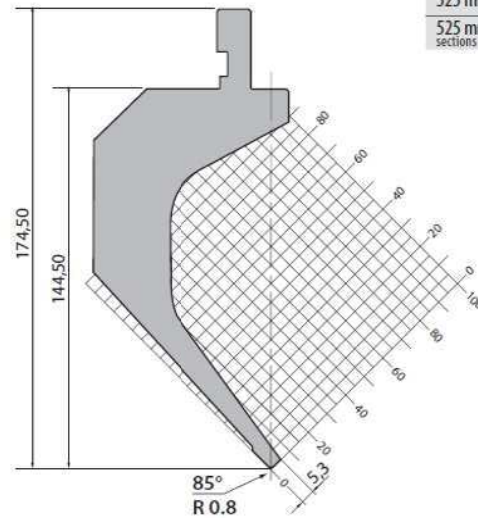
525 mm	\$ 370	21.0 kg
525 mm sections	\$ 470	21.0 kg



AP 175.85.R08

200 kN/m max.

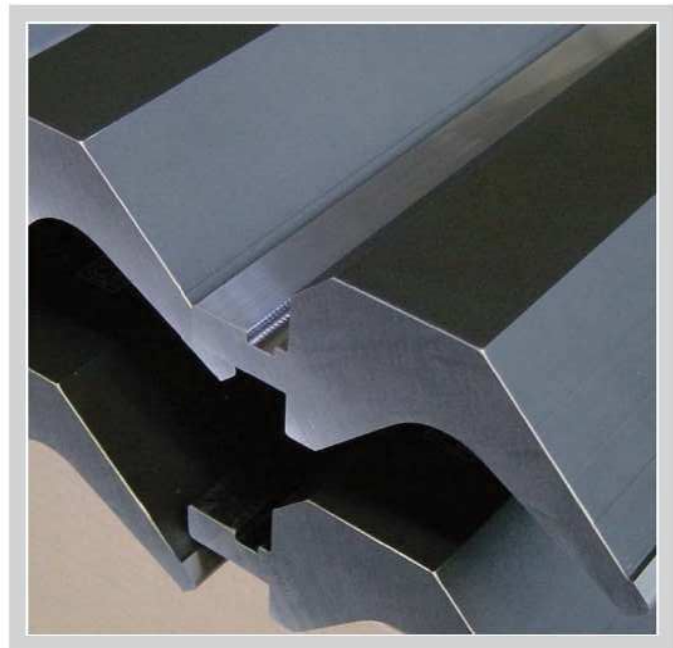
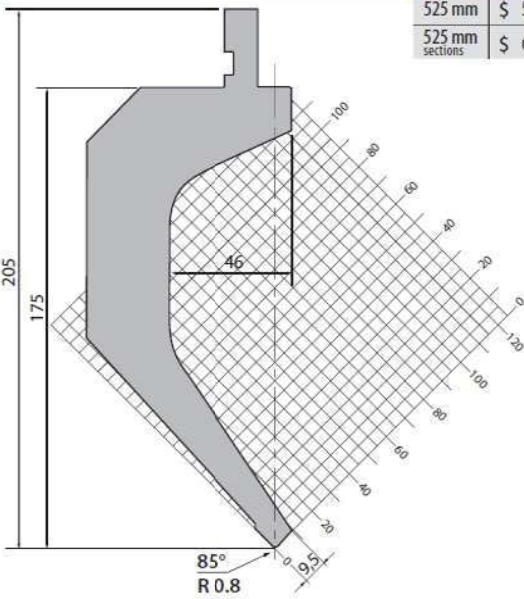
525 mm	\$ 520	18.6 kg
525 mm sections	\$ 620	18.6 kg



AP 205.85.R08

700 kN/m max.

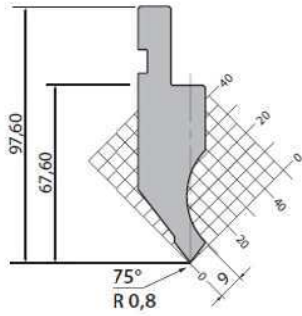
525 mm	\$ 500	24.2 kg
525 mm sections	\$ 600	24.2 kg



75° Punches

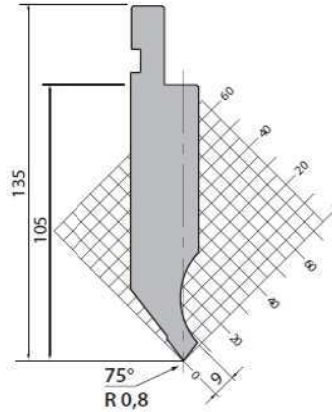


AP 97.75.R08



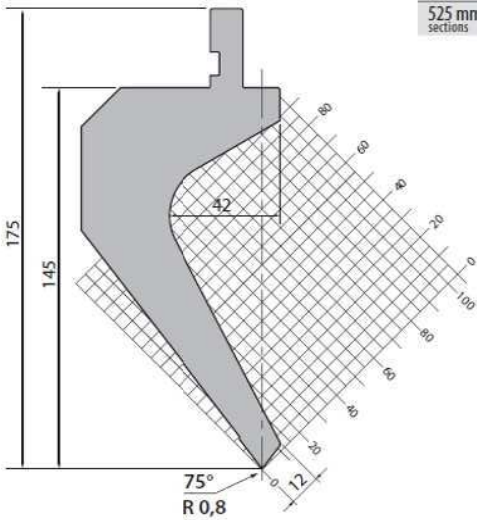
1000 kN/m max.		
835 mm	\$ 150	11.0 kg
835 mm sections	\$ 200	11.0 kg
415 mm	\$ 90	5.6 kg

AP 135.75.R08



1000 kN/m max.		
835 mm	\$ 180	17.6 kg
835 mm sections	\$ 230	17.6 kg
415 mm	\$ 110	8.6 kg

AP 175.75.R08

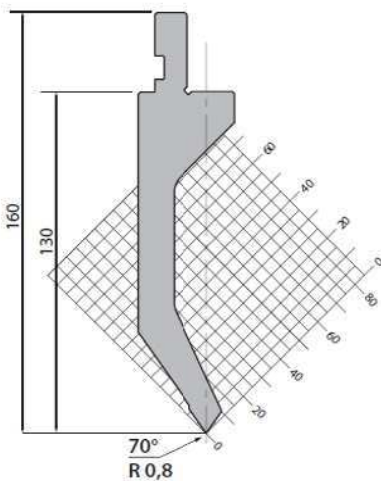


750 kN/m max.		
525 mm	\$ 450	21.4 kg
525 mm sections	\$ 550	21.4 kg

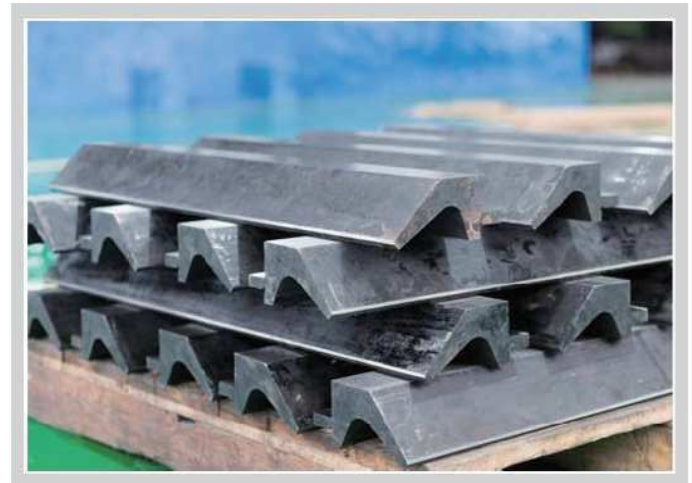


70° Punches

AP 160.70.R08



450 kN/m max.		
835 mm	\$ 320	18.0 kg
835 mm sections	\$ 420	18.0 kg
415 mm	\$ 200	8.8 kg

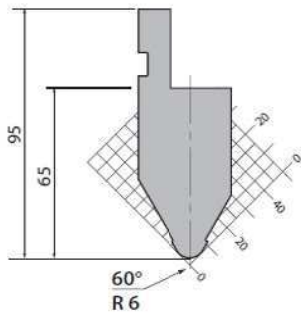


60° Punches



AP 95.60.R6

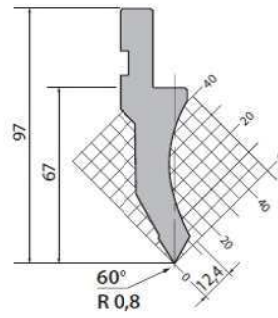
1000 kN/m max.



835 mm	\$ 160	15.0 kg
835 mm sections	\$ 210	15.0 kg
415 mm	\$ 90	7.6 kg

AP 97.60.R08

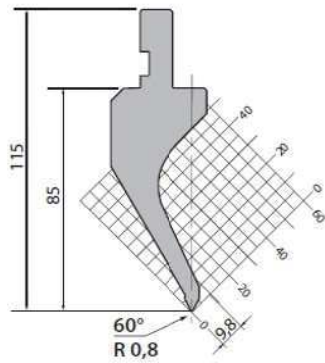
600 kN/m max.



835 mm	\$ 150	9.0 kg
835 mm sections	\$ 200	9.0 kg
415 mm	\$ 90	4.6 kg

AP 115.60.R08

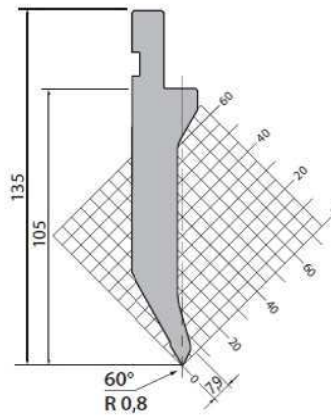
400 kN/m max.



835 mm	\$ 260	12.0 kg
835 mm sections	\$ 310	12.0 kg
415 mm	\$ 140	6.0 kg

AP 135.60.R08

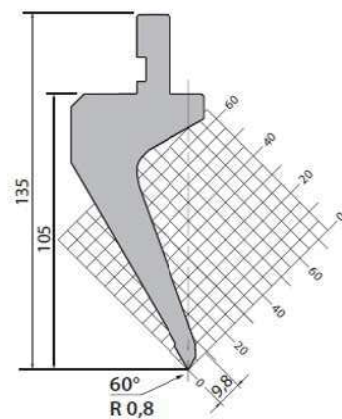
800 kN/m max.



835 mm	\$ 230	13.8 kg
835 mm sections	\$ 280	13.8 kg
415 mm	\$ 120	7.0 kg

AP 135.60.R08T

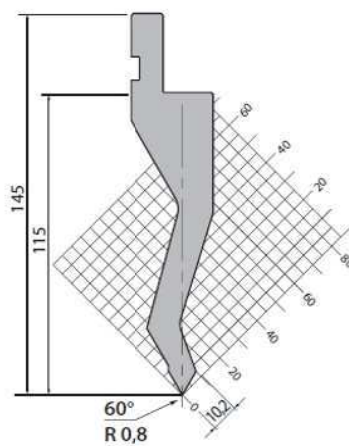
700 kN/m max.



835 mm	\$ 350	16.4 kg
835 mm sections	\$ 400	16.4 kg
415 mm	\$ 190	8.6 kg

AP 145.60.R08

700 kN/m max.



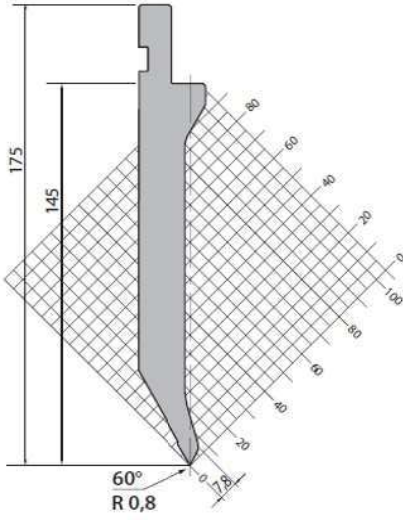
835 mm	\$ 240	15.0 kg
835 mm sections	\$ 340	15.0 kg
415 mm	\$ 140	7.6 kg

60° Punches



AP 175.60.R08

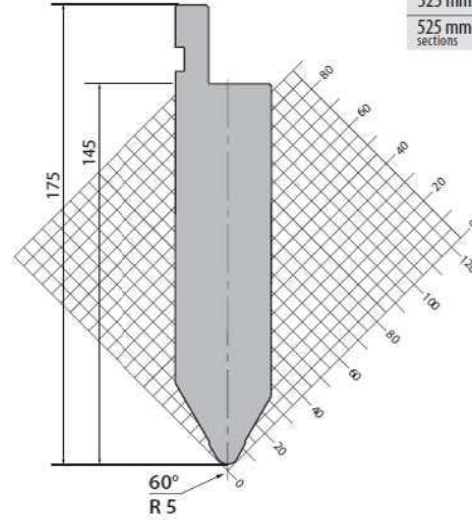
800 kN/m max.



525 mm	\$ 200	12.0 kg
525 mm SECTIONS	\$ 300	12.0 kg

AP 175.60.R5

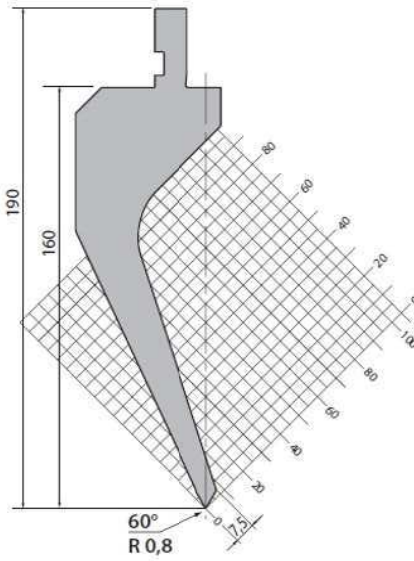
1600 kN/m max.



525 mm	\$ 230	22.0 kg
525 mm SECTIONS	\$ 330	22.0 kg

AP 190.60.R08

400 kN/m max.

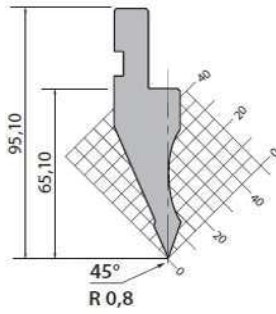


835 mm	\$ 580	42.0 kg
835 mm SECTIONS	\$ 680	42.0 kg
415 mm	\$ 310	27.5 kg

45° Punches



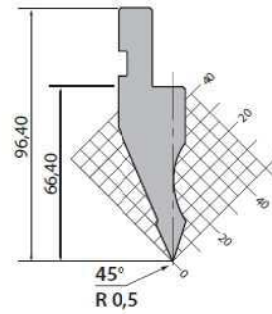
AP 95.45.R08



800 kN/m max.

835 mm	\$ 150	9.6 kg
835 mm sections	\$ 200	9.6 kg
415 mm	\$ 90	4.2 kg

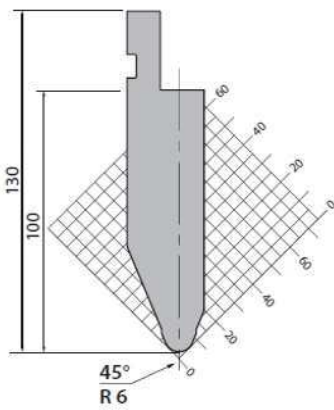
AP 97.45.R05



800 kN/m max.

835 mm	\$ 150	10.4 kg
835 mm sections	\$ 200	10.4 kg
415 mm	\$ 90	5.2 kg

AP 130.45.R6



1000 kN/m max.

835 mm	\$ 160	19.6 kg
835 mm sections	\$ 210	19.6 kg
415 mm	\$ 100	9.8 kg

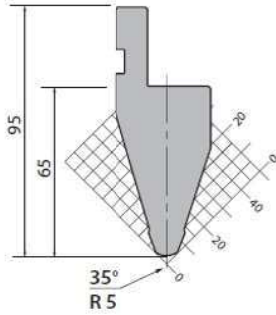


35° Punches



AP 95.35.R5

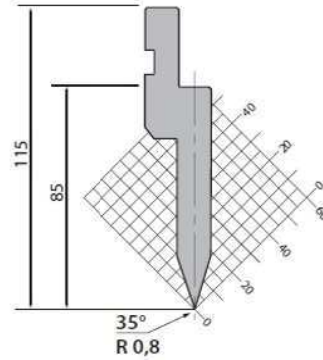
1000 kN/m max.



835 mm	\$ 150	13.6 kg
835 mm sections	\$ 200	13.6 kg
415 mm	\$ 90	7.0 kg

AP 115.35.R08

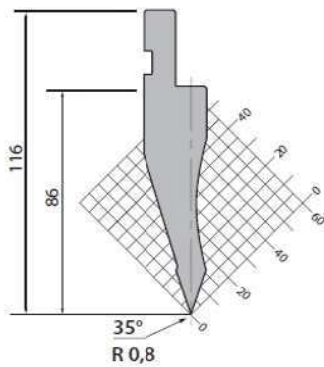
1000 kN/m max.



835 mm	\$ 150	10.8 kg
835 mm sections	\$ 200	10.8 kg
415 mm	\$ 90	5.6 kg

AP 116.35.R08

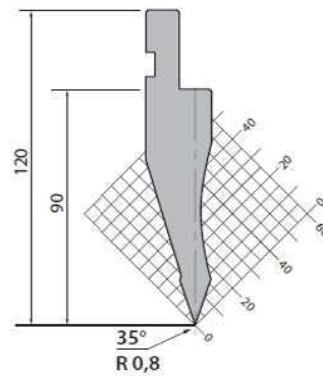
700 kN/m max.



835 mm	\$ 150	10.6 kg
835 mm sections	\$ 200	10.6 kg
415 mm	\$ 90	5.6 kg

AP 120.35.R08

700 kN/m max.

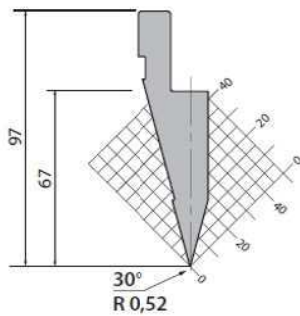


835 mm	\$ 170	12.4 kg
835 mm sections	\$ 220	12.4 kg
415 mm	\$ 110	6.0 kg

30° Punches

AP 97.30.R052

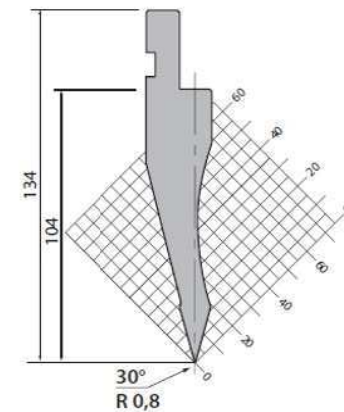
1000 kN/m max.



835 mm	\$ 160	11.0 kg
835 mm sections	\$ 210	11.0 kg
415 mm	\$ 90	5.6 kg

AP 134.30.R08

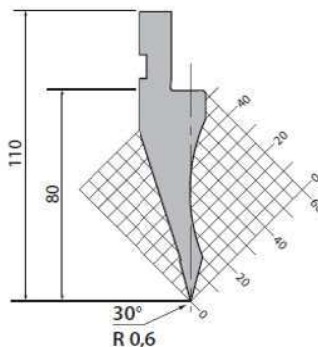
700 kN/m max.



835 mm	\$ 180	13.4 kg
835 mm sections	\$ 230	13.4 kg
415 mm	\$ 120	6.6 kg

AP 110.30.R06

500 kN/m max.



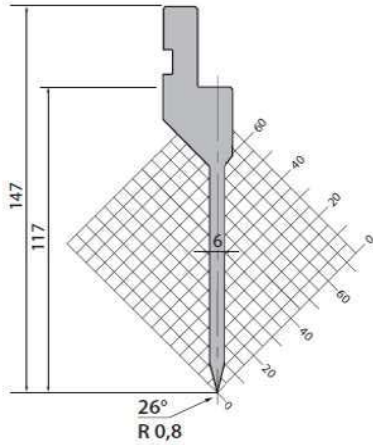
835 mm	\$ 170	10.6 kg
835 mm sections	\$ 220	10.6 kg
415 mm	\$ 110	5.2 kg

26° Punches



AP 147.26.R08

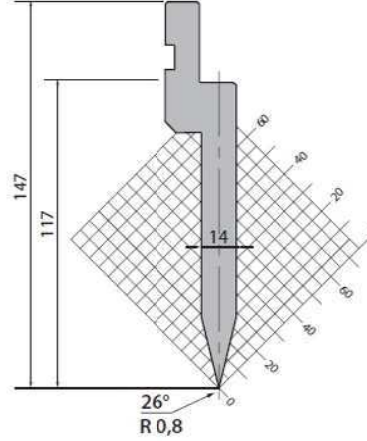
500 kN/m max.



835 mm	\$ 250	10.0 kg
835 mm sections	\$ 350	10.0 kg
415 mm	\$ 160	5.0 kg

AP 117.26.R08

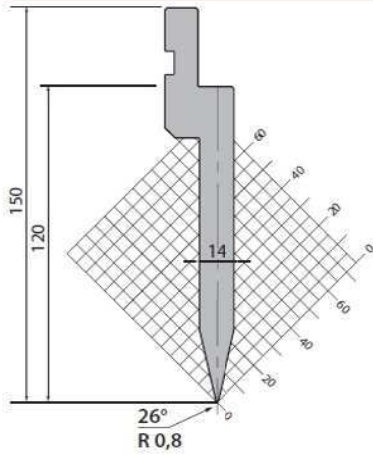
1000 kN/m max.



835 mm	\$ 190	13.6 kg
835 mm sections	\$ 240	13.6 kg
415 mm	\$ 130	6.5 kg

AP 150.26.R08

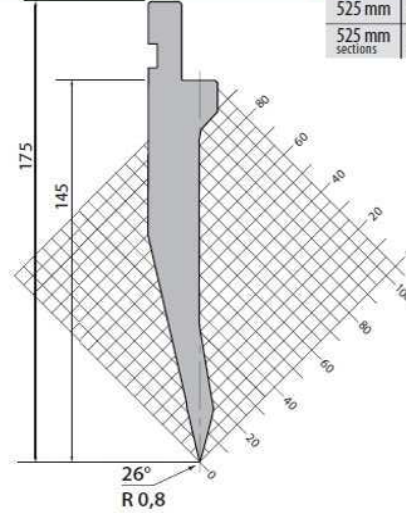
1000 kN/m max.



835 mm	\$ 220	15.0 kg
835 mm sections	\$ 320	15.0 kg
415 mm	\$ 150	6.4 kg

AP 175.26.R08

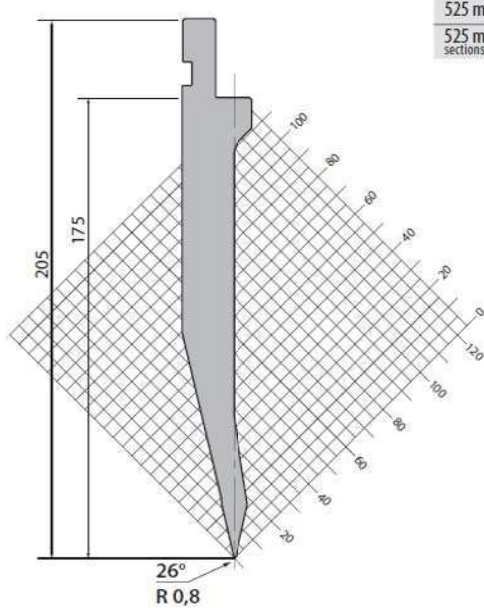
950 kN/m max.



525 mm	\$ 180	11.0 kg
525 mm sections	\$ 280	11.0 kg

AP 205.26.R08

950 kN/m max.



525 mm	\$ 250	14.0 kg
525 mm sections	\$ 350	14.0 kg

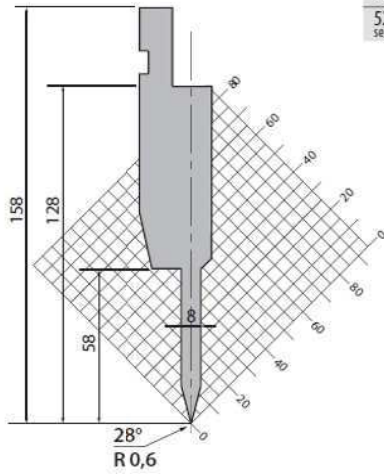
28°/24° Hemming tools



AHT 2808

800/1000 kN/m max.

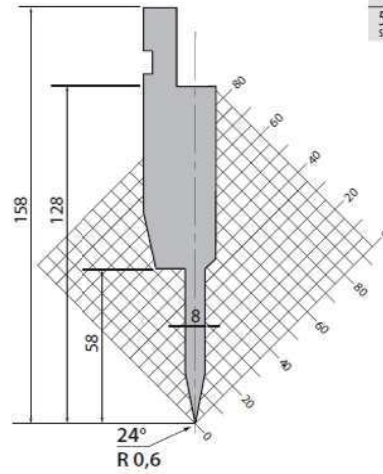
525 mm	\$ 240	11.0 kg
525 mm sections	\$ 340	11.0 kg



AHT 2408

800/1000 kN/m max.

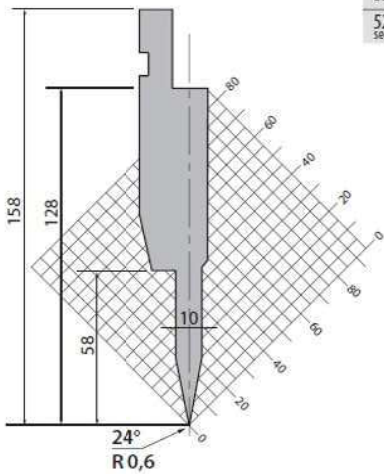
525 mm	\$ 240	11.0 kg
525 mm sections	\$ 340	11.0 kg



AHT 2410

800/1000 kN/m max.

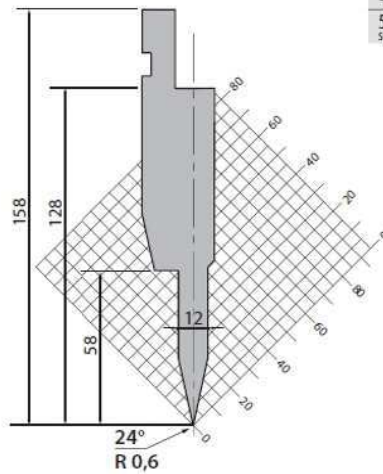
525 mm	\$ 240	11.0 kg
525 mm sections	\$ 340	11.0 kg



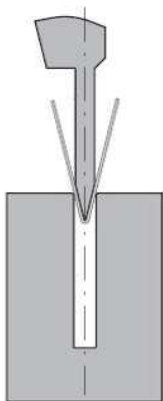
AHT 2412

800/1000 kN/m max.

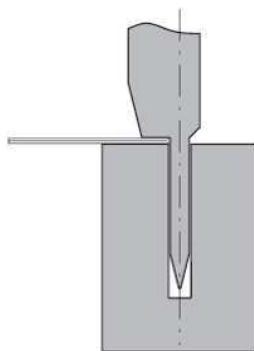
525 mm	\$ 240	11.4 kg
525 mm sections	\$ 340	11.4 kg



Example of application



800 kN/m max.



1000 kN/m max.



S (mm)	A (mm)	R.45 Kgf/mm ² t/m	R.70 Kgf/mm ² t/m
0.6	3.0	9	15
0.8	3.0	12	20
1.0	3.5	15	25
1.25	3.5	17	26

S (mm)	A (mm)	R.45 Kgf/mm ² t/m	R.70 Kgf/mm ² t/m
0.6	1.2	23	35
0.8	1.6	32	50
1.0	1.0	40	60
1.25	2.5	50	80

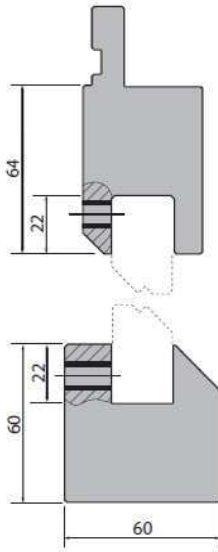
Z Type Tools



ZPT

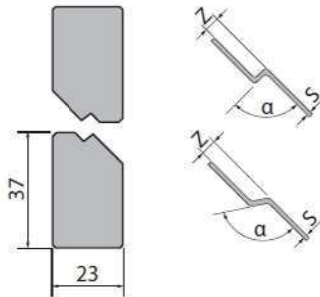
1000 kN/m max.

835 mm	\$ 450	38.0 kg
415 mm	\$ 300	18.6 kg



Z-Tool Inserts 160° / 150° / 140° / 90°

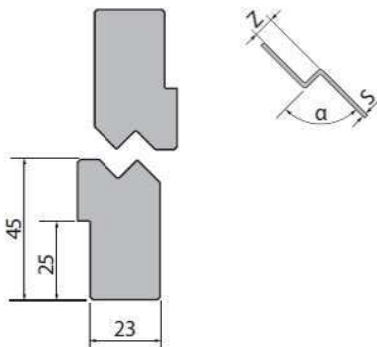
1000 kN/m max.



Model	Z (mm)	a	S* (mm)	Price	Weight	Price	Weight
AZ 1.0	1.0	160°	1.2	\$ 240	11.0 kg	\$ 140	5.5 kg
AZ 1.5	1.5	160°	1.5	\$ 240	11.0 kg	\$ 140	5.5 kg
AZ 2.0	2.0	150°	1.4	\$ 240	11.0 kg	\$ 140	5.5 kg
AZ 2.5	2.5	140°	1.3	\$ 240	11.0 kg	\$ 140	5.5 kg
AZ 1.0/90	1.0	90°	0.3	\$ 240	11.0 kg	\$ 140	5.5 kg
AZ 1.5/90	1.5	90°	0.3	\$ 240	11.0 kg	\$ 140	5.5 kg
AZ 2.0/90	2.0	90°	0.4	\$ 240	11.0 kg	\$ 140	5.5 kg
AZ 2.5/90	2.5	90°	0.5	\$ 240	11.0 kg	\$ 140	5.5 kg
AZ 3.0	3.0	90°	1.0	\$ 240	10.2 kg	\$ 140	5.1 kg
AZ 3.5	3.5	90°	1.0	\$ 240	10.0 kg	\$ 140	5.0 kg
AZ 4.0	4.0	90°	1.2	\$ 240	10.0 kg	\$ 140	5.0 kg
AZ 4.5	4.5	90°	1.2	\$ 240	10.0 kg	\$ 140	5.0 kg
AZ 5.0	5.0	90°	1.3	\$ 240	10.0 kg	\$ 140	5.0 kg
AZ 5.5	5.5	90°	1.4	\$ 240	10.0 kg	\$ 140	5.0 kg
AZ 6.0	6.0	90°	1.5	\$ 240	10.0 kg	\$ 140	5.0 kg
AZ 6.5	6.5	90°	1.5	\$ 240	10.0 kg	\$ 140	5.0 kg
AZ 7.0	7.0	90°	1.5	\$ 240	10.0 kg	\$ 140	5.0 kg
AZ 7.5	7.5	90°	1.6	\$ 240	10.0 kg	\$ 140	5.0 kg
AZ 8.0	8.0	90°	1.6	\$ 240	10.0 kg	\$ 140	5.0 kg

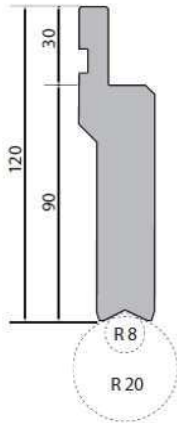
Z-Tool Inserts 90°

1000 kN/m max.



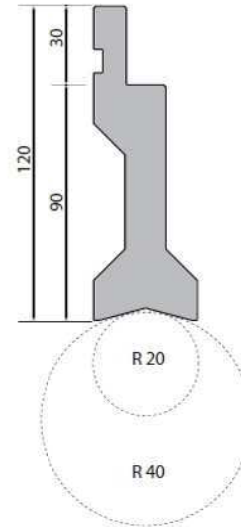
Model	Z (mm)	a	S* (mm)	Price	Weight	Price	Weight
AZ 9.0	9	90°	1.8	\$ 280	13.4 kg	\$ 160	6.4 kg
AZ 10.0	10	90°	1.8	\$ 280	13.4 kg	\$ 160	6.4 kg
AZ 11.0	11	90°	2	\$ 280	13.4 kg	\$ 160	6.4 kg
AZ 12.0	12	90°	2	\$ 280	13.4 kg	\$ 160	6.4 kg
AZ 13.0	13	90°	2	\$ 280	13.4 kg	\$ 160	6.4 kg
AZ 14.0	14	90°	2	\$ 280	13.4 kg	\$ 160	6.4 kg
AZ 15.0	15	90°	2.3	\$ 280	13.4 kg	\$ 160	6.4 kg

ART 120.08



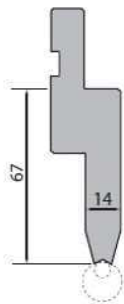
1000 kN/m max.		
525 mm	\$ 250	11.0 kg
525 mm sections	\$ 300	11.0 kg

ART 120.20



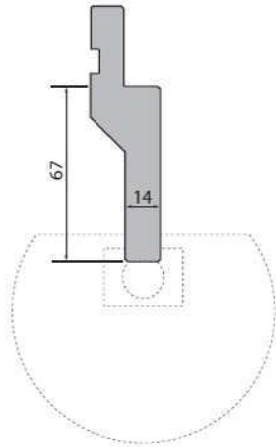
1000 kN/m max.		
525 mm	\$ 270	10.6 kg
525 mm sections	\$ 320	10.6 kg

ART 67.14S



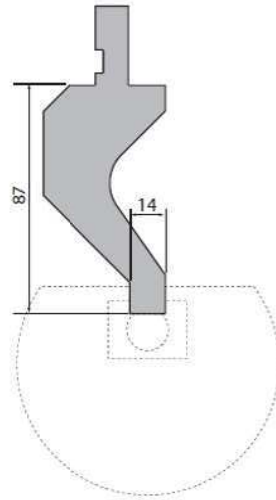
400 kN/m max.		
830 mm	\$ 200	9.8 kg
830 mm sections	\$ 250	9.8 kg
410 mm	\$ 120	5.0 kg

ART 67.14



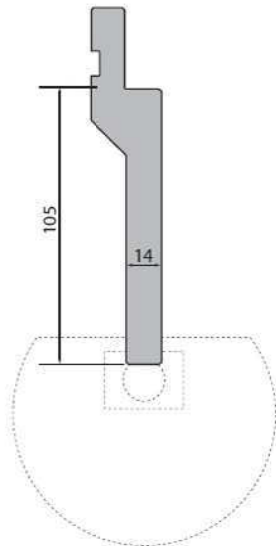
800 kN/m max.		
830 mm	\$ 100	9.0 kg
830 mm sections	\$ 150	9.0 kg
410 mm	\$ 60	4.5 kg

ART 87.14



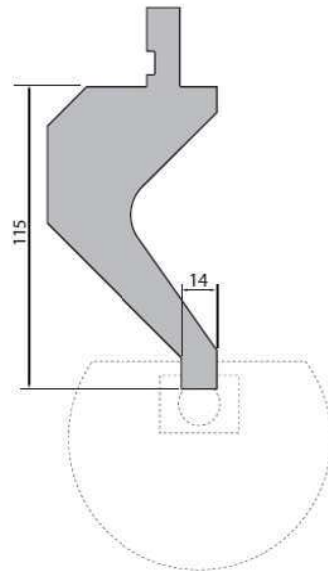
500 kN/m max.		
830 mm	\$ 340	9.0 kg
830 mm sections	\$ 390	9.0 kg
410 mm	\$ 180	4.5 kg

ART 105.14



800 kN/m max.		
830 mm	\$ 170	12.0 kg
830 mm sections	\$ 220	12.0 kg
410 mm	\$ 90	6.0 kg

ART 115.14



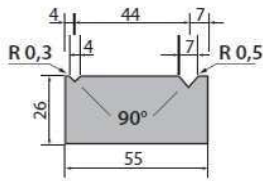
500 kN/m max.		
830 mm	\$ 450	26.0 kg
830 mm sections	\$ 500	26.0 kg
410 mm	\$ 240	13.0 kg



2-V Dies 90°

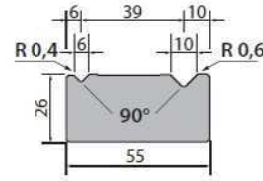


AD55.90.07



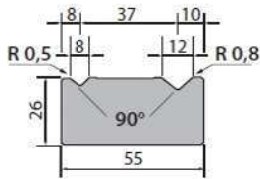
1000 kN/m max.		
835 mm	\$ 150	9.2 kg
415 mm	\$ 100	4.6 kg

AD55.90.10



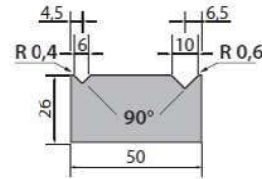
1000 kN/m max.		
835 mm	\$ 150	9.2 kg
415 mm	\$ 100	4.6 kg

AD55.90.12



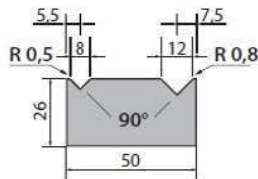
1000 kN/m max.		
835 mm	\$ 150	9.2 kg
415 mm	\$ 100	4.6 kg

AD50.90.10



700 kN/m max.		
835 mm	\$ 150	8.2 kg
415 mm	\$ 100	4.0 kg

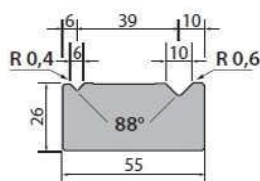
AD50.90.12



800 kN/m max.		
835 mm	\$ 150	8.2 kg
415 mm	\$ 100	4.0 kg

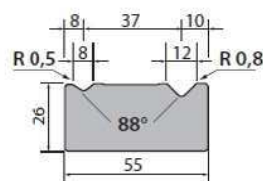
2-V Dies 88°

AD55.88.10



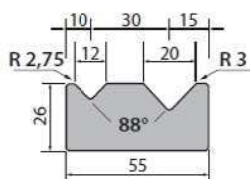
1000 kN/m max.		
835 mm	\$ 150	9.2 kg
415 mm	\$ 100	4.6 kg

AD55.88.12



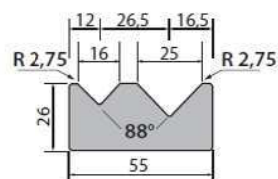
1000 kN/m max.		
835 mm	\$ 150	9.2 kg
415 mm	\$ 100	4.6 kg

AD55.88.20



1000 kN/m max.		
835 mm	\$ 150	9.2 kg
415 mm	\$ 100	4.6 kg

AD55.88.25



1000 kN/m max.		
835 mm	\$ 150	8.2 kg
415 mm	\$ 100	4.0 kg

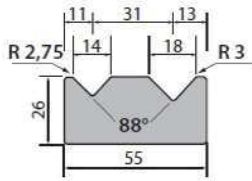
2-V Dies 88°



AD55.88.18

1000 kN/m max.

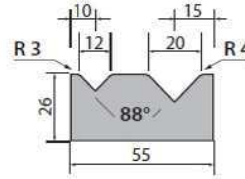
835 mm	§ 150	8.2 kg
415 mm	§ 100	4.0 kg



AD55.88.20

1000 kN/m max.

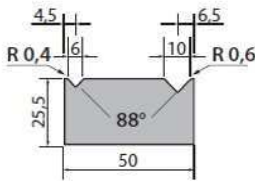
835 mm	§ 150	7.6 kg
415 mm	§ 100	3.8 kg



AD50.88.10

700 kN/m max.

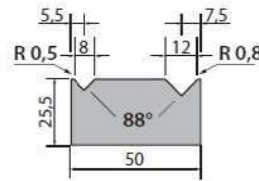
835 mm	§ 150	8.2 kg
415 mm	§ 100	4.0 kg



AD50.88.12

800 kN/m max.

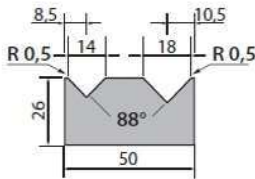
835 mm	§ 150	8.2 kg
415 mm	§ 100	4.0 kg



AD50.88.18

1000 kN/m max.

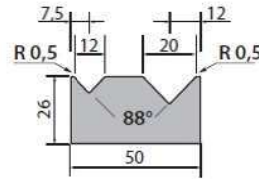
835 mm	§ 150	7.8 kg
415 mm	§ 100	3.8 kg



AD50.88.20

1000 kN/m max.

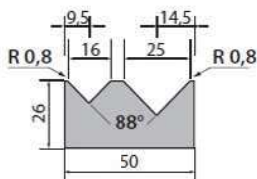
835 mm	§ 150	7.8 kg
415 mm	§ 100	3.8 kg



AD50.88.25

700 kN/m max.

835 mm	§ 150	7.2 kg
415 mm	§ 100	3.5 kg



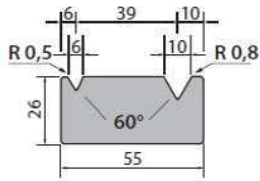
2-V Dies 60°



AD55.60.10

600 kN/m max.

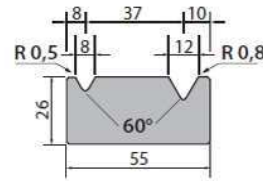
835 mm	\$ 150	9.2 kg
415 mm	\$ 100	4.5 kg



AD55.60.12

800 kN/m max.

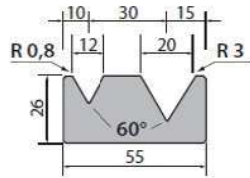
835 mm	\$ 150	9.2 kg
415 mm	\$ 100	4.5 kg



AD55.60.20

800 kN/m max.

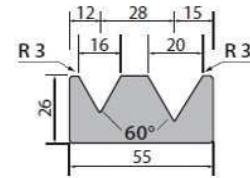
835 mm	\$ 150	8.2 kg
415 mm	\$ 100	4.0 kg



AD55.60.20S

800 kN/m max.

835 mm	\$ 150	8.2 kg
415 mm	\$ 100	4.0 kg

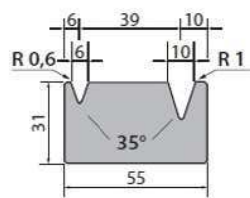


2-V Dies 35°

AD55.35.10

300 kN/m max.

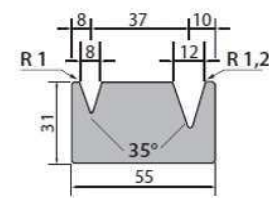
835 mm	\$ 160	11.2 kg
415 mm	\$ 110	5.6 kg



AD55.35.12

300 kN/m max.

835 mm	\$ 160	11.2 kg
415 mm	\$ 110	5.6 kg

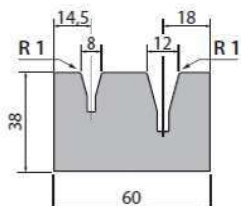


2-V Dies 30°

AD60.30.12

300 kN/m max.

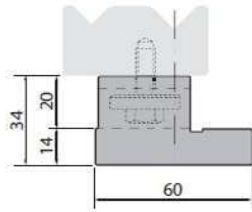
835 mm	\$ 160	13.6 kg
415 mm	\$ 110	5.8 kg



Die Holders for 2-V Dies

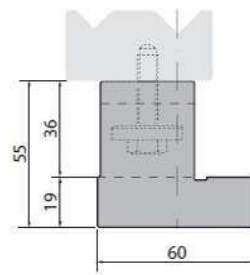


ADH34



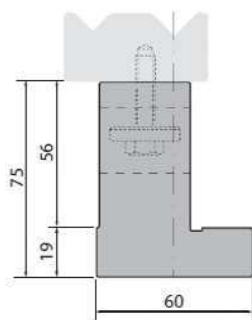
830 mm	§ 160	9.2 kg
410 mm	§ 100	4.6 kg

ADH55



830 mm	§ 160	14.6 kg
410 mm	§ 100	7.3 kg

ADH75



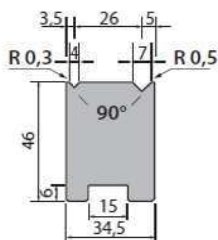
830 mm	§ 220	20.8 kg
410 mm	§ 140	10.3 kg



Self Centering 2-V Dies 90°

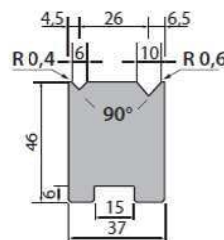


AD46.90.07



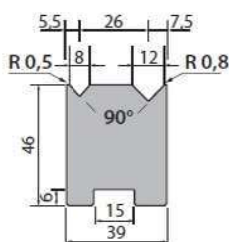
800 kN/m max.		
835 mm	\$ 150	9.8 kg
835 mm sections	\$ 200	9.8 kg
415 mm	\$ 110	4.8 kg

AD46.90.10



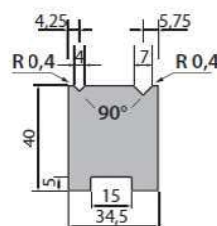
800 kN/m max.		
835 mm	\$ 150	10.4 kg
835 mm sections	\$ 200	10.4 kg
415 mm	\$ 110	5.2 kg

AD46.90.12



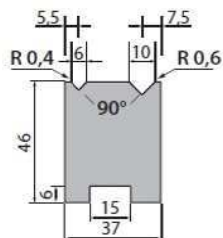
800 kN/m max.		
835 mm	\$ 150	10.2 kg
835 mm sections	\$ 200	10.2 kg
415 mm	\$ 110	5.0 kg

AD40.90.07



600 kN/m max.		
835 mm	\$ 150	9.8 kg
835 mm sections	\$ 200	9.8 kg
415 mm	\$ 110	4.8 kg

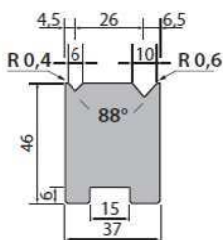
AD46.90.10S



700 kN/m max.		
835 mm	\$ 150	10.8 kg
835 mm sections	\$ 200	10.8 kg
415 mm	\$ 110	5.4 kg

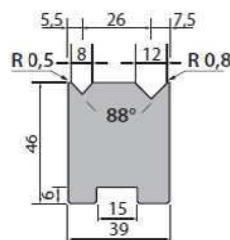
Self Centering 2-V Dies 88°

AD46.88.10



800 kN/m max.		
835 mm	\$ 150	10.4 kg
835 mm sections	\$ 200	10.4 kg
415 mm	\$ 110	5.3 kg

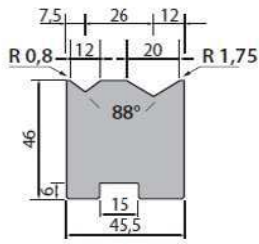
AD46.88.12



800 kN/m max.		
835 mm	\$ 150	11.2 kg
835 mm sections	\$ 200	11.2 kg
415 mm	\$ 110	5.6 kg

Self Centering 2-V Dies 88°

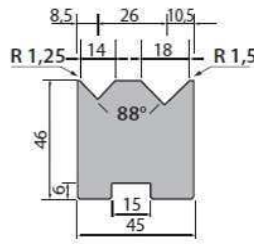
AD46.88.20



800 kN/m max.

835 mm	\$ 150	12.2 kg
835 mm sections	\$ 200	12.2 kg
415 mm	\$ 110	6.0 kg

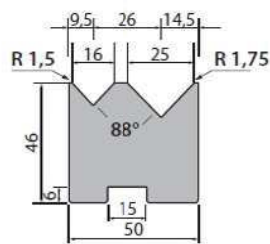
AD46.88.18



800 kN/m max.

835 mm	\$ 150	12.8 kg
835 mm sections	\$ 200	12.8 kg
415 mm	\$ 110	6.3 kg

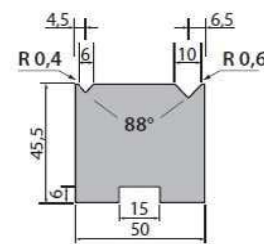
AD46.88.25



800 kN/m max.

835 mm	\$ 150	13.2 kg
835 mm sections	\$ 200	13.2 kg
415 mm	\$ 110	6.5 kg

AD455.88.10

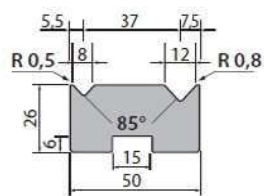


700 kN/m max.

835 mm	\$ 150	17.4 kg
835 mm sections	\$ 200	17.4 kg
415 mm	\$ 110	8.6 kg

Self Centering 2-V Dies 85°

AD26.85.12

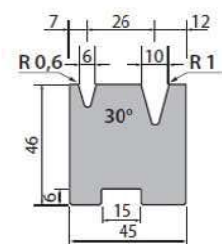


1000 kN/m max.

835 mm	\$ 220	9.2 kg
835 mm sections	\$ 270	9.2 kg
415 mm	\$ 140	4.6 kg

Self Centering 2-V Dies 30°

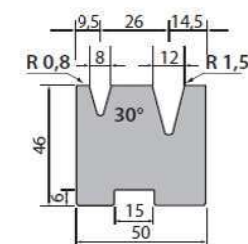
AD46.30.10



400 kN/m max.

835 mm	\$ 180	12.4 kg
835 mm sections	\$ 230	12.4 kg
415 mm	\$ 120	6.2 kg

AD46.30.12



400 kN/m max.

835 mm	\$ 180	13.4 kg
835 mm sections	\$ 230	13.4 kg
415 mm	\$ 120	6.6 kg

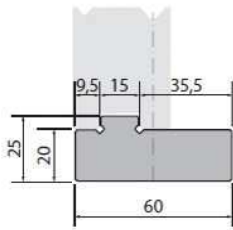
Die Holders for Self Centering 2-V Dies



ADH6025

1000 kN/m max.

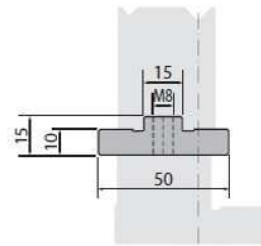
835 mm	\$ 120	7.6 kg
415 mm	\$ 80	3.8 kg



ADH5015

1000 kN/m max.

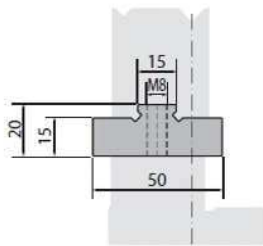
835 mm	\$ 100	4.0 kg
415 mm	\$ 60	2.0 kg



ADH5020

1000 kN/m max.

835 mm	\$ 100	5.6 kg
415 mm	\$ 60	2.8 kg

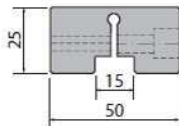


Clamping Piece for Self Centering 2-V Dies

CP5025

1000 kN/m max.

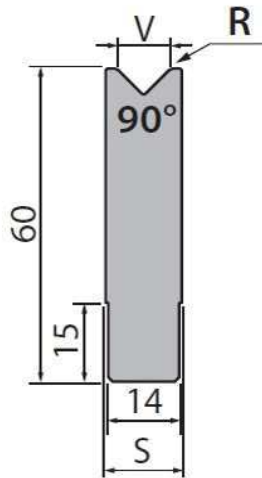
Pair	\$ 30	0.2 kg
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Self Centering 1-V Dies 90°



H=60 mm



950 kN/m max.

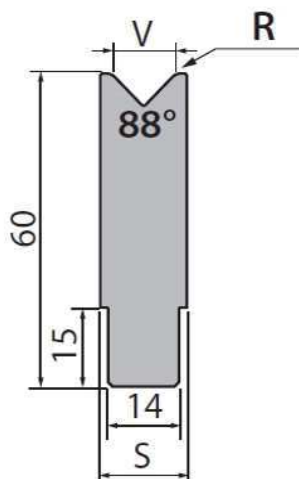
Model	V (mm)	R (mm)	S (mm)	Price	Weight	Price	Weight
AD60.90.06	6	1.5	14	\$ 180	5.6 kg	\$ 130	2.8 kg
AD60.90.08	8	1.5	14	\$ 180	5.6 kg	\$ 130	2.8 kg
AD60.90.10	10	2.0	15	\$ 180	6.0 kg	\$ 130	3.0 kg
AD60.90.12	12	2.5	15	\$ 180	6.0 kg	\$ 130	3.0 kg

835 mm

415 mm

Self Centering 1-V Dies 88°

H=60 mm



1000 kN/m max.

Model	V (mm)	R (mm)	S (mm)	Price	Weight	Price	Weight
AD60.88.04	4	0.6	14	\$ 150	5.3 kg	\$ 100	2.6 kg
AD60.88.06	6	0.8	14	\$ 150	5.3 kg	\$ 100	2.6 kg
AD60.88.08	8	1.0	14	\$ 150	5.3 kg	\$ 100	2.6 kg
AD60.88.10	10	1.2	18	\$ 150	5.7 kg	\$ 100	2.8 kg
AD60.88.12	12	1.5	18	\$ 150	6.1 kg	\$ 100	3.0 kg
AD60.88.16	16	2.0	24	\$ 160	7.0 kg	\$ 110	3.5 kg
AD60.88.20	20	2.0	30	\$ 160	7.9 kg	\$ 110	4.0 kg
AD60.88.25	25	3.0	35	\$ 160	9.1 kg	\$ 110	4.6 kg

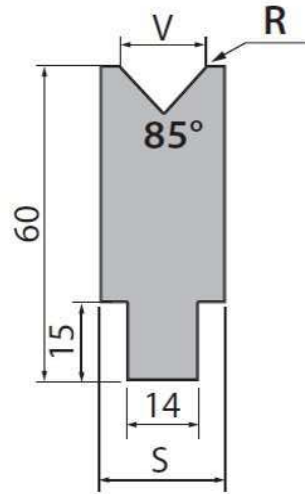
835 mm

415 mm

Self Centering 1-V Dies 85°



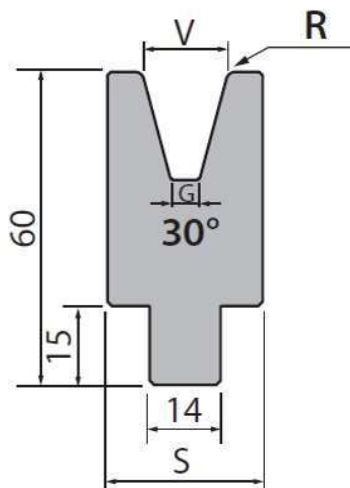
H=60 mm



Model	V (mm)	R (mm)	S (mm)	1000 kN/m max.			
				Price	Weight	Price	Weight
AD60.85.04	4	0.6	14	\$ 150	5.4 kg	\$ 100	2.7 kg
AD60.85.06	6	0.8	14	\$ 150	5.4 kg	\$ 100	2.7 kg
AD60.85.08	8	1.0	14	\$ 150	5.4 kg	\$ 100	2.7 kg
AD60.85.10	10	1.2	18	\$ 150	5.6 kg	\$ 100	2.8 kg
AD60.85.12	12	1.5	18	\$ 150	6.2 kg	\$ 100	3.1 kg
AD60.85.16	16	2.0	24	\$ 160	7.2 kg	\$ 110	3.6 kg
AD60.85.20	20	2.0	30	\$ 160	8.0 kg	\$ 110	4.0 kg
AD60.85.25	25	3.0	35	\$ 160	9.0 kg	\$ 110	4.5 kg

Self Centering 1-V Dies 30°

H=60 mm/65 mm



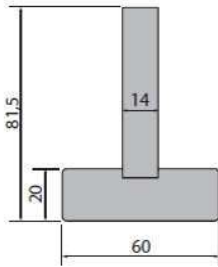
Model	V (mm)	R (mm)	G (mm)	S (mm)	500 kN/m max.			
					Price	Weight	Price	Weight
AD60.30.06	6	0.6	-	14	\$ 160	6.0 kg	\$ 110	3.0 kg
AD60.30.08	8	0.8	2	18	\$ 160	6.6 kg	\$ 110	3.3 kg
AD60.30.10	10	1.0	2	24	\$ 160	7.8 kg	\$ 110	3.9 kg
AD60.30.12	12	1.5	2	24	\$ 160	7.8 kg	\$ 110	3.9 kg
AD60.30.16	16	2.0	5	30	\$ 170	8.8 kg	\$ 120	4.7 kg
AD60.30.20	20	2.5	5	35	\$ 170	16.0 kg	\$ 120	8.0 kg
AD60.30.25	25	3.0	8	45	\$ 170	13.0 kg	\$ 120	6.4 kg

Die Holders for Self Centering 1-V Dies

ADH815

1000 kN/m max.

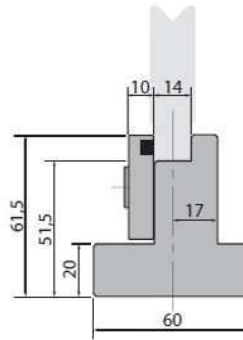
835 mm	\$ 180	12.8 kg
415 mm	\$ 120	6.4 kg



ADH615A

1000 kN/m max.

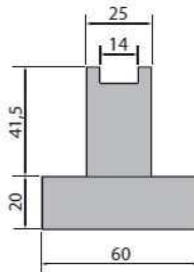
835 mm	\$ 230	15.0 kg
415 mm	\$ 140	7.4 kg



ADH615B

950 kN/m max.

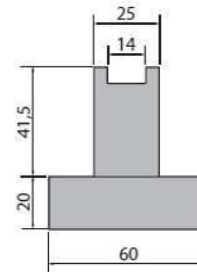
1050 mm	\$ 300	17.6 kg
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ADH615C

950 kN/m max.

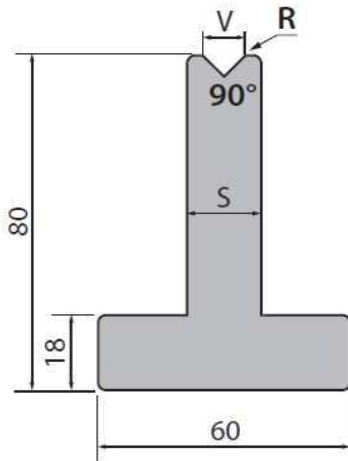
1260 mm	\$ 320	21.6 kg
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T-Dies 90°

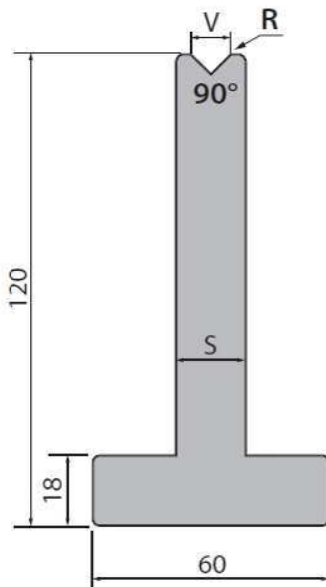


H=80 mm



				1000 kN/m max.			
Model	V (mm)	R (mm)	S (mm)	Price	Weight	Price	Weight
TD80.90.06	6	0.4	14	\$ 220	13.0 kg	\$ 130	6.6 kg
TD80.90.08	8	0.5	14	\$ 220	13.0 kg	\$ 130	6.6 kg
TD80.90.10	10	0.6	18	\$ 220	14.2 kg	\$ 130	7.0 kg
TD80.90.12	12	0.8	18	\$ 220	15.0 kg	\$ 130	7.6 kg

H=120 mm

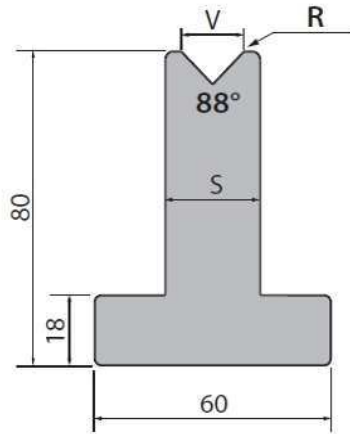


				1000 kN/m max.			
Model	V (mm)	R (mm)	S (mm)	Price	Weight	Price	Weight
TD120.90.06	6	0.4	14	\$ 310	16.4 kg	\$ 180	8.2 kg
TD120.90.08	8	0.5	14	\$ 310	16.4 kg	\$ 180	8.2 kg
TD120.90.10	10	0.6	18	\$ 310	19.2 kg	\$ 180	9.5 kg
TD120.90.12	12	0.8	18	\$ 310	19.2 kg	\$ 180	9.5 kg

T-Dies 88°

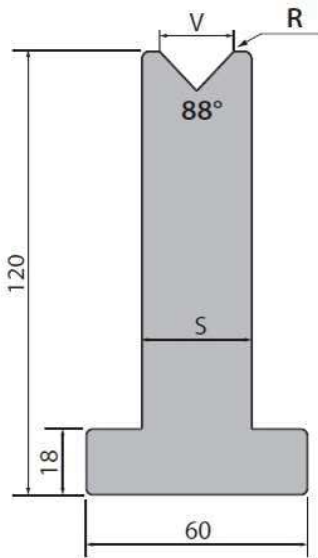


H=80 mm



				1000 kN/m max.			
Model	V (mm)	R (mm)	S (mm)	Price	Weight	Price	Weight
TD80.88.06	6	0.4	14	\$ 220	13.2 kg	\$ 130	6.5 kg
TD80.88.06S	6	2.75	14	\$ 220	13.2 kg	\$ 130	6.5 kg
TD80.88.08	8	0.5	14	\$ 220	12.4 kg	\$ 130	6.2 kg
TD80.88.08S	8	2.75	14	\$ 220	13.2 kg	\$ 130	6.5 kg
TD80.88.10	10	0.8	18	\$ 220	14.0 kg	\$ 130	7.0 kg
TD80.88.10S	10	2.75	18	\$ 220	15.2 kg	\$ 130	7.6 kg
TD80.88.12	12	2.75	18	\$ 220	14.2 kg	\$ 130	7.1 kg
TD80.88.16	16	2.75	24	\$ 220	16.4 kg	\$ 130	8.2 kg
TD80.88.20	20	3.0	30	\$ 220	18.6 kg	\$ 130	9.3 kg
TD80.88.25	25	3.0	35	\$ 220	20.6 kg	\$ 130	10.2 kg

H=120 mm

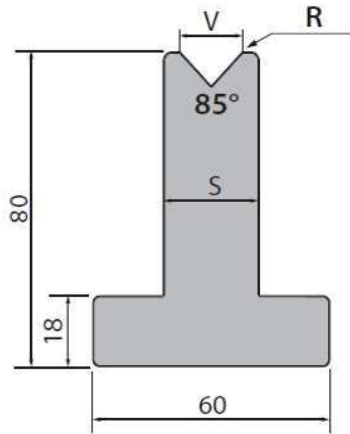


				1000 kN/m max.			
Model	V (mm)	R (mm)	S (mm)	Price	Weight	Price	Weight
TD120.88.06	6	0.4	14	\$ 310	16.2 kg	\$ 180	8.1 kg
TD120.88.06S	6	2.75	14	\$ 310	16.2 kg	\$ 180	8.1 kg
TD120.88.08	8	0.5	14	\$ 310	16.2 kg	\$ 180	8.1 kg
TD120.88.08S	8	2.75	14	\$ 310	16.2 kg	\$ 180	8.1 kg
TD120.88.10	10	0.8	18	\$ 310	19.4 kg	\$ 180	9.6 kg
TD120.88.10S	10	2.75	18	\$ 310	18.0 kg	\$ 180	9.0 kg
TD120.88.12	12	2.75	18	\$ 310	19.0 kg	\$ 180	9.0 kg
TD120.88.16	16	2.75	24	\$ 310	22.4 kg	\$ 180	11.0 kg
TD120.88.20	20	3.0	30	\$ 310	27.4 kg	\$ 180	13.5 kg
TD120.88.25	25	3.0	35	\$ 310	30.5 kg	\$ 180	15.0 kg

T-Dies 85°

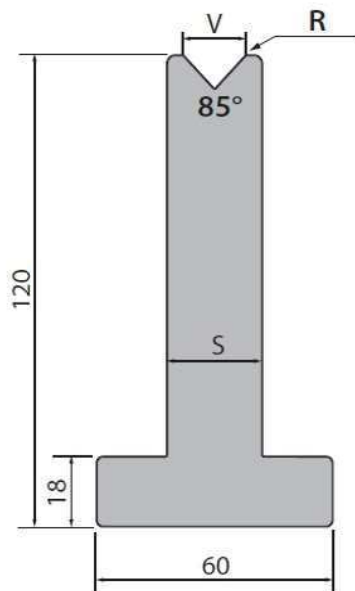


H=80 mm



				1000 kN/m max.			
Model	V (mm)	R (mm)	S (mm)	Price	Weight	Price	Weight
TD80.85.06	6	2.75	14	\$ 220	13.0 kg	\$ 130	6.5 kg
TD80.85.08	8	2.75	14	\$ 220	12.4 kg	\$ 130	6.2 kg
TD80.85.10	10	2.75	18	\$ 220	14.4 kg	\$ 130	7.2 kg
TD80.85.12	12	2.75	18	\$ 220	14.4 kg	\$ 130	7.2 kg
TD80.85.16	16	2.75	24	\$ 220	16.6 kg	\$ 130	8.3 kg
TD80.85.20	20	3.0	30	\$ 220	19.0 kg	\$ 130	9.5 kg
TD80.85.25	25	3.0	35	\$ 220	20.0 kg	\$ 130	10.0 kg

H=120 mm

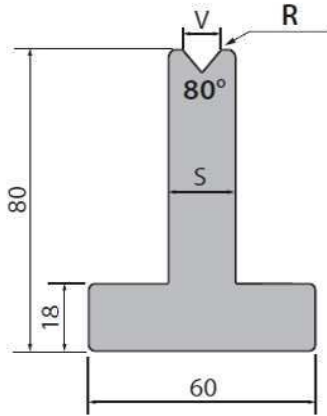


				1000 kN/m max.			
Model	V (mm)	R (mm)	S (mm)	Price	Weight	Price	Weight
TD120.85.06	6	2.75	14	\$ 310	16.2 kg	\$ 180	8.0 kg
TD120.85.08	8	2.75	14	\$ 310	16.2 kg	\$ 180	8.0 kg
TD120.85.10	10	2.75	18	\$ 310	19.0 kg	\$ 180	9.5 kg
TD120.85.12	12	2.75	18	\$ 310	19.0 kg	\$ 180	9.5 kg
TD120.85.16	16	2.75	24	\$ 310	22.8 kg	\$ 180	11.4 kg
TD120.85.20	20	3.0	30	\$ 310	26.5 kg	\$ 180	13.2 kg
TD120.85.25	25	3.0	35	\$ 310	30.0 kg	\$ 180	15.0 kg

T-Dies 80°

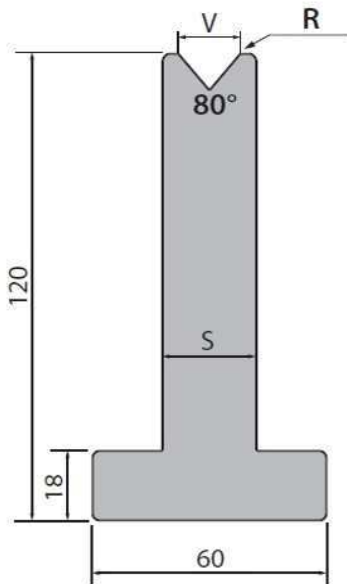


H=80 mm



				950 kN/m max.			
Model	V (mm)	R (mm)	S (mm)	Price	Weight	Price	Weight
TD80.80.06	6	2.75	14	\$ 220	13.2 kg	\$ 130	6.5 kg
TD80.80.08	8	2.75	14	\$ 220	13.2 kg	\$ 130	6.5 kg
TD80.80.10	10	2.75	18	\$ 220	13.2 kg	\$ 130	6.5 kg
TD80.80.12	12	2.75	18	\$ 220	13.2 kg	\$ 130	6.5 kg
TD80.80.16	16	2.75	24	\$ 220	13.2 kg	\$ 130	6.5 kg
TD80.80.20	20	3.0	30	\$ 220	17.2 kg	\$ 130	8.5 kg
TD80.80.25	25	3.0	35	\$ 220	20.4 kg	\$ 130	10.0 kg

H=120 mm

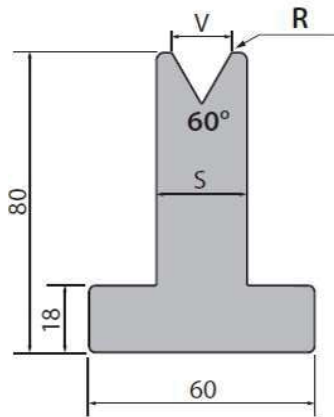


				950 kN/m max.			
Model	V (mm)	R (mm)	S (mm)	Price	Weight	Price	Weight
TD120.85.06	6	2.75	14	\$ 310	18.0 kg	\$ 180	9.0 kg
TD120.85.08	8	2.75	14	\$ 310	18.0 kg	\$ 180	9.0 kg
TD120.85.10	10	2.75	18	\$ 310	18.0 kg	\$ 180	9.0 kg
TD120.85.12	12	2.75	18	\$ 310	18.0 kg	\$ 180	9.0 kg
TD120.85.16	16	2.75	24	\$ 310	18.0 kg	\$ 180	9.0 kg
TD120.85.20	20	3.0	30	\$ 310	26.4 kg	\$ 180	13.2 kg
TD120.85.25	25	3.0	35	\$ 310	30.0 kg	\$ 180	15.0 kg

T-Dies 60°

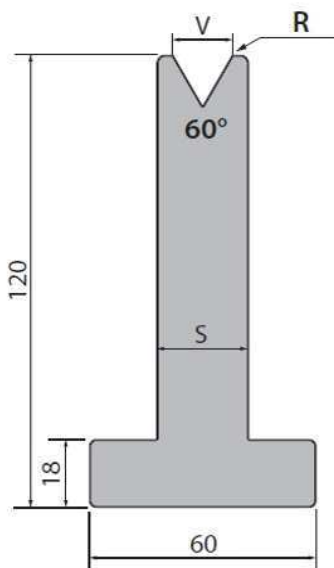


H=80 mm



				600 kN/m max.			
Model	V (mm)	R (mm)	S (mm)	Price	Weight	Price	Weight
TD80.60.06	6	0.5	14	\$ 220	13.2 kg	\$ 130	6.6 kg
TD80.60.06S	6	1.5	14	\$ 270	13.2 kg	\$ 160	6.6 kg
TD80.60.08	8	0.8	14	\$ 220	13.2 kg	\$ 130	6.6 kg
TD80.60.08S	8	1.5	14	\$ 270	13.2 kg	\$ 160	6.6 kg
TD80.60.10	10	0.8	18	\$ 220	14.6 kg	\$ 130	7.3 kg
TD80.60.10S	10	2.75	18	\$ 270	15.0 kg	\$ 160	7.5 kg
TD80.60.12	12	0.8	18	\$ 220	14.0 kg	\$ 130	7.0 kg
TD80.60.12S	12	2.75	18	\$ 270	15.0 kg	\$ 160	7.5 kg
TD80.60.16	16	2.75	24	\$ 230	15.6 kg	\$ 140	8.7 kg
TD80.60.20	20	3.0	30	\$ 230	18.0 kg	\$ 140	9.5 kg
TD80.60.25	25	3.0	35	\$ 230	19.5 kg	\$ 140	10.0 kg

H=120 mm

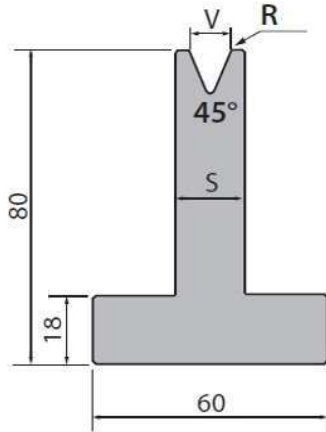


				600 kN/m max.			
Model	V (mm)	R (mm)	S (mm)	Price	Weight	Price	Weight
TD120.60.06	6	0.5	14	\$ 310	16.2 kg	\$ 180	8.1 kg
TD120.60.06S	6	1.5	14	\$ 360	16.2 kg	\$ 220	8.1 kg
TD120.60.08	8	0.8	14	\$ 310	16.2 kg	\$ 180	8.1 kg
TD120.60.08S	8	1.5	14	\$ 360	16.2 kg	\$ 220	8.1 kg
TD120.60.10	10	0.8	18	\$ 310	18.6 kg	\$ 180	9.3 kg
TD120.60.10S	10	2.75	18	\$ 360	18.0 kg	\$ 220	9.0 kg
TD120.60.12	12	0.8	18	\$ 310	18.0 kg	\$ 180	9.0 kg
TD120.60.12S	12	2.75	18	\$ 360	18.0 kg	\$ 220	9.0 kg
TD120.60.16	16	2.75	24	\$ 320	22.6 kg	\$ 190	11.3 kg
TD120.60.20	20	3.0	30	\$ 320	26.0 kg	\$ 190	13.0 kg
TD120.60.25	25	3.0	35	\$ 320	29.0 kg	\$ 190	14.8 kg

T-Dies 45°

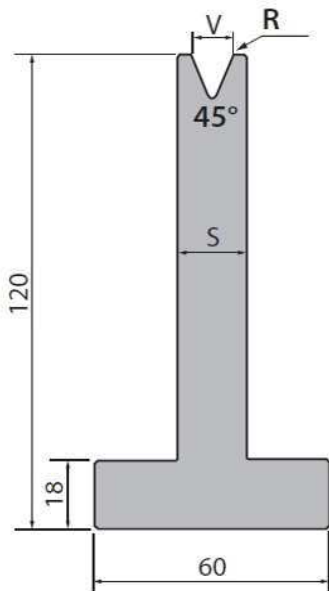


H=80 mm



				500 kN/m max.			
Model	V (mm)	R (mm)	S (mm)	Price	Weight	Price	Weight
TD80.45.06	6	0.8	14	\$ 220	13.0 kg	\$ 130	6.5 kg
TD80.45.08	8	1.0	18	\$ 220	15.0 kg	\$ 130	7.5 kg
TD80.45.10	10	1.2	18	\$ 220	14.0 kg	\$ 130	7.0 kg
TD80.45.12	12	1.6	24	\$ 220	16.4 kg	\$ 130	8.2 kg
TD80.45.16	16	2.75	26	\$ 230	16.6 kg	\$ 140	8.3 kg
TD80.45.20	20	3.0	30	\$ 230	18.2 kg	\$ 140	9.1 kg
TD80.45.25	25	3.0	37	\$ 230	20.0 kg	\$ 140	10.0 kg

H=120 mm

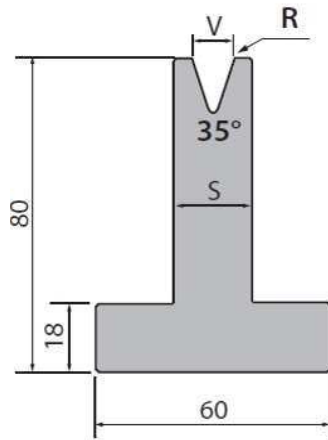


				500 kN/m max.			
Model	V (mm)	R (mm)	S (mm)	Price	Weight	Price	Weight
TD120.45.06	6	0.8	14	\$ 310	16.0 kg	\$ 180	8.0 kg
TD120.45.08	8	1.0	18	\$ 310	18.0 kg	\$ 180	9.0 kg
TD120.45.10	10	1.2	18	\$ 310	18.0 kg	\$ 180	9.0 kg
TD120.45.12	12	1.6	24	\$ 310	23.0 kg	\$ 180	11.5 kg
TD120.45.16	16	2.75	26	\$ 320	25.0 kg	\$ 190	12.5 kg
TD120.45.20	20	3.0	30	\$ 320	26.0 kg	\$ 190	13.0 kg
TD120.45.25	25	3.0	37	\$ 320	30.0 kg	\$ 190	15.0 kg

T-Dies 35°

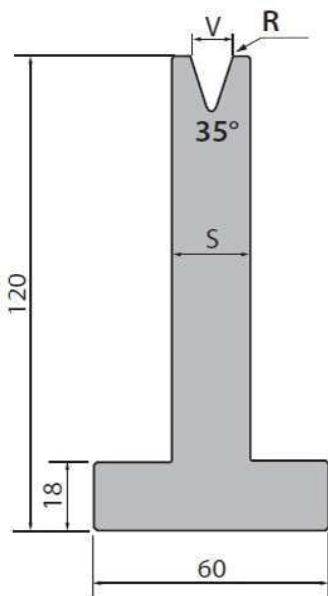


H=80 mm



				400 kN/m max.			
Model	V (mm)	R (mm)	S (mm)	Price	Weight	Price	Weight
TD80.35.06	6	0.8	14	\$ 220	12.8 kg	\$ 130	6.4 kg
TD80.35.08	8	1.0	16	\$ 220	13.0 kg	\$ 130	6.5 kg
TD80.35.10	10	1.2	20	\$ 220	15.0 kg	\$ 130	7.5 kg
TD80.35.12	12	1.6	22	\$ 220	15.6 kg	\$ 130	7.8 kg
TD80.35.16	16	3.0	30	\$ 230	18.0 kg	\$ 140	8.4 kg
TD80.35.20	20	3.0	35	\$ 230	19.4 kg	\$ 140	9.2 kg
TD80.35.25	25	3.0	40	\$ 230	20.0 kg	\$ 140	10.0 kg

H=120 mm

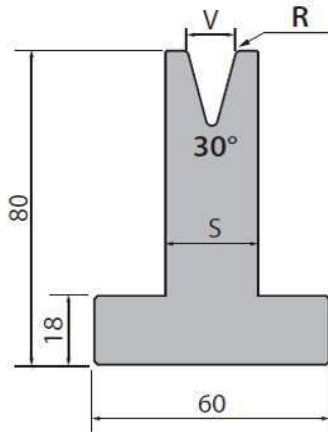


				400 kN/m max.			
Model	V (mm)	R (mm)	S (mm)	Price	Weight	Price	Weight
TD120.35.06	6	0.8	14	\$ 310	16.0 kg	\$ 180	8.0 kg
TD120.35.08	8	1.0	16	\$ 310	18.0 kg	\$ 180	9.0 kg
TD120.35.10	10	1.2	20	\$ 310	20.0 kg	\$ 180	10.0 kg
TD120.35.12	12	1.6	22	\$ 310	20.8 kg	\$ 180	10.4 kg
TD120.35.16	16	3.0	30	\$ 320	26.0 kg	\$ 190	13.0 kg
TD120.35.20	20	3.0	35	\$ 320	28.0 kg	\$ 190	14.0 kg
TD120.35.25	25	3.0	40	\$ 320	30.6 kg	\$ 190	15.3 kg

T-Dies 30°

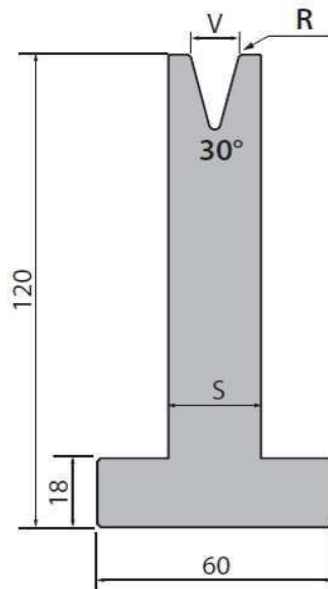


H=80 mm



				400 kN/m max.			
Model	V (mm)	R (mm)	S (mm)	Price	Weight	Price	Weight
TD80.30.06	6	0.6	14	\$ 220	12.6 kg	\$ 130	6.3 kg
TD80.30.08	8	0.8	18	\$ 220	13.0 kg	\$ 130	6.5 kg
TD80.30.10	10	1.0	24	\$ 220	16.2 kg	\$ 130	8.0 kg
TD80.30.12	12	1.5	24	\$ 220	16.2 kg	\$ 130	8.0 kg
TD80.30.16	16	2.0	30	\$ 230	18.0 kg	\$ 140	9.0 kg
TD80.30.20	20	2.5	35	\$ 230	19.0 kg	\$ 140	9.5 kg
TD80.30.25	25	3.0	40	\$ 230	20.4 kg	\$ 140	10.0 kg

H=120 mm



				400 kN/m max.			
Model	V (mm)	R (mm)	S (mm)	Price	Weight	Price	Weight
TD120.30.06	6	0.6	14	\$ 310	16.2 kg	\$ 180	8.0 kg
TD120.30.08	8	0.8	18	\$ 310	19.2 kg	\$ 180	9.5 kg
TD120.30.10	10	1.0	18	\$ 310	22.0 kg	\$ 180	11.0 kg
TD120.30.12	12	1.5	24	\$ 310	22.0 kg	\$ 180	11.0 kg
TD120.30.16	16	2.0	26	\$ 320	26.0 kg	\$ 190	13.0 kg
TD120.30.20	20	2.5	30	\$ 320	28.0 kg	\$ 190	14.0 kg
TD120.30.25	25	3.0	37	\$ 320	30.6 kg	\$ 190	15.3 kg

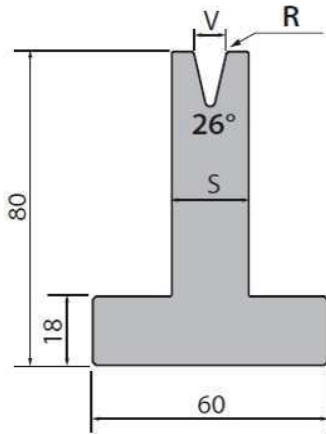
T-Dies 26°



H=80 mm

200 kN/m max.

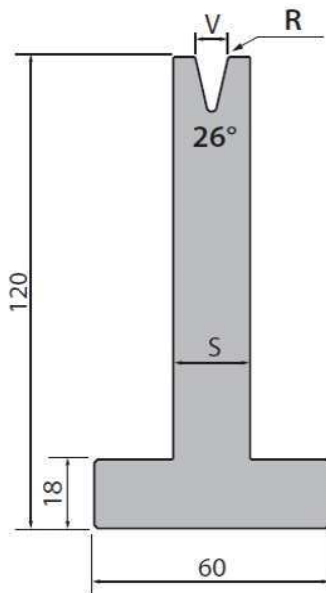
Model	V (mm)	R (mm)	S (mm)	Price	Weight	Price	Weight
TD80.26.06	6	0.8	16	\$ 220	14.2 kg	\$ 130	7.1 kg
TD80.26.08	8	1.0	20	\$ 220	15.0 kg	\$ 130	7.5 kg
TD80.26.10	10	1.2	24	\$ 220	15.4 kg	\$ 130	7.6 kg
TD80.26.12	12	1.6	26	\$ 220	16.4 kg	\$ 130	7.8 kg



H=120 mm

200 kN/m max.

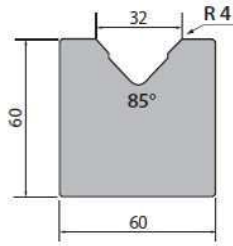
Model	V (mm)	R (mm)	S (mm)	Price	Weight	Price	Weight
TD120.26.06	6	0.8	16	\$ 320	18.4 kg	\$ 190	9.2 kg
TD120.26.08	8	1.0	20	\$ 320	19.6 kg	\$ 190	9.8 kg
TD120.26.10	10	1.2	24	\$ 320	22.0 kg	\$ 190	11.0 kg
TD120.26.12	12	1.6	26	\$ 320	22.0 kg	\$ 190	11.0 kg



1-V Dies, 85°



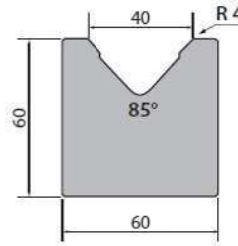
SVD60.85.32



1000 kN/m max.

835 mm	\$ 150	21.8 kg
835 mm sections	\$ 200	21.8 kg
415 mm	\$ 90	10.6 kg

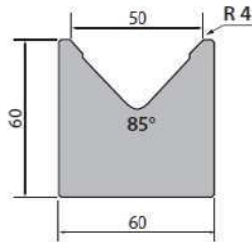
SVD60.85.40



1000 kN/m max.

835 mm	\$ 150	19.8 kg
835 mm sections	\$ 200	19.8 kg
415 mm	\$ 90	10.4 kg

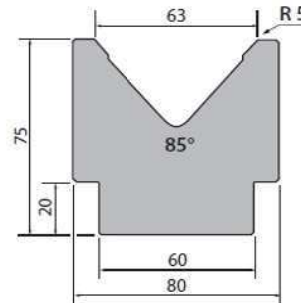
SVD60.85.50



1000 kN/m max.

835 mm	\$ 150	19.2 kg
835 mm sections	\$ 200	19.2 kg
415 mm	\$ 90	9.6 kg

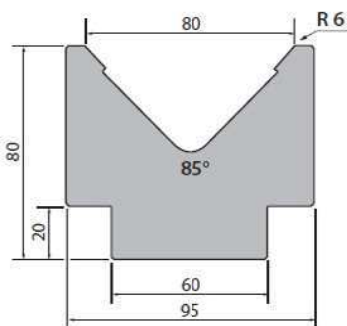
SVD75.85.63



1000 kN/m max.

835 mm	\$ 230	29.4 kg
835 mm sections	\$ 280	29.4 kg
415 mm	\$ 120	14.6 kg

SVD80.85.80



1000 kN/m max.

835 mm	\$ 280	33.8 kg
835 mm sections	\$ 330	33.8 kg
415 mm	\$ 140	16.7 kg

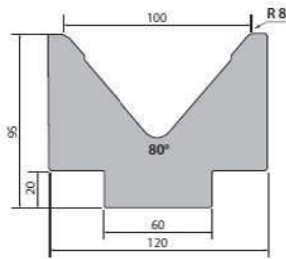
1-V Dies, 80°



SVD95.80.100

1000 kN/m max.

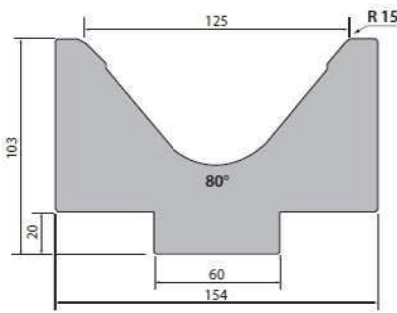
835 mm	\$ 400	46.6 kg
835 mm sections	\$ 450	46.6 kg
415 mm	\$ 220	23.0 kg



SVD103.80.125

700 kN/m max.

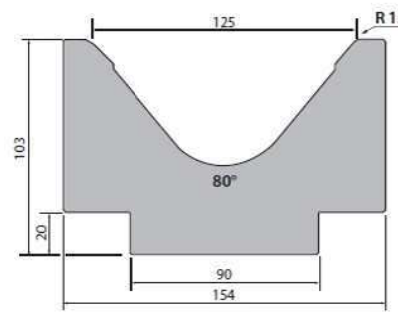
835 mm	\$ 550	62.8 kg
835 mm sections	\$ 600	62.8 kg
415 mm	\$ 280	31.2 kg



SVD103.80.125S

1000 kN/m max.

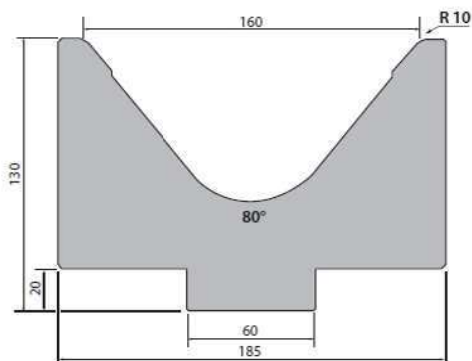
835 mm	\$ 560	65.0 kg
835 mm sections	\$ 610	65.0 kg
415 mm	\$ 290	32.4 kg



SVD130.80.160

700 kN/m max.

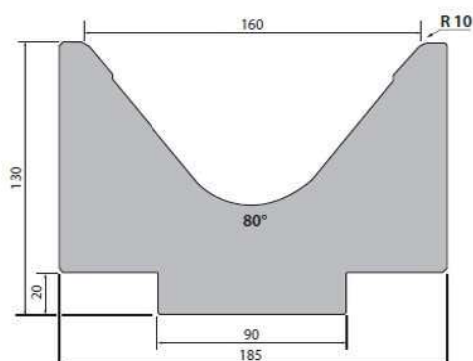
835 mm	\$ 750	92.8 kg
835 mm sections	\$ 850	92.8 kg
415 mm	\$ 400	46.3 kg



SVD130.80.160

1000 kN/m max.

835 mm	\$ 750	92.8 kg
835 mm sections	\$ 850	92.8 kg
415 mm	\$ 400	46.3 kg



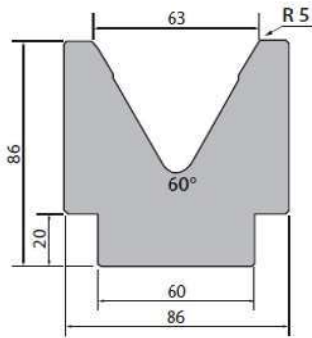
1-V Dies, 60°



SVD86.60.63

1000 kN/m max.

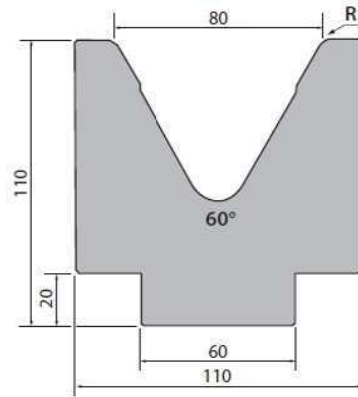
835 mm	\$ 350	34.2 kg
835 mm sections	\$ 400	34.2 kg
415 mm	\$ 200	17.0 kg



SVD110.60.80

1000 kN/m max.

835 mm	\$ 550	54.2 kg
835 mm sections	\$ 650	54.2 kg
415 mm	\$ 300	27.0 kg

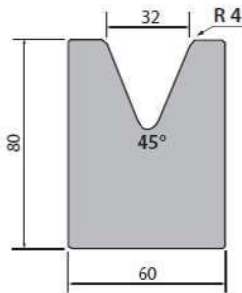


1-V Dies, 45°

SVD80.45.32

1000 kN/m max.

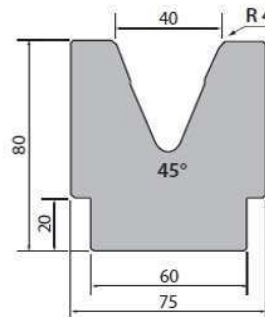
835 mm	\$ 200	27.4 kg
835 mm sections	\$ 250	27.4 kg
415 mm	\$ 120	13.8 kg



SVD80.45.40

1000 kN/m max.

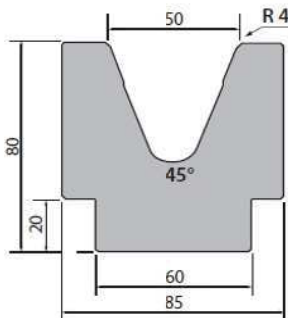
835 mm	\$ 250	31.2 kg
835 mm sections	\$ 300	31.2 kg
415 mm	\$ 180	16.6 kg



SVD80.45.50

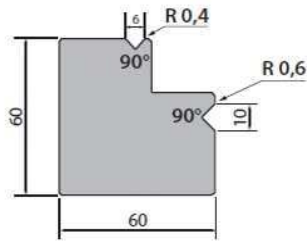
950 kN/m max.

835 mm	\$ 300	31.2 kg
835 mm sections	\$ 350	31.2 kg
415 mm	\$ 200	15.6 kg



MVD60.90A

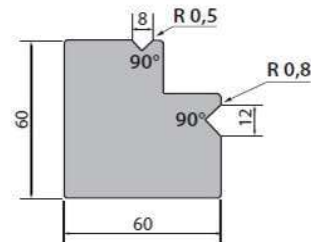
1000 kN/m max.



835 mm	\$ 170	20.0 kg
835 mm sections	\$ 220	20.0 kg
415 mm	\$ 120	10.0 kg

MVD60.90B

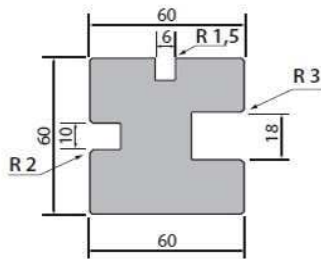
800 kN/m max.



835 mm	\$ 170	20.0 kg
835 mm sections	\$ 220	20.0 kg
415 mm	\$ 120	10.0 kg

MVD60X

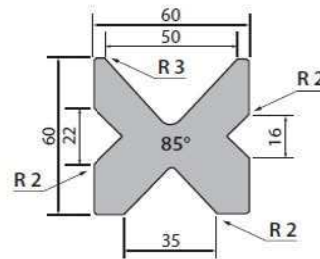
1000 kN/m max.



835 mm	\$ 180	20.0 kg
835 mm sections	\$ 230	20.0 kg
415 mm	\$ 120	10.0 kg

MVD60A

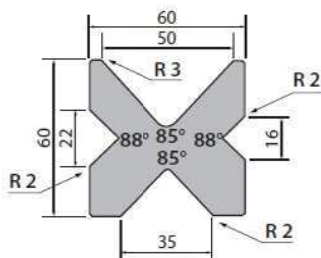
800 kN/m max.



835 mm	\$ 180	15.8 kg
835 mm sections	\$ 230	15.8 kg
415 mm	\$ 120	7.6 kg

MVD60B

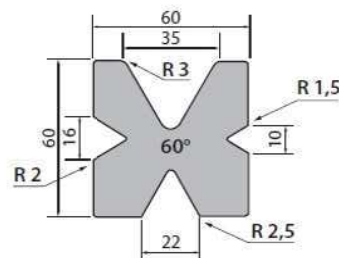
800 kN/m max.



835 mm	\$ 180	16.0 kg
835 mm sections	\$ 230	16.0 kg
415 mm	\$ 120	7.8 kg

MVD60C

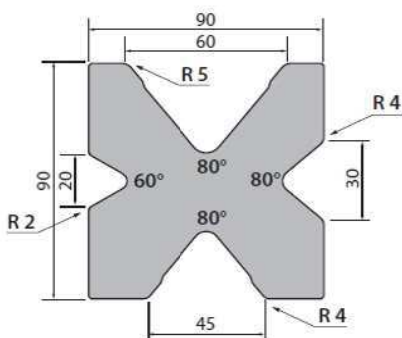
600 kN/m max.



835 mm	\$ 200	17.8 kg
835 mm sections	\$ 250	17.8 kg
415 mm	\$ 130	8.8 kg

MVD90A

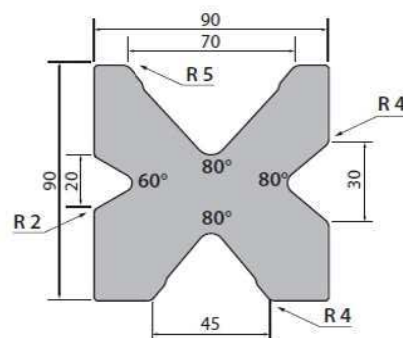
1000 kN/m max.



835 mm	\$ 450	39.0 kg
835 mm sections	\$ 550	39.0 kg
415 mm	\$ 250	19.8 kg

MVD90B

600 kN/m max.

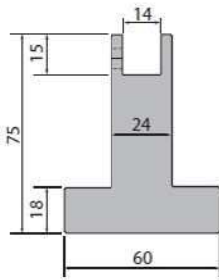


835 mm	\$ 450	36.0 kg
835 mm sections	\$ 550	36.0 kg
415 mm	\$ 250	18.0 kg

SD75.14

1000 kN/m max.

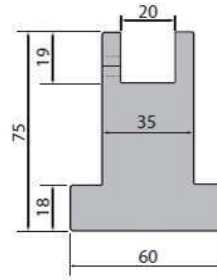
835 mm	\$ 210	15.0 kg
415 mm	\$ 130	7.4 kg



SD75.20

1000 kN/m max.

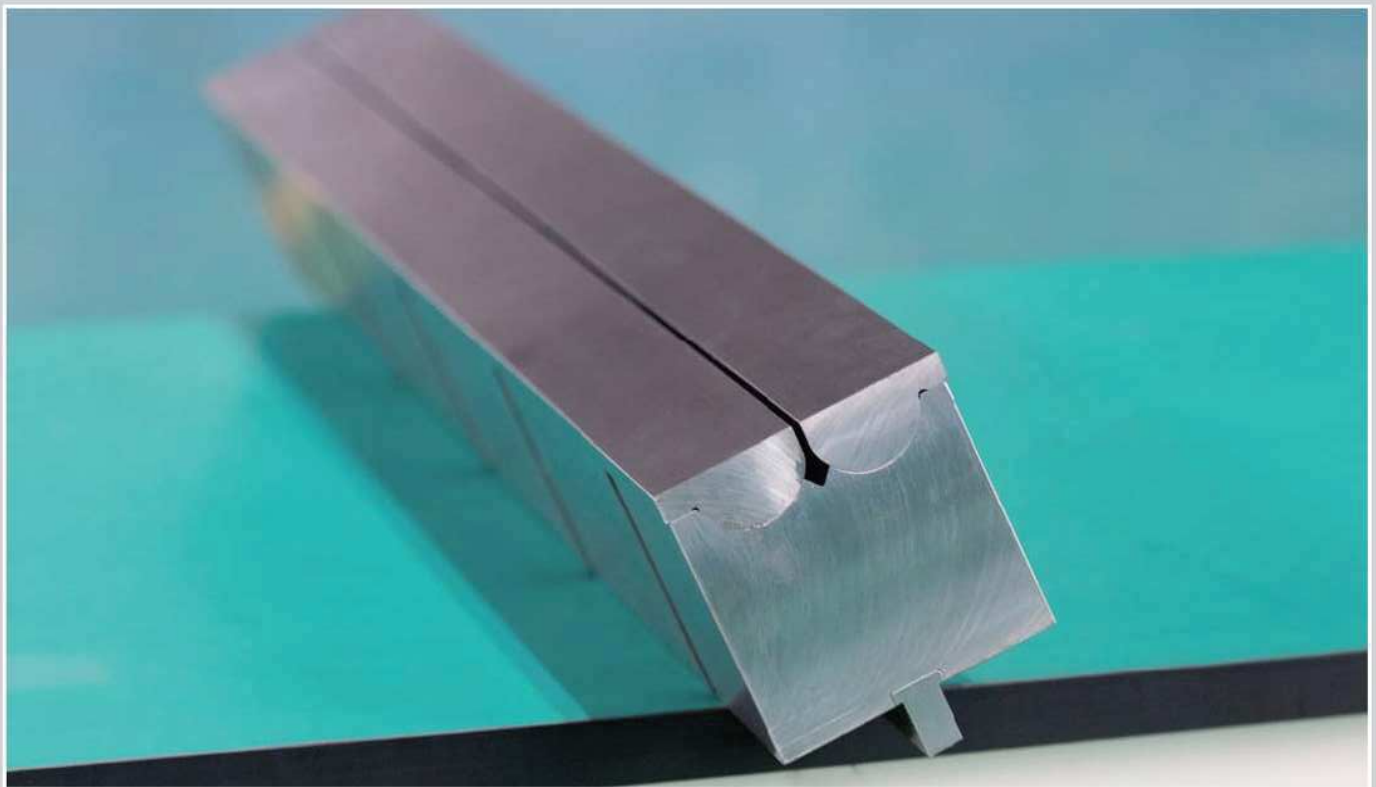
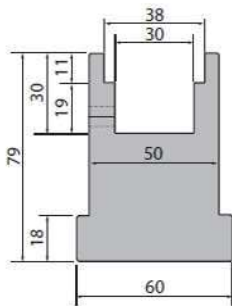
835 mm	\$ 210	19.2 kg
415 mm	\$ 130	9.5 kg



SD79.38

1000 kN/m max.

835 mm	\$ 210	25.0 kg
415 mm	\$ 130	12.4 kg



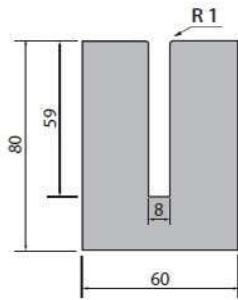
Hemming Dies



AHT8

800/1000 kN/m max.

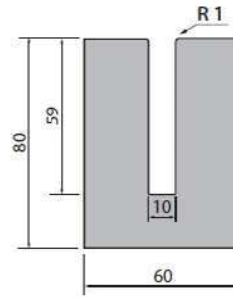
525 mm	\$ 200	17.6 kg
525 mm sections	\$ 300	17.6 kg



AHT10

800/1000 kN/m max.

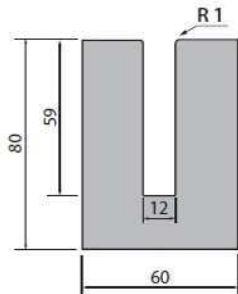
525 mm	\$ 200	17.8 kg
525 mm sections	\$ 300	17.8 kg



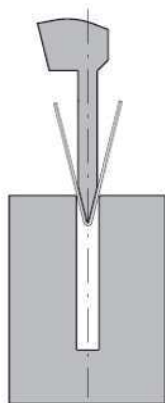
AHT12

800/1000 kN/m max.

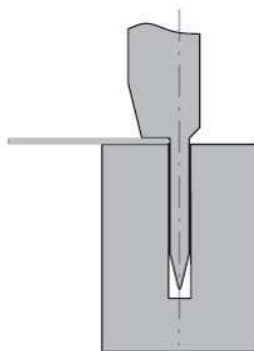
525 mm	\$ 200	17.0 kg
525 mm sections	\$ 300	17.0 kg



Example of application



800 kN/m max.



1000 kN/m max.

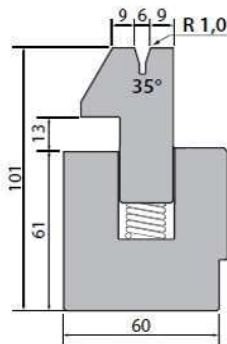


S (mm)	A (mm)	R.45 Kgf/mm ² t/m	R.70 Kgf/mm ² t/m
0.6	3.0	9	15
0.8	3.0	12	20
1.0	3.5	15	25
1.25	3.5	17	26

S (mm)	A (mm)	R.45 Kgf/mm ² t/m	R.70 Kgf/mm ² t/m
0.6	1.2	23	35
0.8	1.6	32	50
1.0	1.0	40	60
1.25	2.5	50	80

SHD101.35.06

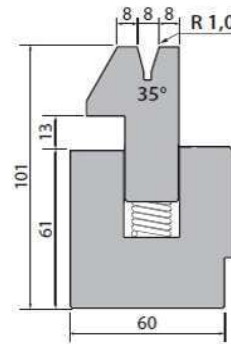
600 kN/m max.



835 mm	\$ 450	30.0 kg
415 mm	\$ 250	15.0 kg

SHD101.35.08

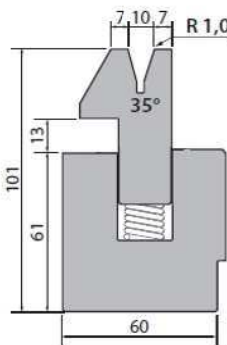
600 kN/m max.



835 mm	\$ 450	30.0 kg
415 mm	\$ 250	15.0 kg

SHD101.35.10

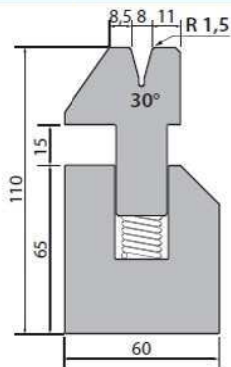
600 kN/m max.



835 mm	\$ 450	30.0 kg
415 mm	\$ 250	15.0 kg

SHD110.30.08

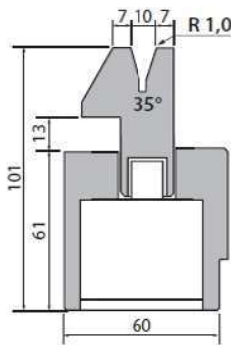
800 kN/m max.



835 mm	\$ 450	30.0 kg
415 mm	\$ 250	15.0 kg

PHD101.35.10

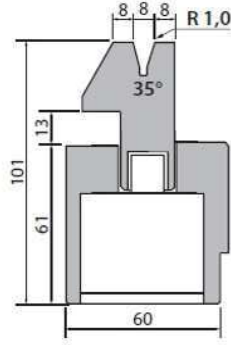
600 kN/m max.



835 mm	\$ 800	30.0 kg
415 mm	\$ 500	15.0 kg

PHD101.35.08

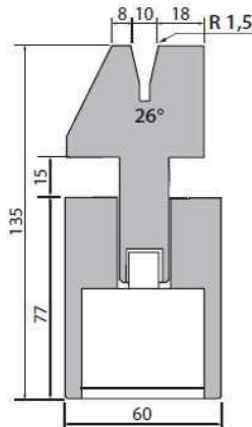
600 kN/m max.



835 mm	\$ 800	30.0 kg
415 mm	\$ 500	15.0 kg

PHD135.26.10

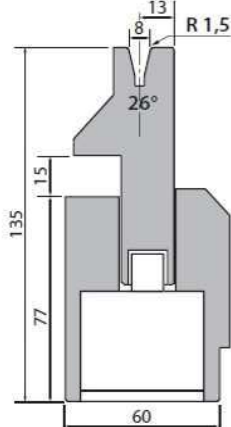
1000 kN/m max.



835 mm	\$ 900	42.0 kg
415 mm	\$ 600	21.0 kg

PHD135.26.08

400 kN/m max.



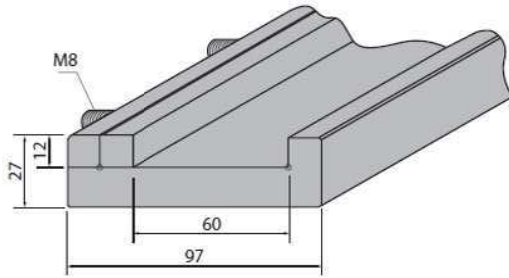
835 mm	\$ 1200	40.0 kg
415 mm	\$ 800	20.0 kg

Adpater Rails for Dies



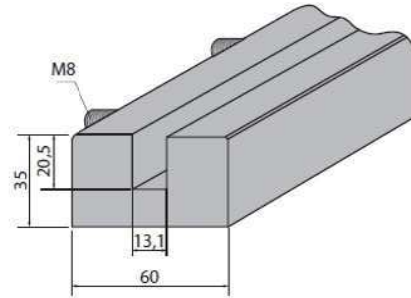
ARG 330/331/ 332/333

Model	Length	Price	Weight
ARG 330	2100 mm	\$ 480	28.0 kg
ARG 331	2600 mm	\$ 520	34.0 kg
ARG 332	3100 mm	\$ 610	40.0 kg
ARG 333	4100 mm	\$ 830	54.0 kg



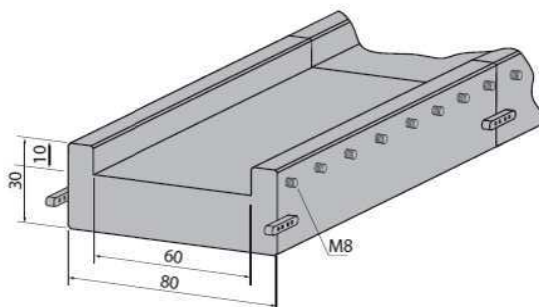
ARK 330/331 / 332/333

Model	Length	Price	Weight
ARK 330	2100 mm	\$ 480	30.0 kg
ARK 331	2600 mm	\$ 590	38.0 kg
ARK 332	3100 mm	\$ 670	44.0 kg
ARK 333	4100 mm	\$ 850	60.0 kg



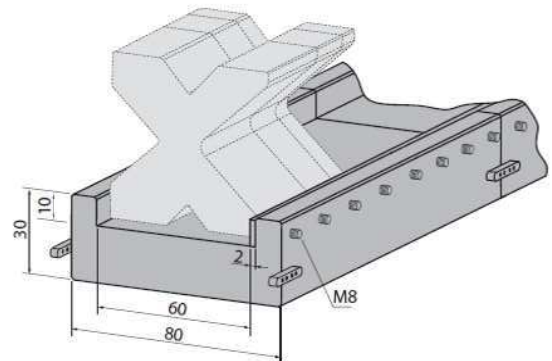
ARM 330/331

Model	Length	Price	Weight
ARM 330	1050 mm	\$ 150	15.0 kg
ARM 331	520 mm	\$ 80	7.6 kg



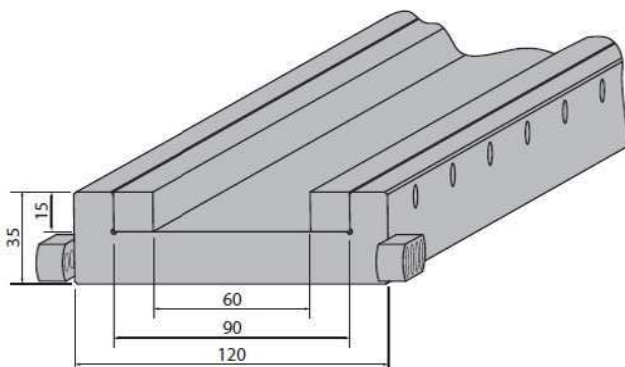
ARP 330/331

Model	Length	Price	Weight
ARP 330	1050 mm	\$ 200	15.0 kg
ARP 331	520 mm	\$ 110	7.6 kg



ART 330/331

Model	Length	Price	Weight
ART 330	1050 mm	\$ 230	27.4 kg
ART 331	520 mm	\$ 140	13.6 kg



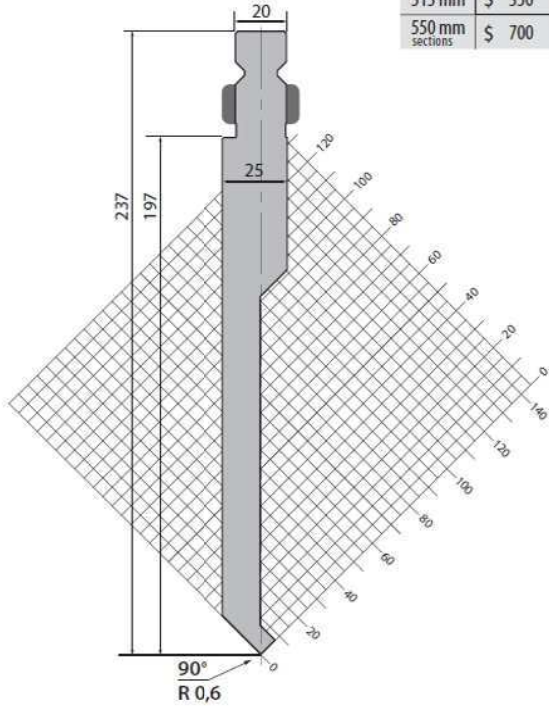
90° Punches



WP237.90.R06

600 kN/m max.

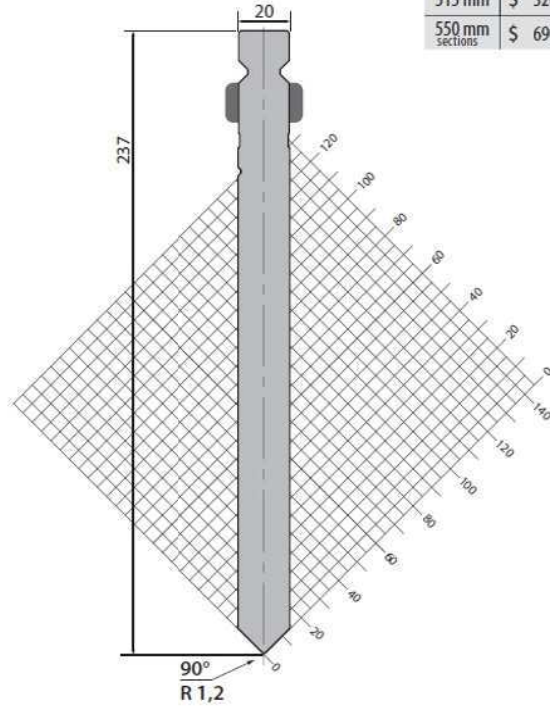
515 mm	\$ 350	17.6 kg
550 mm sections	\$ 700	18.8 kg



WP237.90.R12

1000 kN/m max.

515 mm	\$ 320	19.2 kg
550 mm sections	\$ 690	20.5 kg

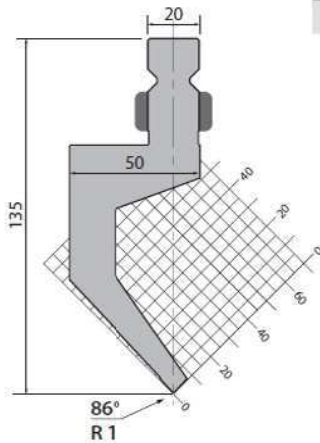


86° Punches

WP135.86.R1

650 kN/m max.

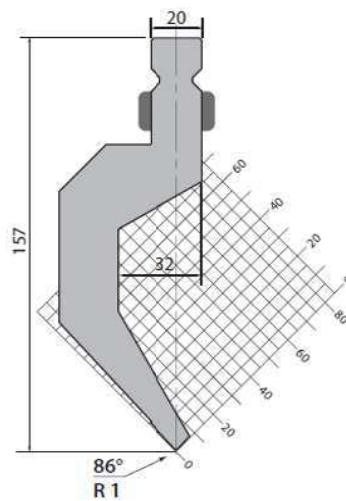
515 mm	\$ 310	12.4 kg
550 mm sections	\$ 660	13.2 kg



WP157.86.R1

800 kN/m max.

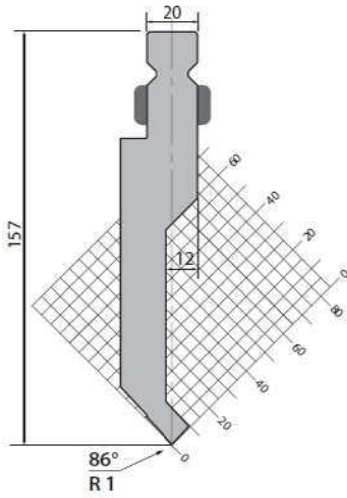
515 mm	\$ 330	15.2 kg
550 mm sections	\$ 640	16.6 kg



WP157.86.R1S

800 kN/m max.

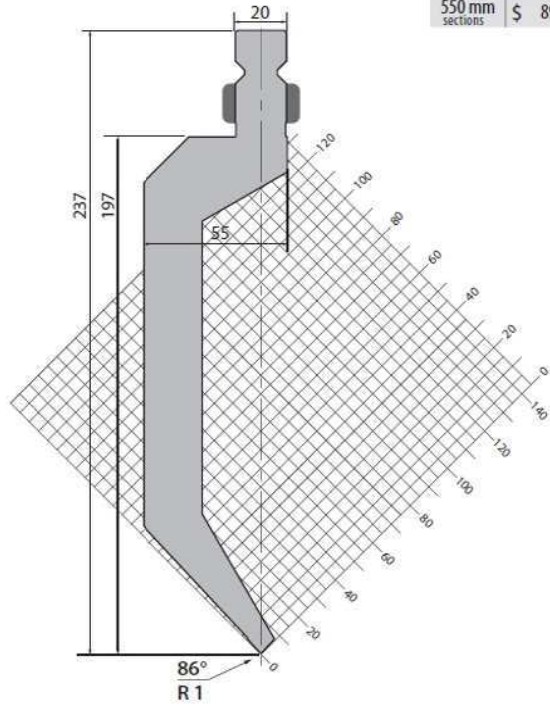
500 mm	\$ 240	12.6 kg
550 mm sections	\$ 500	13.8 kg



WP237.86.R1

500 kN/m max.

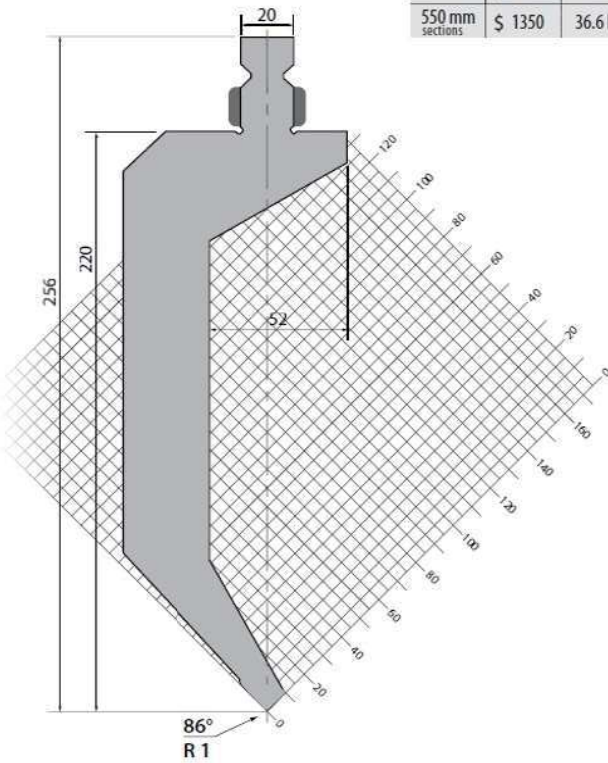
515 mm	\$ 480	23.4 kg
550 mm sections	\$ 890	24.8 kg



WP256.86.R1

800 kN/m max.

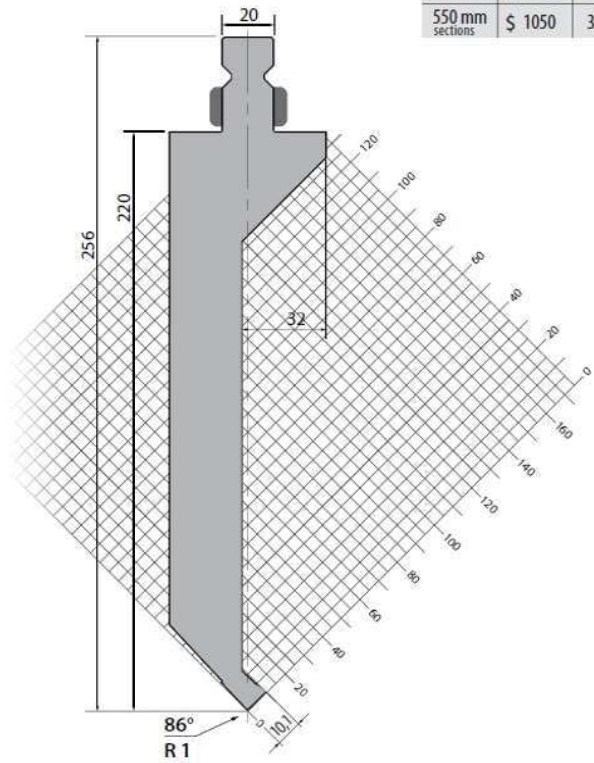
500 mm	\$ 750	33.4 kg
550 mm sections	\$ 1350	36.6 kg



WP256.86.R1S

800 kN/m max.

500 mm	\$ 550	28.8 kg
550 mm sections	\$ 1050	31.6 kg



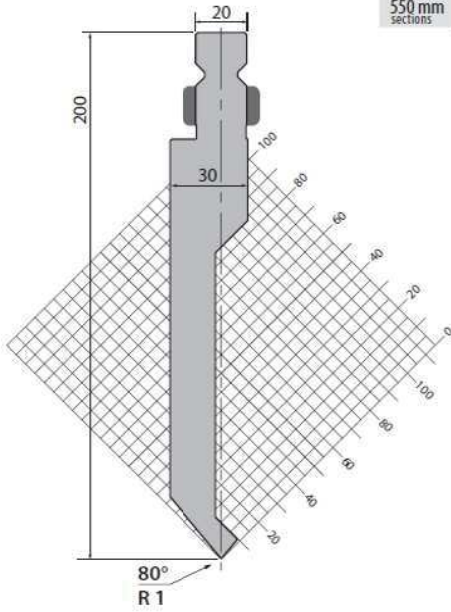
80° Punches



WP200.80.R1

800 kN/m max.

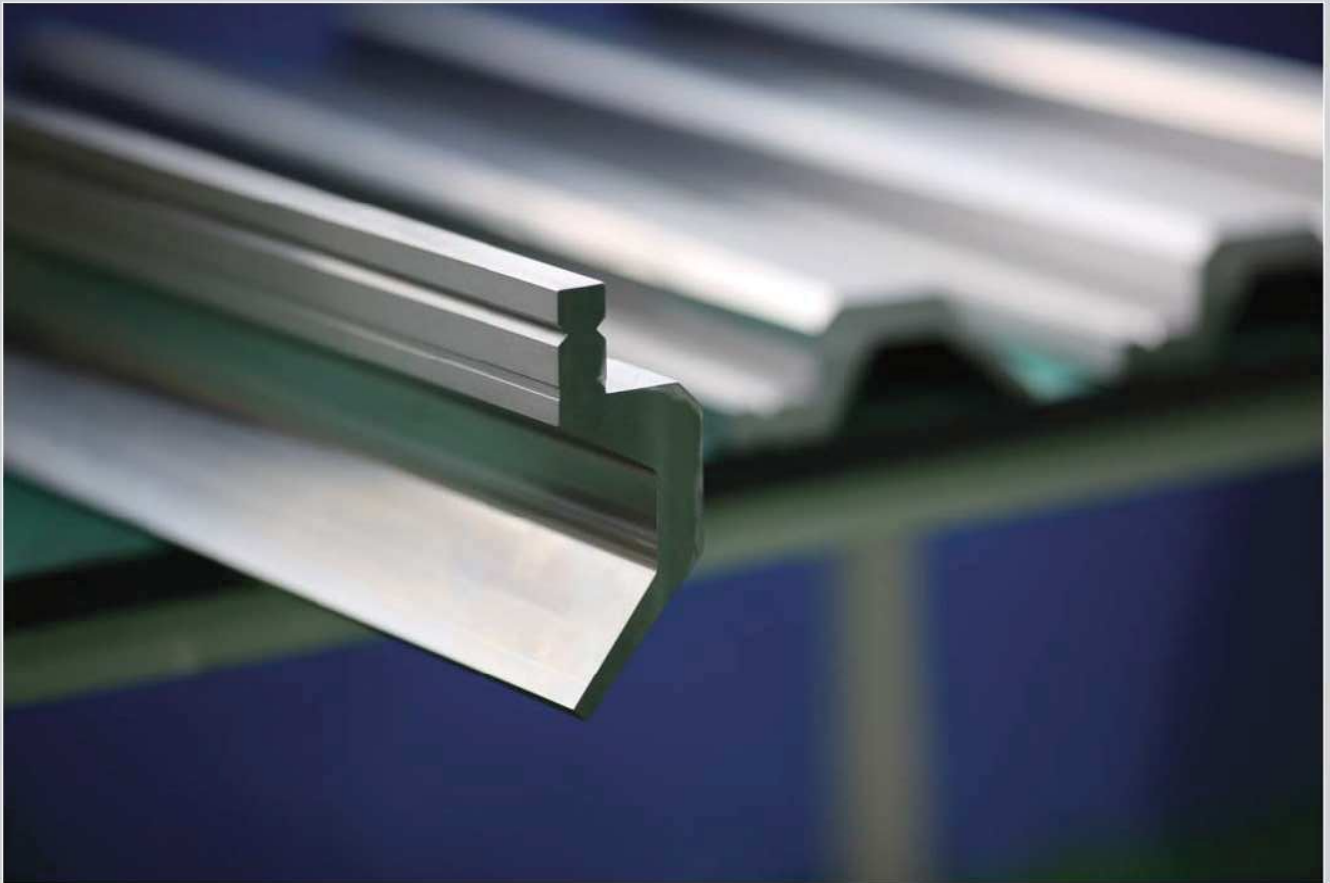
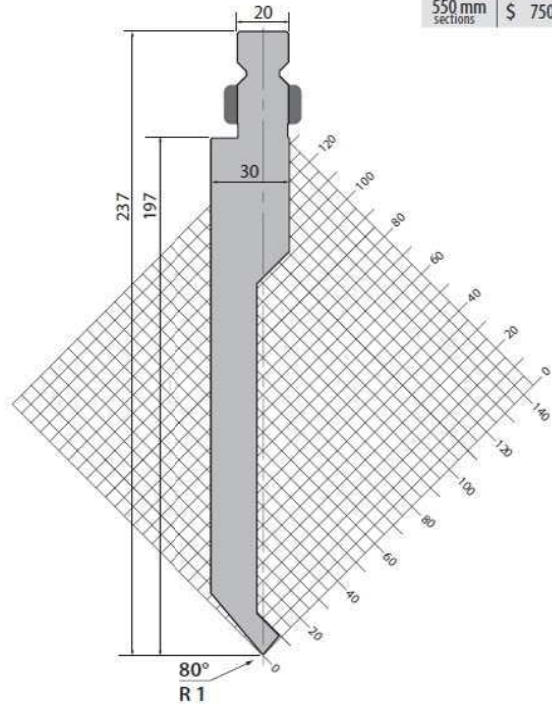
515 mm	\$ 250	19.0 kg
550 mm sections	\$ 600	20.3 kg



WP237.80.R1

800 kN/m max.

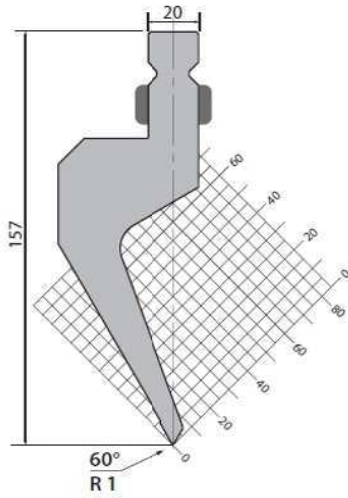
515 mm	\$ 350	19.8 kg
550 mm sections	\$ 750	21.0 kg



WP157.60.R1

700 kN/m max.

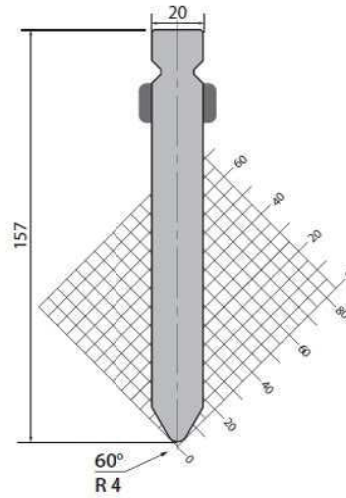
500 mm	\$ 290	15.2 kg
550 mm sections	\$ 550	16.6 kg



WP157.60.R4

1300 kN/m max.

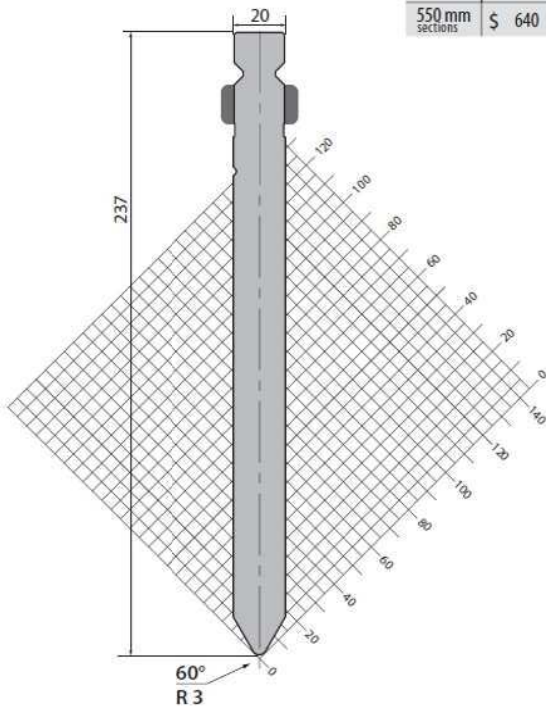
500 mm	\$ 230	12.2 kg
550 mm sections	\$ 470	13.4 kg



WP237.60.R3

1300 kN/m max.

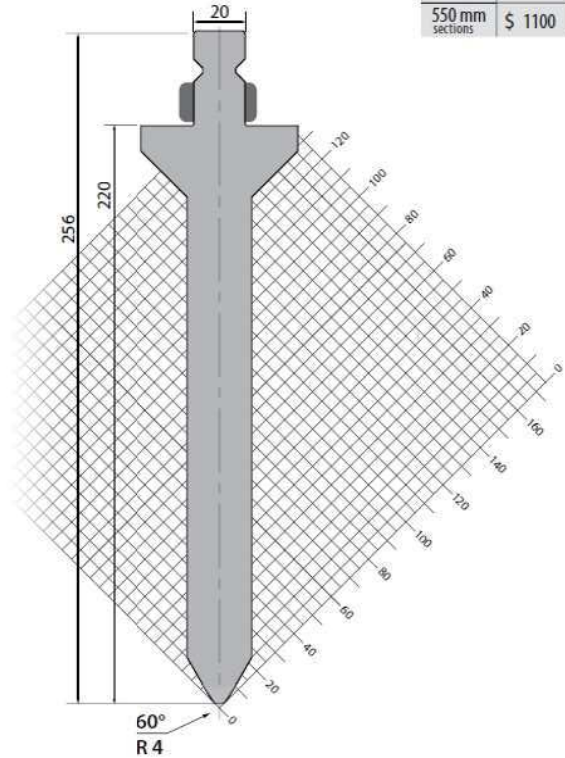
515 mm	\$ 320	18.8 kg
550 mm sections	\$ 640	20.2 kg



WP256.60.R4

1300 kN/m max.

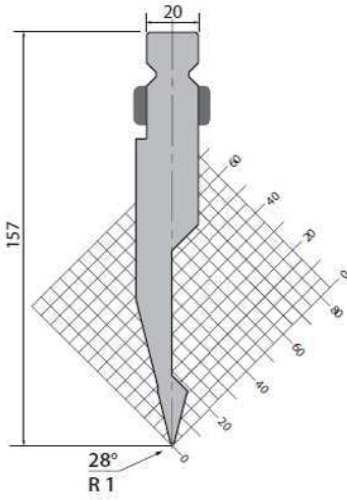
500 mm	\$ 550	26.3 kg
550 mm sections	\$ 1100	28.9 kg



WP157.28.R1

600 kN/m max.

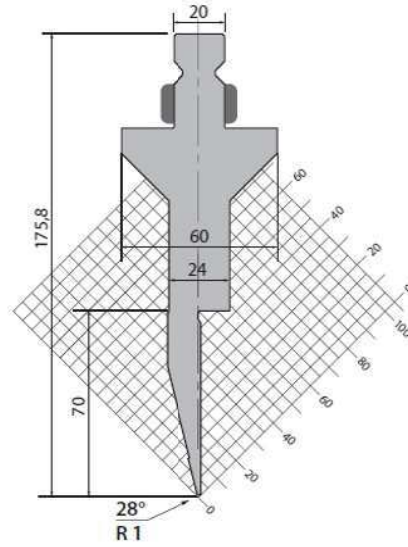
500 mm	\$ 240	10.0 kg
550 mm sections	\$ 580	11.2 kg



WP176.28.R1

400 kN/m max.

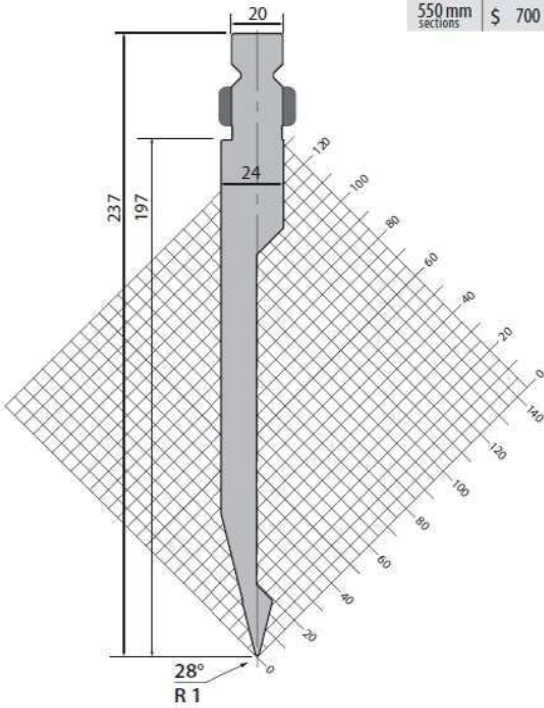
500 mm	\$ 420	15.2 kg
550 mm sections	\$ 880	16.8 kg



WP237.28.R1

600 kN/m max.

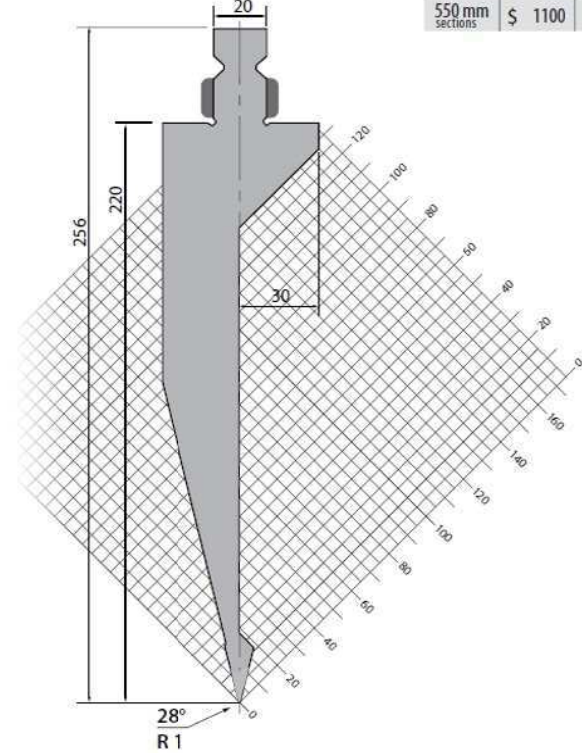
515 mm	\$ 350	15.2 kg
550 mm sections	\$ 700	16.3 kg



WP256.28.R1

600 kN/m max.

500 mm	\$ 550	25.0 kg
550 mm sections	\$ 1100	27.8 kg



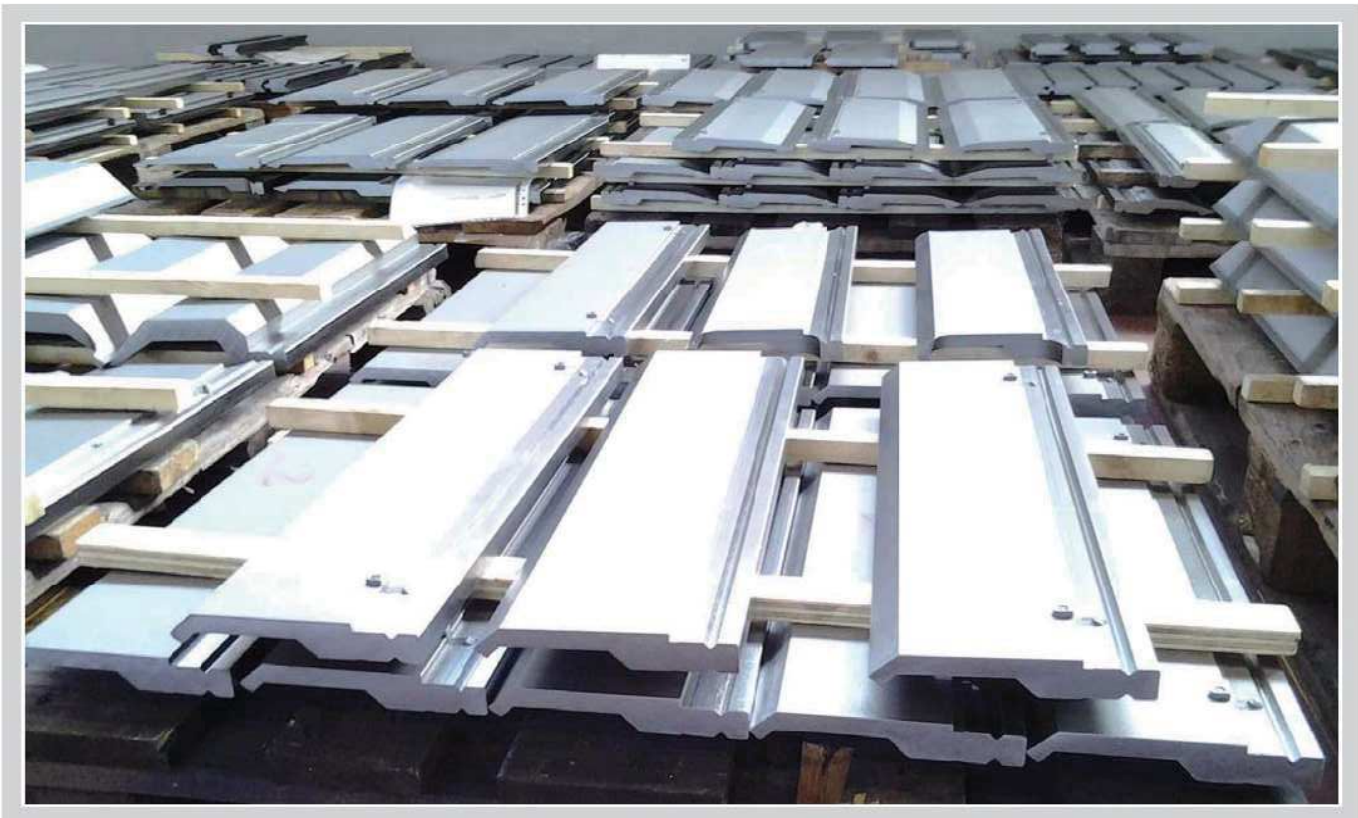
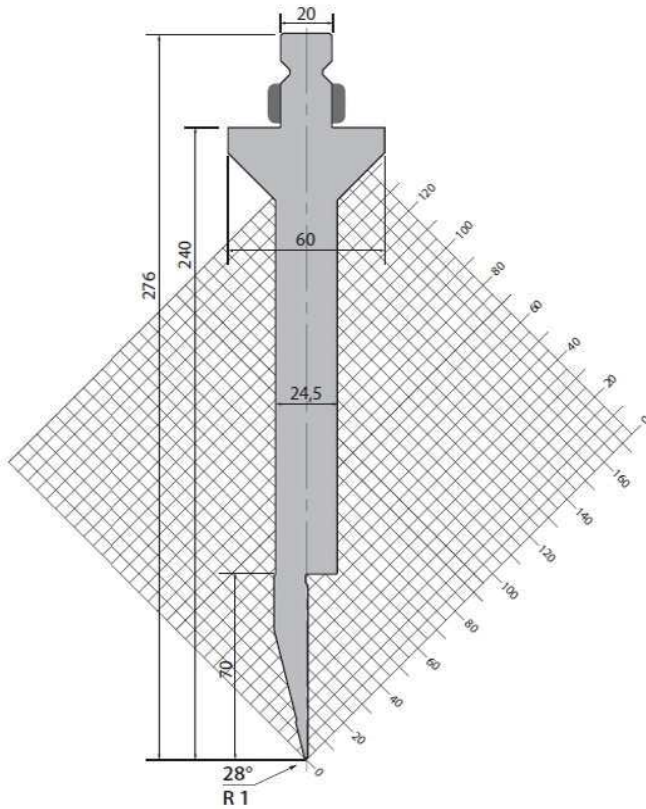
28° Punches



WP276.28.R1

400 kN/m max.

500 mm	\$ 600	24.2 kg
550 mm sections	\$ 1200	26.6 kg



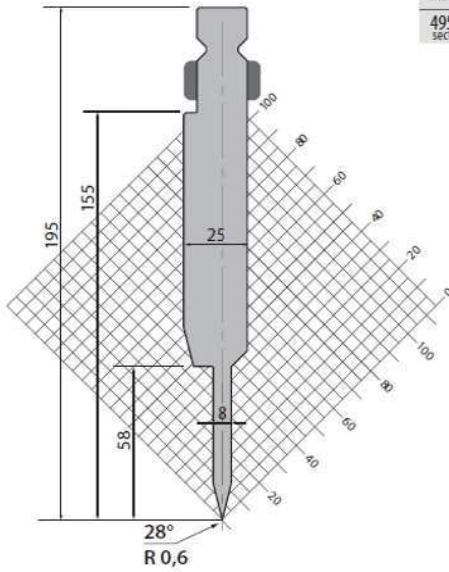
28°/24° Hemming Punches



WHT 195.28.8

800/1000 kN/m max.

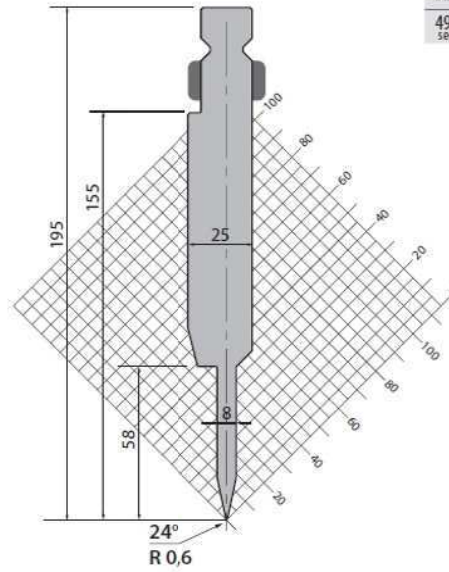
525 mm	\$ 450	9.5 kg
495 mm sections	\$ 700	9.0 kg



WHT 195.24.8

800/1000 kN/m max.

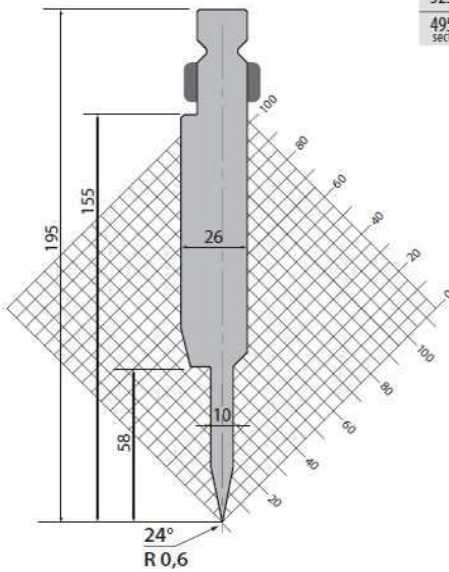
525 mm	\$ 450	9.5 kg
495 mm sections	\$ 700	9.0 kg



WHT 195.24.10

800/1000 kN/m max.

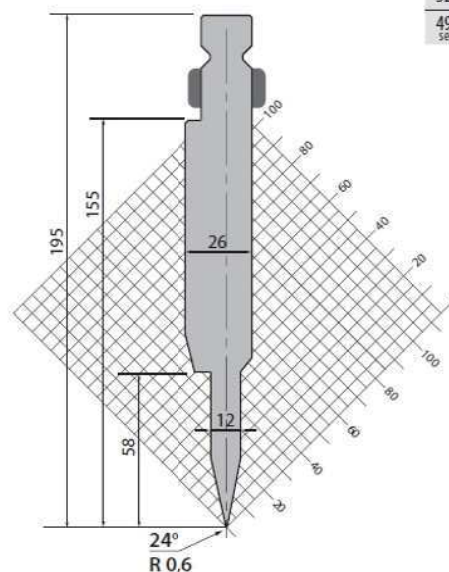
525 mm	\$ 450	15.6 kg
495 mm sections	\$ 700	9.4 kg



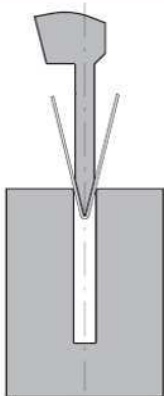
WHT 195.24.12

800/1000 kN/m max.

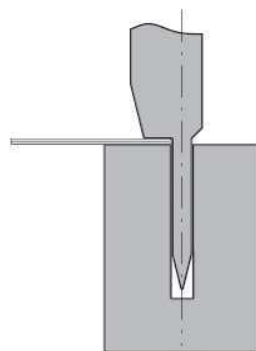
525 mm	\$ 450	15.6 kg
495 mm sections	\$ 700	9.6 kg



Example of application



800 kN/m max.



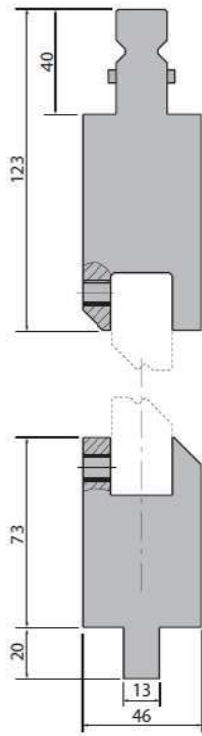
1000 kN/m max.



S (mm)	A (mm)	R.45 Kg/mm ² t/m	R.70 Kg/mm ² t/m
0.6	3.0	9	15
0.8	3.0	12	20
1.0	3.5	15	25
1.25	3.5	17	26

S (mm)	A (mm)	R.45 Kg/mm ² t/m	R.70 Kg/mm ² t/m
0.6	1.2	23	35
0.8	1.6	32	50
1.0	1.0	40	60
1.25	2.5	50	80

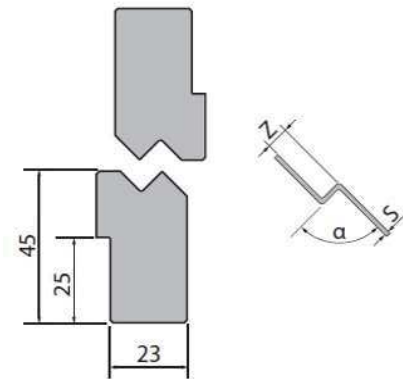
ZPT



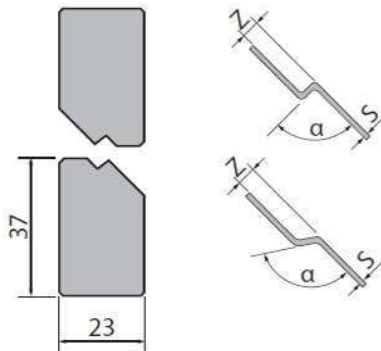
1000 kN/m max.		
835 mm	\$ 790	46.0 kg
415 mm	\$ 400	23.0 kg

Z- Tool Inserts 90°

				1000 kN/m max.			
Model	Z (mm)	α	S* (mm)	Price	Weight	Price	Weight
WZ 9.0	9	90°	1.8	\$ 250	13.5 kg	\$ 140	6.5 kg
WZ 10.0	10	90°	1.8	\$ 250	13.5 kg	\$ 140	6.5 kg
WZ 11.0	11	90°	2	\$ 250	13.5 kg	\$ 140	6.5 kg
WZ 12.0	12	90°	2	\$ 250	13.5 kg	\$ 140	6.5 kg
WZ 13.0	13	90°	2	\$ 250	13.5 kg	\$ 140	6.5 kg
WZ 14.0	14	90°	2	\$ 250	13.5 kg	\$ 140	6.5 kg
WZ 15.0	15	90°	2.3	\$ 250	13.5 kg	\$ 140	6.5 kg



Z- Tool Inserts 160° / 150° / 140° / 90°



				1000 kN/m max.			
Model	Z (mm)	α	S* (mm)	Price	Weight	Price	Weight
WZ 1.0	1.0	160°	1.2	\$ 200	11.0 kg	\$ 120	5.5 kg
WZ 1.5	1.5	160°	1.5	\$ 200	11.0 kg	\$ 120	5.5 kg
WZ 2.0	2.0	150°	1.4	\$ 200	11.0 kg	\$ 120	5.5 kg
WZ 2.5	2.5	140°	1.3	\$ 200	11.0 kg	\$ 120	5.5 kg
WZ 1.0/90	1.0	90°	0.3	\$ 200	11.0 kg	\$ 120	5.5 kg
WZ 1.5/90	1.5	90°	0.3	\$ 200	11.0 kg	\$ 120	5.5 kg
WZ 2.0/90	2.0	90°	0.4	\$ 200	11.0 kg	\$ 120	5.5 kg
WZ 2.5/90	2.5	90°	0.5	\$ 200	11.0 kg	\$ 120	5.5 kg
WZ 3.0	3.0	90°	1.0	\$ 200	10.2 kg	\$ 120	5.1 kg
WZ 3.5	3.5	90°	1.0	\$ 200	10.0 kg	\$ 120	5.0 kg
WZ 4.0	4.0	90°	1.2	\$ 200	10.0 kg	\$ 120	5.0 kg
WZ 4.5	4.5	90°	1.2	\$ 200	10.0 kg	\$ 120	5.0 kg
WZ 5.0	5.0	90°	1.3	\$ 200	10.0 kg	\$ 120	5.0 kg
WZ 5.5	5.5	90°	1.4	\$ 200	10.0 kg	\$ 120	5.0 kg
WZ 6.0	6.0	90°	1.5	\$ 200	10.0 kg	\$ 120	5.0 kg
WZ 6.5	6.5	90°	1.5	\$ 200	10.0 kg	\$ 120	5.0 kg
WZ 7.0	7.0	90°	1.5	\$ 200	10.0 kg	\$ 120	5.0 kg
WZ 7.5	7.5	90°	1.6	\$ 200	10.0 kg	\$ 120	5.0 kg
WZ 8.0	8.0	90°	1.6	\$ 200	10.0 kg	\$ 120	5.0 kg

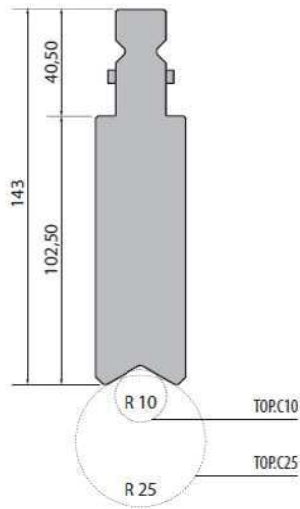
Radius Punches



WRT143.10

1000 kN/m max.

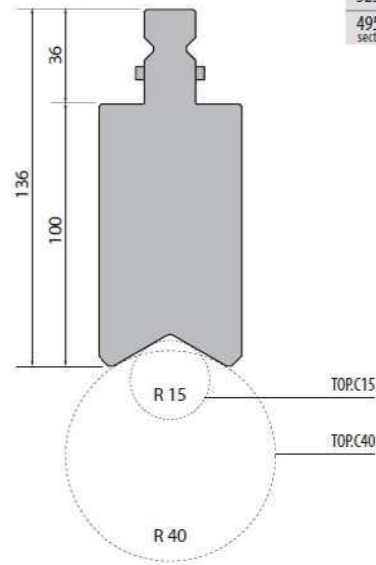
525 mm	\$ 300	18.0 kg
495 mm sections	\$ 500	17.2 kg



WRT136.15

1000 kN/m max.

525 mm	\$ 410	25.2 kg
495 mm sections	\$ 750	23.8 kg

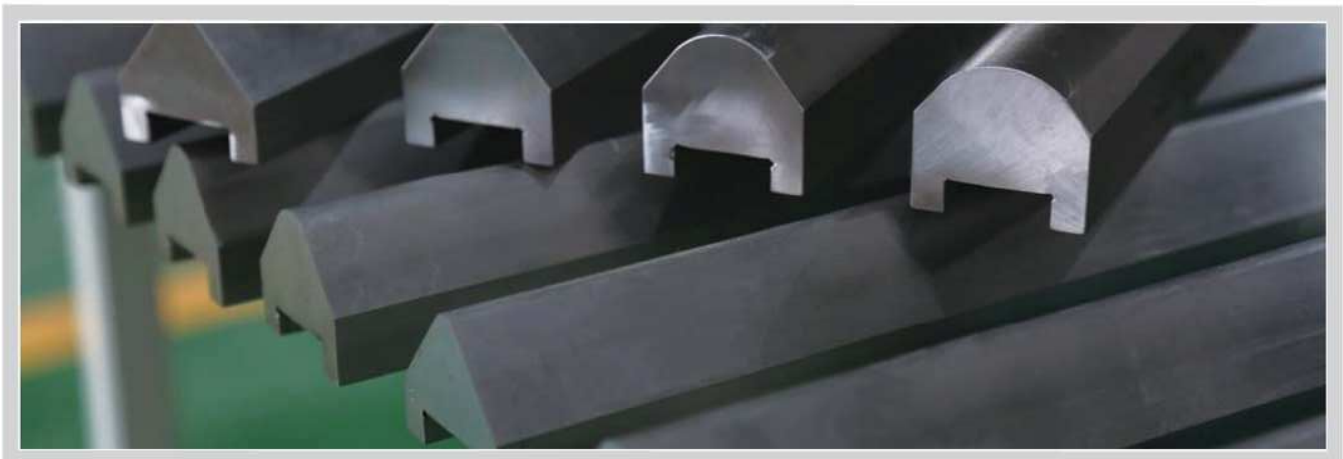
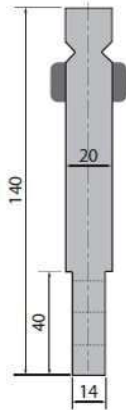


Radius Tools

WRT140-14

800 kN/m max.

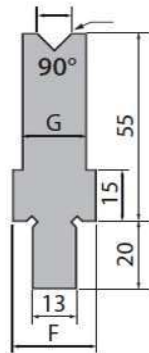
830 mm	\$ 250	17.2 kg
412 mm	\$ 180	9.0 kg



Dies, H=55 mm

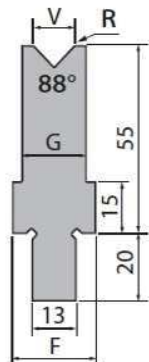


90°



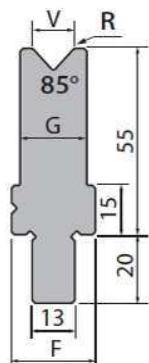
Model	V (mm)	R (mm)	G (mm)	F (mm)	1200 kN/m max.			
					1000 mm		500 mm	
					Price	Weight	Price	Weight
WD55.90.06	6	0.4	15	25	\$ 200	8.6 kg	\$ 120	4.3 kg
WD55.90.08	8	0.5	15	25	\$ 200	9.2 kg	\$ 120	4.6 kg
WD55.90.10	10	1.0	20	25	\$ 200	10.4 kg	\$ 120	5.2 kg
WD55.90.12	12	1.5	20	25	\$ 200	10.4 kg	\$ 120	5.2 kg
WD55.90.16	16	2.0	30	30	\$ 210	14.6 kg	\$ 125	7.3 kg

88°



Model	V (mm)	R (mm)	G (mm)	F (mm)	1200 kN/m max.			
					1000 mm		500 mm	
					Price	Weight	Price	Weight
WD55.88.06	6	0.4	15	25	\$ 200	8.6 kg	\$ 120	4.3 kg
WD55.88.08	8	0.5	15	25	\$ 200	9.2 kg	\$ 120	4.5 kg
WD55.88.10	10	1.0	20	25	\$ 200	11.2 kg	\$ 120	5.0 kg
WD55.88.12	12	1.5	20	25	\$ 200	10.6 kg	\$ 120	5.3 kg
WD55.88.16	16	2.0	30	30	\$ 210	14.5 kg	\$ 125	7.3 kg
WD55.88.20	20	2.0	30	30	\$ 210	14.5 kg	\$ 125	7.3 kg
WD55.88.24	24	3.0	40	40	\$ 230	18.4 kg	\$ 130	9.2 kg

85°



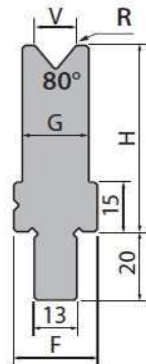
Model	V (mm)	R (mm)	G (mm)	F (mm)	1200 kN/m max.			
					1000 mm		500 mm	
					Price	Weight	Price	Weight
WD55.85.06	6	0.4	15	25	\$ 200	8.6 kg	\$ 120	4.3 kg
WD55.85.08	8	0.5	15	25	\$ 200	9.0 kg	\$ 120	4.5 kg
WD55.85.10	10	1.0	20	25	\$ 200	11.0 kg	\$ 120	5.0 kg
WD55.85.12	12	1.5	20	25	\$ 200	10.4 kg	\$ 120	5.2 kg
WD55.85.16	16	2.0	30	30	\$ 210	14.6 kg	\$ 125	7.3 kg
WD55.85.20	20	2.0	30	30	\$ 220	14.6 kg	\$ 130	7.3 kg
WD55.85.24	24	3.0	40	40	\$ 240	18.4 kg	\$ 140	9.2 kg
WD55.85.32	32	4.0	50	50	\$ 250	21.0 kg	\$ 150	10.5 kg
WD55.85.40	40	4.0	55	55	\$ 260	21.4 kg	\$ 150	10.7 kg

Dies, H=55-85 mm



80°

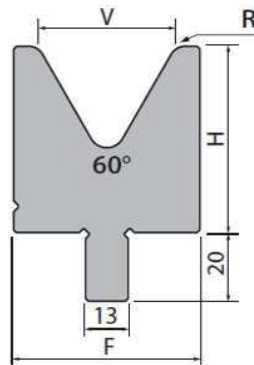
1200/2300 kN/m max.



Model	V (mm)	R (mm)	H (mm)	G (mm)	F (mm)	Price	Weight	Price	Weight
WD55.80.06	6	0.4	55	15	25	\$ 200	8.6 kg	\$ 120	4.3 kg
WD55.80.08	8	0.5	55	15	25	\$ 200	9.2 kg	\$ 120	4.5 kg
WD55.80.10	10	1.0	55	20	25	\$ 200	11.0 kg	\$ 120	5.0 kg
WD55.80.12	12	1.5	55	20	25	\$ 200	10.4 kg	\$ 120	5.2 kg
WD55.80.16	16	2.0	55	30	30	\$ 210	14.4 kg	\$ 125	7.2 kg
WD55.80.20	20	2.0	55	30	30	\$ 220	14.4 kg	\$ 130	7.2 kg
WD55.80.24	24	3.0	55	40	40	\$ 240	18.6 kg	\$ 140	9.3 kg
WD55.80.32	32	4.0	55	50	50	\$ 250	21.0 kg	\$ 150	10.5 kg
WD55.80.40	40	4.0	55	55	55	\$ 260	21.2 kg	\$ 150	10.6 kg
WD65.80.80	80	10.0	65	100	100	\$ 550	39.0 kg	\$ 300	20.0 kg
WD85.80.100	100	12.0	85	125	125	\$ 700	62.0 kg	\$ 350	31.0 kg

60°

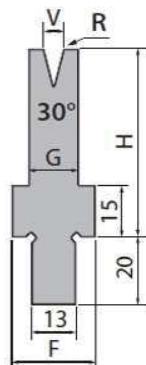
1200 kN/m max.



Model	V (mm)	R (mm)	H (mm)	F (mm)	Price	Weight	Price	Weight
WD55.60.40	40	5.0	55	55	\$ 340	20.2 kg	\$ 180	10.4 kg
WD55.60.50	50	5.0	55	70	\$ 420	25.0 kg	\$ 210	12.0 kg
WD65.60.60	60	7.0	65	80	\$ 460	31.0 kg	\$ 230	15.3 kg

30°

200/450 kN/m max.



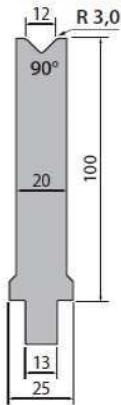
Model	V (mm)	R (mm)	G (mm)	H (mm)	F (mm)	Price	Weight	Price	Weight
WD55.30.06	6	0.6	15	55	25	\$ 220	8.0 kg	\$ 130	4.0 kg
WD55.30.08	8	0.8	15	55	25	\$ 220	9.0 kg	\$ 130	4.0 kg
WD55.30.10	10	1.0	20	55	25	\$ 220	10.0 kg	\$ 130	5.0 kg
WD55.30.12	12	1.5	20	55	25	\$ 220	10.0 kg	\$ 130	5.0 kg
WD55.30.16	16	2.0	30	55	30	\$ 220	13.4 kg	\$ 130	6.6 kg
WD55.30.20	20	2.5	35	55	35	\$ 230	14.0 kg	\$ 130	7.0 kg
WD55.30.24	24	3.0	40	55	40	\$ 250	15.6 kg	\$ 140	7.6 kg
WD60.30.32	32	4.0	60	60	60	\$ 340	23.0 kg	\$ 170	11.4 kg
WD70.30.08	08	0.75	20	70	25	\$ 220	13.2 kg	\$ 130	6.2 kg
WD70.30.10	10	1.0	20	70	25	\$ 220	12.6 kg	\$ 130	6.3 kg
WD70.30.12	12	1.5	25	70	25	\$ 220	14.8 kg	\$ 130	7.4 kg
WD70.30.16	16	2.0	30	70	30	\$ 220	16.8 kg	\$ 130	8.2 kg

Dies 90°, H=100 mm



WD100.12.90

1200 kN/m max.

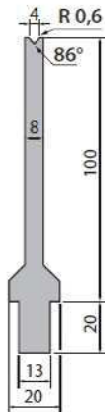


515 mm	\$ 190	9.0 kg
515 mm sections	\$ 240	9.0 kg

Dies 86°, H=100 mm

WD100.04.86

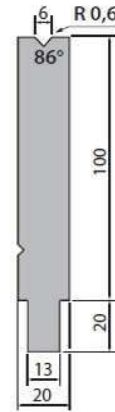
250 kN/m max.



500 mm	\$ 190	4.5 kg
500 mm sections	\$ 240	4.5 kg

WD100.06.86

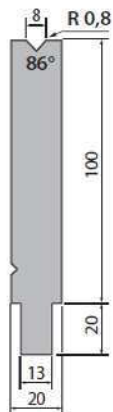
1200 kN/m max.



500 mm	\$ 190	9.0 kg
500 mm sections	\$ 240	9.0 kg

WD100.08.86

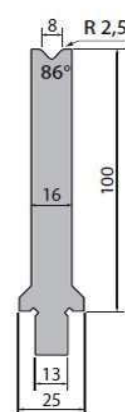
1150 kN/m max.



500 mm	\$ 190	8.0 kg
500 mm sections	\$ 240	8.0 kg

WD100.08.86

400 kN/m max.



515 mm	\$ 190	7.8 kg
500 mm sections	\$ 240	7.8 kg

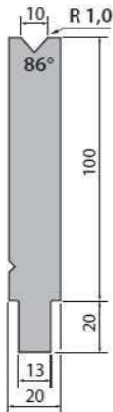
Dies 86°, H=100 mm



WD100.10.86

1100 kN/m max.

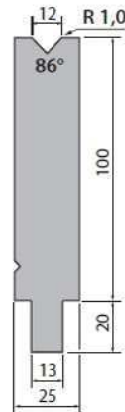
500 mm	\$ 190	8.8 kg
500 mm sections	\$ 240	8.8 kg



WD100.12.86

1200 kN/m max.

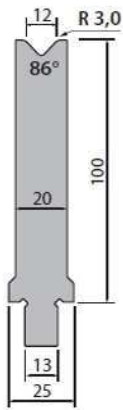
500 mm	\$ 190	10.0 kg
500 mm sections	\$ 240	10.0 kg



WD100.12.86

1200 kN/m max.

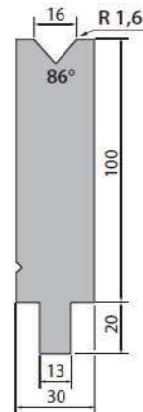
500 mm	\$ 190	8.9 kg
500 mm sections	\$ 240	8.9 kg



WD100.16.86

1200 kN/m max.

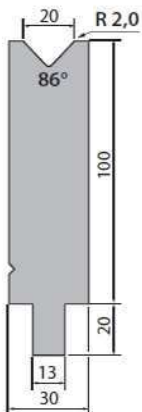
500 mm	\$ 190	12.6 kg
500 mm sections	\$ 240	12.6 kg



WD100.20.86

1150 kN/m max.

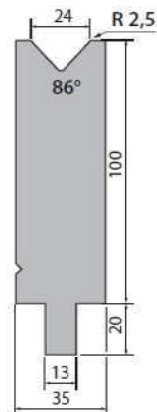
500 mm	\$ 200	12.4 kg
500 mm sections	\$ 250	12.4 kg



WD100.24.86

1200 kN/m max.

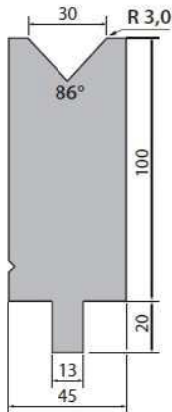
500 mm	\$ 200	12.4 kg
500 mm sections	\$ 250	12.4 kg



Dies 86°, H=100 mm

WD100.30.86

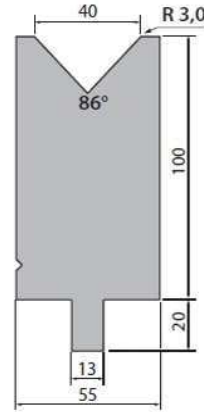
1200 kN/m max.



500 mm	\$ 210	17.8 kg
500 mm sections	\$ 260	17.8 kg

WD100.40.86

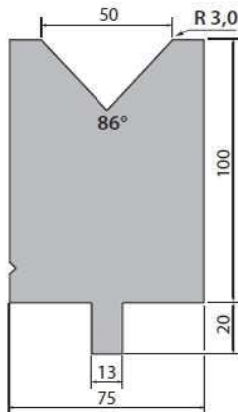
1200 kN/m max.



500 mm	\$ 220	20.0 kg
500 mm sections	\$ 270	20.0 kg

WD100.50.86

1500 kN/m max.

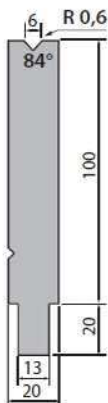


500 mm	\$ 300	27.8 kg
500 mm sections	\$ 350	27.8 kg

Dies 84°, H=100 mm

WD100.06.84

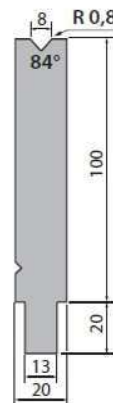
1200 kN/m max.



500 mm	\$ 190	8.8 kg
500 mm sections	\$ 240	8.8 kg

WD100.08.84

1150 kN/m max.



500 mm	\$ 190	8.8 kg
500 mm sections	\$ 240	8.8 kg

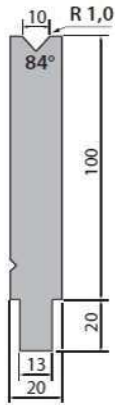
Dies 84°, H=100 mm



WD100.10.84

1100 kN/m max.

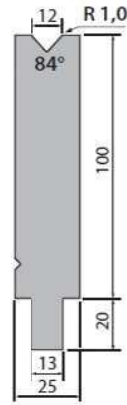
500 mm	\$ 190	8.8 kg
500 mm sections	\$ 240	8.8 kg



WD100.12.84

1200 kN/m max.

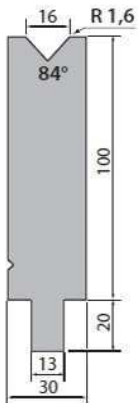
500 mm	\$ 190	10.0 kg
500 mm sections	\$ 240	10.0 kg



WD100.16.84

1200 kN/m max.

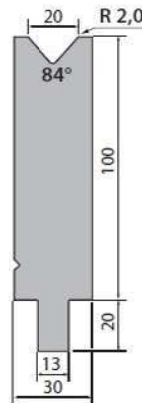
500 mm	\$ 190	12.6 kg
500 mm sections	\$ 240	12.6 kg



WD100.20.84

1150 kN/m max.

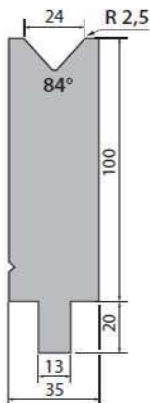
500 mm	\$ 200	12.4 kg
500 mm sections	\$ 250	12.4 kg



WD100.24.84

1200 kN/m max.

500 mm	\$ 200	14.0 kg
500 mm sections	\$ 250	14.0 kg

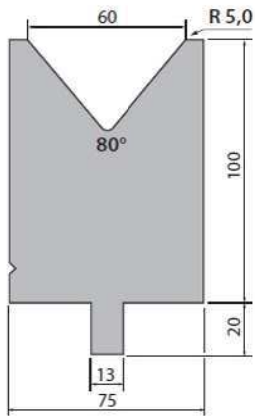


Dies 80°, H=100 mm



WD100.60.80

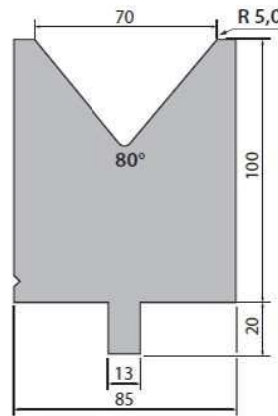
1500 kN/m max.



500 mm	\$ 340	26.0 kg
500 mm sections	\$ 440	26.0 kg

WD100.70.80

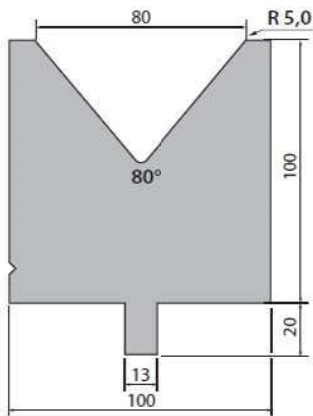
1500 kN/m max.



500 mm	\$ 360	28.6 kg
500 mm sections	\$ 460	28.6 kg

WD100.80.80

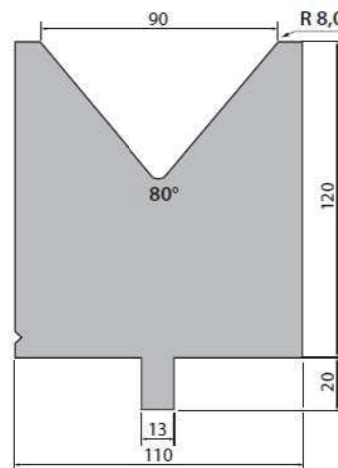
1500 kN/m max.



500 mm	\$ 400	33.0 kg
500 mm sections	\$ 500	33.0 kg

WD120.90.80

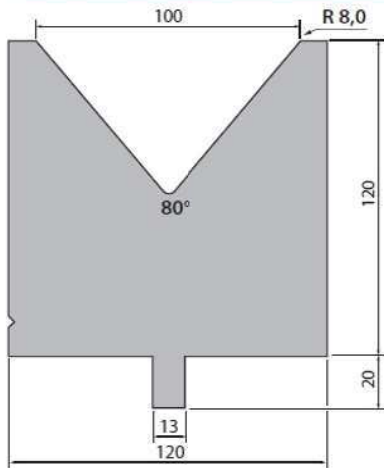
1500 kN/m max.



500 mm	\$ 500	43.0 kg
500 mm sections	\$ 600	43.0 kg

WD120.100.80

1500 kN/m max.



500 mm	\$ 550	45.0 kg
500 mm sections	\$ 650	45.0 kg

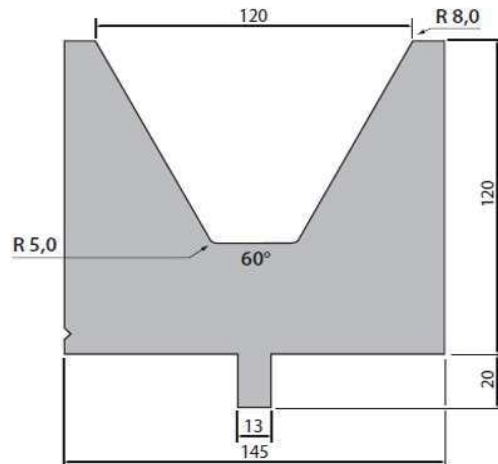
Dies 60°, H=120 mm



WD120.120.60

1600 kN/m max.

500 mm	\$ 600	46.0 kg
500 mm sections	\$ 800	46.0 kg

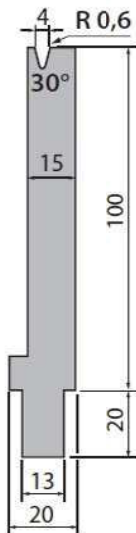


Dies 30°, H=100 mm

WD100.04.30

150 kN/m max.

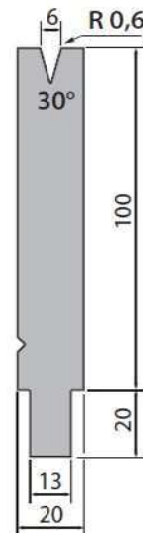
500 mm	\$ 190	7.2 kg
500 mm sections	\$ 240	7.2 kg



WD100.06.30

400 kN/m max.

500 mm	\$ 190	8.8 kg
500 mm sections	\$ 240	8.8 kg



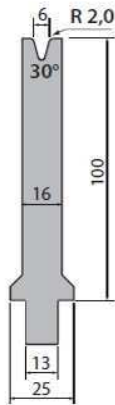
Dies 30°, H=100 mm



WD100.06.30S

400 kN/m max.

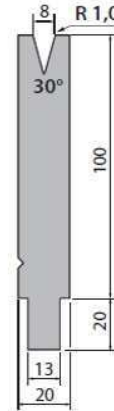
500 mm	\$ 190	7.8 kg
500 mm sections	\$ 240	7.8 kg



WD100.08.30

400 kN/m max.

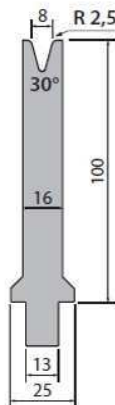
500 mm	\$ 190	8.6 kg
500 mm sections	\$ 240	8.6 kg



WD100.08.30S

400 kN/m max.

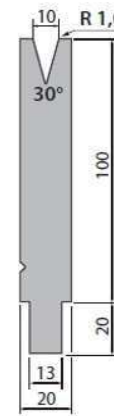
500 mm	\$ 190	7.8 kg
500 mm sections	\$ 240	7.8 kg



WD100.10.30

400 kN/m max.

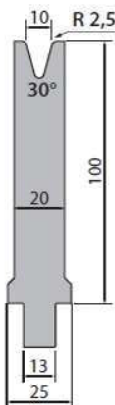
500 mm	\$ 190	8.6 kg
500 mm sections	\$ 240	8.6 kg



WD100.10.30S

400 kN/m max.

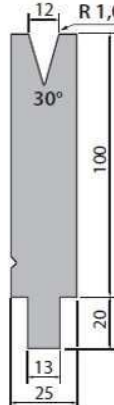
500 mm	\$ 190	9.0 kg
500 mm sections	\$ 240	9.0 kg



WD100.12.30

400 kN/m max.

500 mm	\$ 190	10.4 kg
500 mm sections	\$ 240	10.4 kg

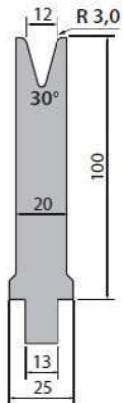


Dies 30°, H=100 mm



WD100.12.30S

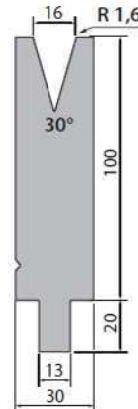
400 kN/m max.



500 mm	\$ 200	9.0 kg
500 mm sections	\$ 250	9.0 kg

WD100.16.30

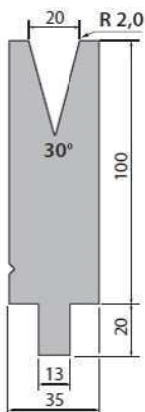
500 kN/m max.



500 mm	\$ 200	12.0 kg
500 mm sections	\$ 250	12.0 kg

WD100.20.30

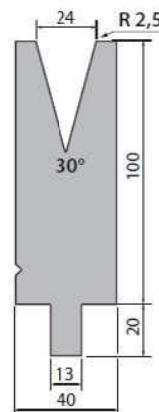
600 kN/m max.



500 mm	\$ 200	13.0 kg
500 mm sections	\$ 250	13.0 kg

WD100.24.30

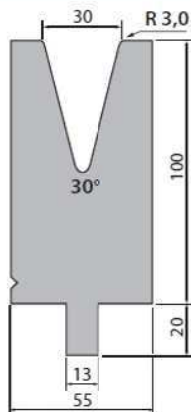
650 kN/m max.



500 mm	\$ 200	15.0 kg
500 mm sections	\$ 250	15.0 kg

WD100.30.30

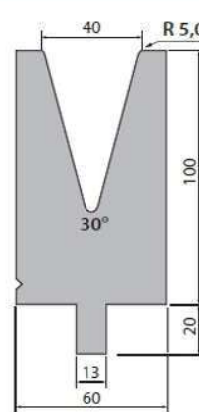
900 kN/m max.



500 mm	\$ 250	19.0 kg
500 mm sections	\$ 300	19.0 kg

WD100.40.30

900 kN/m max.



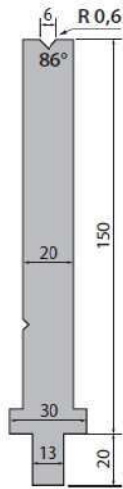
500 mm	\$ 300	19.0 kg
500 mm sections	\$ 350	19.0 kg

Dies 86°, H=150 mm



WD150.06.86

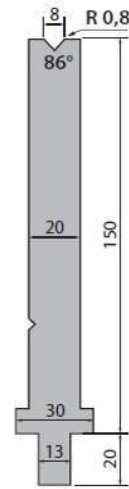
400 kN/m max.



500 mm	\$ 190	13.0 kg
500 mm sections	\$ 240	13.0 kg

WD150.08.86

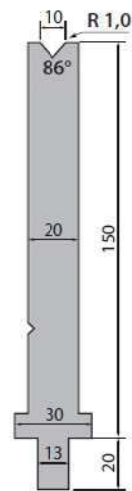
400 kN/m max.



500 mm	\$ 190	13.0 kg
500 mm sections	\$ 240	13.0 kg

WD150.10.86

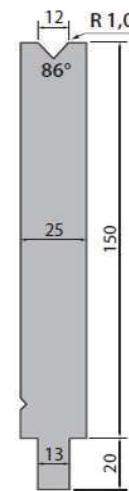
500 kN/m max.



500 mm	\$ 190	13.0 kg
500 mm sections	\$ 240	13.0 kg

WD150.12.86

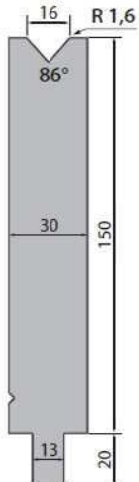
500 kN/m max.



500 mm	\$ 200	15.0 kg
500 mm sections	\$ 250	15.0 kg

WD150.16.86

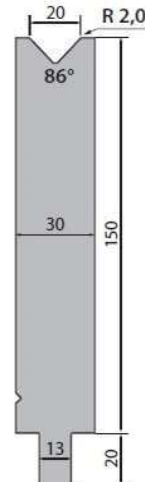
700 kN/m max.



500 mm	\$ 200	18.0 kg
500 mm sections	\$ 250	18.0 kg

WD150.20.86

700 kN/m max.



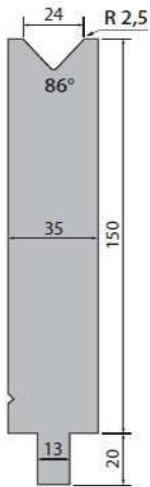
500 mm	\$ 200	18.4 kg
500 mm sections	\$ 250	18.4 kg

Dies 86°, H=150 mm



WD150.24.86

700 kN/m max.

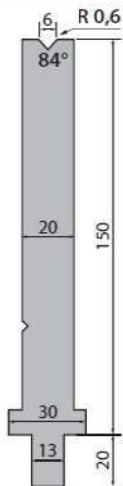


500 mm	\$ 250	21.0 kg
500 mm sections	\$ 300	21.0 kg

Dies 84°, H=150 mm

WD150.06.84

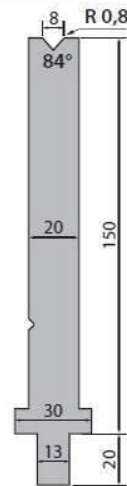
400 kN/m max.



500 mm	\$ 190	13.0 kg
500 mm sections	\$ 240	13.0 kg

WD150.08.84

400 kN/m max.



500 mm	\$ 190	13.0 kg
500 mm sections	\$ 240	13.0 kg

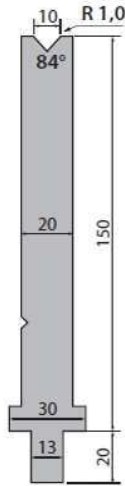
Dies 84°, H=150 mm



WD150.10.84

500 kN/m max.

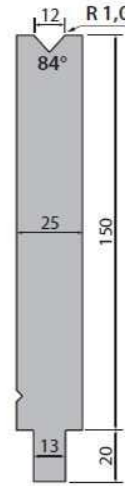
500 mm	\$ 190	13.0 kg
500 mm sections	\$ 240	13.0 kg



WD150.12.84

500 kN/m max.

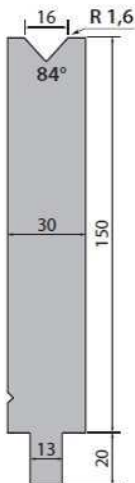
500 mm	\$ 190	15.6 kg
500 mm sections	\$ 240	15.6 kg



WD150.16.84

700 kN/m max.

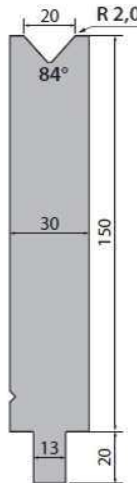
500 mm	\$ 200	18.0 kg
500 mm sections	\$ 300	18.0 kg



WD150.20.84

700 kN/m max.

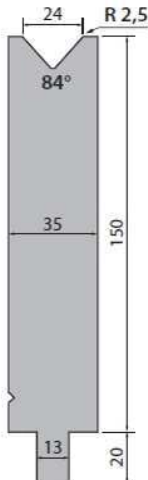
500 mm	\$ 210	18.4 kg
500 mm sections	\$ 310	18.4 kg



WD150.24.84

700 kN/m max.

500 mm	\$ 240	21.0 kg
500 mm sections	\$ 340	21.0 kg



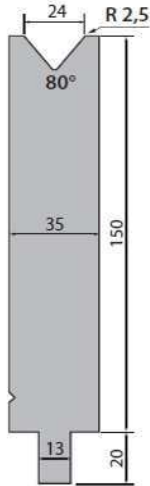
Dies 80°, H=150 mm



WD150.24.80

700 kN/m max.

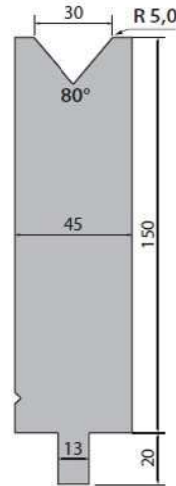
500 mm	\$ 240	21.0 kg
500 mm sections	\$ 340	21.0 kg



WD150.30.80

900 kN/m max.

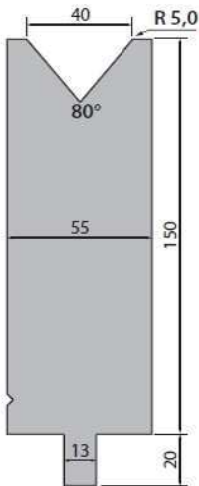
500 mm	\$ 280	26.0 kg
500 mm sections	\$ 380	26.0 kg



WD150.40.80

1200 kN/m max.

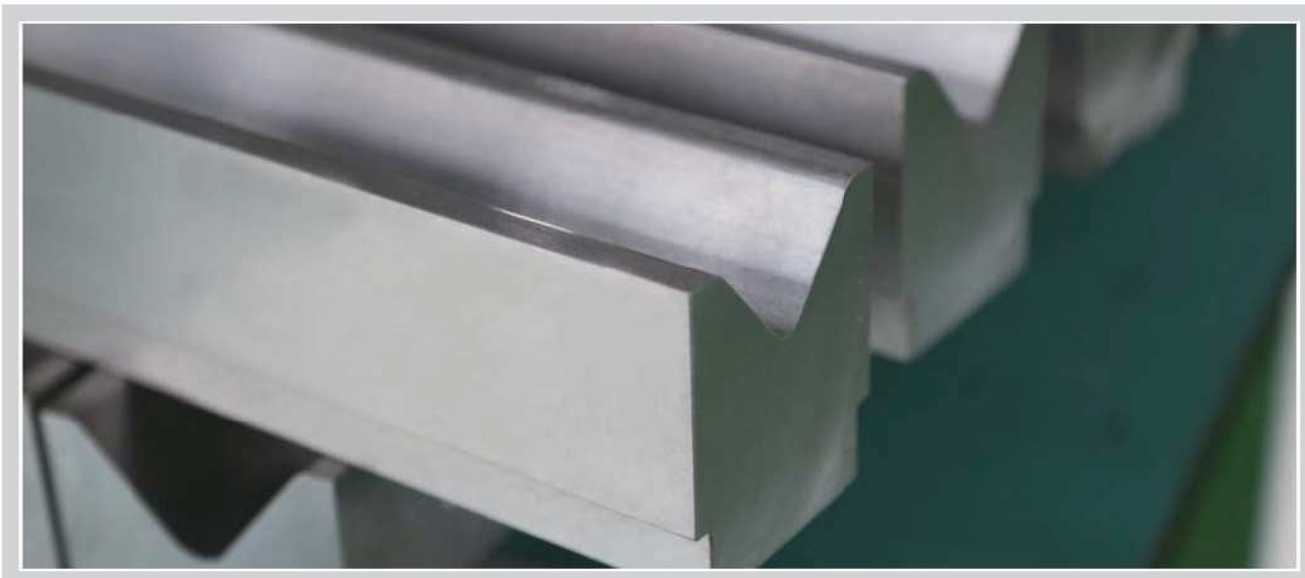
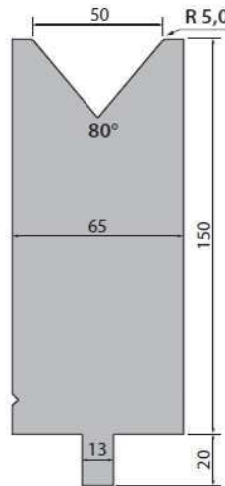
500 mm	\$ 340	31.0 kg
500 mm sections	\$ 440	31.0 kg



WD150.50.80

1500 kN/m max.

500 mm	\$ 450	36.0 kg
500 mm sections	\$ 550	36.0 kg

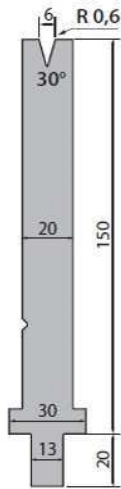


Dies 30°, H=150 mm



WD150.06.30

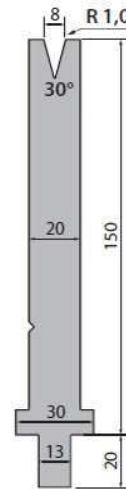
400 kN/m max.



500 mm	\$ 190	13.0 kg
500 mm sections	\$ 240	13.0 kg

WD150.08.30

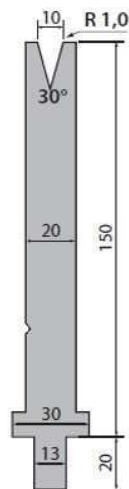
400 kN/m max.



500 mm	\$ 190	12.8 kg
500 mm sections	\$ 240	12.8 kg

WD150.10.30

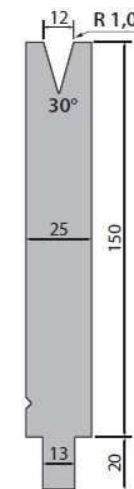
400 kN/m max.



500 mm	\$ 200	12.6 kg
500 mm sections	\$ 250	12.6 kg

WD150.12.30

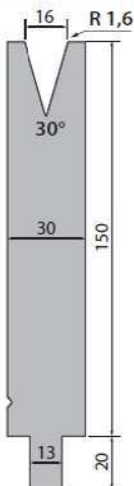
400 kN/m max.



500 mm	\$ 200	15.4 kg
500 mm sections	\$ 300	15.4 kg

WD150.16.30

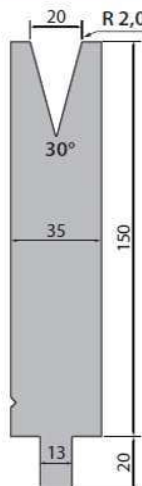
500 kN/m max.



500 mm	\$ 210	17.8 kg
500 mm sections	\$ 310	17.8 kg

WD150.20.30

600 kN/m max.



500 mm	\$ 220	20.0 kg
500 mm sections	\$ 320	20.0 kg

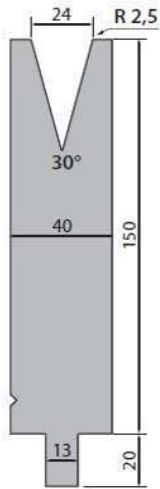
Dies 30°, H=150 mm



WD150.24.30

650 kN/m max.

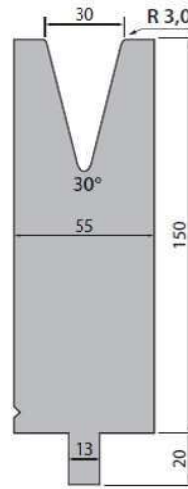
500 mm	\$ 230	24.8 kg
500 mm sections	\$ 330	24.8 kg



WD150.30.30

900 kN/m max.

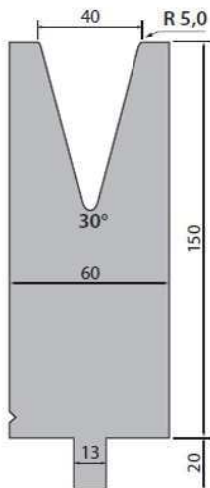
500 mm	\$ 350	24.6 kg
500 mm sections	\$ 450	24.6 kg



WD150.40.30

900 kN/m max.

500 mm	\$ 420	25.4 kg
500 mm sections	\$ 520	25.4 kg

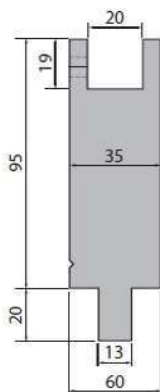


Synthetic Dies, H=100 mm

SD95.20

1000 kN/m max.

835 mm	\$ 280	12.0 kg
415 mm	\$ 150	6.0 kg



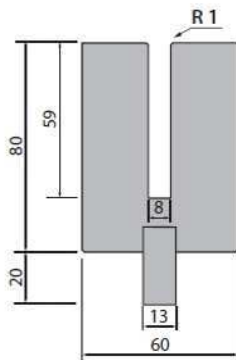
Hemming Dies



WHT195.28.8

800/1000 kN/m max.

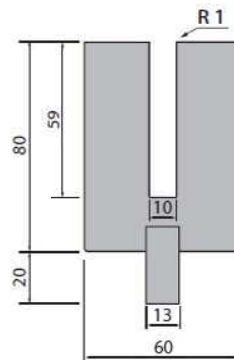
525 mm	\$ 300	12.0 kg
525 mm sections	\$ 350	12.0 kg



WHT195.24.10

800/1000 kN/m max.

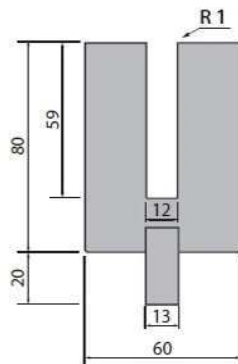
525 mm	\$ 300	11.8 kg
525 mm sections	\$ 350	11.8 kg



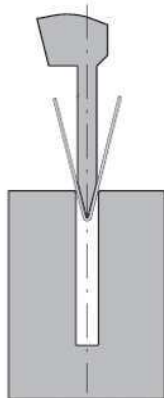
WHT195.24.12

800/1000 kN/m max.

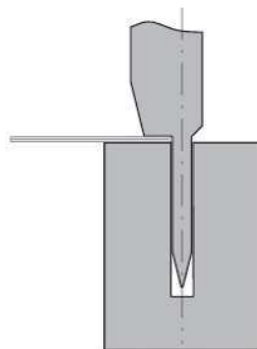
525 mm	\$ 300	11.5 kg
525 mm sections	\$ 350	11.5 kg



Example of application



800 kN/m max.



1000 kN/m max.



S (mm)	A (mm)	R.45 Kg/mm ² t/m	R.70 Kg/mm ² t/m
0.6	3.0	9	15
0.8	3.0	12	20
1.0	3.5	15	25
1.25	3.5	17	26

S (mm)	A (mm)	R.45 Kg/mm ² t/m	R.70 Kg/mm ² t/m
0.6	1.2	23	35
0.8	1.6	32	50
1.0	1.0	40	60
1.25	2.5	50	80