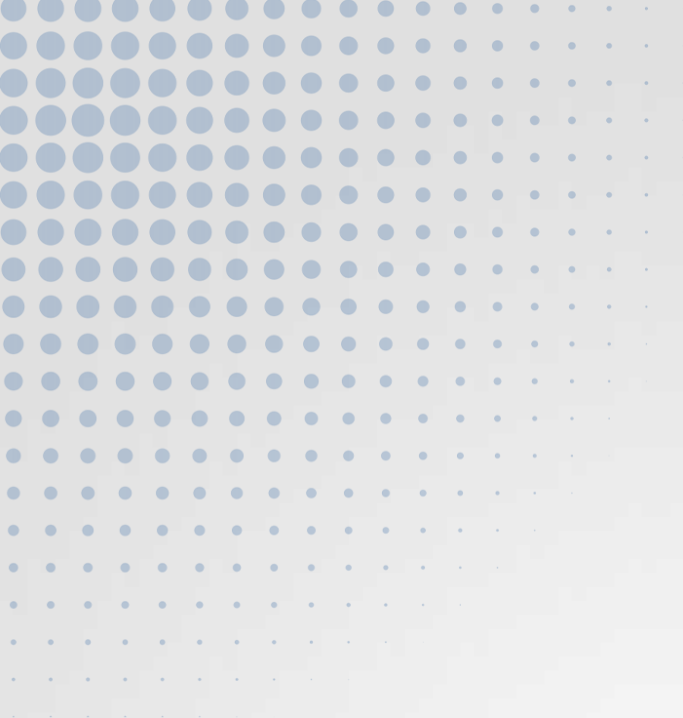




BENDING SOLUTIONS ONE STEP AHEAD

www.fabmax.cn | +86 17705550574 | info@fabmax.cn



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ONE STEP AHEAD



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SINGLE-V DIES

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COMPANY INTRODUCTION

In modern manufacturing, press brake tools, as key processing tools, are widely used in the bending and forming process of metal sheets.

FABMAX, as a manufacturer of press brake tools, we are committed to providing customers with high-quality tools and solutions.

Our goal is to ensure that each tool can meet the standards of precision and high durability through advanced production technology and rigorous quality control system, helping customers improve production efficiency and reduce costs.

Our company has rich industry experience and a professional technical team, and is committed to providing customers with high-quality and efficient press brake tools solutions.

Our products cover a variety of press brake tools, including punch, die, clamping systems, crowning systems, adjustable die, Rolla-V type die, shearing blade, and a series of special tools, etc., which are widely used in metal processing industries such as automobile manufacturing, shipbuilding, electronic equipment, furniture manufacturing and other fields.

At Fabmax, our value proposition centers around precision, durability, customization and quality control in the design and manufacturing of press brake tools.

Precision: We prioritize precision in the design and manufacturing processes. Our tools are engineered to exact specifications, ensuring accurate bends every time. This reduces waste and enhances the efficiency of the bending process.

Durability: We use high-grade materials that withstand extreme conditions. Our tools are built to last, withstanding prolonged use and resisting wear and tear. This commitment to durability translates to lower replacement costs for our customers.

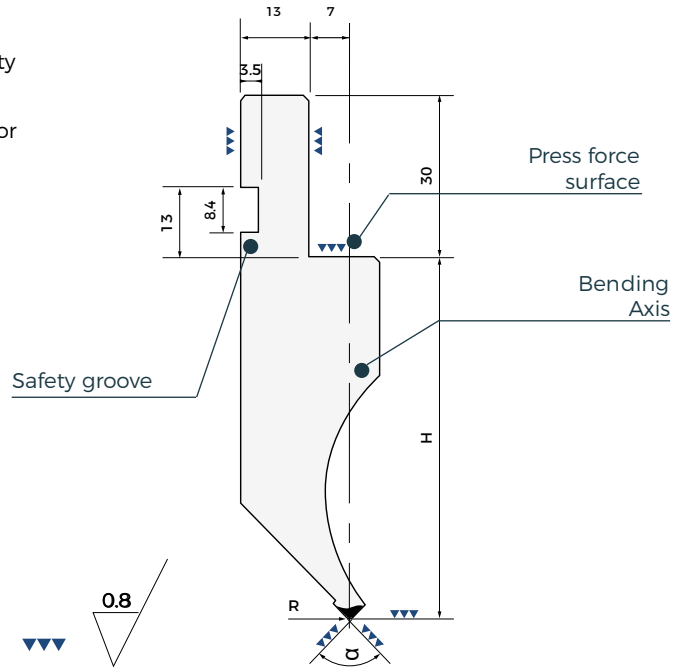
Customization: We understand that different applications require different solutions. Therefore, we offer customizable options for our bending tools to meet specific client needs, ensuring maximum versatility and efficiency in their operations.

Quality Control: Our manufacturing process includes rigorous quality control measures at every stage. We conduct extensive testing to ensure that each tool meets our high standards before it reaches our customers.

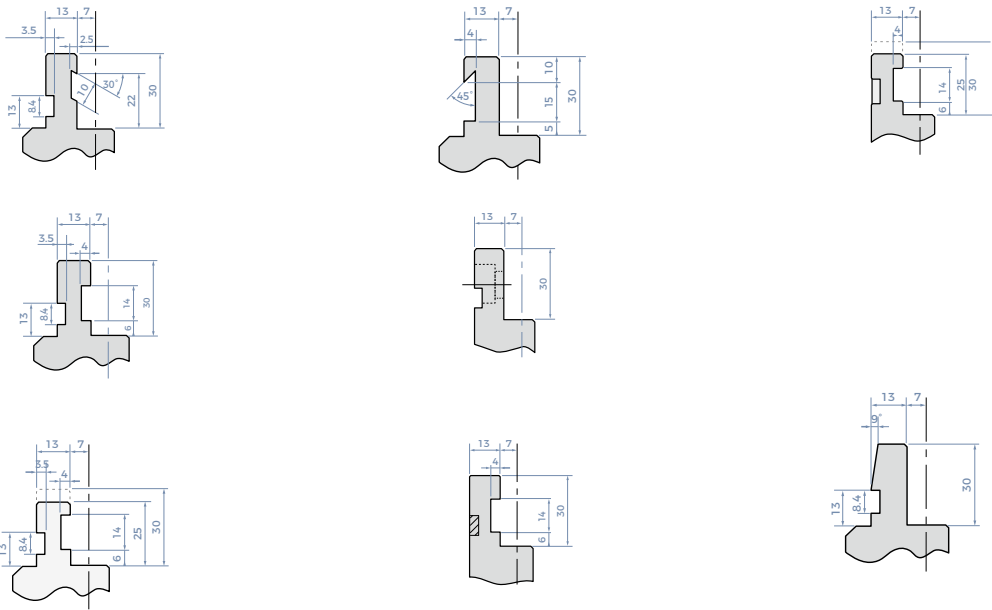
OUR VALUES

SEGMENTATION

- ▶ Punches are standardized with a 8.4 x 3.5 mm safety groove, which keeps the tool from falling out
- ▶ Depending on the clamping system: horizontal or vertical, tool +change is possible



MODIFICATIONS FROM SAFETY GROOVES



STANDARD LENGTH

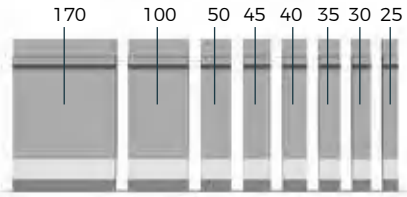
▶ PUNCHES

| | |
|--------|--|
| 525 mm | |
| 415 mm | |
| 835 mm | |
| 900 mm | |

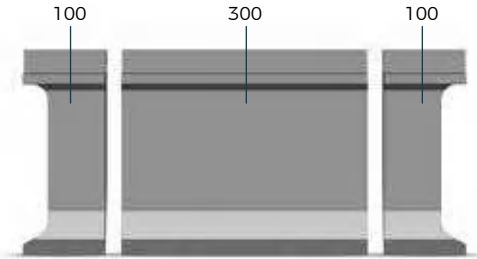
SEGMENTATION

PUNCHES

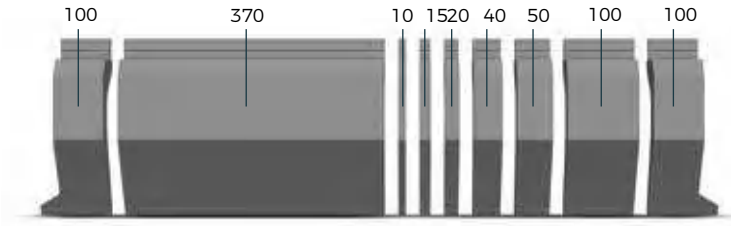
FA: 495 mm - 8 segments



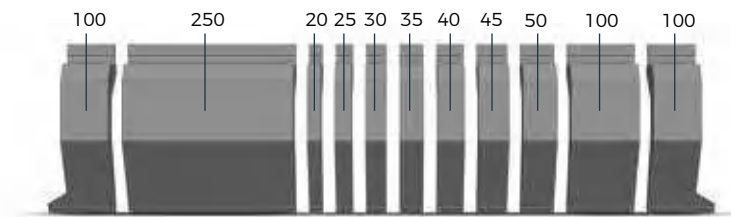
FB: 500 mm - 3 segments



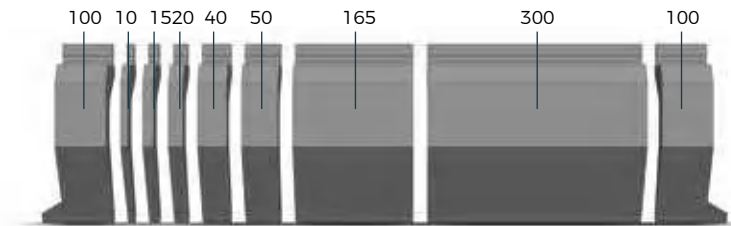
F: 805 mm - 9 segments



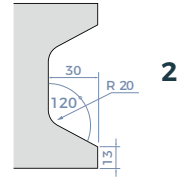
FX: 795 mm - 11 segments



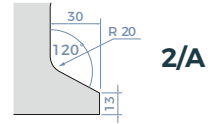
FC: 800 mm - 9 segments



FMP types

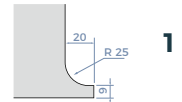


2

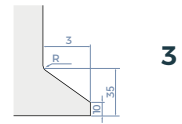


2/A

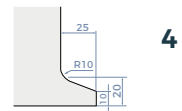
FMP types



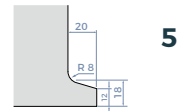
1



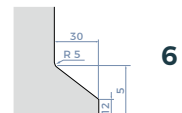
3



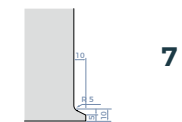
4



5



6



7

PUNCHES

FMP.66.88°.R3
1000KN/m max. **88°**

- R=3[mm]
- H=65.5
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 11.0 kg | \$ 120 |
| 415 mm | 4.5 kg | \$ 80 |
| 805 mm | 11.0 kg | \$ 155 |

FMP.67.88°.R025
1000KN/m max. **88°**

- R=0.25[mm]
- H=66.6
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 11.0 kg | \$ 120 |
| 415 mm | 5.0 kg | \$ 80 |
| 805 mm | 11.0 kg | \$ 155 |

FMP.105.88°.R08
1000KN/m max. **88°**

- R=0.8[mm]
- H=104.65
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 17.0 kg | \$ 170 |
| 415 mm | 9.0 kg | \$ 105 |
| 805 mm | 17.0 kg | \$ 220 |

FMP.66.88°.R06
1000KN/m max. **88°**

- R=0.6[mm]
- H=66.4
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 11.0 kg | \$ 120 |
| 415 mm | 5.0 kg | \$ 80 |
| 805 mm | 11.0 kg | \$ 155 |

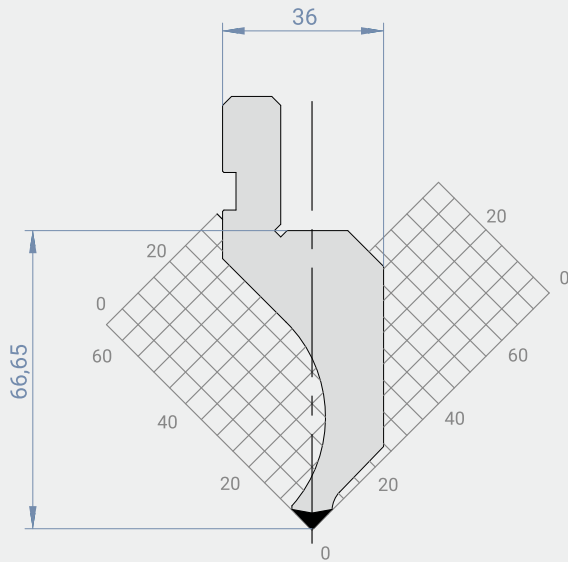
FMP.67.88°.R08

600KN/m max.

88°

- R=0.8[mm]
- H=66.65
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 11.0 kg | \$ 150 |
| 415 mm | 6.0 kg | \$ 100 |
| 805 mm | 12.0 kg | \$ 190 |



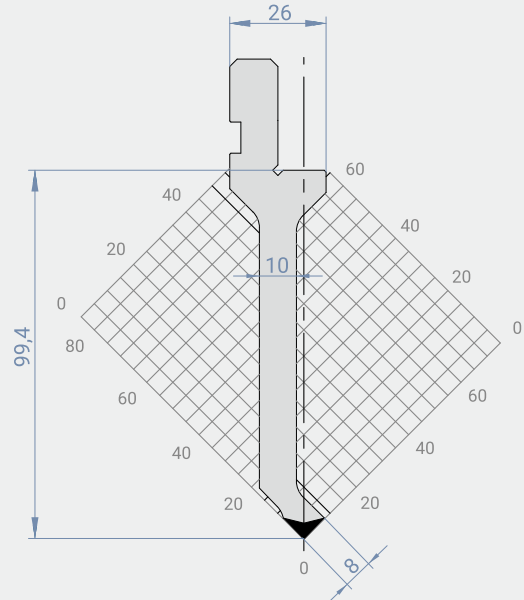
FMP.99.88°.R06

500KN/m max.

88°

- R=0.6[mm]
- H=99.4
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 10.0 kg | \$ 200 |
| 415 mm | 5.0 kg | \$ 120 |
| 805 mm | 10.0 kg | \$ 260 |



PUNCHES



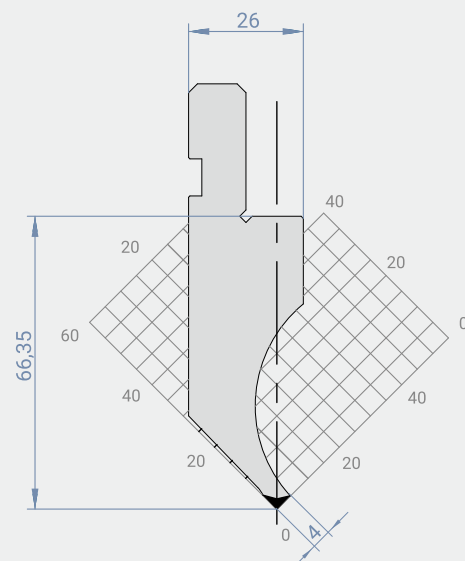
FMP.66.88°.R025

350KN/m max.

88°

- R=0.25[mm]
- H=66.35
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 11.0 kg | \$ 120 |
| 415 mm | 4.5 kg | \$ 80 |
| 805 mm | 11.0 kg | \$ 155 |



FMP.99.88°.R025

500KN/m max. 88°

- R=0.25[mm]
- H=99.35
- 42CrMo

| | | |
|--------|--------|--------|
| 835 mm | 9.0 kg | \$ 200 |
| 415 mm | 4.0 kg | \$ 120 |
| 805 mm | 9.0 kg | \$ 260 |

FMP.84.88°.R06

200KN/m max. 88°

- R=0.6[mm]
- H=84.15
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 14.0 kg | \$ 160 |
| 415 mm | 7.5 kg | \$ 110 |
| 805 mm | 14.0 kg | \$ 200 |

FMP.90.88°.R08A

500KN/m max. 88°

- R=0.8[mm]
- H=89.65
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 21.0 kg | \$ 320 |
| 415 mm | 10.0 kg | \$ 180 |
| 805 mm | 21.0 kg | \$ 420 |

FMP.90.88°.R08B

600KN/m max. 88°

- R=0.8[mm]
- H=89.65
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 21.0 kg | \$ 320 |
| 415 mm | 10.5 kg | \$ 180 |
| 805 mm | 21.0 kg | \$ 420 |

FMP.89.88°.R3
600KN/m max. **88°**

- R=3[mm]
- H=88.5
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 21.0 kg | \$ 320 |
| 415 mm | 10.0 kg | \$ 180 |
| 805 mm | 21.0 kg | \$ 420 |

FMP.90.88°.R025
600KN/m max. **88°**

- R=0.25[mm]
- H=89.6
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 21.0 kg | \$ 320 |
| 415 mm | 10.0 kg | \$ 180 |
| 805 mm | 21.0 kg | \$ 420 |

FMP.120.88°.R08
500KN/m max. **88°**

- R=0.8[mm]
- H=120
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 24.0 kg | \$ 340 |
| 415 mm | 12.0 kg | \$ 190 |
| 805 mm | 24.0 kg | \$ 440 |

FMP.120.88°.R3
500KN/m max. **88°**

- R=3[mm]
- H=119.03
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 24.0 kg | \$ 340 |
| 415 mm | 12.0 kg | \$ 190 |
| 805 mm | 24.0 kg | \$ 440 |

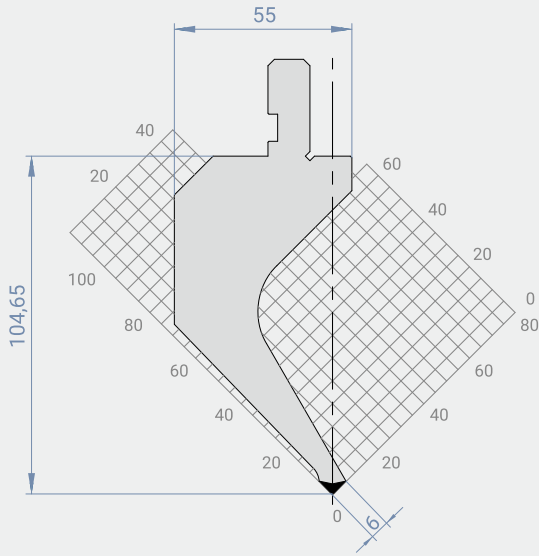
FMP.105.88°.R08A

500KN/m max.

88°

- R=0.8[mm]
- H=104.65
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 23.0 kg | \$ 320 |
| 415 mm | 11.0 kg | \$ 180 |
| 805 mm | 23.0 kg | \$ 420 |



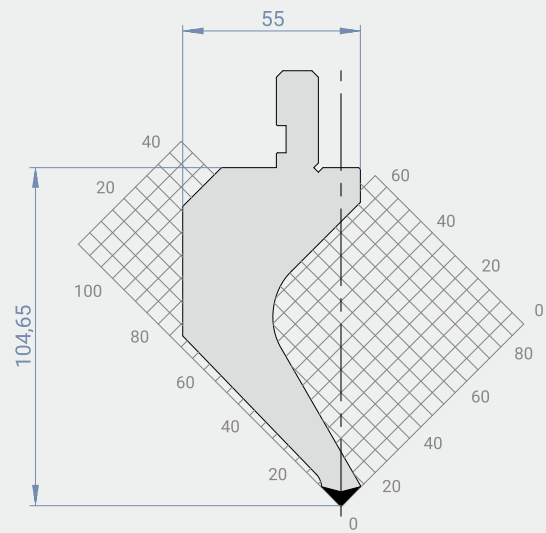
FMP.105.88°.R08B

500KN/m max.

88°

- R=0.8[mm]
- H=104.65
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 23.0 kg | \$ 320 |
| 415 mm | 11.0 kg | \$ 180 |
| 805 mm | 23.0 kg | \$ 420 |



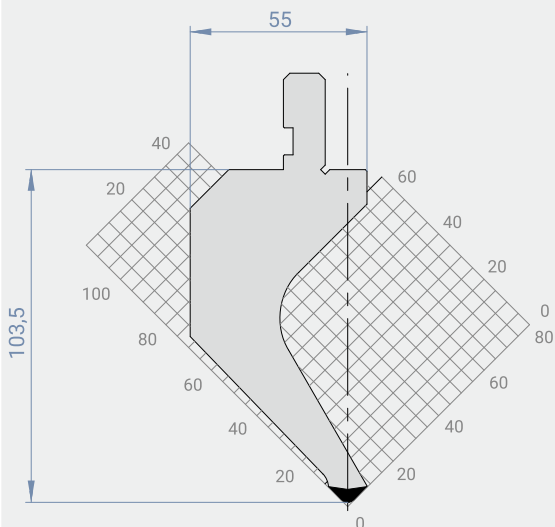
FMP.104.88°.R3

500KN/m max.

88°

- R=3[mm]
- H=103.5
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 23.0 kg | \$ 320 |
| 415 mm | 11.0 kg | \$ 180 |
| 805 mm | 23.0 kg | \$ 420 |



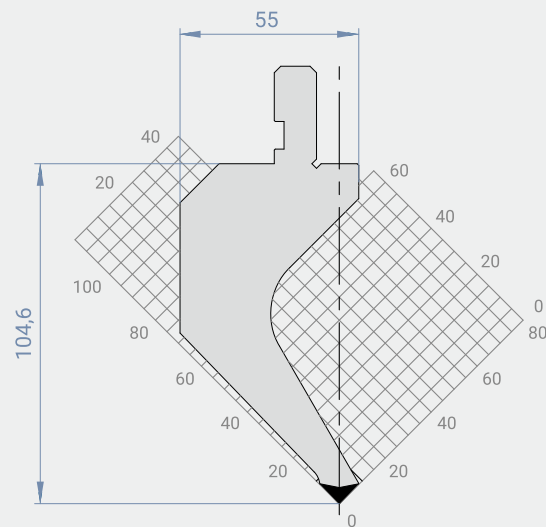
FMP.105.88°.R025

500KN/m max.

88°

- R=0.25[mm]
- H=104.6
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 23.0 kg | \$ 320 |
| 415 mm | 11.0 kg | \$ 180 |
| 805 mm | 23.0 kg | \$ 420 |



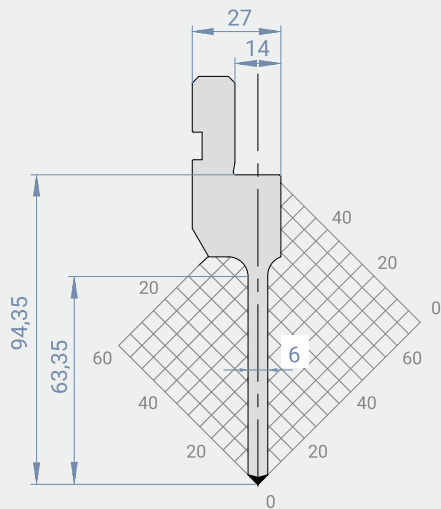
FMP.94.88°.R025

500KN/m max.

88°

- R=0.25[mm]
- H=94.35
- 42CrMo

| | | |
|--------|--------|--------|
| 835 mm | 8.0 kg | \$ 220 |
| 415 mm | 4.0 kg | \$ 130 |
| 805 mm | 8.0 kg | \$ 285 |



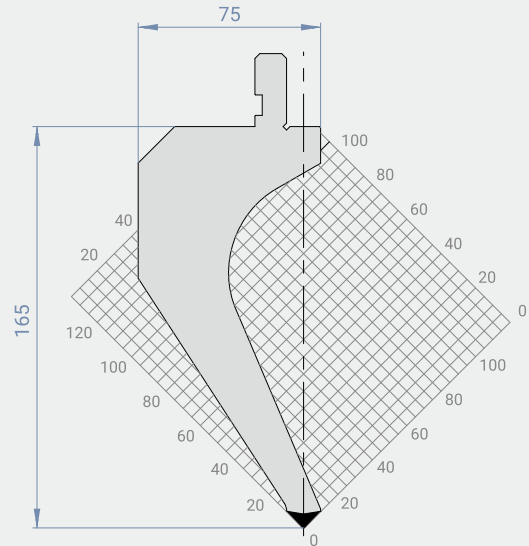
FMP.165.88°.R08

600KN/m max.

88°

- R=0.8[mm]
- H=165
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 41.0 kg | \$ 360 |
| 415 mm | 20.5 kg | \$ 200 |
| 805 mm | 41.0 kg | \$ 460 |



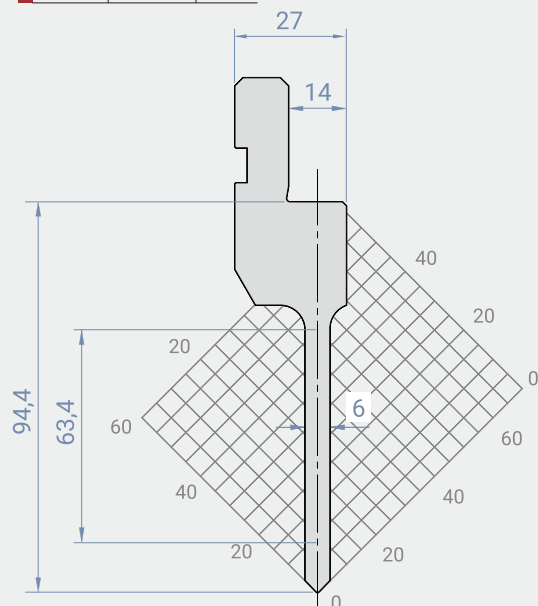
FMP.94.88°.R06

500KN/m max.

88°

- R=0.6[mm]
- H=94.4
- 42CrMo

| | | |
|--------|--------|--------|
| 835 mm | 8.0 kg | \$ 220 |
| 415 mm | 4.0 kg | \$ 130 |
| 805 mm | 8.0 kg | \$ 285 |



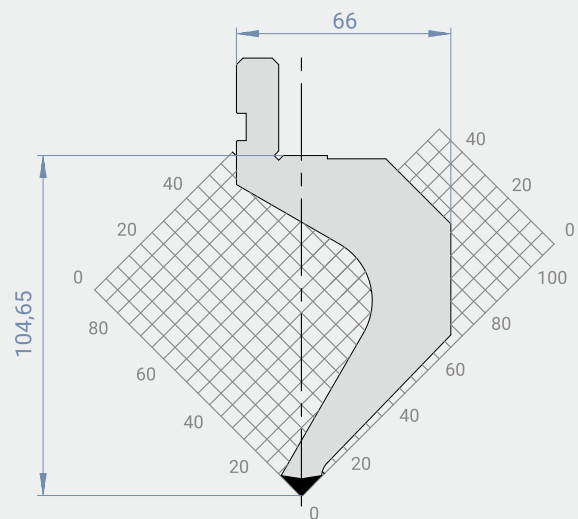
FMP.105.88°.R08C

450KN/m max.

88°

- R=0.8[mm]
- H=104.65
- 42CrMo

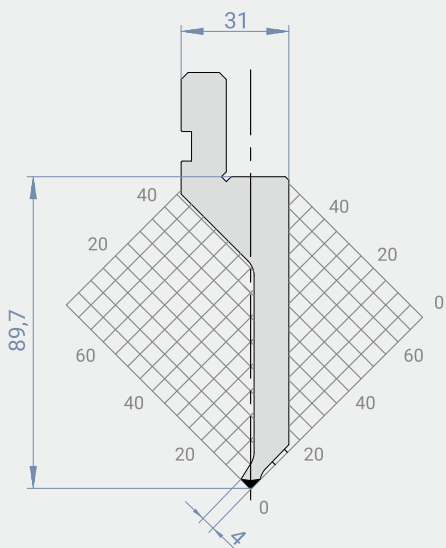
| | | |
|--------|---------|--------|
| 835 mm | 25.0 kg | \$ 320 |
| 415 mm | 12.0 kg | \$ 180 |
| 805 mm | 25.0 kg | \$ 420 |



FMP.90.88°.R06
300KN/m max. **88°**

- R=0.6[mm]
- H=89.7
- 42CrMo

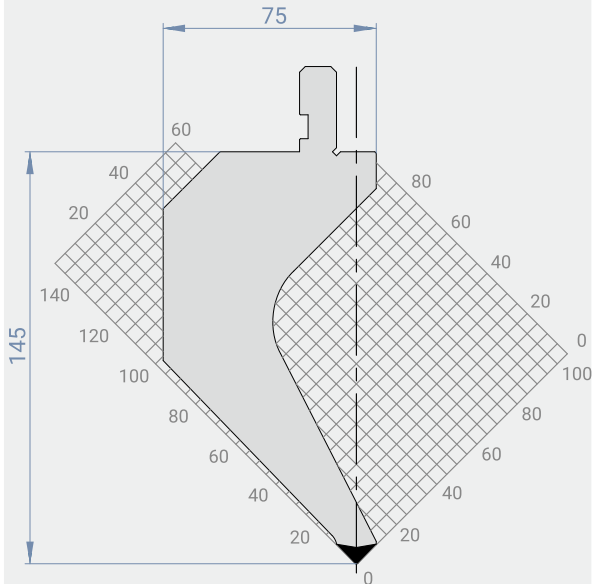
| | | |
|--------|---------|--------|
| 835 mm | 10.0 kg | \$ 160 |
| 415 mm | 5.0 kg | \$ 110 |
| 805 mm | 10.0 kg | \$ 200 |



FMP.145.88°.R08
500KN/m max. **88°**

- R=0.8[mm]
- H=145
- 42CrMo

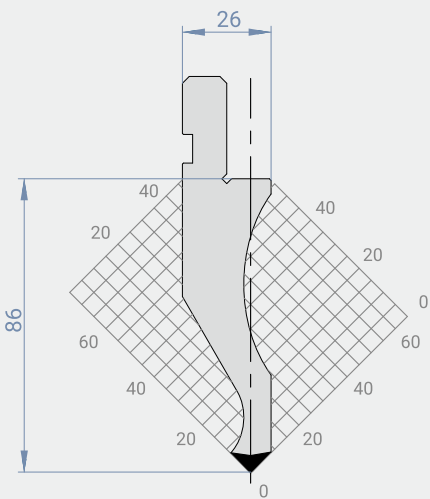
| | | |
|--------|---------|--------|
| 835 mm | 39.0 kg | \$ 350 |
| 415 mm | 19.0 kg | \$ 200 |
| 805 mm | 39.0 kg | \$ 450 |



FMP.86.88°.R08
1000KN/m max. **88°**

- R=0.8[mm]
- H=86
- 42CrMo

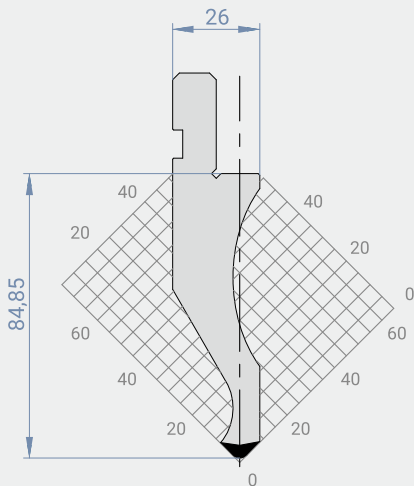
| | | |
|--------|---------|--------|
| 835 mm | 13.0 kg | \$ 150 |
| 415 mm | 6.0 kg | \$ 100 |
| 805 mm | 13.0 kg | \$ 190 |



FMP.85.88°.R3
1000KN/m max. **88°**

- R=3[mm]
- H=84.85
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 13.0 kg | \$ 150 |
| 415 mm | 6.0 kg | \$ 100 |
| 805 mm | 13.0 kg | \$ 190 |



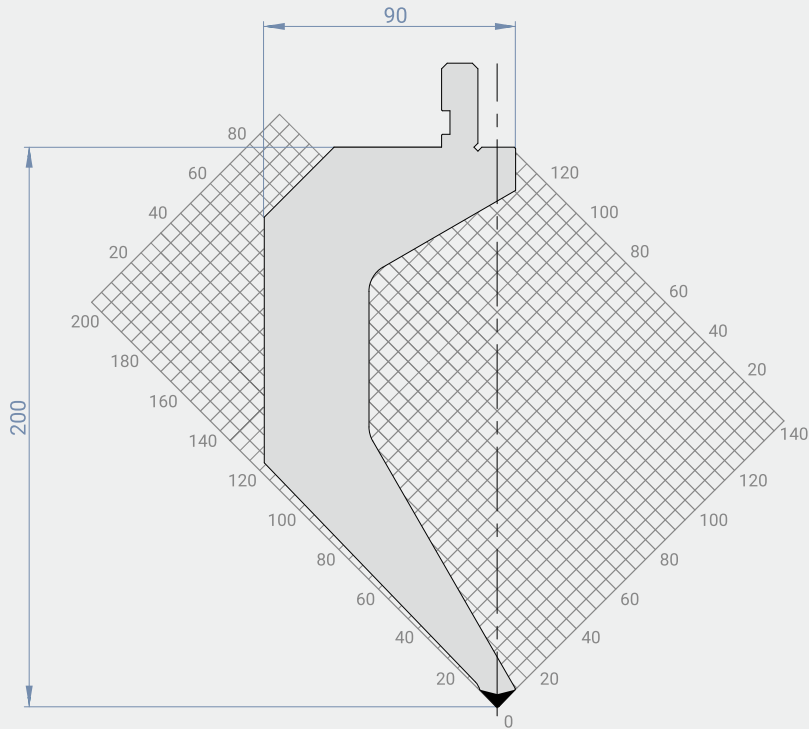
FMP.200.88°.R08

850KN/m max.

88°

- R=0.8[mm]
- H=200
- 42CrMo

| | | |
|--------|---------|--------|
| 505 mm | 32.5 kg | \$ 720 |
| 805 mm | 54.0 kg | \$ 900 |



PUNCHES

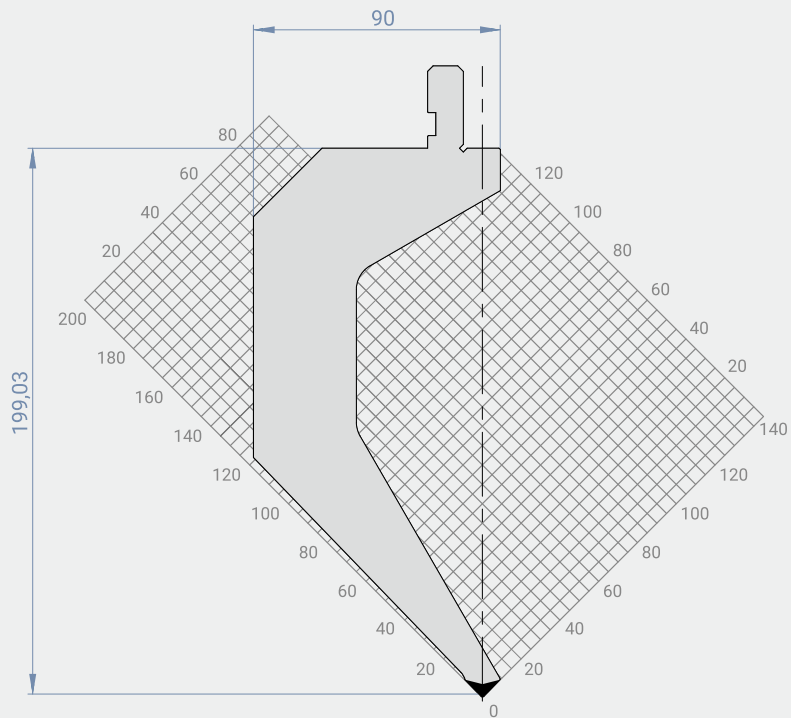
FMP.199.88°.R3

850KN/m max.

88°

- R=3[mm]
- H=199.03
- 42CrMo

| | | |
|--------|---------|--------|
| 505 mm | 32.5 kg | \$ 720 |
| 805 mm | 54.0 kg | \$ 900 |



FMP.66.85°.R3
1000KN/m max. **85°**

- R=3[mm]
- H=65.5
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 11.0 kg | \$ 120 |
| 415 mm | 5.0 kg | \$ 80 |
| 805 mm | 11.0 kg | \$ 155 |

FMP.67.85°.R08
1000KN/m max. **85°**

- R=0.8[mm]
- H=65.6
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 11.0 kg | \$ 120 |
| 415 mm | 5.0 kg | \$ 80 |
| 805 mm | 11.0 kg | \$ 155 |

FMP.105.85°.R08A
1000KN/m max. **85°**

- R=0.8[mm]
- H=104.65
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 17.0 kg | \$ 170 |
| 415 mm | 9.0 kg | \$ 105 |
| 805 mm | 17.0 kg | \$ 220 |

FMP.105.85°.R08B
500KN/m max. **85°**

- R=0.8[mm]
- H=104.6
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 23.0 kg | \$ 340 |
| 415 mm | 11.0 kg | \$ 190 |
| 805 mm | 23.0 kg | \$ 440 |

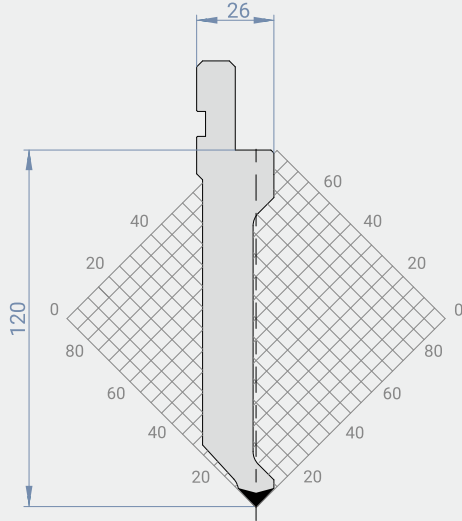
FMP.120.85°.R08

700KN/m max.

85°

- R=0.8[mm]
- H=120
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 15.9 kg | \$ 170 |
| 415 mm | 8.0 kg | \$ 105 |
| 805 mm | 15.9 kg | \$ 220 |



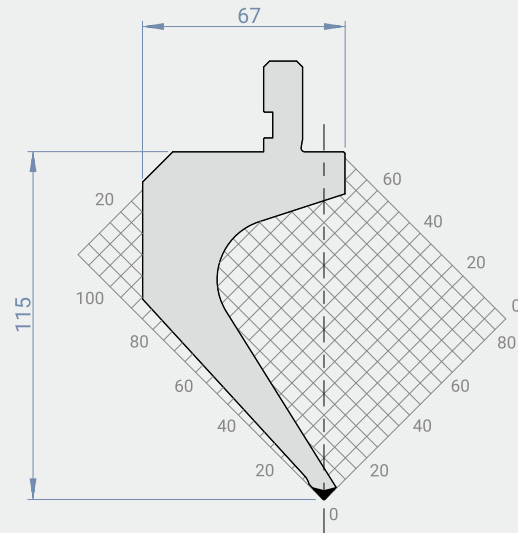
FMP.115.85°.R08

300KN/m max.

85°

- R=0.8[mm]
- H=115
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 23.0 kg | \$ 340 |
| 415 mm | 11.5 kg | \$ 190 |
| 805 mm | 23.0 kg | \$ 440 |



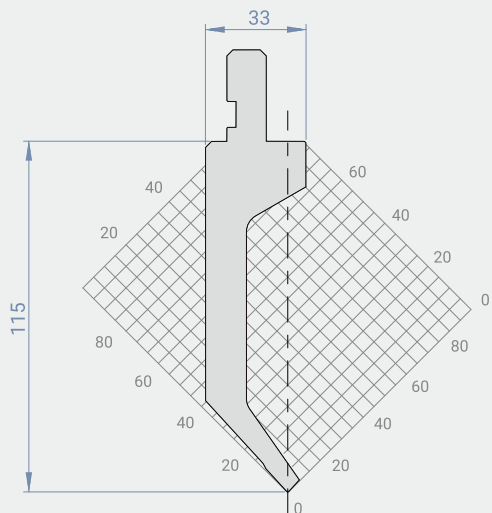
FMP.115.85°.R06

200KN/m max.

85°

- R=0.6[mm]
- H=115
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 14.5 kg | \$ 190 |
| 415 mm | 7.2 kg | \$ 120 |
| 805 mm | 14.5 kg | \$ 250 |



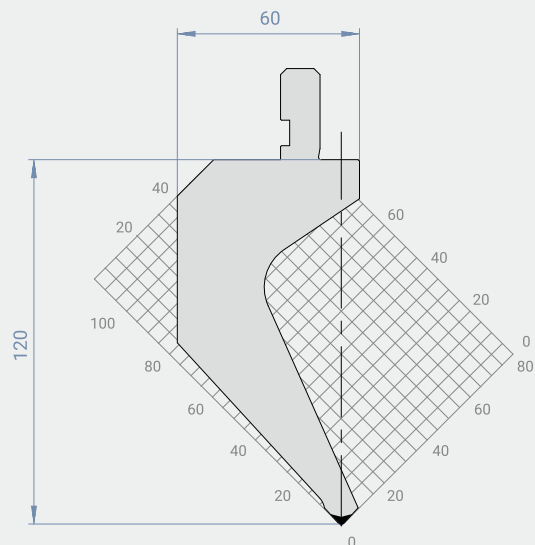
FMP.120.85°.R15

1000KN/m max.

85°

- R=1.5[mm]
- H=120
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 26.7 kg | \$ 340 |
| 415 mm | 13.3 kg | \$ 190 |
| 805 mm | 26.7 kg | \$ 440 |



FMP.105.75°.R08

1000KN/m max. 75°

- R=0.8[mm]
- H=105
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 16.4 kg | \$ 170 |
| 415 mm | 8.1 kg | \$ 105 |
| 805 mm | 15.0 kg | \$ 220 |

FMP.68.75°.R08

1000KN/m max. 75°

- R=0.8[mm]
- H=67.6
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 10.5 kg | \$ 120 |
| 415 mm | 5.2 kg | \$ 80 |
| 805 mm | 9.7 kg | \$ 155 |

FMP.67.60°.R08

800KN/m max. 60°

- R=0.8[mm]
- H=67
- 42CrMo

| | | |
|--------|--------|--------|
| 835 mm | 9.0 kg | \$ 150 |
| 415 mm | 4.0 kg | \$ 95 |
| 805 mm | 9.0 kg | \$ 190 |

FMP.67.60°.R2

800KN/m max. 60°

- R=2[mm]
- H=67
- 42CrMo

| | | |
|--------|--------|--------|
| 835 mm | 9.0 kg | \$ 150 |
| 415 mm | 4.0 kg | \$ 95 |
| 805 mm | 9.0 kg | \$ 190 |

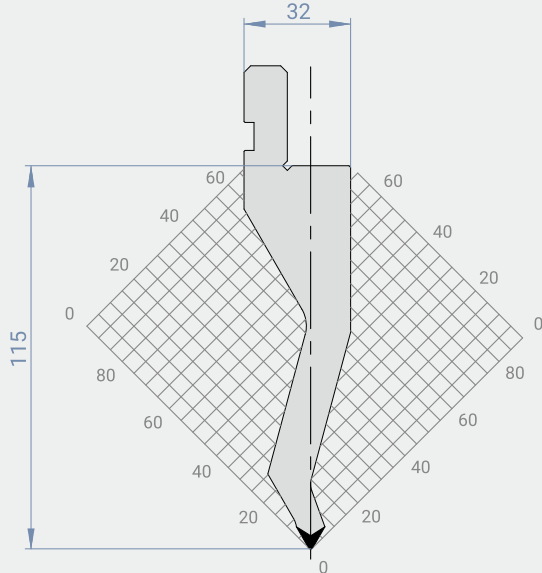
FMP.115.60°.R08A

600KN/m max.

60°

- R=0.8[mm]
- H=115
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 15.0 kg | \$ 170 |
| 415 mm | 7.0 kg | \$ 105 |
| 805 mm | 15.0 kg | \$ 220 |



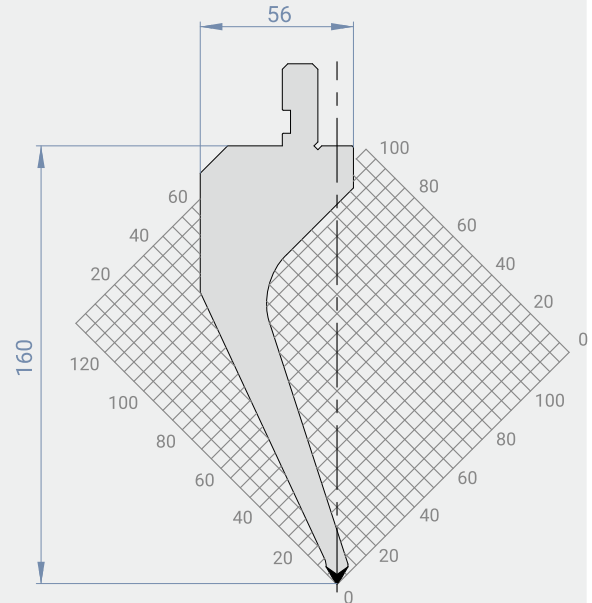
FMP.160.60°.R08

400KN/m max.

60°

- R=0.8[mm]
- H=160
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 27.0 kg | \$ 350 |
| 415 mm | 13.5 kg | \$ 200 |
| 805 mm | 27.0 kg | \$ 450 |



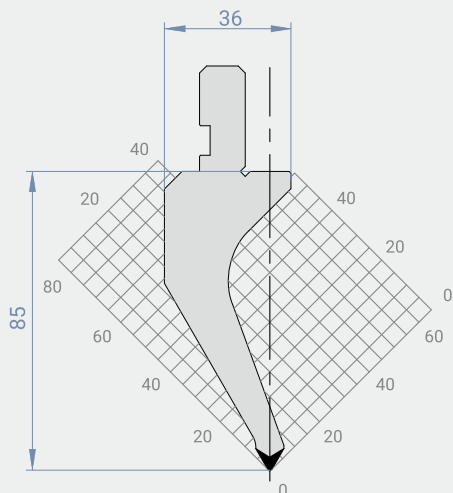
FMP.85.60°.R08

400KN/m max.

60°

- R=0.8[mm]
- H=85
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 12.0 kg | \$ 150 |
| 415 mm | 6.0 kg | \$ 95 |
| 805 mm | 12.0 kg | \$ 190 |



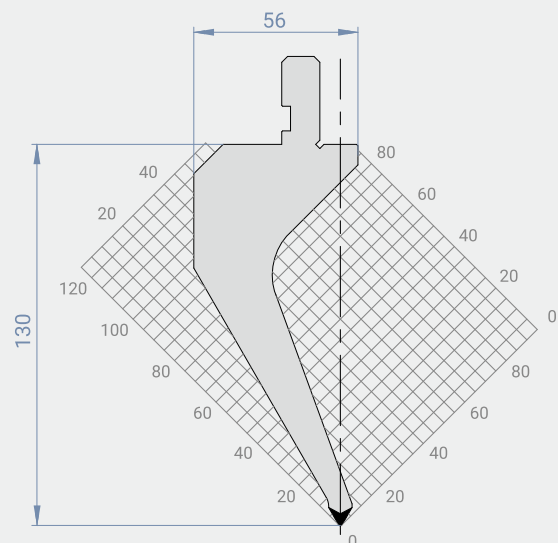
FMP.130.60°.R08

400KN/m max.

60°

- R=0.8[mm]
- H=130
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 23.0 kg | \$ 330 |
| 415 mm | 11.0 kg | \$ 185 |
| 805 mm | 23.0 kg | \$ 430 |

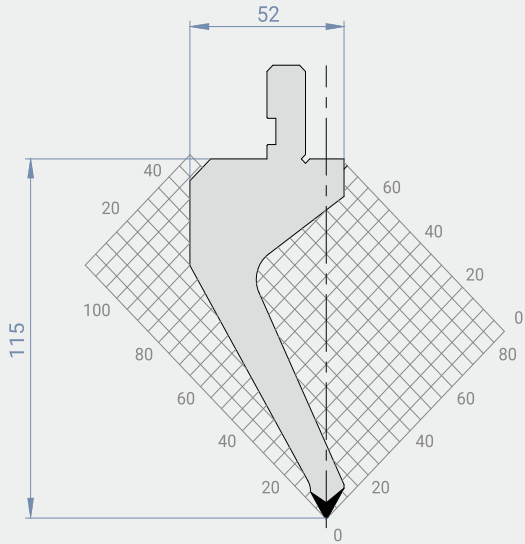


FMP.115.60°.R08B
400KN/m max.

60°

- R=0.8[mm]
- H=115
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 20.0 kg | \$ 340 |
| 415 mm | 10.0 kg | \$ 190 |
| 805 mm | 20.0 kg | \$ 440 |

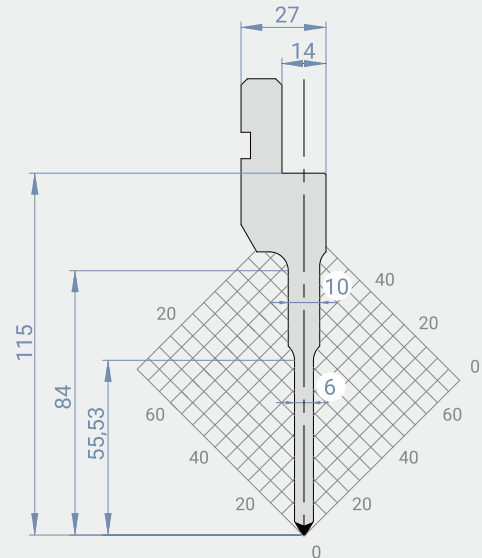


FMP.115.60°.R08C
500KN/m max.

60°

- R=0.8[mm]
- H=115
- 42CrMo

| | | |
|--------|--------|--------|
| 835 mm | 9.0 kg | \$ 240 |
| 415 mm | 4.0 kg | \$ 140 |
| 805 mm | 9.0 kg | \$ 310 |

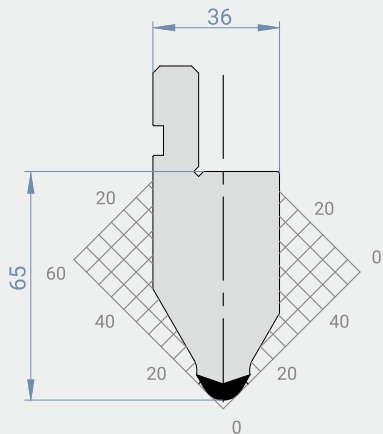


FMP.65.60°.R6
1200KN/m max.

60°

- R=6[mm]
- H=65
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 14.0 kg | \$ 120 |
| 415 mm | 7.0 kg | \$ 80 |
| 805 mm | 14.0 kg | \$ 155 |

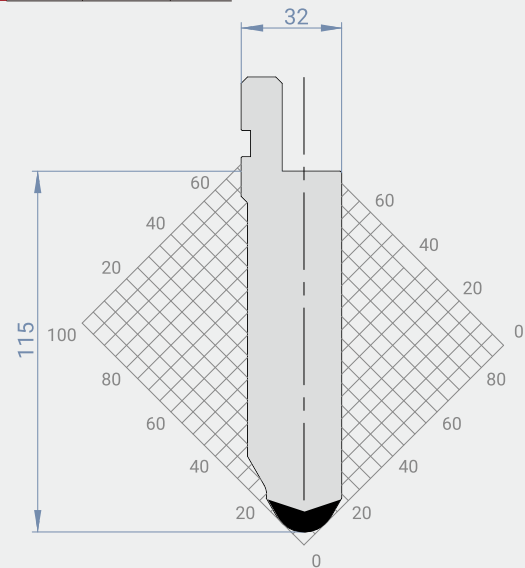


FMP.115.60°.R10
1500KN/m max.

60°

- R=10[mm]
- H=115
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 25.0 kg | \$ 180 |
| 415 mm | 12.0 kg | \$ 110 |
| 805 mm | 25.0 kg | \$ 240 |



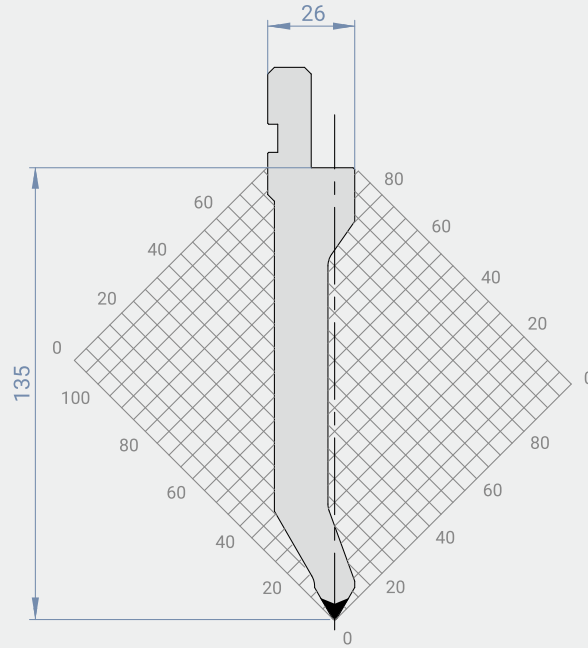
FMP.135.60°.R08

700kN/m max.

60°

- R=0.8[mm]
- H=135
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 19.0 kg | \$ 170 |
| 415 mm | 9.0 kg | \$ 105 |
| 805 mm | 19.0 kg | \$ 220 |



PUNCHES

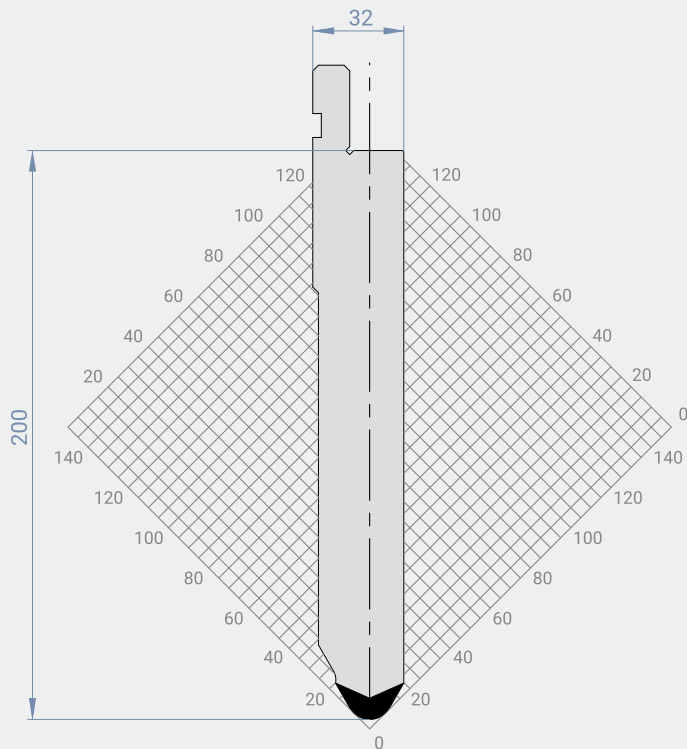
FMP.200.60°.R8

1500kN/m max.

60°

- R=8[mm]
- H=200
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 40.8 kg | \$ 200 |
| 415 mm | 20.4 kg | \$ 120 |
| 805 mm | 40.8 kg | \$ 260 |



FMP.100.45°.R6
1000KN/m max. **45°**

- R=6[mm]
- H=100
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 19.0 kg | \$ 180 |
| 415 mm | 9.0 kg | \$ 110 |
| 805 mm | 19.0 kg | \$ 240 |

FMP.50.45°.R6
1000KN/m max. **45°**

- R=6[mm]
- H=50
- 42CrMo

| | | |
|--------|--------|--------|
| 835 mm | 9.0 kg | \$ 120 |
| 415 mm | 4.0 kg | \$ 80 |
| 805 mm | 9.0 kg | \$ 155 |

FMP.66.45°.R05
800KN/m max. **45°**

- R=0.5[mm]
- H=66.4
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 10.0 kg | \$ 150 |
| 415 mm | 5.0 kg | \$ 95 |
| 805 mm | 10.0 kg | \$ 190 |

FMP.65.45°.R15
800KN/m max. **45°**

- R=1.5[mm]
- H=65.2
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 10.0 kg | \$ 150 |
| 415 mm | 5.0 kg | \$ 95 |
| 805 mm | 10.0 kg | \$ 190 |

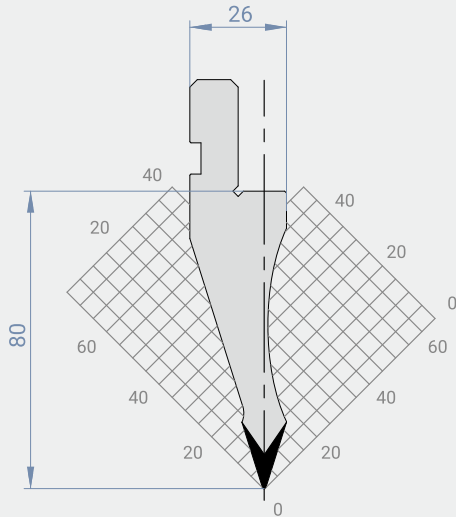
FMP.80.35°.R05

700kN/m max.

35°

- R=0.5[mm]
- H=80
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 11.0 kg | \$ 170 |
| 415 mm | 5.0 kg | \$ 105 |
| 805 mm | 11.0 kg | \$ 220 |



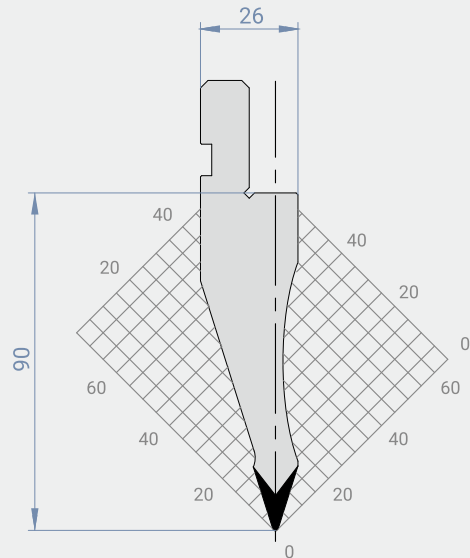
FMP.90.35°.R08

700kN/m max.

35°

- R=0.8[mm]
- H=90
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 12.0 kg | \$ 170 |
| 415 mm | 6.0 kg | \$ 105 |
| 805 mm | 12.0 kg | \$ 220 |



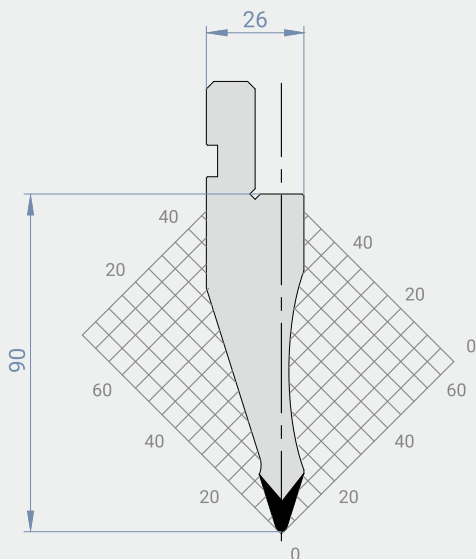
FMP.90.35°.R15

700kN/m max.

35°

- R=15[mm]
- H=90
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 12.0 kg | \$ 170 |
| 415 mm | 6.0 kg | \$ 105 |
| 805 mm | 12.0 kg | \$ 220 |



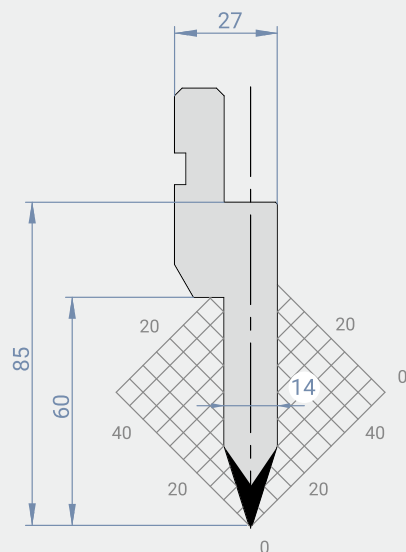
FMP.85.35°.R08

1000kN/m max.

35°

- R=0.8[mm]
- H=85
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 10.0 kg | \$ 180 |
| 415 mm | 5.0 kg | \$ 110 |
| 805 mm | 10.0 kg | \$ 240 |



FMP.104.30°.R06

1000KN/m max. 30°

- R=0.6[mm]
- H=104
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 16.0 kg | \$ 180 |
| 415 mm | 8.0 kg | \$ 110 |
| 805 mm | 16.0 kg | \$ 240 |

FMP.104.30°.R3

1000KN/m max. 30°

- R=3[mm]
- H=104
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 16.0 kg | \$ 180 |
| 415 mm | 8.0 kg | \$ 110 |
| 805 mm | 16.0 kg | \$ 240 |

FMP.104.30°.R5

1000KN/m max. 30°

- R=5[mm]
- H=104
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 16.0 kg | \$ 180 |
| 415 mm | 8.0 kg | \$ 110 |
| 805 mm | 16.0 kg | \$ 240 |

FMP.80.30°.R05

1000KN/m max. 30°

- R=0.5[mm]
- H=80
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 10.0 kg | \$ 170 |
| 415 mm | 5.0 kg | \$ 105 |
| 805 mm | 10.0 kg | \$ 220 |

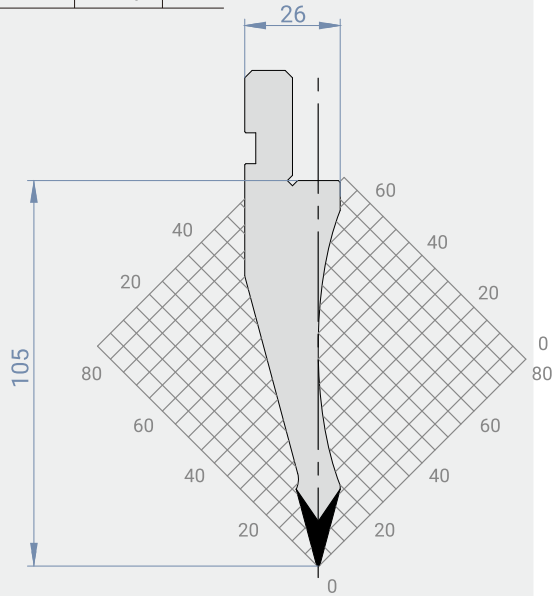
FMP.105.30°.R05

500KN/m max.

30°

- R=0.5[mm]
- H=105
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 11.0 kg | \$ 180 |
| 415 mm | 5.0 kg | \$ 110 |
| 805 mm | 11.0 kg | \$ 240 |



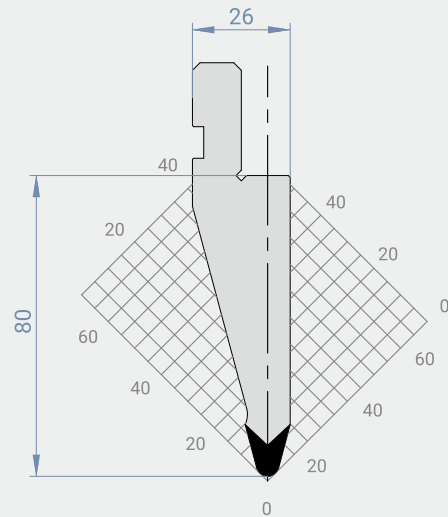
FMP.80.30°.R3

1000KN/m max.

30°

- R=3[mm]
- H=80
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 11.0 kg | \$ 170 |
| 415 mm | 4.5 kg | \$ 105 |
| 805 mm | 11.0 kg | \$ 220 |



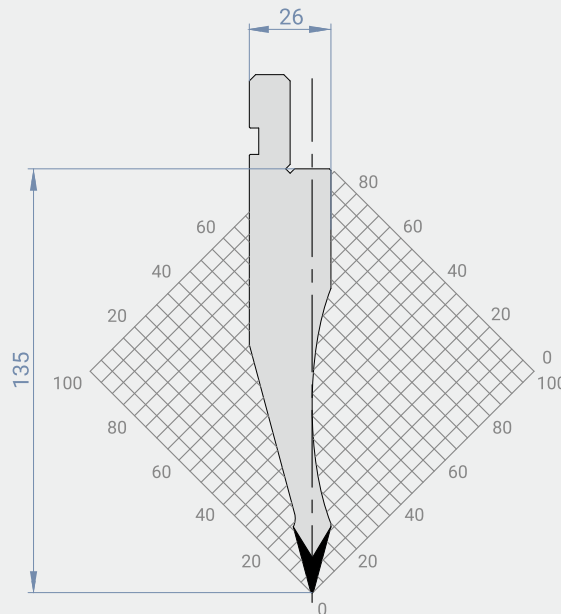
FMP.135.30°.R05

500KN/m max.

30°

- R=0.5[mm]
- H=135
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 19.0 kg | \$ 185 |
| 415 mm | 9.0 kg | \$ 170 |
| 805 mm | 19.0 kg | \$ 245 |



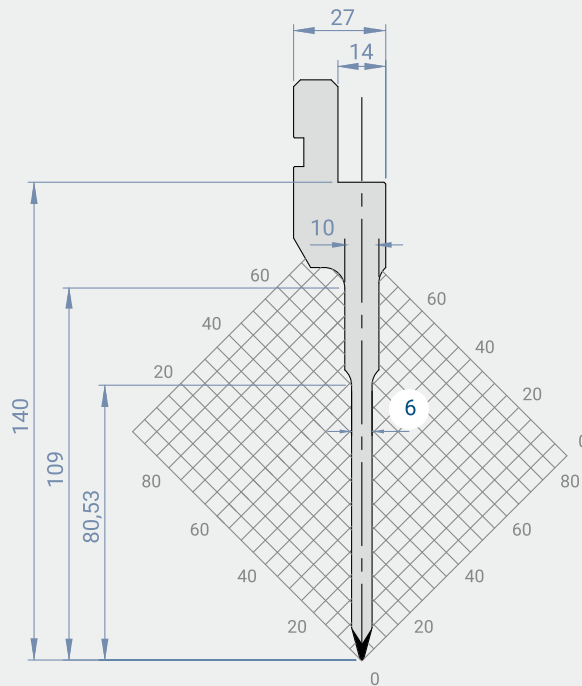
FMP.140.30°.R06

400kN/m max.

30°

- R=0.6[mm]
- H=140
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 11.0 kg | \$ 250 |
| 415 mm | 5.0 kg | \$ 150 |
| 805 mm | 11.0 kg | \$ 320 |



PUNCHES

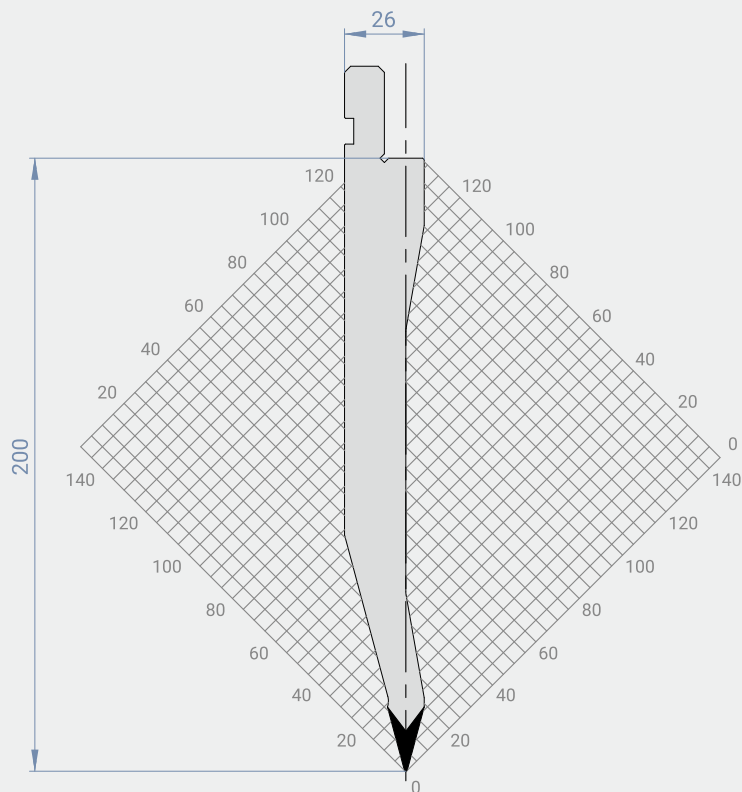
FMP.200.30°.R05

500kN/m max.

30°

- R=0.5[mm]
- H=200
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 25.0 kg | \$ 220 |
| 415 mm | 13.0 kg | \$ 130 |
| 805 mm | 25.0 kg | \$ 285 |



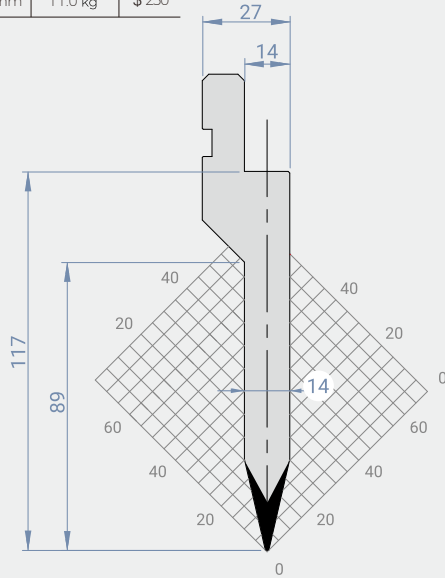
FMP.117.26°.R1

1000KN/m max.

26°

- R=1[mm]
- H=117
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 11.0 kg | \$ 190 |
| 415 mm | 5.0 kg | \$ 120 |
| 805 mm | 11.0 kg | \$ 250 |



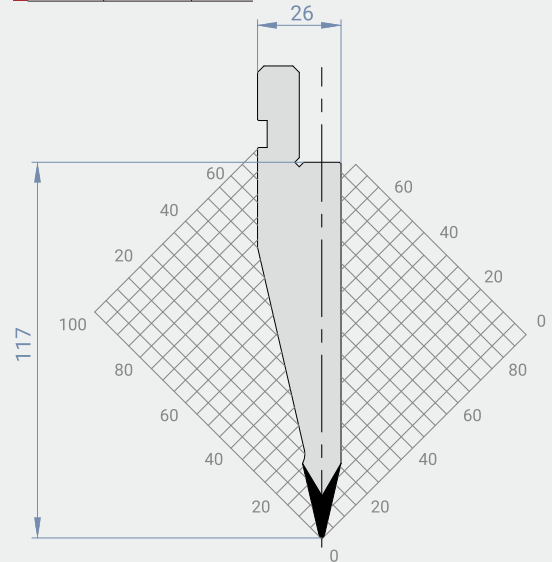
FMP.117.26°.R08

1000KN/m max.

26°

- R=0.8[mm]
- H=117
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 11.0 kg | \$ 180 |
| 415 mm | 4.5 kg | \$ 110 |
| 805 mm | 11.0 kg | \$ 240 |



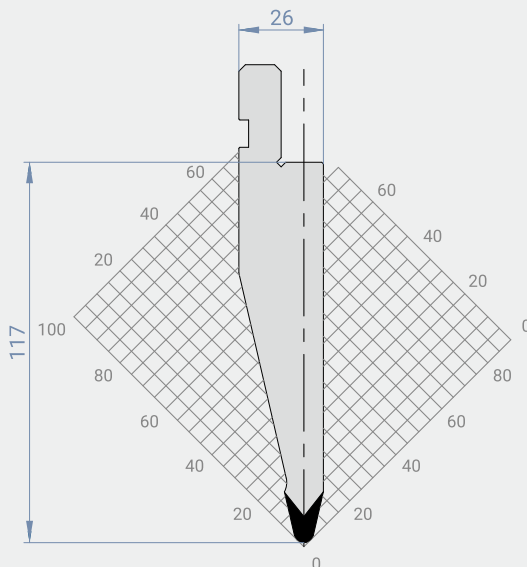
FMP.117.26°.R3

1000KN/m max.

26°

- R=3[mm]
- H=117
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 16.0 kg | \$ 180 |
| 415 mm | 8.0 kg | \$ 110 |
| 805 mm | 16.0 kg | \$ 240 |



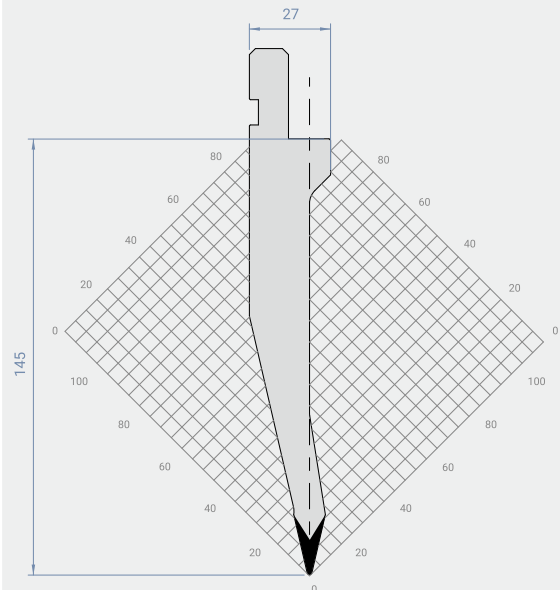
FMP.145.26°.R08

1000KN/m max.

26°

- R=0.8[mm]
- H=145
- 42CrMo

| | | |
|--------|---------|--------|
| 835 mm | 17.0 kg | \$ 200 |
| 415 mm | 9.0 kg | \$ 120 |
| 805 mm | 17.0 kg | \$ 260 |

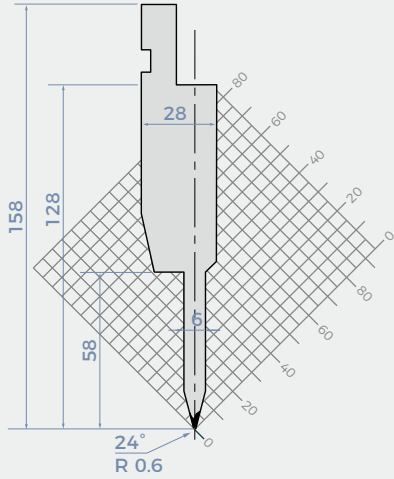


FMHP.128.24°.6

900-1150N/mm².

24°

| | | |
|--------|---------|--------|
| 835 mm | 18.0 kg | \$ 320 |
| 415 mm | 9.0 kg | \$ 180 |

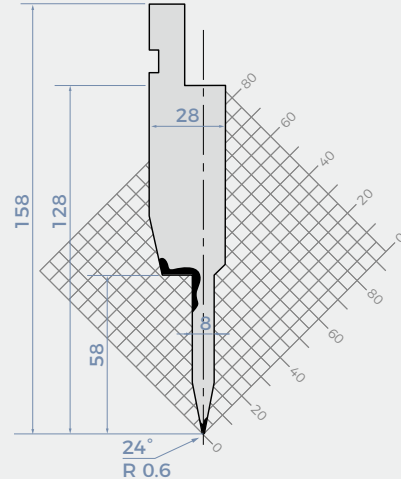


FMHP.128.24°.8

900-1150N/mm².

24°

| | | |
|--------|---------|--------|
| 835 mm | 18.0 kg | \$ 320 |
| 415 mm | 9.0 kg | \$ 180 |

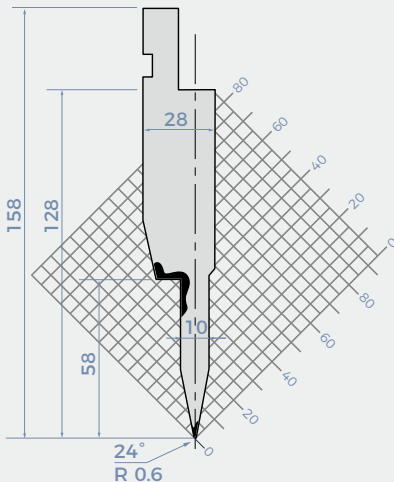


FMHP.128.24°.10

900-1150N/mm².

24°

| | | |
|--------|---------|--------|
| 835 mm | 18.0 kg | \$ 320 |
| 415 mm | 9.0 kg | \$ 180 |

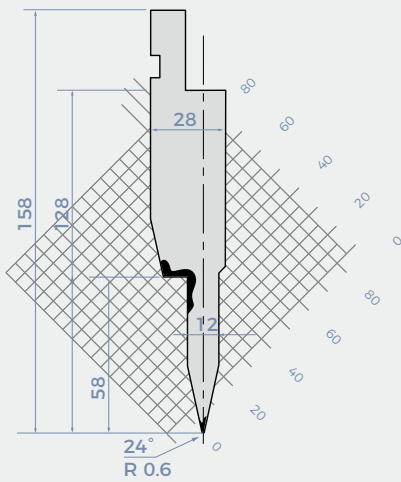


FMHP.128.24°.12

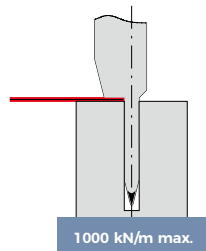
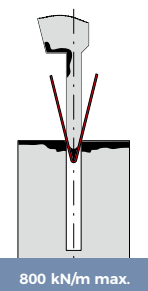
900-1150N/mm².

24°

| | | |
|--------|---------|--------|
| 835 mm | 18.0 kg | \$ 320 |
| 415 mm | 9.0 kg | \$ 180 |



Ex. of Application



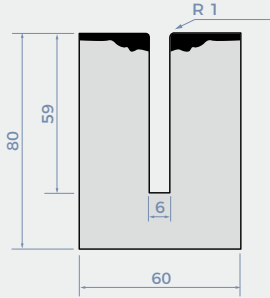
| S [mm] | A [mm] | R420 N/mm ² kN/m | R700 N/mm ² kN/m |
|--------|--------|-----------------------------|-----------------------------|
| 0.6 | 3.0 | 90 | 150 |
| 0.8 | 3.0 | 120 | 200 |
| 1.0 | 3.5 | 150 | 250 |
| 1.25 | 3.5 | 170 | 260 |

FMHD.80.6

900-1150N/mm².

24°

| | | |
|--------|---------|--------|
| 835 mm | 27.0 kg | \$ 350 |
| 415 mm | 13.0 kg | \$ 200 |

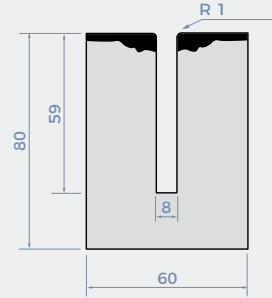


FMHD.80.8

900-1150N/mm².

24°

| | | |
|--------|---------|--------|
| 835 mm | 27.0 kg | \$ 350 |
| 415 mm | 13.0 kg | \$ 200 |

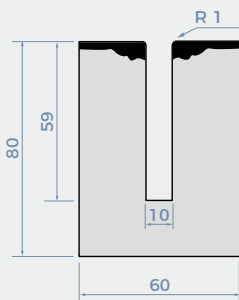


FMHD.80.10

900-1150N/mm².

24°

| | | |
|--------|---------|--------|
| 835 mm | 27.0 kg | \$ 350 |
| 415 mm | 13.0 kg | \$ 200 |

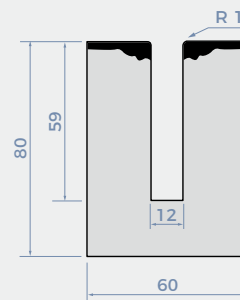


FMHD.80.12

900-1150N/mm².

24°

| | | |
|--------|---------|--------|
| 835 mm | 27.0 kg | \$ 350 |
| 415 mm | 13.0 kg | \$ 200 |



FMHD.101.35°.6
600KN/m max. 35°

| | | |
|-------|---------|--------|
| 835mm | 30.0 kg | \$ 750 |
| 415mm | 15.4 kg | \$ 395 |

FMHD.101.35°.8
600KN/m max. 35°

| | | |
|-------|---------|--------|
| 835mm | 30.0 kg | \$ 750 |
| 415mm | 15.0 kg | \$ 395 |

FMHD.101.35°.10
600KN/m max. 35°

| | | |
|-------|---------|--------|
| 835mm | 30.0 kg | \$ 750 |
| 415mm | 15.5 kg | \$ 395 |

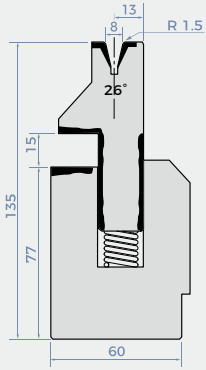
FMHD.110.30°.8
800KN/m max. 30°

| | | |
|-------|---------|--------|
| 835mm | 30.0 kg | \$ 780 |
| 415mm | 15.0 kg | \$ 410 |

FMHD.135.26°.8
400KN/m max.

26°

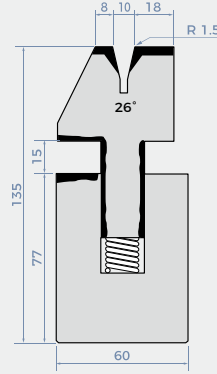
| | | |
|--------|---------|--------|
| 835 mm | 39.8 kg | \$ 780 |
| 415 mm | 21.0 kg | \$ 410 |



FMHD.135.26°.10
1000KN/m max.

26°

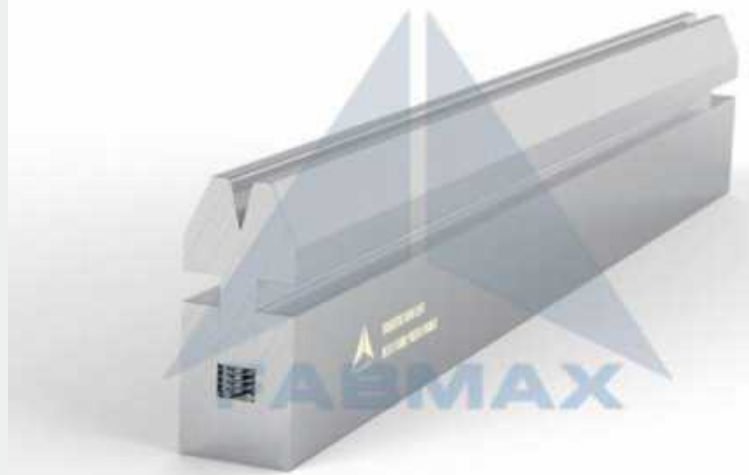
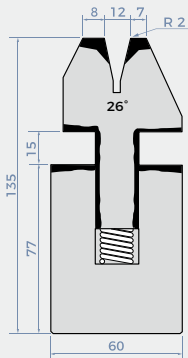
| | | |
|--------|---------|--------|
| 835 mm | 41.5 kg | \$ 780 |
| 415 mm | 20.7 kg | \$ 410 |



FMHD.135.26°.12
1000KN/m max.

26°

| | | |
|--------|---------|--------|
| 835 mm | 41.0 kg | \$ 800 |
| 415 mm | 20.5 kg | \$ 420 |



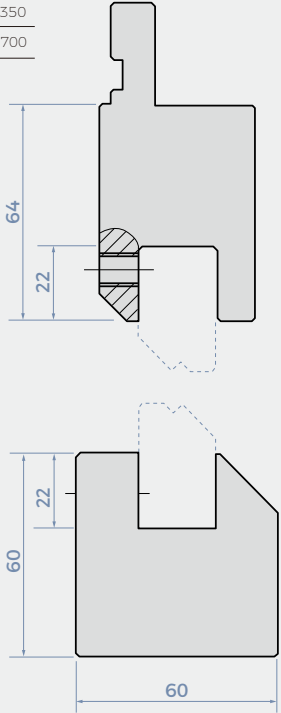
PUNCHES

FMZ

1000KN/m max.

88°

| | | |
|--------|---------|--------|
| 415 mm | 5.0 kg | \$ 350 |
| 835 mm | 11.0 kg | \$ 700 |

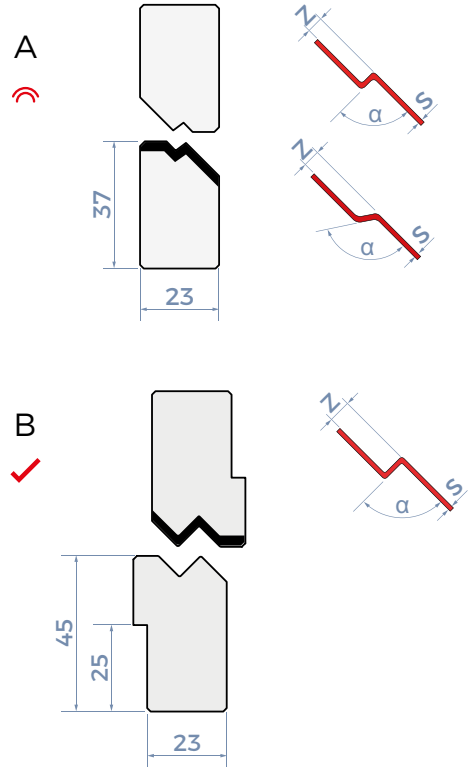


PUNCHES

500KN/m max.

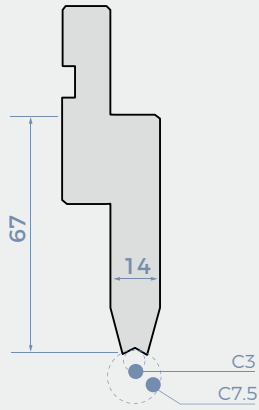
| Model | Z [mm] | α | S [mm] | Weight | Weight | price |
|------------|--------|----------|--------|---------|--------|----------|
| CEZ 1.0 | 1.0 | 160° | 1.2 | 11.0 kg | 5.5 kg | A \$ 150 |
| CEZ 1.5 | 1.5 | 160° | 1.5 | 11.0 kg | 5.5 kg | A \$ 150 |
| CEZ 2.0 | 2.0 | 150° | 1.4 | 11.0 kg | 5.5 kg | A \$ 150 |
| CEZ 2.5 | 2.5 | 140° | 1.3 | 11.0 kg | 5.5 kg | A \$ 150 |
| CEZ 1.0/90 | 1.0 | 90° | 0.3 | 11.0 kg | 5.5 kg | A \$ 150 |
| CEZ 1.5/90 | 1.5 | 90° | 0.3 | 11.0 kg | 5.5 kg | A \$ 150 |
| CEZ 2.0/90 | 2.0 | 90° | 0.4 | 11.0 kg | 5.5 kg | A \$ 150 |
| CEZ 2.5/90 | 2.5 | 90° | 0.5 | 11.0 kg | 5.5 kg | A \$ 150 |
| CEZ 3.0 | 3.0 | 90° | 1.0 | 10.3 kg | 5.1 kg | A \$ 150 |
| CEZ 3.5 | 3.5 | 90° | 1.0 | 10.0 kg | 5.0 kg | A \$ 150 |
| CEZ 4.0 | 4.0 | 90° | 1.2 | 10.0 kg | 5.0 kg | A \$ 150 |
| CEZ 4.5 | 4.5 | 90° | 1.2 | 10.0 kg | 5.0 kg | A \$ 150 |
| CEZ 5.0 | 5.0 | 90° | 1.3 | 10.0 kg | 5.0 kg | A \$ 150 |
| CEZ 5.5 | 5.5 | 90° | 1.4 | 10.0 kg | 5.0 kg | A \$ 150 |
| CEZ 6.0 | 6.0 | 90° | 1.5 | 10.0 kg | 5.0 kg | A \$ 150 |
| CEZ 6.5 | 6.5 | 90° | 1.5 | 10.0 kg | 5.0 kg | A \$ 160 |
| CEZ 7.0 | 7.0 | 90° | 1.5 | 10.0 kg | 5.0 kg | A \$ 160 |
| CEZ 7.5 | 7.5 | 90° | 1.6 | 10.0 kg | 5.0 kg | A \$ 160 |
| CEZ 8.0 | 8.0 | 90° | 1.6 | 10.0 kg | 5.0 kg | A \$ 160 |
| CEZ 9.0 | 9 | 90° | 1.8 | 13.5 kg | 6.5 kg | B \$ 160 |
| CEZ 10.0 | 10 | 90° | 1.8 | 13.5 kg | 5.0 kg | B \$ 160 |
| CEZ 11.0 | 11 | 90° | 2 | 13.5 kg | 5.0 kg | B \$ 160 |
| CEZ 12.0 | 12 | 90° | 2 | 13.5 kg | 5.0 kg | B \$ 160 |
| CEZ 13.0 | 13 | 90° | 2 | 13.5 kg | 5.0 kg | B \$ 160 |
| CEZ 14.0 | 14 | 90° | 2 | 13.5 kg | 5.0 kg | B \$ 160 |
| CEZ 15.0 | 15 | 90° | 2.3 | 13.5 kg | 5.0 kg | B \$ 160 |

Fe Rmax = 420 N/mm²



FMR.67.14A
400KN/m max.

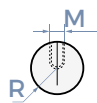
| | | |
|--------|--------|--------|
| 835 mm | 9.7 kg | \$ 170 |
| 835 mm | 9.7 kg | \$ 230 |



PUNCHES

500KN/m max.

| Model | R [mm] | 835 mm | Weight | 415 mm | Weight | price |
|-------|--------|---------|---------|--------|---------|--------|
| C3 | 3.0 | | 0.20 kg | | 0.10 kg | \$ 120 |
| C3.5 | 3.5 | 0.20 kg | 0.10 kg | \$ 120 | | |
| C4 | 4.0 | 0.35 kg | 0.17 kg | \$ 120 | | |
| C4.5 | 4.5 | 0.50 kg | 0.25 kg | \$ 120 | | |
| C5 | 5.0 | 0.60 kg | 0.30 kg | \$ 120 | | |
| C5.5 | 5.5 | 0.70 kg | 0.35 kg | \$ 120 | | |
| C6 | 6.0 | 0.80 kg | 0.40 kg | \$ 130 | | |
| C6.5 | 6.5 | 1.00 kg | 0.50 kg | \$ 130 | | |
| C7 | 7.0 | 0.80 kg | 0.40kg | \$ 130 | | |
| C7.5 | 7.5 | 1.00 kg | 0.50 kg | \$ 130 | | |



FMR.67.14B

800KN/m max.

| | | |
|--------|--------|--------|
| 835 mm | 9.0 kg | \$ 170 |
| 835 mm | 9.0 kg | \$ 230 |

FMR.87.14

800KN/m max.

| | | |
|--------|--------|--------|
| 835 mm | 9.0 kg | \$ 300 |
| 835 mm | 9.0 kg | \$ 400 |

FMR.105.14

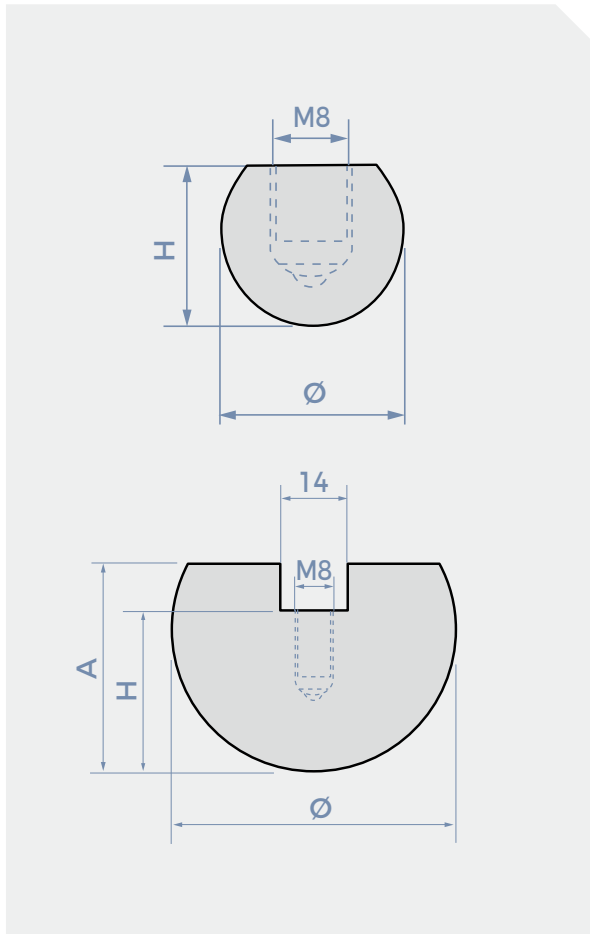
800KN/m max.

| | | |
|--------|---------|--------|
| 835 mm | 12.0 kg | \$ 180 |
| 835 mm | 12.0 kg | \$ 240 |

FMR.115.14

800KN/m max.

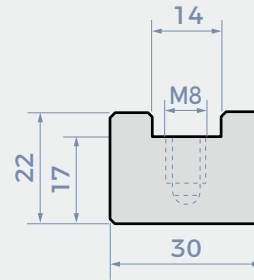
| | | |
|--------|---------|--------|
| 835 mm | 26.0 kg | \$ 320 |
| 835 mm | 26.0 kg | \$ 420 |



FMP.D30.14

500KN/m max.

| | | |
|--------|--------|--------|
| 805 mm | 3.5 kg | \$ 150 |
| 835 mm | 3.5 kg | \$ 220 |

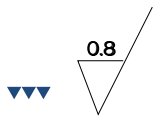
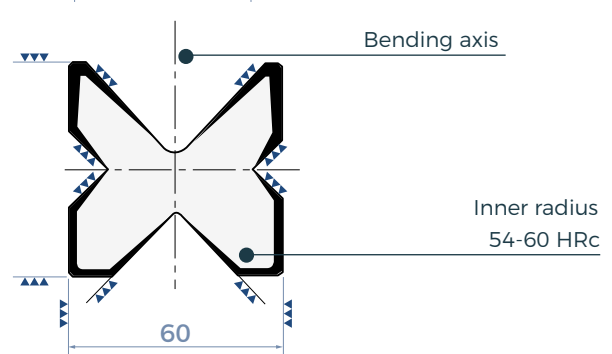
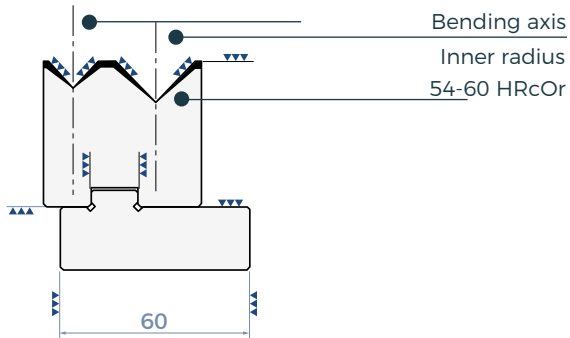
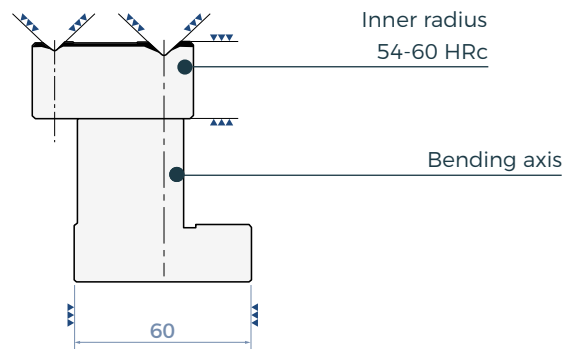
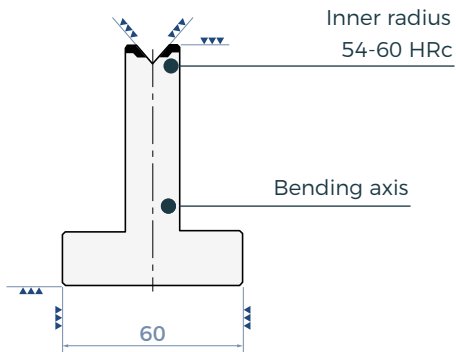


PUNCHES

| See table | | | | | | | | | |
|-----------|--------|--------|--------|--------|--------|--------|-------|--------|-------|
| Model | Z [mm] | H [mm] | A [mm] | | Weight | price | | Weight | price |
| C15.08 | 16 | 15 | - | 835mm | 1.0kg | \$120 | 415mm | 1.0kg | \$120 |
| C13.09 | 18 | 16 | - | | 1.0kg | \$120 | | 1.0kg | \$120 |
| C16.10 | 20 | 16 | - | | 1.0kg | \$120 | | 1.0kg | \$120 |
| C17.12 | 25 | 17 | 22 | | 1.2kg | \$120 | | 1.2kg | \$120 |
| C20.15 | 30 | 20 | 27 | | 1.8kg | \$120 | | 1.8kg | \$120 |
| C22.17 | 35 | 22 | 32 | | 2.4kg | \$120 | | 2.4kg | \$120 |
| C24.20 | 40 | 24 | 34 | | 3.5kg | \$120 | | 3.5kg | \$120 |
| C25.22 | 45 | 25 | 35 | | 3.8kg | \$120 | | 3.8kg | \$120 |
| C29.25 | 50 | 29 | 39 | | 4.7kg | \$120 | | 4.7kg | \$120 |
| C34.27 | 55 | 34 | 44 | | 6.2kg | \$140 | | 6.2kg | \$140 |
| C34.30 | 60 | 34 | 44 | | 6.7kg | \$140 | | 6.7kg | \$140 |
| C37.32 | 65 | 37 | 47 | | 7.9kg | \$140 | | 7.9kg | \$140 |
| C45.35 | 70 | 45 | 55 | | 10.0kg | \$140 | | 10.0kg | \$140 |
| C42.37 | 75 | 42 | 52 | | 10.3kg | \$140 | | 10.3kg | \$140 |
| C45.40 | 80 | 45 | 55 | | 11.5kg | \$140 | | 11.5kg | \$140 |
| C60.45 | 90 | 60 | 70 | | 17.0kg | \$140 | | 17.0kg | \$140 |
| C70.50 | 100 | 70 | 80 | 21.7kg | \$140 | 21.7kg | \$140 | | |

STANDARD TANG

All Fabmax dies have base 60 mm, 90 mm or 120 mm.

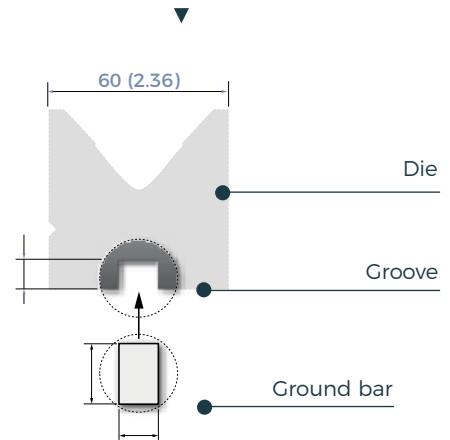


MODIFICATIONS WEDGE/BAR TAIL

To use Fabmax dies, a 10 mm groove is milled where a ground bar is mounted.

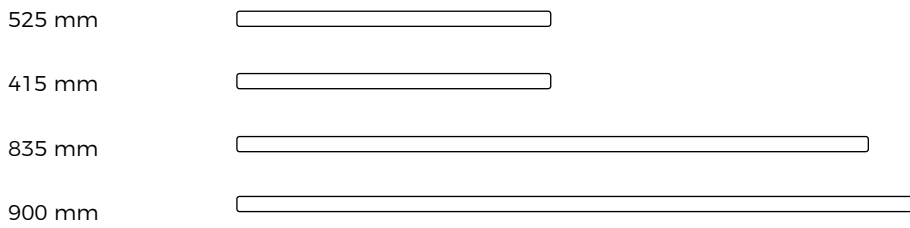
| Wedge Bar / Tail (W x H) | System |
|--------------------------|-------------------------------------|
| 13 x 30 mm | Bystronic-Beyeler,Safan,Trumpf,etc. |
| 55 x 55 mm | EHT |
| 127 x 29 mm | |
| 35 x 55 mm | Weinbrenner |

Mounting example



STANDARD LENGTH

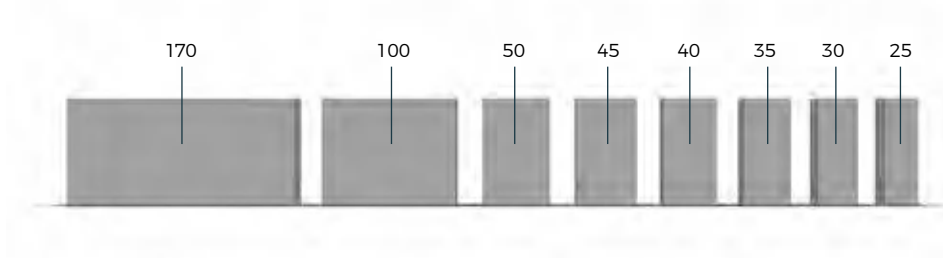
► PUNCHES



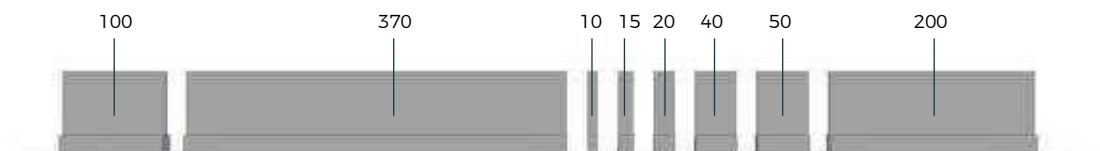
SEGMENTATION

► PUNCHES

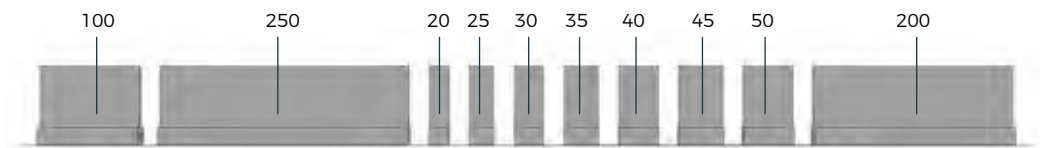
FC: 495 mm - 8 segments



F: 805 mm - 8 segments



FX: 795 mm - 10 segments

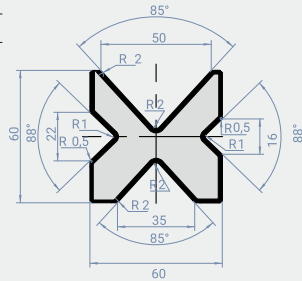


FMM.460.R

800KN/m max.

85-88°

| | | |
|--------|---------|--------|
| 835 mm | 16.0 kg | \$ 200 |
| 415 mm | 8.0 kg | \$ 120 |
| 805 mm | 16.0 kg | \$ 260 |

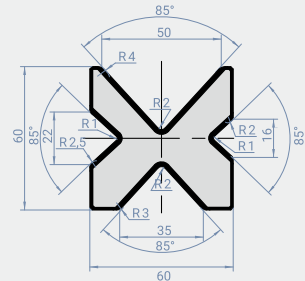


FMM.460

800KN/m max.

85°

| | | |
|--------|---------|--------|
| 835 mm | 16.0 kg | \$ 200 |
| 415 mm | 8.0 kg | \$ 120 |
| 805 mm | 16.0 kg | \$ 260 |

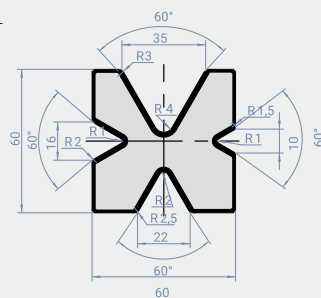


FMM.460.60

600KN/m max.

60°

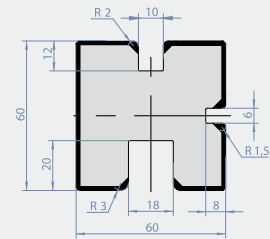
| | | |
|--------|---------|--------|
| 835 mm | 18.0 kg | \$ 200 |
| 415 mm | 9.0 kg | \$ 120 |
| 805 mm | 18.0 kg | \$ 260 |



FMM.360.R

1000KN/m max.

| | | |
|--------|---------|--------|
| 835 mm | 20.0 kg | \$ 200 |
| 415 mm | 10.0 kg | \$ 120 |
| 805 mm | 20.0 kg | \$ 260 |

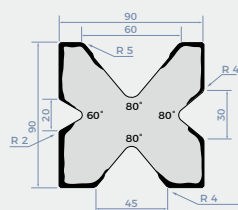


FMM.490

1000KN/m max.

60-80°

| | | |
|--------|---------|--------|
| 835 mm | 38.9 kg | \$ 240 |
| 415 mm | 17.9 kg | \$ 140 |
| 835 mm | 39.0 kg | \$ 320 |

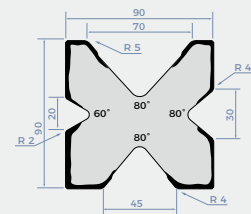


FMM.490.70

600KN/m max.

60-80°

| | | |
|--------|---------|--------|
| 835 mm | 35.8 kg | \$ 240 |
| 415 mm | 17.9 kg | \$ 140 |
| 835 mm | 36.0 kg | \$ 320 |

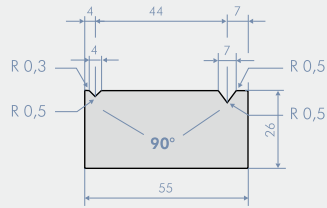




FMD.26.90°.0407
1000KN/m max.

90°

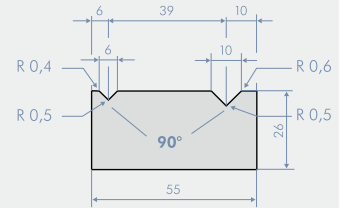
| | | |
|--------|--------|--------|
| 835 mm | 9.5 kg | \$ 200 |
| 415 mm | 4.7 kg | \$ 120 |



FMD.26.90°.0610
1000KN/m max.

90°

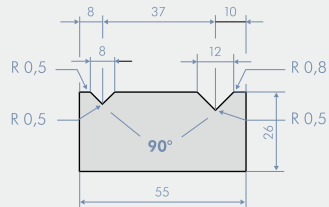
| | | |
|--------|--------|--------|
| 835 mm | 9.0 kg | \$ 200 |
| 415 mm | 4.5 kg | \$ 120 |



FMD.26.90°.0812
1000KN/m max.

90°

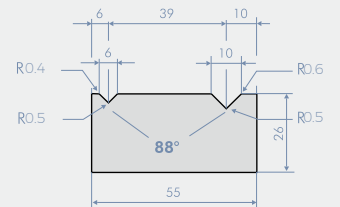
| | | |
|--------|--------|--------|
| 835 mm | 9.0 kg | \$ 200 |
| 415 mm | 4.5 kg | \$ 120 |



FMD.26.88°.0610
1000KN/m max.

88°

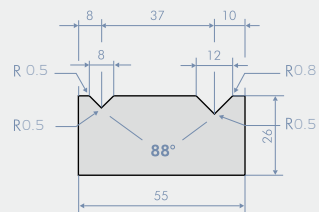
| | | |
|--------|--------|--------|
| 835 mm | 9.0 kg | \$ 200 |
| 415 mm | 4.5 kg | \$ 120 |



FMD.26.88°.0812
1000KN/m max.

88°

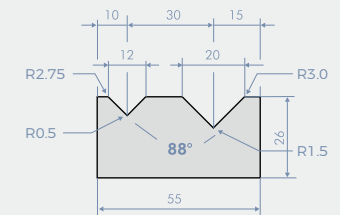
| | | |
|--------|--------|--------|
| 835 mm | 9.0 kg | \$ 200 |
| 415 mm | 4.5 kg | \$ 120 |



FMD.26.88°.1220
1000KN/m max.

88°

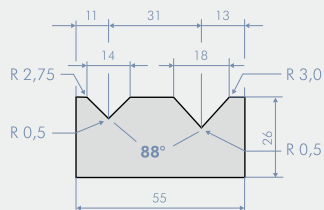
| | | |
|--------|--------|--------|
| 835 mm | 8.5 kg | \$ 200 |
| 415 mm | 4.2 kg | \$ 120 |



FMD.26.88°.1418
1000KN/m max.

88°

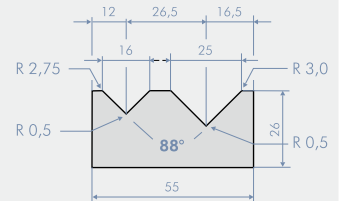
| | | |
|--------|--------|--------|
| 835 mm | 9.0 kg | \$ 200 |
| 415 mm | 4.5 kg | \$ 120 |



FMD.26.88°.1625
1000KN/m max.

88°

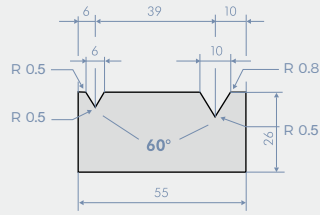
| | | |
|--------|--------|--------|
| 835 mm | 8.0 kg | \$ 200 |
| 415 mm | 4.0 kg | \$ 120 |



FMD.26.60°.0610
600KN/m max.

60°

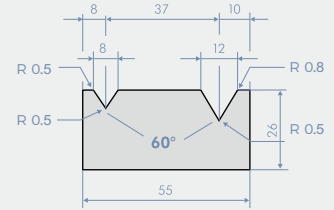
| | | |
|--------|--------|--------|
| 835 mm | 9.0 kg | \$ 200 |
| 415 mm | 4.5 kg | \$ 120 |



FMD.26.60°.0812
600KN/m max.

60°

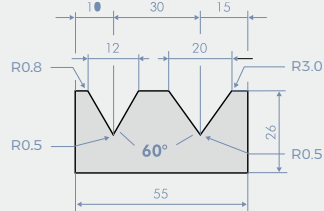
| | | |
|--------|--------|--------|
| 835 mm | 8.5 kg | \$ 200 |
| 415 mm | 4.2 kg | \$ 120 |



FMD.26.60°.1220
600KN/m max.

60°

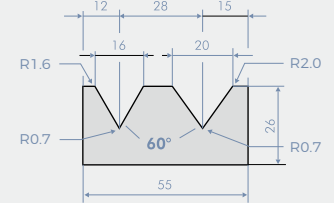
| | | |
|--------|--------|--------|
| 835 mm | 8.0 kg | \$ 200 |
| 415 mm | 4.0 kg | \$ 120 |



FMD.26.60°.1620
600KN/m max.

60°

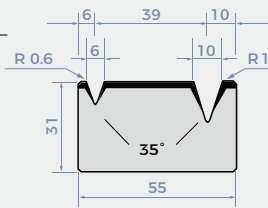
| | | |
|--------|--------|--------|
| 835 mm | 7.5 kg | \$ 200 |
| 415 mm | 3.7 kg | \$ 120 |



FMD.31.35°.0610
300KN/m max.

35°

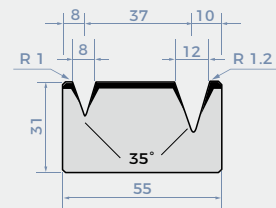
| | | |
|--------|---------|--------|
| 835 mm | 11.0 kg | \$ 200 |
| 415 mm | 5.5 kg | \$ 120 |



FMD.31.35°.0812
300KN/m max.

35°

| | | |
|--------|---------|--------|
| 835 mm | 10.0 kg | \$ 200 |
| 415 mm | 5.0 kg | \$ 120 |



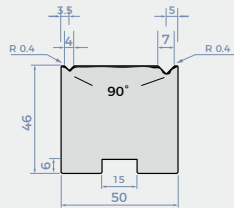
DIES

FMD.46.90°.0407

1000KN/m max.

90°

| | | |
|-------|---------|--------|
| 835mm | 14.2 kg | \$ 200 |
| 415mm | 7.1kg | \$ 120 |

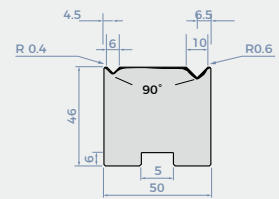


FMD.46.90°.0610

1000KN/m max.

90°

| | | |
|-------|---------|--------|
| 835mm | 14.2 kg | \$ 200 |
| 415mm | 7.1kg | \$ 120 |

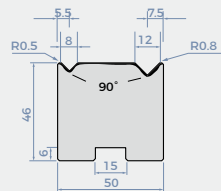


FMD.46.90°.0812

1000KN/m max.

90°

| | | |
|-------|---------|--------|
| 835mm | 14.2 kg | \$ 200 |
| 415mm | 7.1kg | \$ 120 |

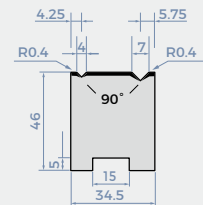


FMD.46.90°.0407

1000KN/m max.

90°

| | | |
|-------|--------|--------|
| 835mm | 9.7 kg | \$ 200 |
| 415mm | 4.8 kg | \$ 120 |

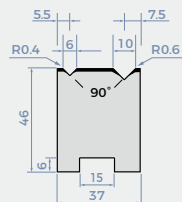


FMD.46.90°.0610

1000KN/m max.

90°

| | | |
|-------|---------|--------|
| 835mm | 10.3 kg | \$ 200 |
| 415mm | 5.2kg | \$ 120 |

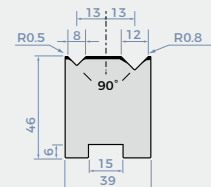


FMD.46.90°.0812

1000KN/m max.

90°

| | | |
|-------|---------|--------|
| 835mm | 10.7 kg | \$ 200 |
| 415mm | 5.3 kg | \$ 120 |

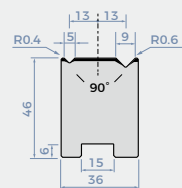


FMD.46.90°.0509

1000KN/m max.

90°

| | | |
|-------|---------|--------|
| 835mm | 10.0 kg | \$ 200 |
| 415mm | 5.0 kg | \$ 120 |

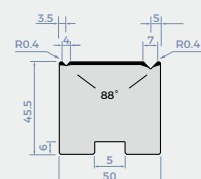


FMD.46.88°.0407

1000KN/m max.

88°

| | | |
|-------|---------|--------|
| 835mm | 14.2 kg | \$ 200 |
| 415mm | 7.1kg | \$ 120 |

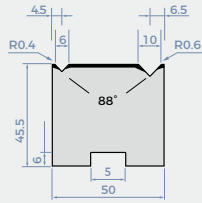


FMD.46.88°.0610

1000KN/m max.

88°

| | | |
|-------|---------|--------|
| 835mm | 14.0 kg | \$ 200 |
| 415mm | 8.4 kg | \$ 120 |

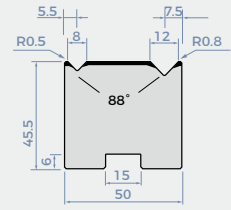


FMD.46.88°.0812

1000KN/m max.

88°

| | | |
|-------|---------|--------|
| 835mm | 14.2 kg | \$ 200 |
| 415mm | 7.1 kg | \$ 120 |

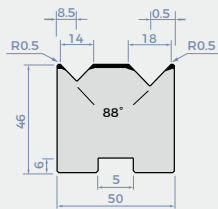


FMD.46.88°.1418

1000KN/m max.

88°

| | | |
|-------|---------|--------|
| 835mm | 13.5 kg | \$ 200 |
| 415mm | 6.7 kg | \$ 120 |

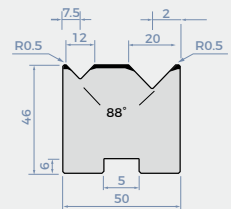


FMD.46.88°.1220

1000KN/m max.

88°

| | | |
|-------|---------|--------|
| 835mm | 13.5 kg | \$ 200 |
| 415mm | 6.7 kg | \$ 120 |

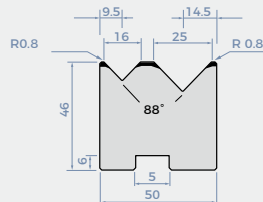


FMD.46.88°.1625

1000KN/m max.

88°

| | | |
|-------|---------|--------|
| 835mm | 12.9 kg | \$ 200 |
| 415mm | 6.4 kg | \$ 120 |

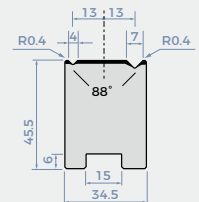


FMD.46.88°.0407

1000KN/m max.

88°

| | | |
|-------|--------|--------|
| 835mm | 9.5 kg | \$ 200 |
| 415mm | 4.8 kg | \$ 120 |

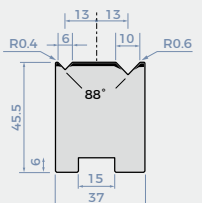


FMD.46.88°.0610

1000KN/m max.

88°

| | | |
|-------|---------|--------|
| 835mm | 10.4 kg | \$ 200 |
| 415mm | 5.2 kg | \$ 120 |

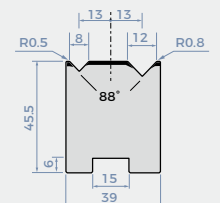


FMD.46.88°.0812

1000KN/m max.

88°

| | | |
|-------|---------|--------|
| 835mm | 10.8 kg | \$ 200 |
| 415mm | 5.3 kg | \$ 120 |



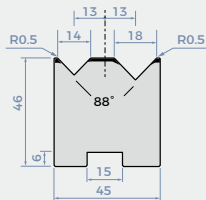
DIES

FMD.46.88°.1418

1000KN/m max.

88°

| | | |
|--------|---------|--------|
| 835 mm | 12.0 kg | \$ 200 |
| 415 mm | 5.3 kg | \$ 120 |
| 835 mm | 12.0 kg | \$ 260 |

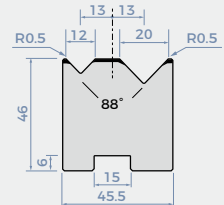


FMD.46.88°.1220

700KN/m max.

88°

| | | |
|--------|---------|--------|
| 835 mm | 12.2 kg | \$ 200 |
| 415 mm | 6.1 kg | \$ 120 |
| 835 mm | 12.2 kg | \$ 260 |

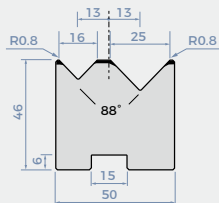


FMD.46.88°.1625

1000KN/m max.

88°

| | | |
|--------|---------|--------|
| 835 mm | 13.0 kg | \$ 200 |
| 415 mm | 6.5 kg | \$ 120 |
| 835 mm | 13.0 kg | \$ 260 |

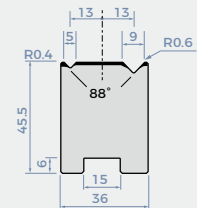


FMD.46.88°.0509

600KN/m max.

88°

| | | |
|--------|---------|--------|
| 835 mm | 10.0 kg | \$ 200 |
| 415 mm | 5.0 kg | \$ 120 |
| 835 mm | 10.0 kg | \$ 260 |

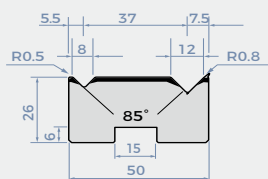


FMD.26.85°.0812

1000KN/m max.

85°

| | | |
|--------|--------|--------|
| 835 mm | 9.0 kg | \$ 200 |
| 415 mm | 4.5 kg | \$ 120 |
| 835 mm | 9.0 kg | \$ 260 |

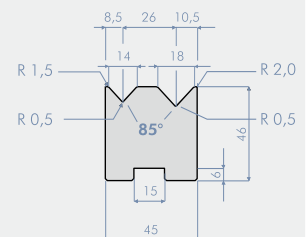


FMD.46.85°.1418

800KN/m max.

85°

| | | |
|--------|---------|--------|
| 835 mm | 12.0 kg | \$ 200 |
| 415 mm | 6.0 kg | \$ 120 |
| 835 mm | 12.0 kg | \$ 260 |

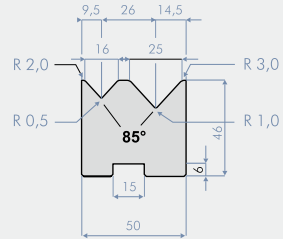


FMD.46.85°.1625

800KN/m max.

85°

| | | |
|--------|---------|--------|
| 835 mm | 13.0 kg | \$ 200 |
| 415 mm | 6.5 kg | \$ 120 |
| 835 mm | 13.0 kg | \$ 260 |

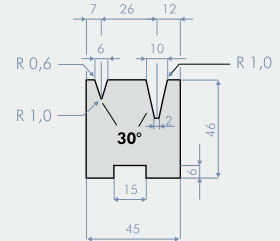


FMD.46.30°.0610

600KN/m max.

30°

| | | |
|--------|---------|--------|
| 835 mm | 12.5 kg | \$ 200 |
| 415 mm | 6.2 kg | \$ 120 |
| 835 mm | 12.5 kg | \$ 260 |

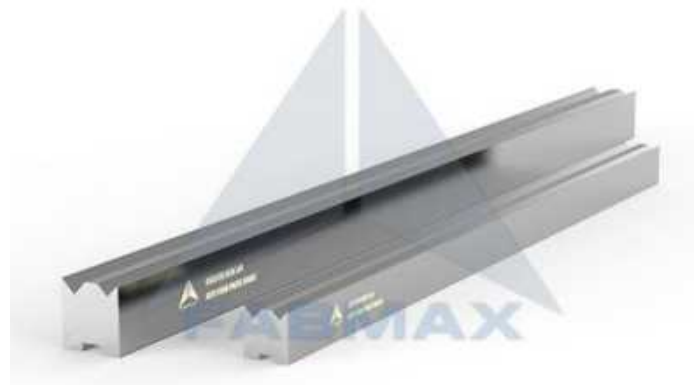
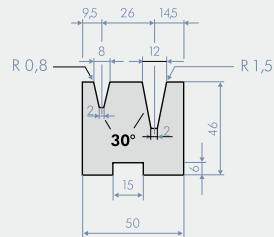


FMD.46.30°.0812

400KN/m max.

30°

| | | |
|--------|---------|--------|
| 835 mm | 13.0 kg | \$ 200 |
| 415 mm | 6.5 kg | \$ 120 |
| 835 mm | 13.0 kg | \$ 260 |



DIES

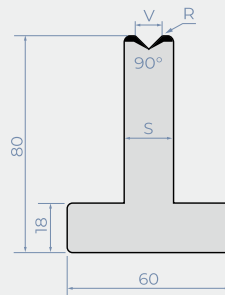
H=80mm

1000KN/m max.

| Model | V [mm] | R [mm] | S [mm] | Weight | price | Weight | price | Weight | price |
|---------------|--------|--------|--------|---------|-------|--------|-------|---------|-------|
| | | | | | | | | | |
| FMT.80.90°.06 | 6 | 0.4 | 14 | 13.0 kg | \$220 | 6.5 kg | \$130 | 13.0 kg | \$280 |
| FMT.80.90°.08 | 8 | 0.5 | 14 | 13.0 kg | \$220 | 6.5 kg | \$130 | 13.0 kg | \$280 |
| FMT.80.90°.10 | 10 | 0.6 | 18 | 14.2 kg | \$220 | 7.0 kg | \$130 | 13.7 kg | \$280 |
| FMT.80.90°.12 | 12 | 0.8 | 18 | 15.0 kg | \$220 | 7.5kg | \$130 | 15.0 kg | \$280 |

90°

DIES

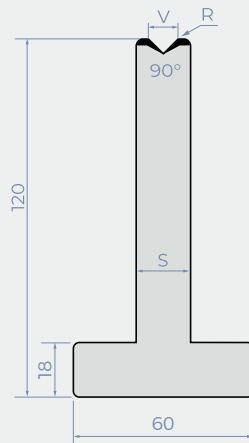


H=120mm

1000KN/m max.

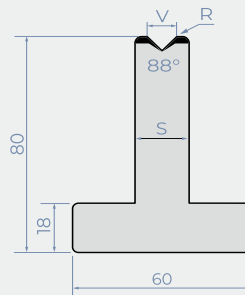
| Model | V [mm] | R [mm] | S [mm] | Weight | price | Weight | price | Weight | price |
|----------------|--------|--------|--------|---------|-------|--------|-------|---------|-------|
| | | | | | | | | | |
| FMT.120.90°.06 | 6 | 0.4 | 14 | 16.0 kg | \$260 | 8.0 kg | \$150 | 15.2 kg | \$340 |
| FMT.120.90°.08 | 8 | 0.5 | 14 | 16.0 kg | \$260 | 8.0 kg | \$150 | 16.0 kg | \$340 |
| FMT.120.90°.10 | 10 | 0.6 | 18 | 19.0 kg | \$260 | 9.0 kg | \$150 | 18.1 kg | \$340 |
| FMT.120.90°.12 | 12 | 0.8 | 18 | 18.0 kg | \$260 | 9.0 kg | \$150 | 18.1 kg | \$340 |

90°



| H=80mm | | | | 1000KN/m max. | | | | | |
|----------------|--------|--------|--------|---------------|-------|---------|-------|---------|-------|
| Model | V [mm] | R [mm] | S [mm] | Weight | price | Weight | price | Weight | price |
| FMT.80.88°.06 | 6 | 0.4 | 14 | 13.0 kg | \$220 | 6.5 kg | \$130 | 12.5 kg | \$280 |
| FMT.80.88°.06A | 6 | 2.75 | 14 | 13.0 kg | \$220 | 6.5 kg | \$130 | 12.5 kg | \$280 |
| FMT.80.88°.08 | 8 | 0.5 | 14 | 12.6 kg | \$220 | 6.3 kg | \$130 | 12.1 kg | \$280 |
| FMT.80.88°.08A | 8 | 2.75 | 14 | 13.0 kg | \$220 | 6.5kg | \$130 | 13.0 kg | \$280 |
| FMT.80.88°.10 | 10 | 0.8 | 18 | 14.2 kg | \$220 | 7.0 kg | \$130 | 13.7 kg | \$280 |
| FMT.80.88°.10A | 10 | 2.75 | 18 | 15.0 kg | \$220 | 7.5 kg | \$130 | 15.0 kg | \$280 |
| FMT.80.88°.12 | 12 | 2.75 | 18 | 14.0 kg | \$220 | 7.0 kg | \$130 | 13.5 kg | \$280 |
| FMT.80.88°.16 | 16 | 2.75 | 24 | 16.6 kg | \$220 | 8.3 kg | \$130 | 16.0 kg | \$280 |
| FMT.80.88°.20 | 20 | 3.0 | 30 | 18.5 kg | \$220 | 9.2 kg | \$130 | 17.8 kg | \$280 |
| FMT.80.88°.25 | 25 | 3.0 | 35 | 20.2 kg | \$220 | 10.0 kg | \$130 | 19.5 kg | \$280 |

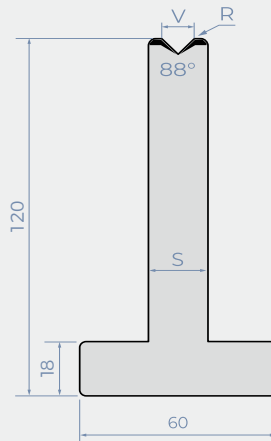
88°



DIES

| H=120mm | | | | 1000KN/m max. | | | | | |
|-----------------|--------|--------|--------|---------------|-------|---------|-------|---------|-------|
| Model | V [mm] | R [mm] | S [mm] | Weight | price | Weight | price | Weight | price |
| FMT.120.88°.06 | 6 | 0.4 | 14 | 16.5 kg | \$260 | 8.0 kg | \$150 | 16.0 kg | \$340 |
| FMT.120.88°.06A | 6 | 2.75 | 14 | 16.0 kg | \$260 | 8.0 kg | \$150 | 16.0 kg | \$340 |
| FMT.120.88°.08 | 8 | 0.5 | 14 | 16.0 kg | \$260 | 8.0 kg | \$150 | 16.0 kg | \$340 |
| FMT.120.88°.08A | 8 | 2.75 | 14 | 16.0 kg | \$260 | 8.0 kg | \$150 | 16.0 kg | \$340 |
| FMT.120.88°.10 | 10 | 0.8 | 18 | 19.0 kg | \$260 | 9.5 kg | \$150 | 19.0 kg | \$340 |
| FMT.120.88°.10A | 10 | 2.75 | 18 | 18.0 kg | \$260 | 9.0 kg | \$150 | 18.0 kg | \$340 |
| FMT.120.88°.12 | 12 | 2.75 | 18 | 19.0 kg | \$260 | 9.0 kg | \$150 | 18.0 kg | \$340 |
| FMT.120.88°.16 | 16 | 2.75 | 24 | 22.0 kg | \$260 | 11.0 kg | \$150 | 22.0 kg | \$340 |
| FMT.120.88°.20 | 20 | 3.0 | 30 | 27.0 kg | \$260 | 13.5 kg | \$150 | 26.0 kg | \$340 |
| FMT.120.88°.25 | 25 | 3.0 | 35 | 30.0 kg | \$260 | 15.0 kg | \$150 | 30.0 kg | \$340 |

88°

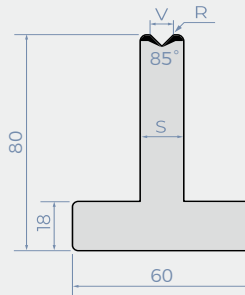


H=80mm

1000KN/m max.

85°

| Model | V [mm] | R [mm] | S [mm] | Weight | price | | Weight | price | | Weight | price |
|---------------|--------|--------|--------|--------|-------|--------|--------|-------|--------|---------|-------|
| | | | | | | | | | | | |
| FMT.80.85°.06 | 6 | 2.75 | 14 | 835 mm | \$220 | 415 mm | 6.5 kg | \$130 | 805 mm | 13.0 kg | \$280 |
| FMT.80.85°.08 | 8 | 2.75 | 14 | | | | | | | 12.0 kg | \$280 |
| FMT.80.85°.10 | 10 | 2.75 | 18 | | | | | | | 14.0 kg | \$280 |
| FMT.80.85°.12 | 12 | 2.75 | 18 | | | | | | | 14.0 kg | \$280 |
| FMT.80.85°.16 | 16 | 2.75 | 24 | | | | | | | 15.8 kg | \$280 |
| FMT.80.85°.20 | 20 | 3.0 | 30 | | | | | | | 18.0 kg | \$280 |
| FMT.80.85°.25 | 25 | 3.0 | 35 | | | | | | | 20.0 kg | \$280 |



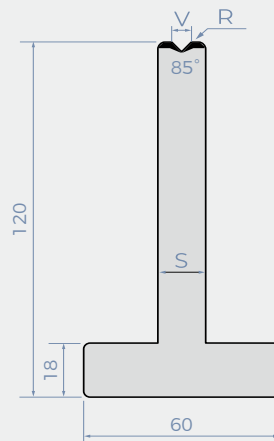
DIES

H=120mm

1000KN/m max.

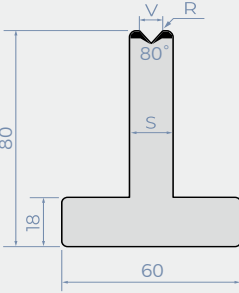
85°

| Model | V [mm] | R [mm] | S [mm] | Weight | price | | Weight | price | | Weight | price |
|----------------|--------|--------|--------|--------|-------|--------|--------|-------|--------|---------|-------|
| | | | | | | | | | | | |
| FMT.120.85°.06 | 6 | 2.75 | 14 | 835 mm | \$260 | 415 mm | 8.1 kg | \$150 | 805 mm | 15.7 kg | \$340 |
| FMT.120.85°.08 | 8 | 2.75 | 14 | | | | | | | 15.7 kg | \$340 |
| FMT.120.85°.10 | 10 | 2.75 | 18 | | | | | | | 19.0 kg | \$340 |
| FMT.120.85°.12 | 12 | 2.75 | 18 | | | | | | | 18.2 kg | \$340 |
| FMT.120.85°.16 | 16 | 2.75 | 24 | | | | | | | 21.9 kg | \$340 |
| FMT.120.85°.20 | 20 | 3.0 | 30 | | | | | | | 25.5 kg | \$340 |
| FMT.120.85°.25 | 25 | 3.0 | 35 | | | | | | | 30.0 kg | \$340 |



| H=80mm | | | | 950KN/m max. | | | | | | | | |
|---------------|--------|--------|--------|--------------|---------|-------|--------|---------|-------|--------|---------|-------|
| Model | V [mm] | R [mm] | S [mm] | 835 mm | Weight | price | 415 mm | Weight | price | 805 mm | Weight | price |
| FMT.80.80°.06 | 6 | 2.75 | 14 | | 13.0 kg | \$220 | | 6.5 kg | \$130 | | 13.0 kg | \$280 |
| FMT.80.80°.08 | 8 | 2.75 | 14 | | 13.0 kg | \$220 | | 6.5 kg | \$130 | | 13.0 kg | \$280 |
| FMT.80.80°.10 | 10 | 2.75 | 18 | | 13.0 kg | \$220 | | 6.5 kg | \$130 | | 13.0 kg | \$280 |
| FMT.80.80°.12 | 12 | 2.75 | 18 | | 13.0 kg | \$220 | | 6.5 kg | \$130 | | 13.0 kg | \$280 |
| FMT.80.80°.16 | 16 | 2.75 | 24 | | 13.0 kg | \$220 | | 6.5 kg | \$130 | | 13.0 kg | \$280 |
| FMT.80.80°.20 | 20 | 3.0 | 30 | | 17.0 kg | \$220 | | 6.5 kg | \$130 | | 12.5 kg | \$280 |
| FMT.80.80°.25 | 25 | 3.0 | 35 | | 20.0 kg | \$220 | | 10.0 kg | \$130 | | 20.0 kg | \$280 |

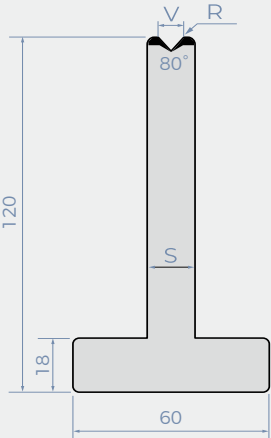
80°



DIES

| H=120mm | | | | 950KN/m max. | | | | | | | | |
|----------------|--------|--------|--------|--------------|---------|-------|--------|---------|-------|--------|---------|-------|
| Model | V [mm] | R [mm] | S [mm] | 835 mm | Weight | price | 415 mm | Weight | price | 805 mm | Weight | price |
| FMT.120.80°.06 | 6 | 2.75 | 14 | | 18.0 kg | \$260 | | 9.0 kg | \$150 | | 17.4 kg | \$340 |
| FMT.120.80°.08 | 8 | 2.75 | 14 | | 18.0 kg | \$260 | | 18.0 kg | \$150 | | 18.0 kg | \$340 |
| FMT.120.80°.10 | 10 | 2.75 | 18 | | 18.0 kg | \$260 | | 9.0 kg | \$150 | | 17.4 kg | \$340 |
| FMT.120.80°.12 | 12 | 2.75 | 18 | | 18.0 kg | \$260 | | 9.0 kg | \$150 | | 17.4 kg | \$340 |
| FMT.120.80°.16 | 16 | 2.75 | 24 | | 18.0 kg | \$260 | | 18.0 kg | \$150 | | 18.0 kg | \$340 |
| FMT.120.80°.20 | 20 | 3.0 | 30 | | 26.3 kg | \$260 | | 13.0 kg | \$150 | | 25.4 kg | \$340 |
| FMT.120.80°.25 | 25 | 3.0 | 35 | | 30.0 kg | \$260 | | 18.0 kg | \$150 | | 18.0 kg | \$340 |

80°

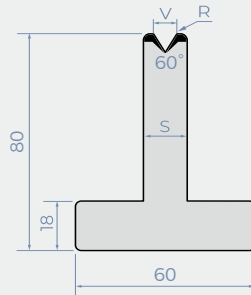


H=80mm

600KN/m max.

60°

| Model | V [mm] | R [mm] | S [mm] | Weight | price | Weight | price | Weight | price |
|----------------|--------|--------|--------|---------|-------|---------|-------|---------|-------|
| FMT.80.60°.06 | 6 | 0.5 | 14 | 13.0 kg | \$220 | 6.5 kg | \$130 | 12.5 kg | \$280 |
| FMT.80.60°.06A | 6 | 1.5 | 14 | 13.0 kg | \$220 | 6.5 kg | \$130 | 12.5 kg | \$280 |
| FMT.80.60°.08 | 8 | 0.8 | 14 | 13.0 kg | \$220 | 6.5 kg | \$130 | 13.0 kg | \$280 |
| FMT.80.60°.08A | 8 | 1.5 | 14 | 13.0 kg | \$220 | 6.5 kg | \$130 | 13.0 kg | \$280 |
| FMT.80.60°.10 | 10 | 0.8 | 18 | 14.5 kg | \$220 | 7.0 kg | \$130 | 13.5 kg | \$280 |
| FMT.80.60°.10A | 10 | 2.75 | 18 | 15.0 kg | \$220 | 7.5 kg | \$130 | 15.0 kg | \$280 |
| FMT.80.60°.12 | 12 | 0.8 | 18 | 14.0 kg | \$220 | 7.0 kg | \$130 | 13.5 kg | \$280 |
| FMT.80.60°.12A | 12 | 2.75 | 18 | 15.0 kg | \$220 | 7.5 kg | \$130 | 15.0 kg | \$280 |
| FMT.80.60°.16 | 16 | 2.75 | 24 | 15.6 kg | \$220 | 8.7 kg | \$130 | 16.0 kg | \$280 |
| FMT.80.60°.20 | 20 | 3.0 | 30 | 18.0 kg | \$220 | 9.5 kg | \$130 | 19.0 kg | \$280 |
| FMT.80.60°.25 | 25 | 3.0 | 35 | 19.5 kg | \$220 | 10.0 kg | \$130 | 18.8 kg | \$280 |



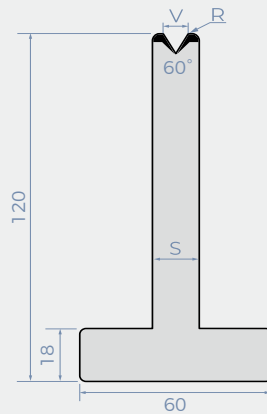
DIES

H=120mm

600KN/m max.

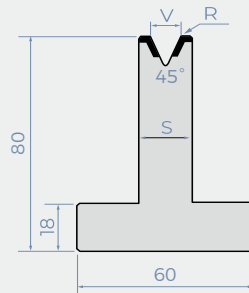
60°

| Model | V [mm] | R [mm] | S [mm] | Weight | price | Weight | price | Weight | price |
|-----------------|--------|--------|--------|---------|-------|---------|-------|---------|-------|
| FMT.120.60°.06 | 6 | 0.5 | 14 | 16.0 kg | \$260 | 8.0 kg | \$150 | 15.4 kg | \$340 |
| FMT.120.60°.06A | 6 | 1.5 | 14 | 16.0 kg | \$260 | 8.0 kg | \$150 | 15.4 kg | \$340 |
| FMT.120.60°.08 | 8 | 0.8 | 14 | 16.0 kg | \$260 | 8.0 kg | \$150 | 16.0 kg | \$340 |
| FMT.120.60°.08A | 8 | 1.5 | 14 | 16.0 kg | \$260 | 8.0 kg | \$150 | 16.0 kg | \$340 |
| FMT.120.60°.10 | 10 | 0.8 | 18 | 18.8 kg | \$260 | 9.3 kg | \$150 | 18.1 kg | \$340 |
| FMT.120.60°.10A | 10 | 2.75 | 18 | 18.0 kg | \$260 | 9.0 kg | \$150 | 17.4 kg | \$340 |
| FMT.120.60°.12 | 12 | 0.8 | 18 | 18.0 kg | \$260 | 9.0 kg | \$150 | 18.3 kg | \$340 |
| FMT.120.60°.12A | 12 | 2.75 | 18 | 18.0 kg | \$260 | 9.0 kg | \$150 | 17.4 kg | \$340 |
| FMT.120.60°.16 | 16 | 2.75 | 24 | 22.4 kg | \$260 | 11.1 kg | \$150 | 21.6 kg | \$340 |
| FMT.120.60°.20 | 20 | 3.0 | 30 | 26.0 kg | \$260 | 13.0 kg | \$150 | 25.0 kg | \$340 |
| FMT.120.60°.25 | 25 | 3.0 | 35 | 29.0 kg | \$260 | 15.0 kg | \$150 | 30.0 kg | \$340 |



| H=80mm | | | | 500KN/m max. | | | | | | | | |
|--------------|--------|--------|--------|--------------|---------|-------|--------|---------|-------|--------|---------|-------|
| Model | V [mm] | R [mm] | S [mm] | 835 mm | Weight | price | 415 mm | Weight | price | 805 mm | Weight | price |
| FMT.80.45°06 | 6 | 0.8 | 14 | | 13.0 kg | \$220 | | 6.5 kg | \$130 | | 12.5 kg | \$280 |
| FMT.80.45°08 | 8 | 1.0 | 18 | | 15.0 kg | \$220 | | 7.5 kg | \$130 | | 15.0 kg | \$280 |
| FMT.80.45°10 | 10 | 1.2 | 18 | | 14.0 kg | \$220 | | 7.0 kg | \$130 | | 13.5 kg | \$280 |
| FMT.80.45°12 | 12 | 1.6 | 24 | | 16.3 kg | \$220 | | 8.1 kg | \$130 | | 15.7 kg | \$280 |
| FMT.80.45°16 | 16 | 2.75 | 26 | | 16.6 kg | \$220 | | 8.3 kg | \$130 | | 16.0 kg | \$280 |
| FMT.80.45°20 | 20 | 3.0 | 30 | | 18.0 kg | \$220 | | 9.0 kg | \$130 | | 18.0 kg | \$280 |
| FMT.80.45°25 | 25 | 3.0 | 37 | | 20.0 kg | \$220 | | 10.0 kg | \$130 | | 20.0 kg | \$280 |

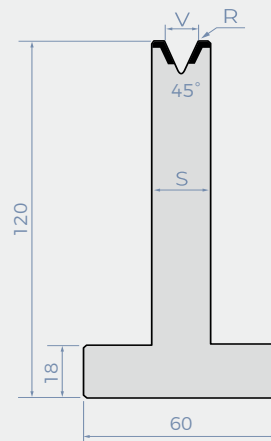
45°



DIES

| H=120mm | | | | 500KN/m max. | | | | | | | | |
|---------------|--------|--------|--------|--------------|---------|-------|--------|---------|-------|--------|---------|-------|
| Model | V [mm] | R [mm] | S [mm] | 835 mm | Weight | price | 415 mm | Weight | price | 805 mm | Weight | price |
| FMT.120.45°06 | 6 | 0.8 | 14 | | 16.0 kg | \$260 | | 8.0 kg | \$150 | | 16.0 kg | \$340 |
| FMT.120.45°08 | 8 | 1.0 | 18 | | 18.0 kg | \$260 | | 9.0 kg | \$150 | | 18.0 kg | \$340 |
| FMT.120.45°10 | 10 | 1.2 | 18 | | 18.0 kg | \$260 | | 9.0 kg | \$150 | | 18.0 kg | \$340 |
| FMT.120.45°12 | 12 | 1.6 | 24 | | 23.0 kg | \$260 | | 9.0 kg | \$150 | | 18.0 kg | \$340 |
| FMT.120.45°16 | 16 | 2.75 | 26 | | 25.0 kg | \$260 | | 12.5 kg | \$150 | | 25.0 kg | \$340 |
| FMT.120.45°20 | 20 | 3.0 | 30 | | 26.0 kg | \$260 | | 13.5 kg | \$150 | | 25.0 kg | \$340 |
| FMT.120.45°25 | 25 | 3.0 | 37 | | 30.0 kg | \$260 | | 15.0 kg | \$150 | | 28.9 kg | \$340 |

45°



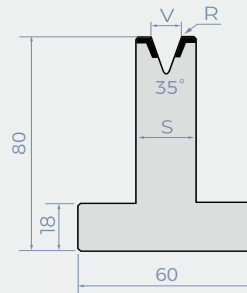
H=80mm

See table

| Model | V [mm] | R [mm] | S [mm] | Weight | price | Weight | price | Weight | price |
|---------------|--------|--------|--------|---------|-------|--------|-------|---------|-------|
| | | | 835 mm | | | | | | |
| FMT.80.35°.06 | 6 | 0.8 | 14 | 12.5 kg | \$220 | 6.5 kg | \$130 | 12.0 kg | \$280 |
| FMT.80.35°.08 | 8 | 1.0 | 16 | 13.0 kg | \$220 | 7.0 kg | \$130 | 14.0 kg | \$280 |
| FMT.80.35°.10 | 10 | 1.2 | 20 | 15.0 kg | \$220 | 7.5 kg | \$130 | 15.0 kg | \$280 |
| FMT.80.35°.12 | 12 | 1.6 | 22 | 15.5 kg | \$220 | 8.0 kg | \$130 | 16.0 kg | \$280 |
| FMT.80.35°.16 | 16 | 3.0 | 30 | 18.0 kg | \$220 | 8.5 kg | \$130 | 17.0 kg | \$280 |
| FMT.80.35°.20 | 20 | 3.0 | 35 | 19.3 kg | \$220 | 9.0 kg | \$130 | 18.0 kg | \$280 |
| FMT.80.35°.25 | 25 | 3.0 | 40 | 20.0 kg | \$220 | 9.9 kg | \$130 | 19.3 kg | \$280 |

35°

DIES

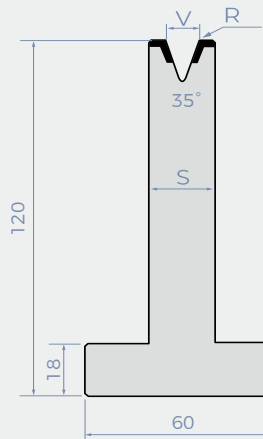


H=120mm

See table

| Model | V [mm] | R [mm] | S [mm] | Weight | price | Weight | price | Weight | price |
|----------------|--------|--------|--------|---------|-------|---------|-------|---------|-------|
| | | | 835 mm | | | | | | |
| FMT.120.35°.06 | 6 | 0.8 | 14 | 16.0 kg | \$260 | 8.0 kg | \$150 | 16.0 kg | \$340 |
| FMT.120.35°.08 | 8 | 1.0 | 16 | 18.0 kg | \$260 | 9.0 kg | \$150 | 18.0 kg | \$340 |
| FMT.120.35°.10 | 10 | 1.2 | 20 | 19.9 kg | \$260 | 8.5 kg | \$150 | 19.0 kg | \$340 |
| FMT.120.35°.12 | 12 | 1.6 | 22 | 21.0 kg | \$260 | 10.0 kg | \$150 | 20.0 kg | \$340 |
| FMT.120.35°.16 | 16 | 3.0 | 30 | 25.8 kg | \$260 | 12.8 kg | \$150 | 24.8 kg | \$340 |
| FMT.120.35°.20 | 20 | 3.0 | 35 | 28.0 kg | \$260 | 14.0 kg | \$150 | 28.0 kg | \$340 |
| FMT.120.35°.25 | 25 | 3.0 | 40 | 30.5 kg | \$260 | 15.2 kg | \$150 | 29.4 kg | \$340 |

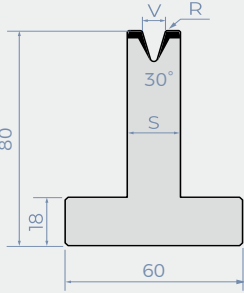
35°



H=80mm See table

| Model | V [mm] | R [mm] | S [mm] | Weight | price | | Weight | price | | Weight | price |
|---------------|--------|--------|--------|---------|-------|--------|---------|-------|--------|---------|-------|
| | | | | | | | | | | | |
| FMT.80.30°.06 | 6 | 0.6 | 14 | 12.4 kg | \$220 | 835 mm | 6.5 kg | \$130 | 415 mm | 12.0 kg | \$280 |
| FMT.80.30°.08 | 8 | 0.8 | 18 | 13.0 kg | \$220 | | 7.0 kg | \$130 | | 14.0 kg | \$280 |
| FMT.80.30°.10 | 10 | 1.0 | 24 | 16.0 kg | \$220 | | 8.0 kg | \$130 | | 15.0 kg | \$280 |
| FMT.80.30°.12 | 12 | 1.5 | 24 | 16.0 kg | \$220 | | 8.0 kg | \$130 | | 15.5 kg | \$280 |
| FMT.80.30°.16 | 16 | 2.0 | 30 | 18.0 kg | \$220 | | 8.9 kg | \$130 | | 17.3 kg | \$280 |
| FMT.80.30°.20 | 20 | 2.5 | 35 | 19.0 kg | \$220 | | 9.5 kg | \$130 | | 18.0 kg | \$280 |
| FMT.80.30°.25 | 25 | 3.0 | 40 | 20.0 kg | \$220 | | 10.0 kg | \$130 | | 19.3 kg | \$280 |

30°

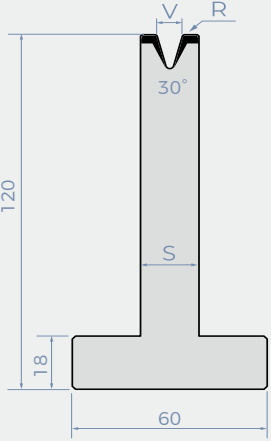


DIES

H=120mm See table

| Model | V [mm] | R [mm] | S [mm] | Weight | price | | Weight | price | | Weight | price |
|----------------|--------|--------|--------|---------|-------|--------|---------|-------|--------|---------|-------|
| | | | | | | | | | | | |
| FMT.120.30°.06 | 6 | 0.6 | 14 | 16.0 kg | \$260 | 835 mm | 8.0 kg | \$150 | 415 mm | 16.0 kg | \$340 |
| FMT.120.30°.08 | 8 | 0.8 | 18 | 19.0 kg | \$260 | | 9.5 kg | \$150 | | 19.0 kg | \$340 |
| FMT.120.30°.10 | 10 | 1.0 | 18 | 22.0 kg | \$260 | | 10.9 kg | \$150 | | 14.5 kg | \$340 |
| FMT.120.30°.12 | 12 | 1.5 | 24 | 22.0 kg | \$260 | | 10.0 kg | \$150 | | 20.0 kg | \$340 |
| FMT.120.30°.16 | 16 | 2.0 | 30 | 25.8 kg | \$260 | | 13.0 kg | \$150 | | 25.8 kg | \$340 |
| FMT.120.30°.20 | 20 | 2.5 | 35 | 28.0 kg | \$260 | | 14.0 kg | \$150 | | 28.0 kg | \$340 |
| FMT.120.30°.25 | 25 | 3.0 | 40 | 30.5 kg | \$260 | | 15.0 kg | \$150 | | 30.5 kg | \$340 |

30°

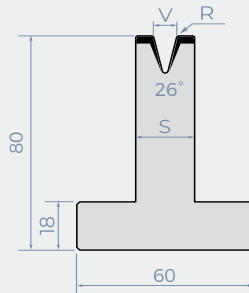


H=80mm

200KN/m max.

26°

| Model | V [mm] | R [mm] | S [mm] | 835 mm | Weight | price | 415 mm | Weight | price | 805 mm | Weight | price |
|---------------|--------|--------|--------|---------|---------|--------|--------|---------|-------|--------|---------|-------|
| FMT.80.26°.06 | 6 | 0.8 | 16 | | 14.0 kg | \$220 | | 7.0 kg | \$130 | | 13.5 kg | \$280 |
| FMT.80.26°.08 | 8 | 1.0 | 20 | 15.0 kg | \$220 | 7.5 kg | \$130 | 14.5 kg | \$280 | | | |
| FMT.80.26°.10 | 10 | 1.2 | 24 | 15.5 kg | \$220 | 8.0 kg | \$130 | 15.5 kg | \$280 | | | |
| FMT.80.26°.12 | 12 | 1.6 | 26 | 16.6 kg | \$220 | 7.5 kg | \$130 | 16.0 kg | \$280 | | | |



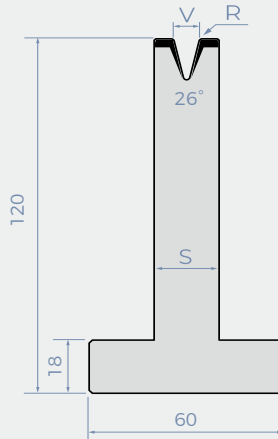
DIES

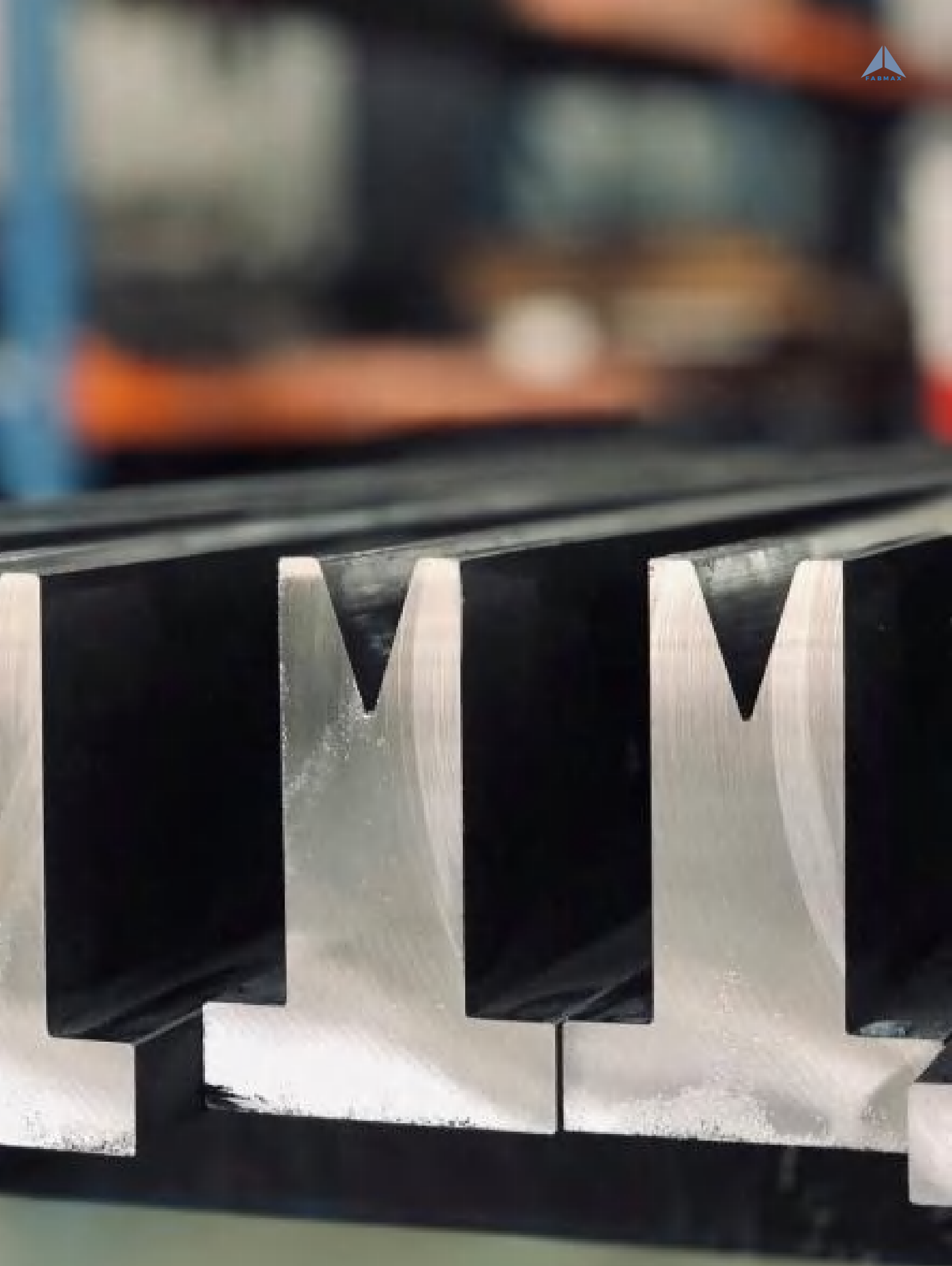
H=120mm

200KN/m max.

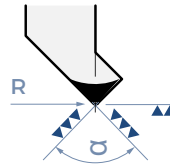
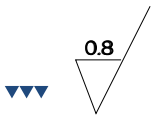
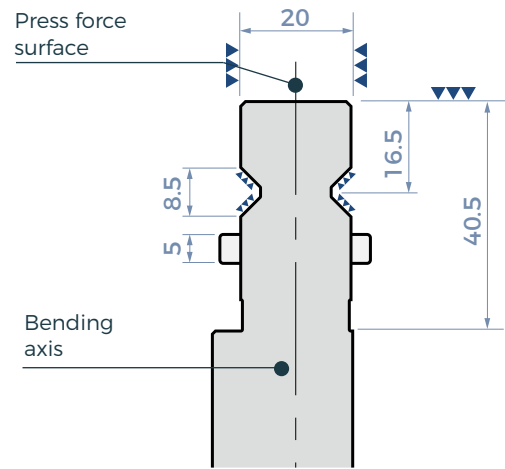
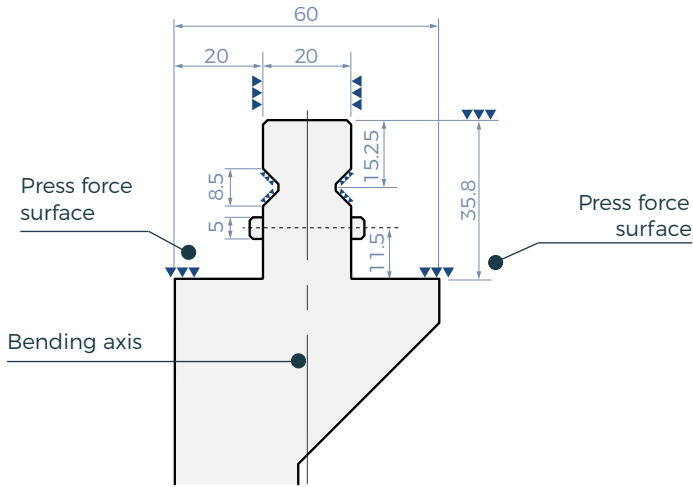
26°

| Model | V [mm] | R [mm] | S [mm] | 835 mm | Weight | price | 415 mm | Weight | price | 805 mm | Weight | price |
|----------------|--------|--------|--------|---------|---------|---------|--------|---------|-------|--------|---------|-------|
| FMT.120.26°.06 | 6 | 0.8 | 16 | | 18.0 kg | \$260 | | 9.0 kg | \$150 | | 18.0 kg | \$340 |
| FMT.120.26°.08 | 8 | 1.0 | 20 | 19.0 kg | \$260 | 9.5 kg | \$150 | 19.0 kg | \$340 | | | |
| FMT.120.26°.10 | 10 | 1.2 | 24 | 22.0 kg | \$260 | 11.0 kg | \$150 | 22.0 kg | \$340 | | | |
| FMT.120.26°.12 | 12 | 1.6 | 26 | 22.0 kg | \$260 | 11.0 kg | \$150 | 22.0 kg | \$340 | | | |





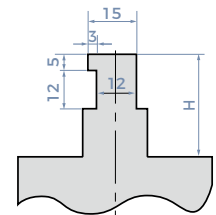
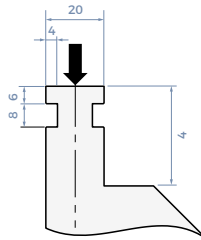
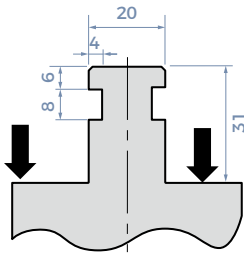
STANDARD TANG



MODIFICATIONS FROM SAFETY GROOVES

Modification of Fabmax punch with shoulder bearing

Modification of Fabmax punch with head bearing

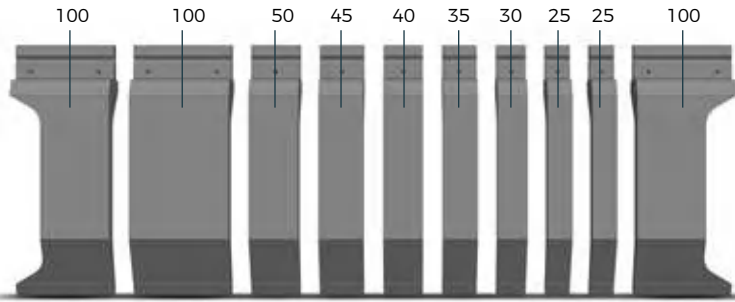


STANDARD LENGTH

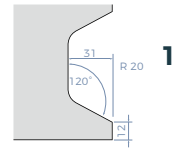
| | |
|--------|--|
| 100 mm | |
| 250 mm | |
| 500 mm | |
| 515 mm | |
| 525 mm | |

SEGMENTATION

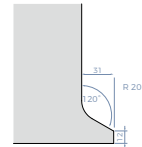
FW: 550 mm - 10 segments



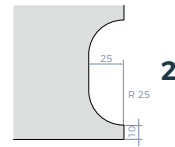
Horn types



1

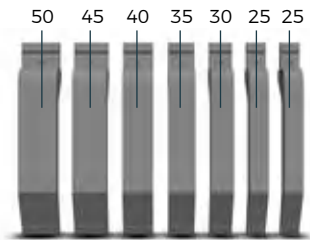


1/A

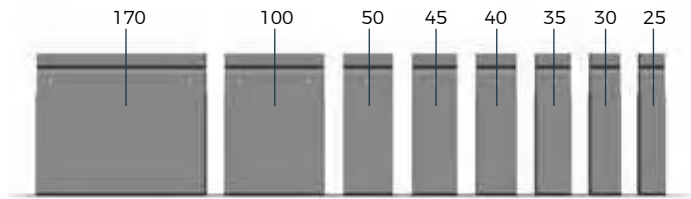


2

FC: 250 mm - 7 segments



F: 495 mm - 8 segments



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

| Length mm | 25 | 30 | 35 | 40 | 45 | 50 | Horn | | Total |
|--------------|----|----|----|----|----|----|------|----|-------|
| | | | | | | | l. | r. | |
| 1250 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 2050 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 16 |
| 2550 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 21 |
| 3050 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 26 |
| 4050 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 36 |

Available on request

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

| Length mm | 25 | 30 | 35 | 40 | 45 | 50 | Horn | | | | 200 | 300 | 500 |
|--------------|----|----|----|----|----|----|------|----|----|----|-----|-----|-----|
| | | | | | | | l. | r. | l. | r. | | | |
| 1250 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 0 | |
| 2050 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | |
| 2550 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | |
| 3050 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | |
| 4050 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | |

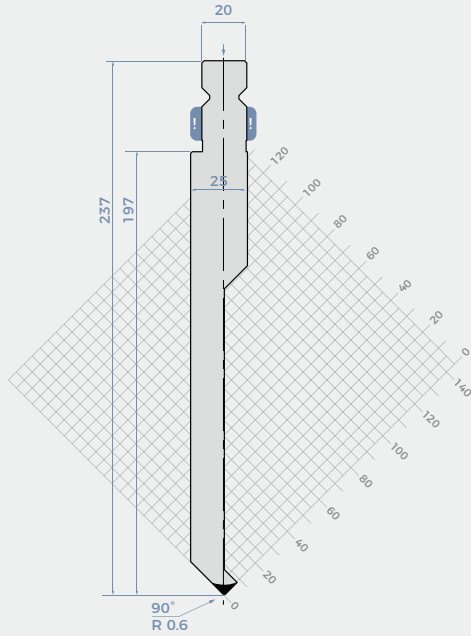
Available on request

FMWP.197.90°.R06

600KN/m max.

90°

| | | |
|--------|---------|--------|
| 515 mm | 17.5 kg | \$ 345 |
| 550 mm | 18.7 kg | \$ 680 |

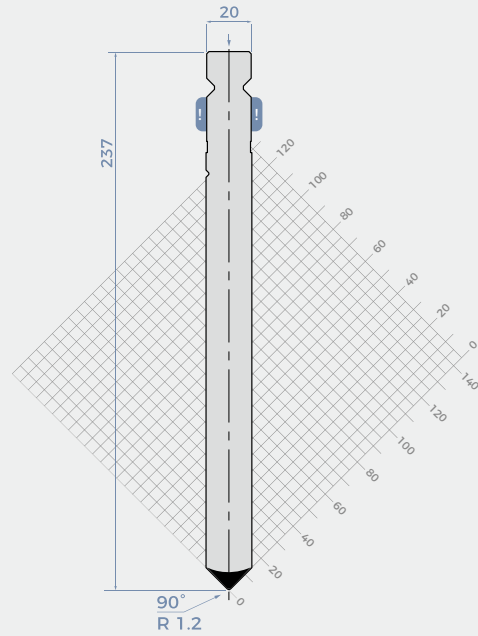


FMWP.197.90°.R12

1000KN/m max.

90°

| | | |
|--------|---------|--------|
| 515 mm | 19.0 kg | \$ 315 |
| 550 mm | 20.3 kg | \$ 645 |

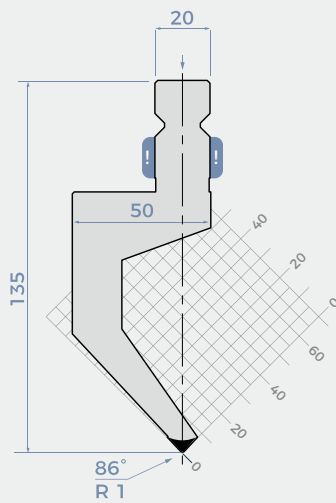


FMWP.95.86°.R1

650KN/m max.

86°

| | | |
|--------|---------|--------|
| 515 mm | 12.3 kg | \$ 275 |
| 550 mm | 13.1 kg | \$ 585 |

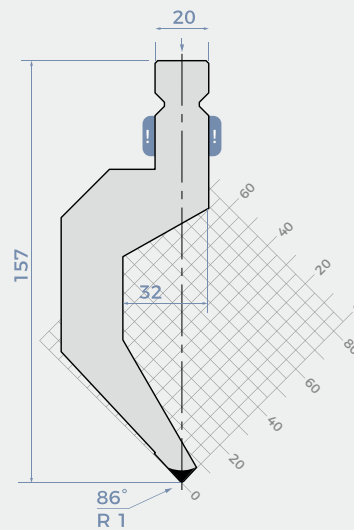
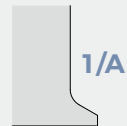


FMWP.117.86°.R1A

800KN/m max.

86°

| | | |
|--------|---------|--------|
| 515 mm | 14.0 kg | \$ 230 |
| 550 mm | 15.0 kg | \$ 460 |



FMWP.117.86°.R1B
800KN/m max.

86°

| | | |
|-------|---------|--------|
| 515mm | 12.9 kg | \$ 185 |
| 550mm | 13.8 kg | \$ 360 |

1/A

FMWP.160.86°.R1
500KN/m max.

86°

| | | |
|-------|---------|--------|
| 515mm | 19.1 kg | \$ 355 |
| 550mm | 20.4 kg | \$ 725 |

2

FMWP.197.86°.R1
500KN/m max.

86°

| | | |
|-------|---------|--------|
| 515mm | 23.0 kg | \$ 430 |
| 550mm | 24.6 kg | \$ 795 |

2

FMWP.220.86°.R1A
800KN/m max.

86°

| | | |
|-------|---------|---------|
| 515mm | 31.8 kg | \$ 580 |
| 550mm | 35.2 kg | \$ 1250 |

1

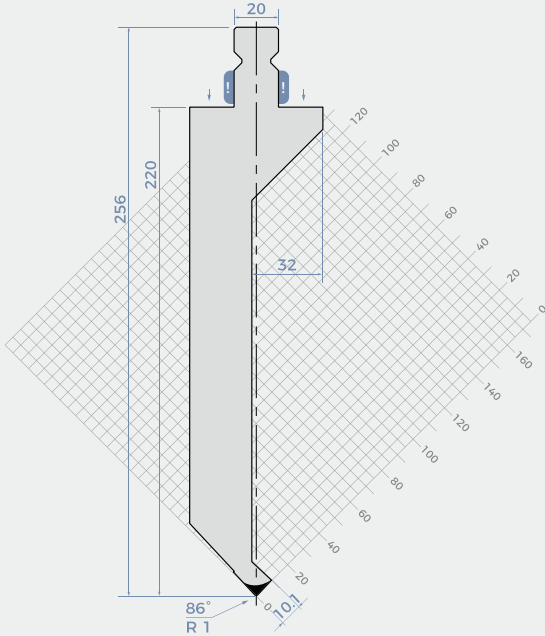
WILA TOOLS

FMWP.220.86° R1B

800KN/m max.

86°

| | | |
|--------|---------|---------|
| 515 mm | 26.7 kg | \$ 440 |
| 550 mm | 28.5 kg | \$ 1035 |

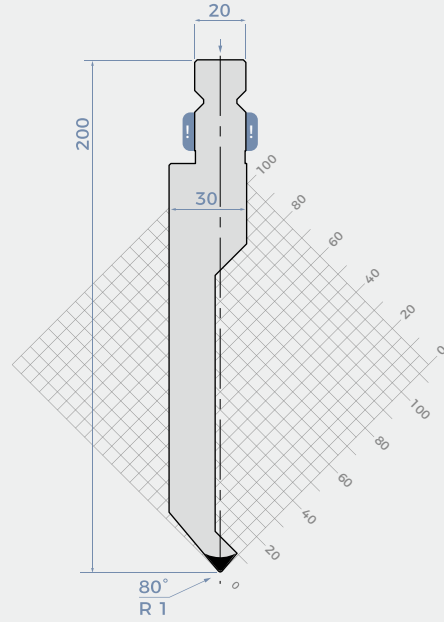


FMWP.160.80° R1

800KN/m max.

80°

| | | |
|--------|---------|--------|
| 515 mm | 19.0 kg | \$ 300 |
| 550 mm | 21.0 kg | \$ 635 |

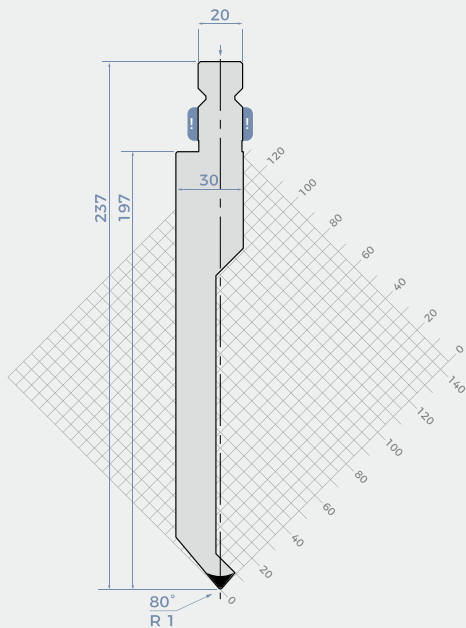


FMWP.197.80° R1

800KN/m max.

80°

| | | |
|--------|---------|--------|
| 515 mm | 19.7 kg | \$ 345 |
| 550 mm | 21.0 kg | \$ 680 |

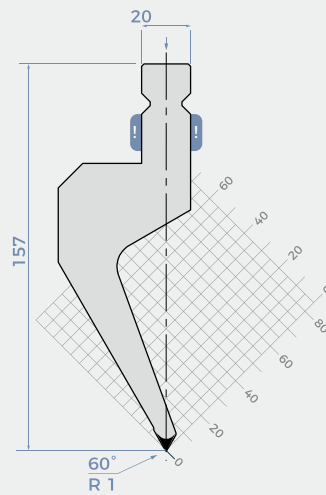


FMWP.117.60° R1

700KN/m max.

60°

| | | |
|--------|---------|--------|
| 515 mm | 15.0 kg | \$ 230 |
| 550 mm | 16.0 kg | \$ 455 |



FMWP.160.60°R1
700KN/m max.

60°

| | | |
|-------|---------|--------|
| 515mm | 18.3 kg | \$ 265 |
| 550mm | 20.2 kg | \$ 725 |

2

NEW

FMWP.197.60°R1
700KN/m max.

60°

| | | |
|-------|---------|--------|
| 515mm | 21.6 kg | \$ 345 |
| 550mm | 23.8 kg | \$ 835 |

2

NEW

FMWP.117.60°R4
1300KN/m max.

60°

| | | |
|-------|---------|--------|
| 515mm | 13.7 kg | \$ 150 |
| 550mm | 14.9 kg | \$ 300 |

1/A

FMWP.160.60°R3
1300KN/m max.

60°

| | | |
|-------|---------|--------|
| 515mm | 15.6 kg | \$ 245 |
| 550mm | 16.7 kg | \$ 525 |

2

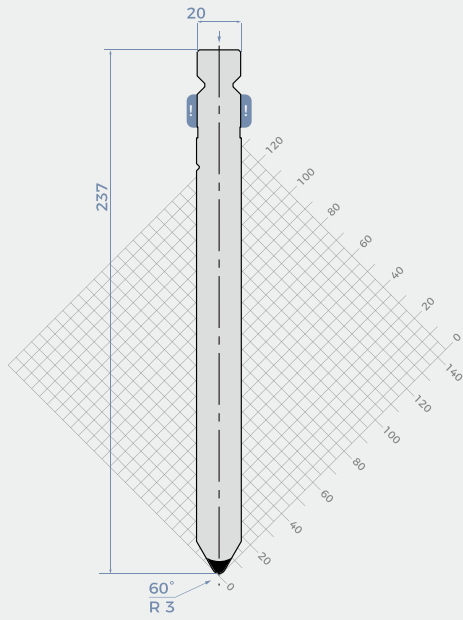
WILA TOOLS

FMWP.217.60°R3

1300KN/m max.

60°

| | | |
|--------|---------|--------|
| 515 mm | 18.8 kg | \$ 325 |
| 550 mm | 20.1 kg | \$ 670 |

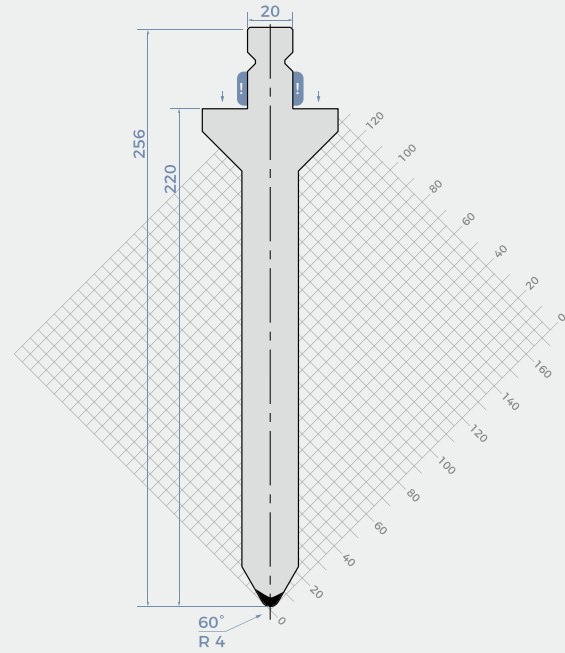


FMWP.220.60°R4

1300KN/m max.

60°

| | | |
|--------|---------|---------|
| 515 mm | 26.1 kg | \$ 480 |
| 550 mm | 27.0 kg | \$ 1135 |

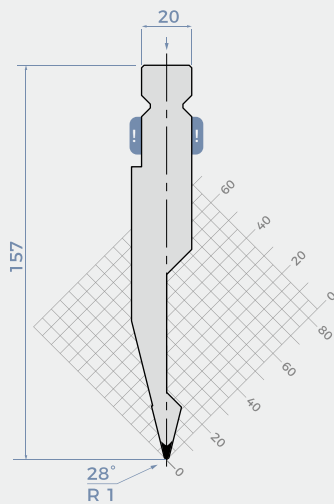


FMWP.117.28°R1

600KN/m max.

28°

| | | |
|--------|---------|--------|
| 515 mm | 10.4 kg | \$ 180 |
| 550 mm | 11.2 kg | \$ 380 |

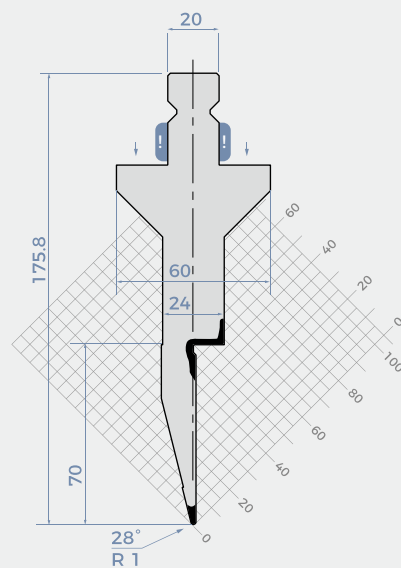
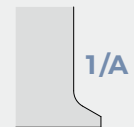


FMWP.140.28°R1

400KN/m max.

28°

| | | |
|--------|---------|--------|
| 515 mm | 15.4 kg | \$ 330 |
| 550 mm | 16.2 kg | \$ 645 |



FMWP.160.28°R1
600KN/m max.

28°

| | | |
|-------|---------|--------|
| 515mm | 12.6 kg | \$ 270 |
| 550mm | 13.5 kg | \$ 675 |

FMWP.197.28°R1
600KN/m max.

28°

| | | |
|-------|---------|--------|
| 515mm | 15.0 kg | \$ 360 |
| 550mm | 16.0 kg | \$ 710 |

FMWP.220.28°R1
600KN/m max.

28°

| | | |
|-------|---------|---------|
| 515mm | 25.0 kg | \$ 450 |
| 550mm | 26.0 kg | \$ 1065 |

FMWP.240.28°R1
400KN/m max.

28°

| | | |
|-------|---------|---------|
| 515mm | 24.0 kg | \$ 530 |
| 550mm | 26.4 kg | \$ 1250 |

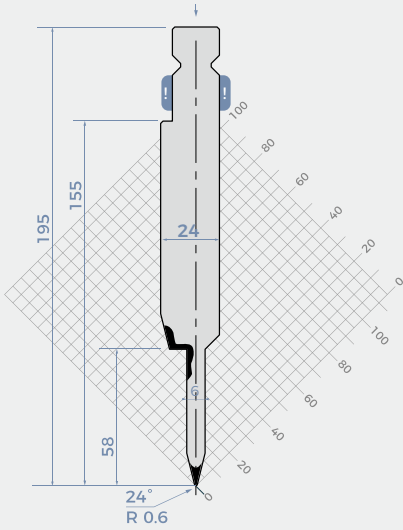
WILA TOOLS

FMWP.155.24°.6

800-1000KN/m max.

24°

| | | |
|--------|---------|--------|
| 515 mm | 9.9 kg | \$ 470 |
| 550 mm | 16.1 kg | \$ 745 |

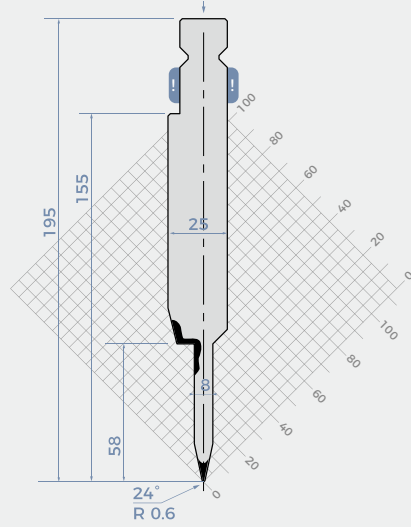


FMWP.155.24°.8

800-1000KN/m max.

24°

| | | |
|--------|---------|--------|
| 515 mm | 9.9 kg | \$ 470 |
| 550 mm | 16.0 kg | \$ 745 |

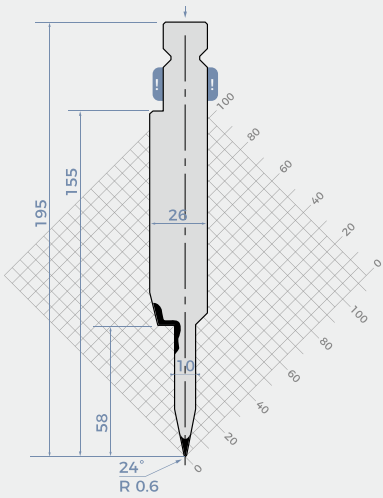


FMWP.155.24°.10

800-1000KN/m max.

24°

| | | |
|--------|---------|--------|
| 515 mm | 10.3 kg | \$ 470 |
| 550 mm | 16.5 kg | \$ 740 |

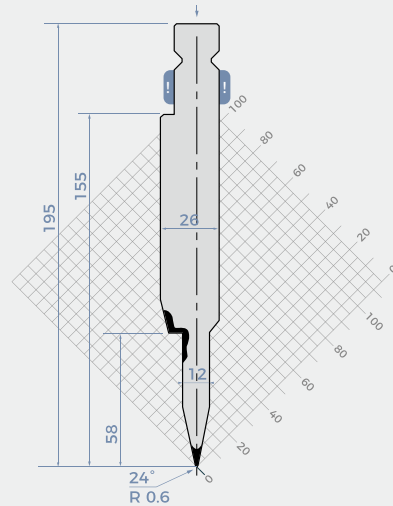


FMWP.155.24°.12

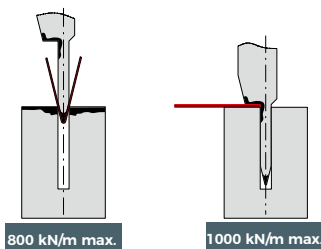
800-1000KN/m max.

24°

| | | |
|--------|---------|--------|
| 515 mm | 10.5 kg | \$ 470 |
| 550 mm | 17.0 kg | \$ 745 |



Ex. Application



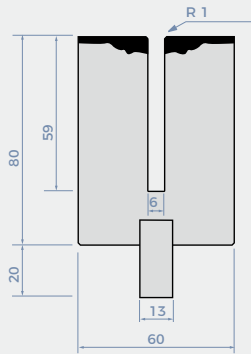
| S [mm] | S [in] | A [mm] | A [in] | R420 kN/mm ² kN/m | R700 kN/mm ² kN/m |
|--------|--------|--------|--------|------------------------------------|------------------------------------|
| 0.6 | 0.02 | 3.0 | 0.12 | 90 | 150 |
| 0.8 | 0.03 | 3.0 | 0.12 | 120 | 200 |
| 1.0 | 0.04 | 3.5 | 0.14 | 150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

FMWP.D80.6

500-1000KN/m max.

24°

| | | |
|--------|---------|--------|
| 515 mm | 11.5 kg | \$ 350 |
| 550 mm | 12.5 kg | \$ 525 |

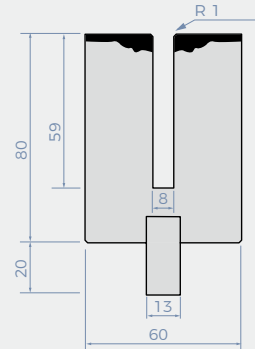


FMWP.D80.8

500-1000KN/m max.

24°

| | | |
|--------|---------|--------|
| 515 mm | 11.5 kg | \$ 350 |
| 550 mm | 12.5 kg | \$ 525 |

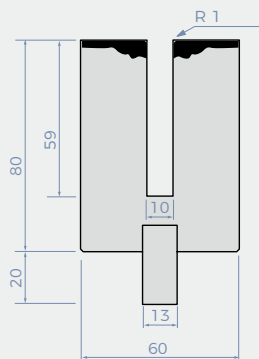


FMWP.D80.10

500-1000KN/m max.

24°

| | | |
|--------|---------|--------|
| 515 mm | 11.5 kg | \$ 350 |
| 550 mm | 12.5 kg | \$ 525 |

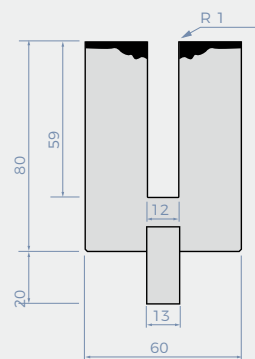


FMWP.D80.12

500-1000KN/m max.

24°

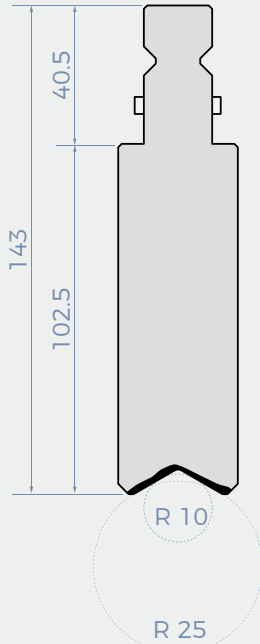
| | | |
|--------|---------|--------|
| 515 mm | 11.5 kg | \$ 350 |
| 550 mm | 12.5 kg | \$ 525 |



FMWP.103.10

1000KN/m max.

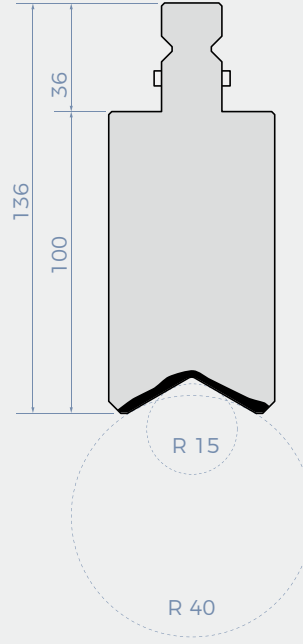
| | | |
|--------|---------|--------|
| 515 mm | 17.5 kg | \$ 220 |
| 550 mm | 18.6 kg | \$ 405 |



FMWP.100.15

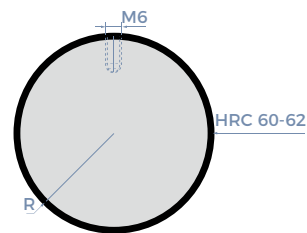
1000KN/m max.

| | | |
|--------|---------|--------|
| 515 mm | 24.2 kg | \$ 460 |
| 550 mm | 25.6 kg | \$ 755 |



Radius punches: R10-R40 1000KN/m max.

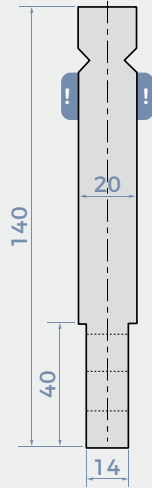
| | R [mm] | 550 mm | | 515 mm | |
|----------|--------|---------|-------|---------|-------|
| | | Weight | price | Weight | price |
| TOPC10 | 10 | 1.3 kg | \$35 | 2.7 kg | \$125 |
| TOPC12.5 | 12.5 | 2.0 kg | \$35 | 2.8 kg | \$170 |
| TOPC15 | 15 | 3.0 kg | \$45 | 3.8 kg | \$195 |
| TOPC17.5 | 17.5 | 4.0 kg | \$45 | 4.7 kg | \$200 |
| TOPC20 | 20 | 5.2 kg | \$50 | 6.6 kg | \$235 |
| TOPC22.5 | 22.5 | 6.6 kg | \$60 | 6.6 kg | \$275 |
| TOPC25 | 25 | 8.1 kg | \$75 | 7.5 kg | \$130 |
| TOPC27.5 | 27.5 | 9.8 kg | \$85 | 9.2 kg | \$315 |
| TOPC30 | 30 | 11.7 kg | \$95 | 11.3 kg | \$360 |
| TOPC32.5 | 32.5 | 13.7 kg | \$120 | 12.9 kg | \$400 |
| TOPC35 | 35 | 16.0 kg | \$145 | 15.1 kg | \$445 |
| TOPC37.5 | 37.5 | 18.2 kg | \$160 | 17.2 kg | \$520 |
| TOPC40 | 40 | 20.7 kg | \$185 | 19.5 kg | \$540 |



FMWP.100.14

800KN/m max.

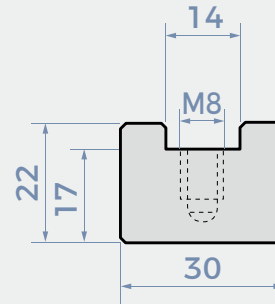
| | | |
|--------|---------|--------|
| 515 mm | 10.2 kg | \$ 200 |
| 550 mm | 15.4 kg | \$ 300 |



FMWP.D22.14

800KN/m max.

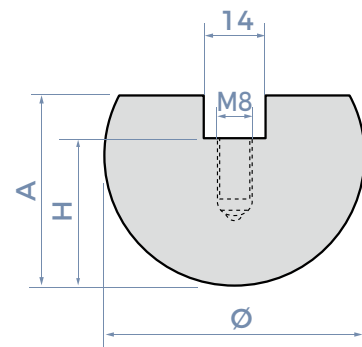
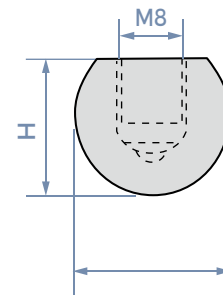
| | | |
|--------|--------|--------|
| 515 mm | 1.8 kg | \$ 200 |
| 550 mm | 2.1 kg | \$ 300 |



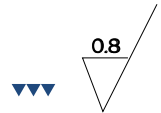
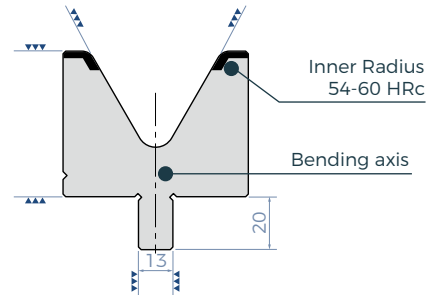
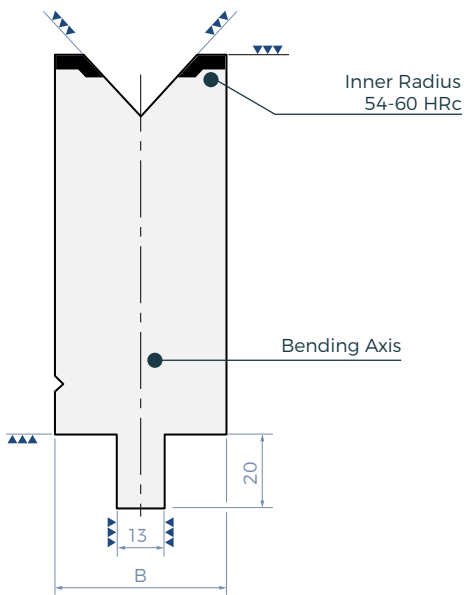
Radius tool: ϕ 16-100

800KN/m max.

| ϕ [mm] | A [mm] | H [mm] | Weight | price | Weight | price |
|----------------|-----------|-----------|---------|-------|---------|-------|
| C13.08 | 16 | 13 | 2.0 kg | \$50 | 1.0 kg | \$35 |
| C13.09 | 18 | 16 | 2.0 kg | \$50 | 1.0 kg | \$35 |
| C16.10 | 20 | 16 | 2.0 kg | \$40 | 1.0 kg | \$25 |
| C17.12 | 25 | 17 | 2.5 kg | \$65 | 1.2 kg | \$40 |
| C20.15 | 30 | 20 | 3.7 kg | \$60 | 1.8 kg | \$35 |
| C22.17 | 35 | 22 | 5.0 kg | \$85 | 2.4 kg | \$50 |
| C24.20 | 40 | 24 | 7.0 kg | \$75 | 3.5 kg | \$45 |
| C25.22 | 45 | 25 | 7.5 kg | \$75 | 3.8 kg | \$45 |
| C29.25 | 50 | 29 | 10.0 kg | \$75 | 4.7 kg | \$45 |
| C34.27 | 55 | 34 | 12.4 kg | \$85 | 6.2 kg | \$50 |
| C34.30 | 60 | 34 | 13.5 kg | \$95 | 6.7 kg | \$60 |
| C37.32 | 65 | 37 | 15.9 kg | \$140 | 7.9 kg | \$75 |
| C45.35 | 70 | 45 | 20.3 kg | \$190 | 10.0 kg | \$105 |
| C42.37 | 75 | 42 | 20.5 kg | \$205 | 10.3 kg | \$115 |
| C45.40 | 80 | 45 | 23.0 kg | \$220 | 11.5 kg | \$115 |
| C60.45 | 90 | 60 | 34.0 kg | \$265 | 17.0 kg | \$140 |
| C70.50 | 100 | 70 | 43.5 kg | \$280 | 21.7 kg | \$160 |

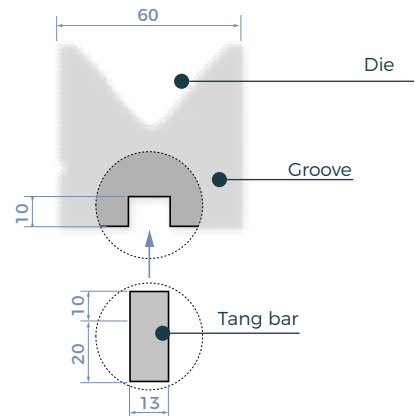


STANDARD TANG



MODIFICATIONS WEDGE/BAR TAIL

To use Fabmax Type dies, a 10 mm groove is milled where a ground bar is mounted.

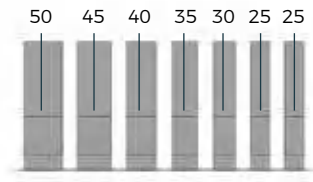


STANDARD LENGTH

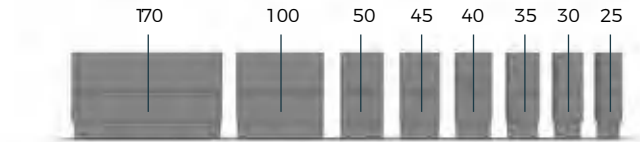
| | |
|---------|----------------------|
| 100 mm | <input type="text"/> |
| 500 mm | <input type="text"/> |
| 515 mm | <input type="text"/> |
| 525 mm | <input type="text"/> |
| 1000 mm | <input type="text"/> |

SEGMENTATION

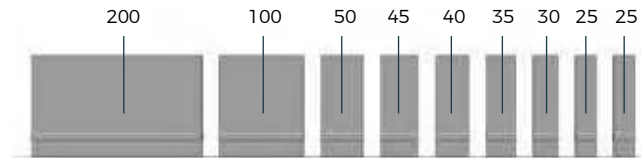
FC: 250 mm - 7 segments



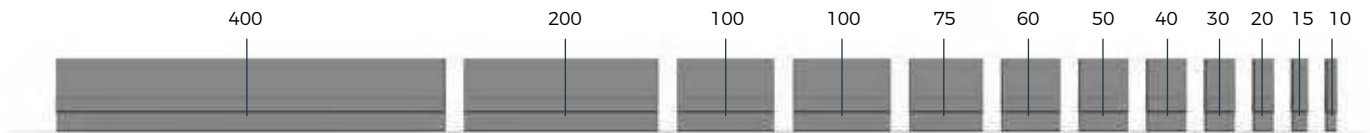
F: 495 mm - 8 segments



FW: 550 mm - 9 segments



F: 1100 mm - 12 segments



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

| Length mm | 25 | 30 | 35 | 40 | 45 | 50 | 100 |
|-----------|----|----|----|----|----|----|-----|
| 1250 | 2 | 1 | 1 | 1 | 1 | 1 | 10 |
| 2050 | 2 | 1 | 1 | 1 | 1 | 1 | 18 |
| 2550 | 2 | 1 | 1 | 1 | 1 | 1 | 23 |
| 3050 | 2 | 1 | 1 | 1 | 1 | 1 | 28 |
| 4050 | 2 | 1 | 1 | 1 | 1 | 1 | 28 |

Available on request

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

| Length mm | 25 | 30 | 35 | 40 | 45 | 50 | 100 | 200 | 300 | 500 |
|-----------|----|----|----|----|----|----|-----|-----|-----|-----|
| 1250 | 2 | 1 | 1 | 1 | 1 | 1 | 3 | 2 | 1 | 0 |
| 2050 | 2 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 2 |
| 2550 | 2 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 3 |
| 3050 | 2 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 4 |
| 4050 | 2 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 6 |

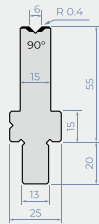
Available on request

SINGLE-V DIES

FMWD.55.90°6
900-1150 kN/m max

90°

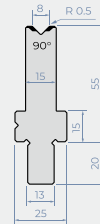
| | | |
|-------|--------|--------|
| 515mm | 4.3 kg | \$ 150 |
| 550mm | 4.5 kg | \$ 195 |



FMWD.55.90°8
900-1150 kN/m max

90°

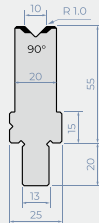
| | | |
|-------|--------|--------|
| 515mm | 4.6 kg | \$ 150 |
| 550mm | 4.8 kg | \$ 195 |



FMWD.55.90°10
900-1150 kN/m max

90°

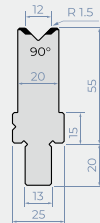
| | | |
|-------|--------|--------|
| 515mm | 5.3 kg | \$ 150 |
| 550mm | 5.5 kg | \$ 195 |



FMWD.55.90°12
900-1150 kN/m max

90°

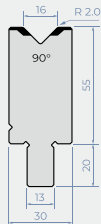
| | | |
|-------|--------|--------|
| 515mm | 5.3 kg | \$ 150 |
| 550mm | 5.5 kg | \$ 195 |



FMWD.55.90°16
900-1150 kN/m max

90°

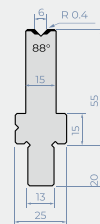
| | | |
|-------|--------|--------|
| 515mm | 7.3 kg | \$ 150 |
| 550mm | 7.5 kg | \$ 195 |



FMWD.55.88°6
900-1150 kN/m max

88°

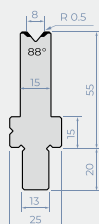
| | | |
|-------|--------|--------|
| 515mm | 4.8 kg | \$ 150 |
| 550mm | 5.1 kg | \$ 195 |



FMWD.55.88°8
900-1150 kN/m max

88°

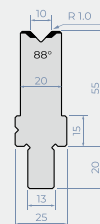
| | | |
|-------|--------|--------|
| 515mm | 4.3 kg | \$ 150 |
| 550mm | 4.5 kg | \$ 195 |



FMWD.55.88°10
900-1150 kN/m max

88°

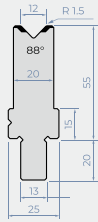
| | | |
|-------|--------|--------|
| 515mm | 5.1 kg | \$ 150 |
| 550mm | 5.3 kg | \$ 195 |



FMWD.55.88°12
900-1150 kN/m max

88°

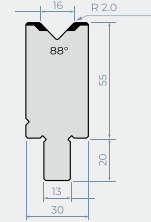
| | | |
|-------|--------|--------|
| 515mm | 5.3 kg | \$ 150 |
| 550mm | 5.5 kg | \$ 195 |



FMWD.55.88°16
900-1150 kN/m max

88°

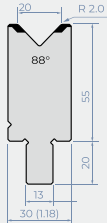
| | | |
|-------|--------|--------|
| 515mm | 7.3 kg | \$ 150 |
| 550mm | 7.6 kg | \$ 195 |



FMWD.55.88°20
900-1150 kN/m max

88°

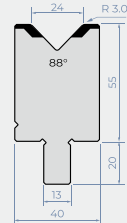
| | | |
|-------|--------|--------|
| 515mm | 7.3 kg | \$ 150 |
| 550mm | 7.6 kg | \$ 195 |



FMWD.55.88°24
900-1150 kN/m max

88°

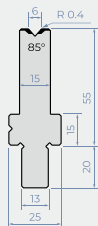
| | | |
|-------|--------|--------|
| 515mm | 9.3 kg | \$ 190 |
| 550mm | 9.5 kg | \$ 250 |



FMWD.55.85°6
900-1150 kN/m max

85°

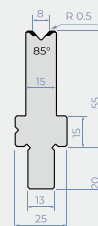
| | | |
|-------|--------|--------|
| 515mm | 4.3 kg | \$ 150 |
| 550mm | 4.5 kg | \$ 195 |



FMWD.55.85°8
900-1150 kN/m max

85°

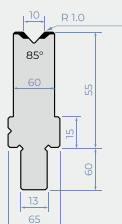
| | | |
|-------|--------|--------|
| 515mm | 4.6 kg | \$ 150 |
| 550mm | 4.8 kg | \$ 195 |



FMWD.55.85°10
900-1150 kN/m max

85°

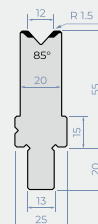
| | | |
|-------|--------|--------|
| 515mm | 5.2 kg | \$ 150 |
| 550mm | 5.5 kg | \$ 195 |



FMWD.55.85°12
900-1150 kN/m max

85°

| | | |
|-------|--------|--------|
| 515mm | 5.3 kg | \$ 150 |
| 550mm | 5.4 kg | \$ 195 |

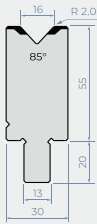


SINGLE-V DIES

FMWD.55.85°16
900-1150 kN/m max

85°

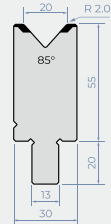
| | | |
|-------|--------|--------|
| 515mm | 7.3 kg | \$ 150 |
| 550mm | 7.5 kg | \$ 195 |



FMWD.55.85°20
900-1150 kN/m max

85°

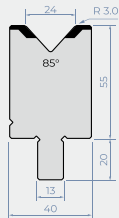
| | | |
|-------|--------|--------|
| 515mm | 7.3 kg | \$ 150 |
| 550mm | 7.6 kg | \$ 195 |



FMWD.55.85°24
900-1150 kN/m max

85°

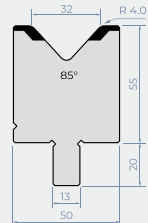
| | | |
|-------|--------|--------|
| 515mm | 9.3 kg | \$ 150 |
| 550mm | 9.5 kg | \$ 195 |



FMWD.55.85°32
900-1150 kN/m max

85°

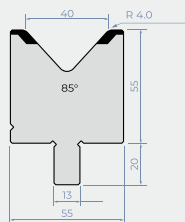
| | | |
|-------|---------|--------|
| 515mm | 10.6kg | \$ 150 |
| 550mm | 10.8 kg | \$ 195 |



FMWD.55.85°40
900-1150 kN/m max

85°

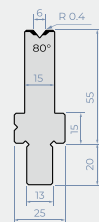
| | | |
|-------|---------|--------|
| 515mm | 10.8kg | \$ 200 |
| 550mm | 11.1 kg | \$ 260 |



FMWD.55.80°6
900-1150 kN/m max

80°

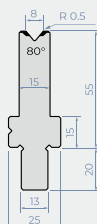
| | | |
|-------|--------|--------|
| 515mm | 4.3 kg | \$ 150 |
| 550mm | 4.5 kg | \$ 195 |



FMWD.55.80°8
900-1150 kN/m max

80°

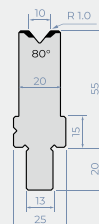
| | | |
|-------|--------|--------|
| 515mm | 4.6 kg | \$ 150 |
| 550mm | 4.8 kg | \$ 195 |



FMWD.55.80°10
900-1150 kN/m max

80°

| | | |
|-------|--------|--------|
| 515mm | 5.2 kg | \$ 150 |
| 550mm | 5.4 kg | \$ 195 |



SINGLE-V DIES

FMWD.55.80°12
900-1150 kN/m max

80°

| | | |
|-------|--------|--------|
| 515mm | 5.3 kg | \$ 150 |
| 550mm | 5.5 kg | \$ 195 |

FMWD.55.80°16
900-1150 kN/m max

80°

| | | |
|-------|--------|--------|
| 515mm | 7.4 kg | \$ 150 |
| 550mm | 7.6 kg | \$ 195 |

FMWD.55.80°20
900-1150 kN/m max

80°

| | | |
|-------|--------|--------|
| 515mm | 7.3 kg | \$ 150 |
| 550mm | 7.6 kg | \$ 195 |

FMWD.55.80°24
900-1150 kN/m max

80°

| | | |
|-------|--------|--------|
| 515mm | 9.3 kg | \$ 150 |
| 550mm | 9.5 kg | \$ 195 |

FMWD.55.80°32
900-1150 kN/m max

80°

| | | |
|-------|--------|--------|
| 515mm | 10.6kg | \$ 200 |
| 550mm | 10.8kg | \$ 260 |

FMWD.55.80°40
900-1150 kN/m max

80°

| | | |
|-------|---------|--------|
| 515mm | 10.8kg | \$ 150 |
| 550mm | 11.1 kg | \$ 195 |

FMWD.65.80°80
900-1150 kN/m max

80°

| | | |
|-------|--------|--------|
| 515mm | 20.0kg | \$ 300 |
| 550mm | 21.5kg | \$ 390 |

FMWD.85.80°100
900-1150 kN/m max

80°

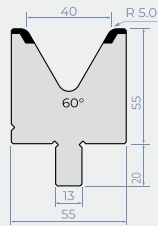
| | | |
|-------|---------|--------|
| 515mm | 31.0kg | \$ 380 |
| 550mm | 35.0 kg | \$ 500 |

SINGLE-V DIES

FMWD.55.60°40
900-1150 kN/m max

60°

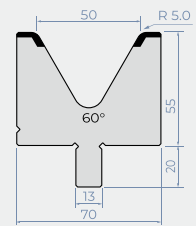
| | | |
|-------|--------|--------|
| 515mm | 10.7kg | \$ 190 |
| 550mm | 11.8kg | \$ 250 |



FMWD.55.60°50
900-1150 kN/m max

60°

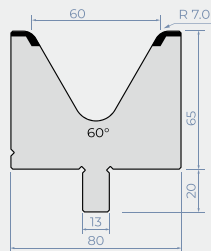
| | | |
|-------|---------|--------|
| 515mm | 12.2kg | \$ 190 |
| 550mm | 13.4 kg | \$ 250 |



FMWD.65.60°60
900-1150 kN/m max

60°

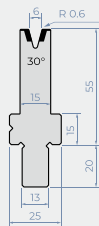
| | | |
|-------|--------|--------|
| 515mm | 15.5kg | \$ 200 |
| 550mm | 17.0kg | \$ 260 |



FMWD.55.30°6
900-1150 kN/m max

30°

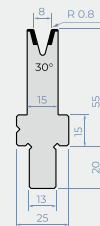
| | | |
|-------|--------|--------|
| 515mm | 4.6 kg | \$ 150 |
| 550mm | 4.8 kg | \$ 195 |



FMWD.55.30°8
900-1150 kN/m max

30°

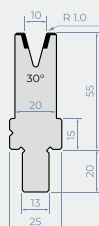
| | | |
|-------|--------|--------|
| 515mm | 4.6 kg | \$ 150 |
| 550mm | 4.8 kg | \$ 195 |



FMWD.55.30°10
900-1150 kN/m max

30°

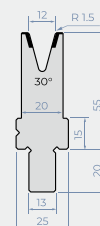
| | | |
|-------|--------|--------|
| 515mm | 5.0 kg | \$ 150 |
| 550mm | 5.5 kg | \$ 195 |



FMWD.55.30°12
900-1150 kN/m max

30°

| | | |
|-------|--------|--------|
| 515mm | 5.0 kg | \$ 150 |
| 550mm | 5.5 kg | \$ 195 |



FMWD.55.30°16
900-1150 kN/m max

30°

| | | |
|-------|--------|--------|
| 515mm | 6.5 kg | \$ 150 |
| 550mm | 7.5 kg | \$ 195 |

FMWD.55.30°20
900-1150 kN/m max

30°

| | | |
|-------|--------|--------|
| 515mm | 7.2 kg | \$ 150 |
| 550mm | 7.7 kg | \$ 195 |

FMWD.55.30°24
900-1150 kN/m max

30°

| | | |
|-------|--------|--------|
| 515mm | 7.8 kg | \$ 150 |
| 550mm | 8.5 kg | \$ 195 |

FMWD.60.30°32
900-1150 kN/m max

30°

| | | |
|-------|---------|--------|
| 515mm | 11.7kg | \$ 150 |
| 550mm | 13.0 kg | \$ 195 |

FMWD.70.30°8
900-1150 kN/m max

30°

| | | |
|-------|--------|--------|
| 515mm | 6.5 kg | \$ 150 |
| 550mm | 7.0 kg | \$ 195 |

FMWD.70.30°10
900-1150 kN/m max

30°

| | | |
|-------|--------|--------|
| 515mm | 6.4 kg | \$ 150 |
| 550mm | 7.2 kg | \$ 195 |

FMWD.70.30°12
900-1150 kN/m max

30°

| | | |
|-------|--------|--------|
| 515mm | 7.5 kg | \$ 150 |
| 550mm | 8.0 kg | \$ 195 |

FMWD.70.30°16
900-1150 kN/m max

30°

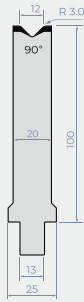
| | | |
|-------|--------|--------|
| 515mm | 8.4 kg | \$ 150 |
| 550mm | 9.1 kg | \$ 195 |

SINGLE-V DIES

FMWD.100.90°12
1200 kN/m max

90°

| | | |
|-------|--------|--------|
| 515mm | 9.2 kg | \$ 160 |
| 550mm | 9.8 kg | \$ 200 |



FMWD.100.86°4
250 kN/m max

86°

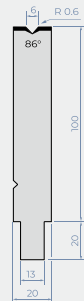
| | | |
|-------|--------|--------|
| 515mm | 4.9 kg | \$ 160 |
| 550mm | 5.2 kg | \$ 200 |



FMWD.100.86°6
1200 kN/m max

86°

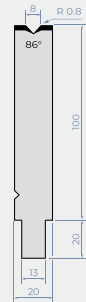
| | | |
|-------|--------|--------|
| 515mm | 9.1 kg | \$ 160 |
| 550mm | 9.5 kg | \$ 200 |



FMWD.100.86°8
1150 kN/m max

86°

| | | |
|-------|--------|--------|
| 515mm | 8.9 kg | \$ 160 |
| 550mm | 9.7 kg | \$ 200 |



FMWD.100.86°8
400 kN/m max

86°

| | | |
|-------|--------|--------|
| 515mm | 9.1 kg | \$ 160 |
| 550mm | 9.7 kg | \$ 200 |



FMWD.100.86°10
1100 kN/m max

86°

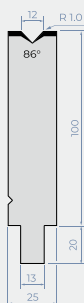
| | | |
|-------|--------|--------|
| 515mm | 8.9 kg | \$ 160 |
| 550mm | 9.7 kg | \$ 200 |



FMWD.100.86°12
1200 kN/m max

86°

| | | |
|-------|--------|--------|
| 515mm | 7.2 kg | \$ 160 |
| 550mm | 8.2 kg | \$ 200 |



FMWD.100.86°16
1200 kN/m max

86°

| | | |
|-------|--------|--------|
| 515mm | 9.0 kg | \$ 160 |
| 550mm | 9.6 kg | \$ 200 |



FMWD.100.86°16
1200 kN/m max

86°

| | | |
|--------|---------|--------|
| 515 mm | 12.5 kg | \$ 160 |
| 550 mm | 13.8 kg | \$ 200 |

FMWD.100.86°20
1150 kN/m max

86°

| | | |
|--------|---------|--------|
| 515 mm | 12.2 kg | \$ 160 |
| 550 mm | 13.5 kg | \$ 200 |

FMWD.100.86°24
1200 kN/m max

86°

| | | |
|--------|---------|--------|
| 515 mm | 14.0 kg | \$ 160 |
| 550 mm | 15.5 kg | \$ 200 |

FMWD.100.86°30
1200 kN/m max

86°

| | | |
|--------|---------|--------|
| 515 mm | 17.6 kg | \$ 160 |
| 550 mm | 19.4 kg | \$ 200 |

FMWD.100.86°40
1200 kN/m max

86°

| | | |
|--------|---------|--------|
| 515 mm | 22.9 kg | \$ 180 |
| 550 mm | 23.5 kg | \$ 220 |

FMWD.100.86°50
1500 kN/m max

86°

| | | |
|--------|---------|--------|
| 515 mm | 31.2 kg | \$ 220 |
| 550 mm | 33.0 kg | \$ 280 |

FMWD.100.84°6
1200 kN/m max

84°

| | | |
|--------|--------|--------|
| 515 mm | 9.0 kg | \$ 160 |
| 550 mm | 9.7 kg | \$ 200 |

FMWD.100.84°8
1150 kN/m max

84°

| | | |
|--------|--------|--------|
| 515 mm | 8.8 kg | \$ 160 |
| 550 mm | 9.7 kg | \$ 200 |

SINGLE-V DIES

FMWD.100.84°.10
1100 kN/m max

84°

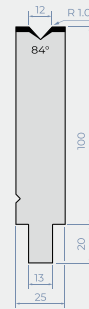
| | | |
|-------|--------|--------|
| 515mm | 9.0 kg | \$ 160 |
| 550mm | 9.6 kg | \$ 200 |



FMWD.100.84°.12
1200 kN/m max

84°

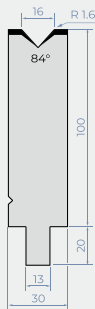
| | | |
|-------|---------|--------|
| 515mm | 10.9 kg | \$ 160 |
| 550mm | 11.7 kg | \$ 200 |



FMWD.100.84°.16
1200 kN/m max

84°

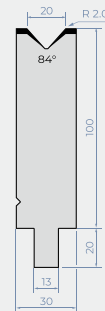
| | | |
|-------|---------|--------|
| 515mm | 12.8 kg | \$ 160 |
| 550mm | 13.8 kg | \$ 200 |



FMWD.100.84°.20
1150 kN/m max

84°

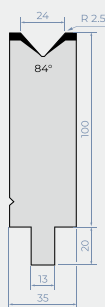
| | | |
|-------|---------|--------|
| 515mm | 12.6 kg | \$ 160 |
| 550mm | 13.4 kg | \$ 200 |



FMWD.100.84°.24
1200 kN/m max

84°

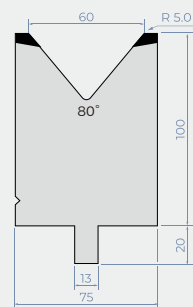
| | | |
|-------|---------|--------|
| 515mm | 14.5 kg | \$ 180 |
| 550mm | 15.4 kg | \$ 220 |



FMWD.100.80°.60
1100 kN/m max

80°

| | | |
|-------|---------|--------|
| 515mm | 26.2 kg | \$ 220 |
| 550mm | 28.4 kg | \$ 280 |



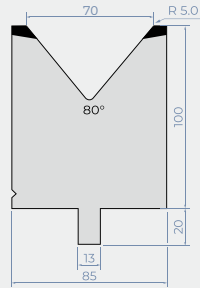
SINGLE-V DIES

FMWD.100.80°.70

1500 kN/m max

80°

| | | |
|-------|--------|--------|
| 515mm | 28.6kg | \$ 260 |
| 550mm | 31.0kg | \$ 280 |

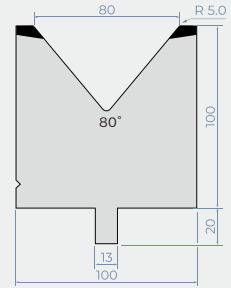


FMWD.100.80°.80

1500 kN/m max

80°

| | | |
|-------|--------|--------|
| 515mm | 32.8kg | \$ 270 |
| 550mm | 35.5kg | \$ 290 |

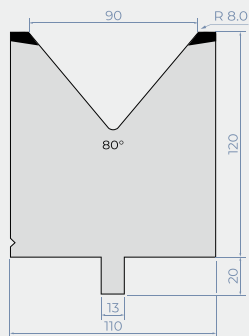


FMWD.120.80°.90

1500 kN/m max

80°

| | | |
|-------|--------|--------|
| 515mm | 42.5kg | \$ 300 |
| 550mm | 46.3kg | \$ 390 |

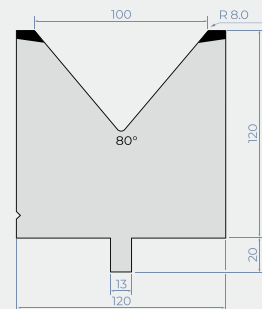


FMWD.120.80°.100

1500 kN/m max

80°

| | | |
|-------|--------|--------|
| 515mm | 45.1kg | \$ 320 |
| 550mm | 49.2kg | \$ 440 |

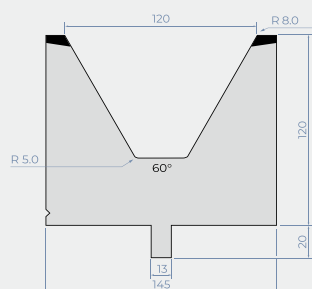


FMWD.120.60°.120

1600 kN/m max

60°

| | | |
|-------|--------|--------|
| 515mm | 45.0kg | \$ 400 |
| 550mm | 49.0kg | \$ 560 |

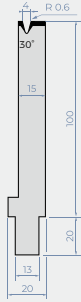


SINGLE-V DIES

FMWD.100.30°.4
150 kN/m max

30°

| | | |
|-------|--------|--------|
| 515mm | 7.0 kg | \$ 160 |
| 550mm | 7.7 kg | \$ 200 |



FMWD.100.30°.6
400 kN/m max

30°

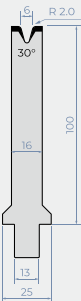
| | | |
|-------|--------|--------|
| 515mm | 8.8 kg | \$ 160 |
| 550mm | 9.6 kg | \$ 200 |



FMWD.100.30°.6
400 kN/m max

30°

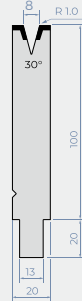
| | | |
|-------|--------|--------|
| 515mm | 7.7 kg | \$ 160 |
| 550mm | 8.2 kg | \$ 200 |



FMWD.100.30°.8
400 kN/m max

30°

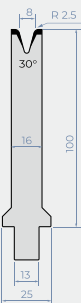
| | | |
|-------|---------|--------|
| 515mm | 12.2kg | \$ 150 |
| 550mm | 13.4 kg | \$ 195 |



FMWD.100.30°.8
400 kN/m max

30°

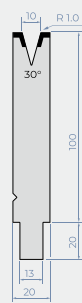
| | | |
|-------|---------|--------|
| 515mm | 14.0kg | \$ 160 |
| 550mm | 15.4 kg | \$ 200 |



FMWD.100.30°.10
400 kN/m max

30°

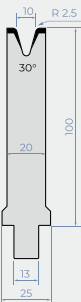
| | | |
|-------|--------|--------|
| 515mm | 8.5 kg | \$ 150 |
| 550mm | 9.4 kg | \$ 195 |



FMWD.100.30°.10
400 kN/m max

30°

| | | |
|-------|--------|--------|
| 515mm | 9.0 kg | \$ 160 |
| 550mm | 9.6 kg | \$ 200 |



FMWD.100.30°.12
400 kN/m max

30°

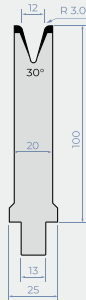
| | | |
|-------|---------|--------|
| 515mm | 10.3kg | \$ 150 |
| 550mm | 11.3 kg | \$ 195 |



FMWD.100.30°.12
400 kN/m max

30°

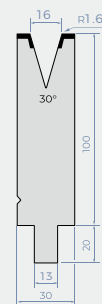
| | | |
|-------|--------|--------|
| 515mm | 8.9 kg | \$ 160 |
| 550mm | 9.5 kg | \$ 200 |



FMWD.100.30°.16
500 kN/m max

30°

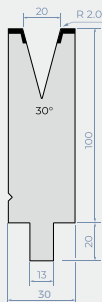
| | | |
|-------|---------|--------|
| 515mm | 12.0kg | \$ 160 |
| 550mm | 13.0 kg | \$ 200 |



FMWD.100.30°.20
600 kN/m max

30°

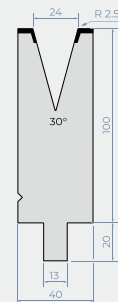
| | | |
|-------|--------|--------|
| 515mm | 13.2kg | \$ 160 |
| 550mm | 15.0kg | \$ 200 |



FMWD.100.30°.24
650 kN/m max

30°

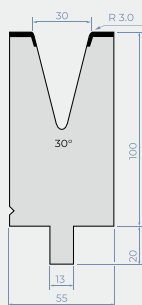
| | | |
|-------|---------|--------|
| 515mm | 15.0kg | \$ 150 |
| 550mm | 16.0 kg | \$ 195 |



FMWD.100.30°.30
900 kN/m max

30°

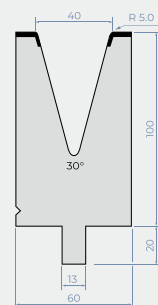
| | | |
|-------|-------|--------|
| 515mm | 19 kg | \$ 200 |
| 550mm | 21 kg | \$ 260 |



FMWD.100.30°.40
900 kN/m max

30°

| | | |
|-------|---------|--------|
| 515mm | 18.3kg | \$ 250 |
| 550mm | 20.0 kg | \$ 325 |

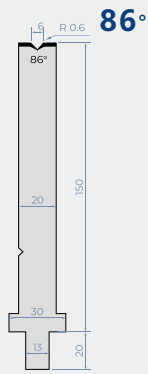


SINGLE-V DIES

FMWD.150.86°.6

400 kN/m max

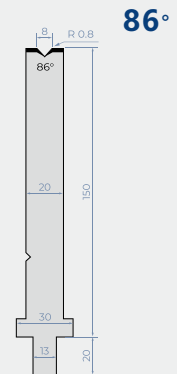
| | | |
|--------|--------|--------|
| 515 mm | 13.0kg | \$ 180 |
| 550 mm | 14.0kg | \$ 240 |



FMWD.150.86°.8

400 kN/m max

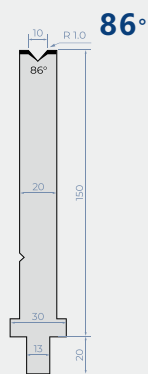
| | | |
|--------|---------|--------|
| 515 mm | 13.0kg | \$ 180 |
| 550 mm | 14.0 kg | \$ 240 |



FMWD.150.86°.10

500 kN/m max

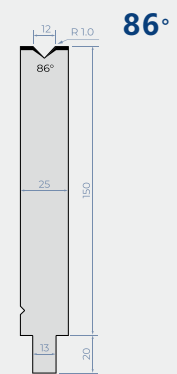
| | | |
|--------|--------|--------|
| 515 mm | 13.0kg | \$ 180 |
| 550 mm | 14.0kg | \$ 240 |



FMWD.150.86°.12

500 kN/m max

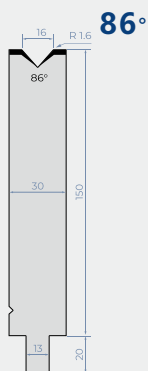
| | | |
|--------|---------|--------|
| 515 mm | 15.0kg | \$ 180 |
| 550 mm | 17.0 kg | \$ 240 |



FMWD.150.86°.16

700 kN/m max

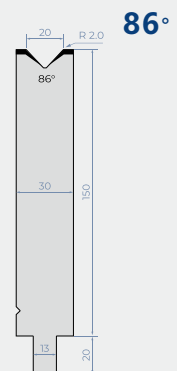
| | | |
|--------|--------|--------|
| 515 mm | 18.4kg | \$ 180 |
| 550 mm | 20.0kg | \$ 240 |



FMWD.150.86°.20

700 kN/m max

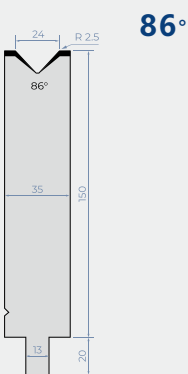
| | | |
|--------|---------|--------|
| 515 mm | 18.0kg | \$ 180 |
| 550 mm | 20.0 kg | \$ 240 |



FMWD.150.86°.24

700 kN/m max

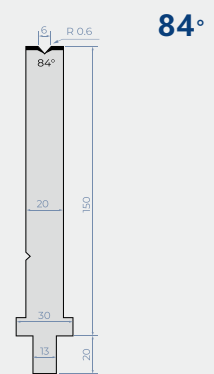
| | | |
|--------|--------|--------|
| 515 mm | 20.0kg | \$ 180 |
| 550 mm | 23.0kg | \$ 240 |



FMWD.150.84°.6

400 kN/m max

| | | |
|--------|---------|--------|
| 515 mm | 13.0kg | \$ 180 |
| 550 mm | 14.0 kg | \$ 240 |



FMWD.150.84°.8
400 kN/m max

| | | |
|--------|---------|--------|
| 515 mm | 13.0 kg | \$ 180 |
| 550 mm | 14.0 kg | \$ 240 |

FMWD.150.84°.10
500 kN/m max

| | | |
|--------|---------|--------|
| 515 mm | 13.0 kg | \$ 180 |
| 550 mm | 14.0 kg | \$ 240 |

FMWD.150.84°.12
500 kN/m max

| | | |
|--------|---------|--------|
| 515 mm | 15.5 kg | \$ 180 |
| 550 mm | 17.0 kg | \$ 240 |

FMWD.150.84°.16
700 kN/m max

| | | |
|--------|---------|--------|
| 515 mm | 18.4 kg | \$ 180 |
| 550 mm | 20.2 kg | \$ 240 |

FMWD.150.84°.20
700 kN/m max

| | | |
|--------|---------|--------|
| 515 mm | 18.3 kg | \$ 180 |
| 550 mm | 20.0 kg | \$ 240 |

FMWD.150.84°.24
700 kN/m max

| | | |
|--------|---------|--------|
| 515 mm | 21.0 kg | \$ 180 |
| 550 mm | 23.0 kg | \$ 240 |

FMWD.150.80°.24
700 kN/m max

| | | |
|--------|---------|--------|
| 515 mm | 21.0 kg | \$ 180 |
| 550 mm | 23.0 kg | \$ 240 |

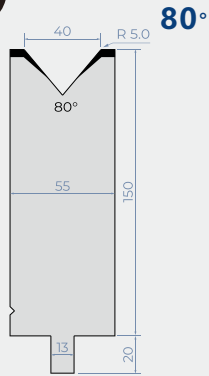
FMWD.150.80°.30
900 kN/m max

| | | |
|--------|---------|--------|
| 515 mm | 26.3 kg | \$ 180 |
| 550 mm | 29.0 kg | \$ 240 |

SINGLE-V DIES

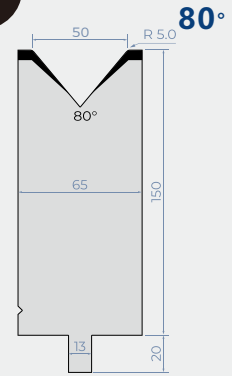
FMWD.150.80°.40
1200 kN/m max

| | | |
|--------|---------|--------|
| 515 mm | 31.3 kg | \$ 220 |
| 550 mm | 34.5 kg | \$ 290 |



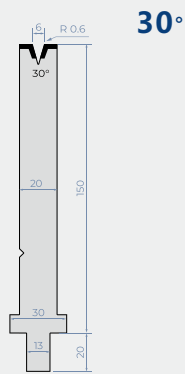
FMWD.150.80°.50
1500 kN/m max

| | | |
|--------|---------|--------|
| 515 mm | 36.0 kg | \$ 250 |
| 550 mm | 40.0 kg | \$ 360 |



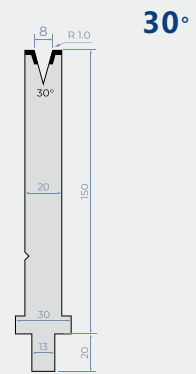
FMWD.150.30°.6
400 kN/m max

| | | |
|--------|---------|--------|
| 515 mm | 13.0 kg | \$ 180 |
| 550 mm | 14.0 kg | \$ 240 |



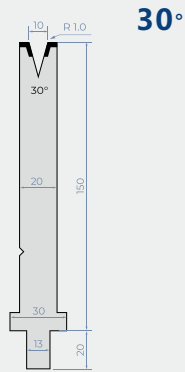
FMWD.150.30°.8
400 kN/m max

| | | |
|--------|---------|--------|
| 515 mm | 13.0 kg | \$ 180 |
| 550 mm | 14.0 kg | \$ 240 |



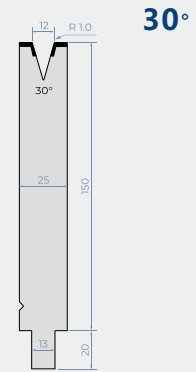
FMWD.150.30°.10
400 kN/m max

| | | |
|--------|---------|--------|
| 515 mm | 17.7 kg | \$ 180 |
| 550 mm | 19.5 kg | \$ 240 |



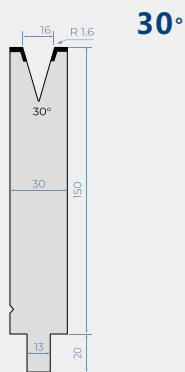
FMWD.150.30°.12
400 kN/m max

| | | |
|--------|---------|--------|
| 515 mm | 15.2 kg | \$ 180 |
| 550 mm | 16.7 kg | \$ 240 |



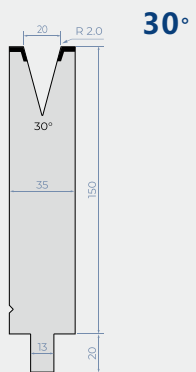
FMWD.150.30°.16
500 kN/m max

| | | |
|--------|---------|--------|
| 515 mm | 17.7 kg | \$ 180 |
| 550 mm | 19.5 kg | \$ 240 |



FMWD.150.30°.20
600 kN/m max

| | | |
|--------|---------|--------|
| 515 mm | 20.1 kg | \$ 180 |
| 550 mm | 22.0 kg | \$ 240 |



SINGLE-V DIES

FMWD.150.30°.24
400 kN/m max

| | | |
|--------|---------|--------|
| 515 mm | 22.3 kg | \$ 180 |
| 550 mm | 24.5 kg | \$ 240 |

FMWD.150.30°.30
500 kN/m max

| | | |
|--------|---------|--------|
| 515 mm | 30.0 kg | \$ 250 |
| 550 mm | 33.0 kg | \$ 330 |

FMWD.150.30°.40
500 kN/m max

| | | |
|--------|---------|--------|
| 515 mm | 30.0 kg | \$ 270 |
| 550 mm | 33.0 kg | \$ 350 |



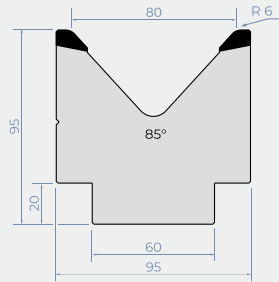
SINGLE-V DIES

FMS.75.85°.80

700 kN/m max

85°

| | | |
|-------|--------|--------|
| 835mm | 42.6kg | \$ 345 |
| 415mm | 21.2kg | \$ 195 |
| 805mm | 42.6kg | \$ 515 |

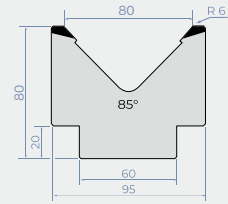


FMS.60.85°.80

700 kN/m max

85°

| | | |
|-------|--------|--------|
| 835mm | 33.5kg | \$ 355 |
| 415mm | 16.6kg | \$ 265 |
| 805mm | 32.2kg | \$ 530 |

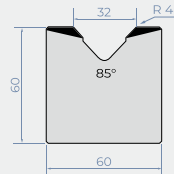


FMS.60.85°.32

1000 kN/m max

85°

| | | |
|-------|--------|--------|
| 835mm | 21.6kg | \$ 145 |
| 415mm | 10.7kg | \$ 95 |
| 805mm | 20.8kg | \$ 275 |

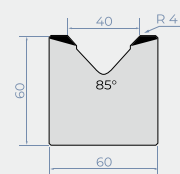


FMS.60.85°.40

1000 kN/m max

85°

| | | |
|-------|--------|--------|
| 835mm | 20.0kg | \$ 145 |
| 415mm | 10.5kg | \$ 95 |
| 805mm | 19.0kg | \$ 275 |

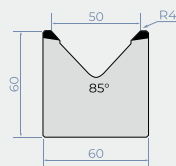


FMS.60.85°.50

1000 kN/m max

85°

| | | |
|-------|--------|--------|
| 835mm | 19.0kg | \$ 145 |
| 415mm | 9.5 kg | \$ 95 |
| 805mm | 19.0kg | \$ 275 |

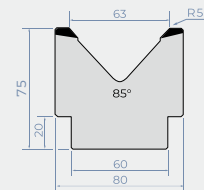


FMS.55.85°.63

1000 kN/m max

85°

| | | |
|-------|--------|--------|
| 835mm | 29.2kg | \$ 280 |
| 415mm | 14.5kg | \$ 160 |
| 805mm | 28.0kg | \$ 455 |

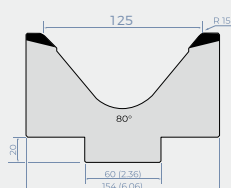


FMS.83.80°.125A

1000 kN/m max

80°

| | | |
|-------|--------|--------|
| 835mm | 62.0kg | \$ 635 |
| 415mm | 31.0kg | \$ 375 |
| 805mm | 59.8kg | \$ 985 |

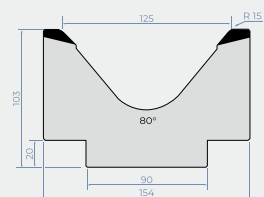


FMS.83.80°.125B

1000 kN/m max

80°

| | | |
|-------|--------|--------|
| 835mm | 64.9kg | \$ 680 |
| 415mm | 32.2kg | \$ 320 |
| 805mm | 62.5kg | \$ 865 |



FMS.110.80°.160A
1200 kN/m max

80°

| | | |
|-------|--------|---------|
| 835mm | 93.0kg | \$ 830 |
| 415mm | 46.5kg | \$ 450 |
| 805mm | 89.7kg | \$ 1300 |

FMS.110.80°.160B
1500 kN/m max

80°

| | | |
|-------|--------|---------|
| 835mm | 97.0kg | \$ 775 |
| 415mm | 47.4kg | \$ 425 |
| 805mm | 89.7kg | \$ 1130 |

FMS.170.70°.200
700 kN/m max

70°

| | | |
|-------|----------|---------|
| 415mm | 104.0 kg | \$ 1535 |
|-------|----------|---------|

FMS.66.60°.63
1150 kN/m max

60°

| | | |
|-------|--------|--------|
| 835mm | 33.3kg | \$ 525 |
| 415mm | 17.0kg | \$ 300 |
| 805mm | 34.0kg | \$ 775 |

FMS.90.60°.80
700 kN/m max

60°

| | | |
|-------|--------|---------|
| 835mm | 53.0kg | \$ 750 |
| 415mm | 26.5kg | \$ 440 |
| 805mm | 51.1kg | \$ 1100 |

FMS.84.45°.32
700 kN/m max

45°

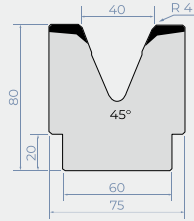
| | | |
|-------|--------|--------|
| 835mm | 27.5kg | \$ 240 |
| 415mm | 13.7kg | \$ 140 |
| 805mm | 27.5kg | \$ 400 |

SINGLE-V DIES

FMS.60.45°.40
700 kN/m max

45°

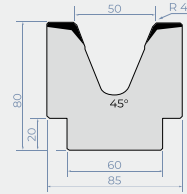
| | | |
|-------|--------|--------|
| 835mm | 30.9kg | \$ 350 |
| 415mm | 16.5kg | \$ 200 |
| 805mm | 30.7kg | \$ 560 |



FMS.60.45°.50
900 kN/m max

45°

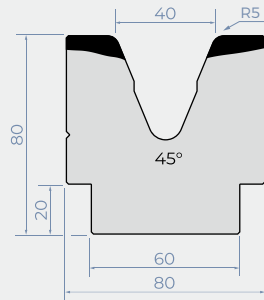
| | | |
|-------|---------|--------|
| 835mm | 31.0kg | \$ 475 |
| 415mm | 15.5kg | \$ 270 |
| 805mm | 31.0 kg | \$ 630 |



FMS.60.45°.40
700 kN/m max

45°

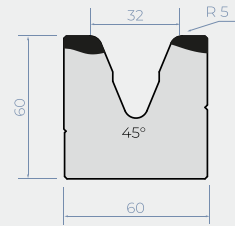
| | | |
|-------|--------|--------|
| 835mm | 32.7kg | \$ 340 |
| 415mm | 16.2kg | \$ 195 |
| 805mm | 31.5kg | \$ 540 |



FMS.60.45°.32
400 kN/m max

45°

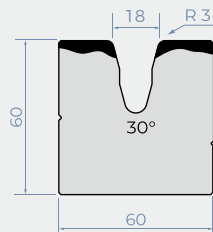
| | | |
|-------|---------|--------|
| 835mm | 19.2kg | \$ 160 |
| 415mm | 9.6 kg | \$ 85 |
| 805mm | 19.2 kg | \$ 295 |



FMS.60.30°.18
800 kN/m max

30°

| | | |
|-------|--------|--------|
| 835mm | 21.5kg | \$ 145 |
| 415mm | 10.7kg | \$ 80 |
| 805mm | 21.5kg | \$ 230 |





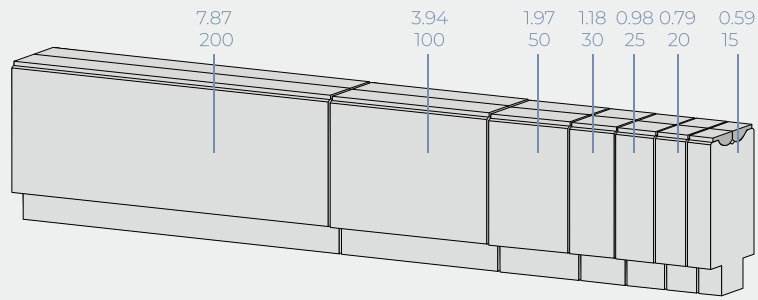
Rolla-V provides the definitive answer if you need to:

- Bend stainless steel, aluminium (or any aesthetic materials) with little or no marking
- Bend small flanges
- Bend near to a hole or slot without distortion
- Avoid tool contamination
- Prevent secondary expensive and unnecessary rework

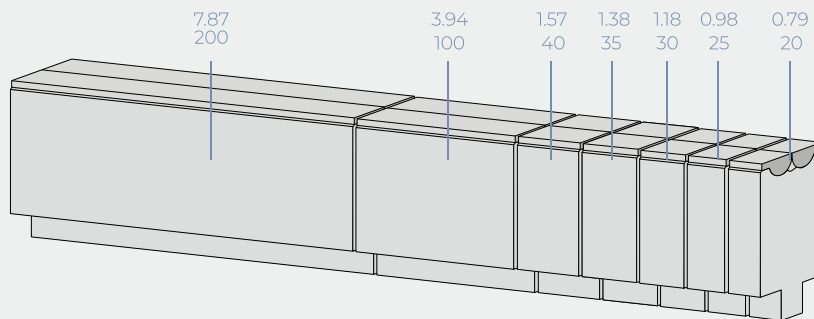
Application and Technical Data

| | | | | A | B | C |
|------------------------------------|-----------------------------|-------------------------|------------------------------|----------------------|----------------------------|--------------------|
| | maximum load capacity (t/m) | material thickness (mm) | minimum bend angle (degrees) | tonnage required (t) | minimum outside flange(mm) | max outside radius |
| Model 1 | | | | | | |
| fixed style | 100 | 0.7 | 40.0 | 5.0 | 3.0 | 3.0 |
| Max recommended thickness 1.5 mm | 100 | 1.1 | 35.0 | 13.0 | 3.9 | 2.6 |
| (2.0 mm thickness may be possible) | 100 | 1.5 | 35.0 | 27.0 | 4.2 | 2.2 |
| Model 2 | | | | | | |
| fixed style | 150 | 2.0 | 59.0 | 21.0 | 8.5 | 6.0 |
| Max recommended thickness 3.0 mm | 150 | 3.0 | 47.0 | 55.0 | 9.3 | 5.0 |
| (4.0 mm thickness may be possible) | 150 | 3.2 | 47.0 | 65.0 | 9.3 | 4.8 |
| Model 2.5 | | | | | | |
| fixed style | 250 | 2.0 | 46.0 | 10.0 | 18.6 | 13.2 |
| Max recommended thickness 6.3 mm | 250 | 4.0 | 46.0 | 47.0 | 18.6 | 12.0 |
| | 250 | 6.0 | 55.0 | 127.0 | 18.6 | 9.8 |
| Model 3 | | | | | | |
| fixed style | 250 | 2.0 | 68.0 | 7.0 | 22.5 | 13.9 |
| Max recommended thickness 6.3 mm | 250 | 4.0 | 47.0 | 34.0 | 22.5 | 11.9 |
| (8.0 mm thickness may be possible) | 250 | 6.0 | 50.0 | 90.0 | 22.5 | 9.9 |
| Model 4 | | | | | | |
| fixed style | 300 | 6.0 | 78.0 | 26.0 | 56.6 | 36.4 |
| Max recommended thickness 16.0 mm | 300 | 8.0 | 76.0 | 50.0 | 56.6 | 36.4 |
| | 300 | 12.0 | 73.0 | 129.0 | 56.6 | 36.4 |

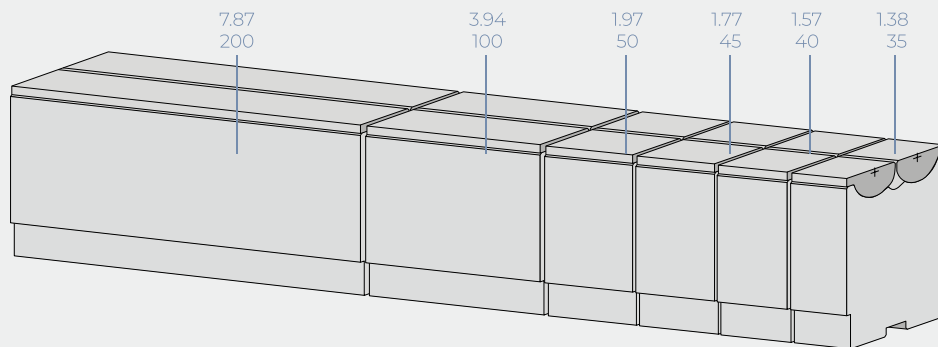
Model 1:440mm(17.32in)-7 segments



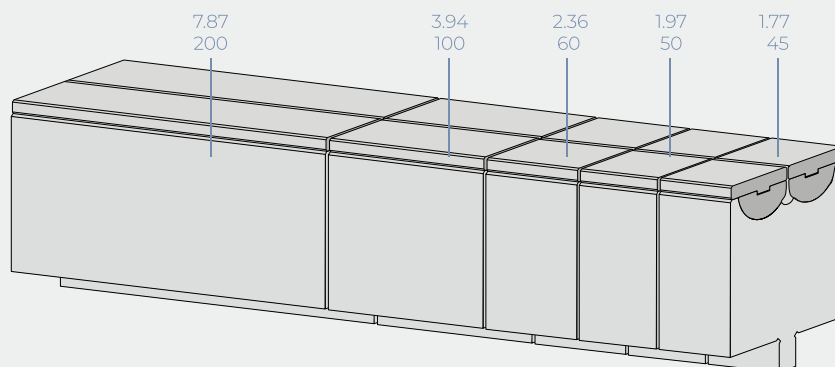
Model 2:450mm(17.72 in)-7 segments



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



Model 3:455mm(17.9 in)-5 segments

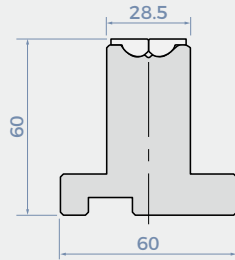


ROLLA-V TOOLS

FMRV.P60.1

1000kN/m max.

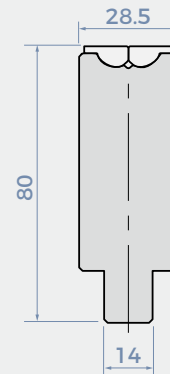
| | | |
|-------|--------|---------|
| 500mm | 6.9 kg | \$ 750 |
| 550mm | 8.0 kg | \$ 1050 |



FMRV.S80.1

1000kN/m max.

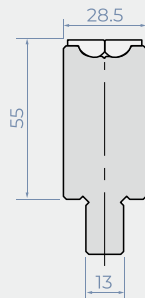
| | | |
|-------|--------|---------|
| 500mm | 6.3 kg | \$ 750 |
| 550mm | 6.9 kg | \$ 1050 |



FMRV.T55.1

1000kN/m max.

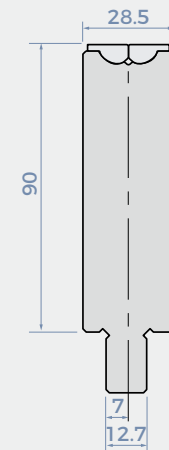
| | | |
|-------|--------|---------|
| 500mm | 5.5 kg | \$ 750 |
| 550mm | 6.5 kg | \$ 1050 |



FMRV.T90.1

1000kN/m max.

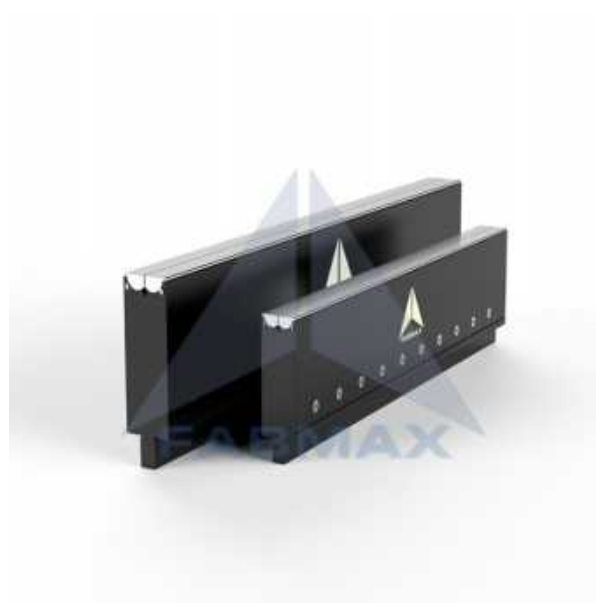
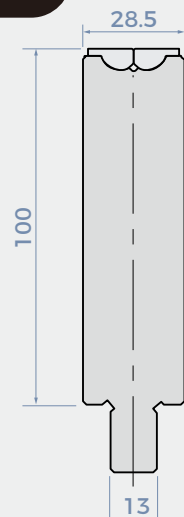
| | | |
|-------|---------|---------|
| 500mm | 9.4 kg | \$ 750 |
| 550mm | 10.5 kg | \$ 1050 |



FMRV.T100.1

1000kN/m max.

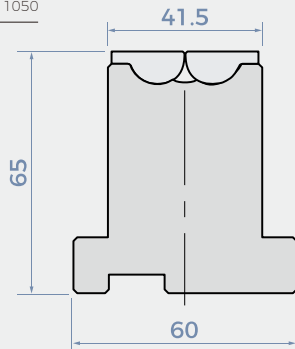
| | | |
|-------|---------|---------|
| 500mm | 9.4 kg | \$ 750 |
| 550mm | 10.5 kg | \$ 1050 |



FMRV.P65.2

1500kN/m max.

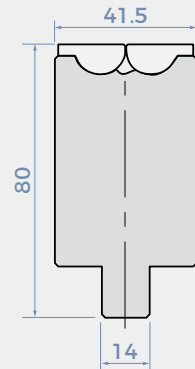
| | | |
|-------|--------|---------|
| 500mm | 7.9 kg | \$ 750 |
| 550mm | 9.0 kg | \$ 1050 |



FMRV.S80.2

1500kN/m max.

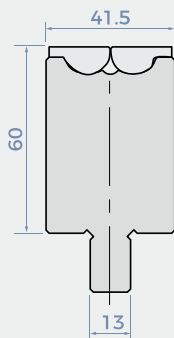
| | | |
|-------|--------|---------|
| 500mm | 8.3 kg | \$ 750 |
| 550mm | 9.3 kg | \$ 1050 |



FMRV.T60.2

1500kN/m max.

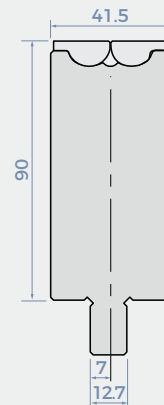
| | | |
|-------|--------|---------|
| 500mm | 7.9 kg | \$ 750 |
| 550mm | 9.0 kg | \$ 1050 |



FMRV.T90.2

1500kN/m max.

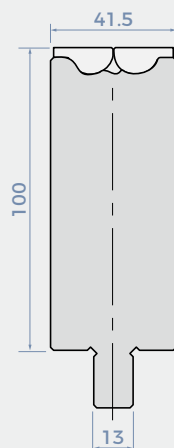
| | | |
|-------|---------|---------|
| 500mm | 11.3 kg | \$ 750 |
| 550mm | 12.5 kg | \$ 1050 |



FMRV.T100.2

1500kN/m max.

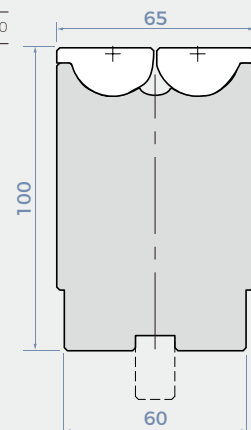
| | | |
|-------|---------|---------|
| 500mm | 12.4 kg | \$ 750 |
| 550mm | 14.0 kg | \$ 1050 |



FMRV.M2.5

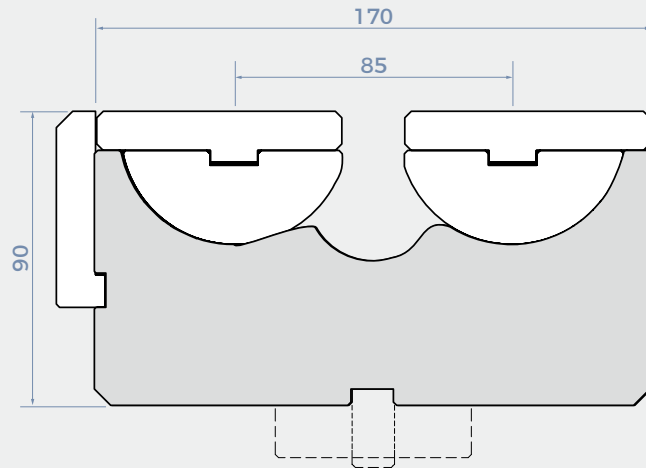
2000kN/m max.

| | | |
|-------|---------|---------|
| 500mm | 22.0 kg | \$ 800 |
| 550mm | 24.5 kg | \$ 1200 |



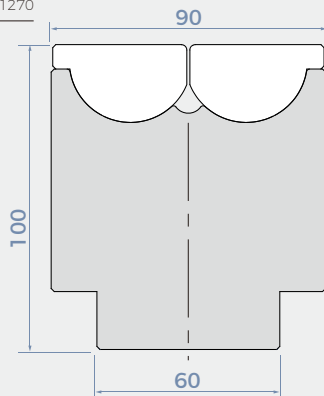
FMRV.M90.4
3000kN/m max.

| | | |
|--------|---------|---------|
| 500 mm | 56.6 kg | \$ 1200 |
|--------|---------|---------|



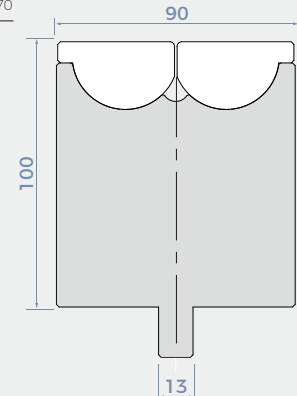
FMRV.P100.3
2500kN/m max.

| | | |
|--------|---------|---------|
| 500 mm | 28.8 kg | \$ 850 |
| 550 mm | 32.0 kg | \$ 1270 |



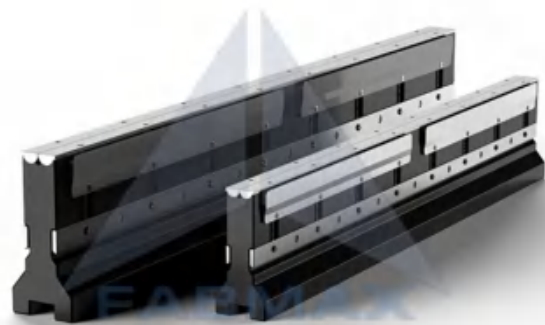
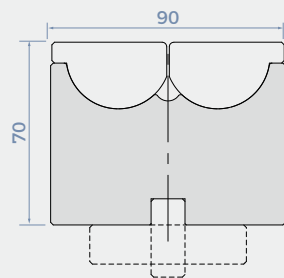
FMRV.T100.3
2500kN/m max.

| | | |
|--------|---------|---------|
| 500 mm | 30.9 kg | \$ 850 |
| 550 mm | 34.0 kg | \$ 1270 |



FMRV.M70.3
2500kN/m max.

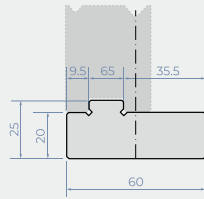
| | | |
|--------|---------|---------|
| 500 mm | 28.8 kg | \$ 850 |
| 550 mm | 32.0 kg | \$ 1270 |



Rail.25.60

1000kN/m max.

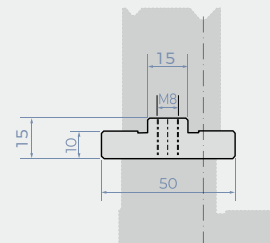
| | | |
|-------|--------|-------|
| 835mm | 7.5 kg | \$ 70 |
| 415mm | 3.7 kg | \$ 55 |



Rail.15.50

1000kN/m max.

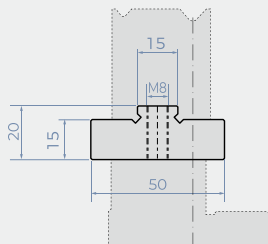
| | | |
|-------|--------|-------|
| 835mm | 4.0 kg | \$ 70 |
| 415mm | 3.7 kg | \$ 55 |



Rail.20.50

1000kN/m max.

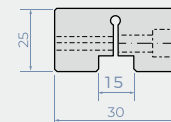
| | | |
|-------|--------|-------|
| 835mm | 5.4 kg | \$ 70 |
| 415mm | 2.0 kg | \$ 55 |



Rail.25.30

1000kN/m max.

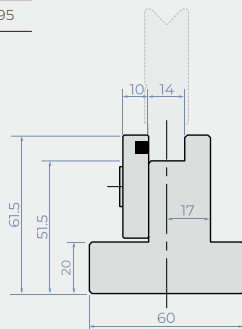
| | | |
|-------|--------|-------|
| 835mm | 0.4 kg | \$ 85 |
| 415mm | 0.2 kg | \$ 55 |



Rail.62.60

1000kN/m max.

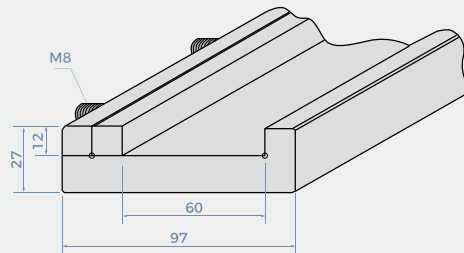
| | | |
|-------|---------|--------|
| 835mm | 16.0 kg | \$ 150 |
| 415mm | 7.3 kg | \$ 95 |



Holder.01

1000kN/m max.

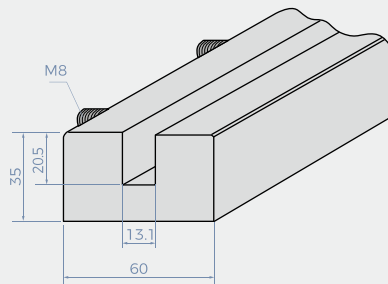
| | | | |
|----------|--------|--------|--------|
| C 2000/s | 2100mm | 27.0kg | \$ 480 |
| C 2500/s | 2600mm | 34.0kg | \$ 595 |
| C 3000/s | 3100mm | 40.0kg | \$ 710 |
| C 4000/s | 4100mm | 53.0kg | \$ 900 |



Holder.02

1000kN/m max.

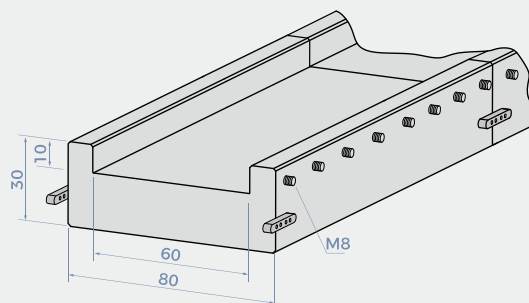
| | | | |
|-----------|--------|--------|--------|
| TC 2000/s | 2100mm | 30.0kg | \$ 505 |
| TC 2500/s | 2600mm | 37.0kg | \$ 625 |
| TC 3000/s | 3100mm | 44.0kg | \$ 710 |
| TC 4000/s | 4100mm | 59.0kg | \$ 990 |



Holder.03

1000kN/m max.

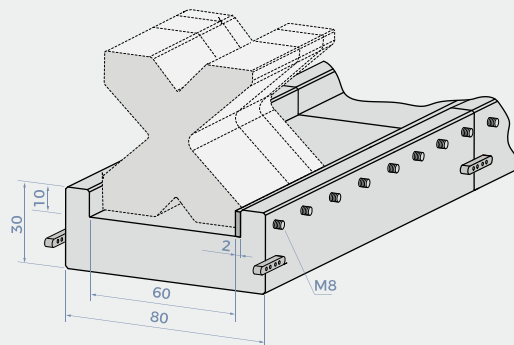
| | | | |
|------------|--------|--------|--------|
| C 1050/R | 1050mm | 15.0kg | \$ 165 |
| C 1050/R/C | 520mm | 7.5kg | \$ 95 |



Holder.04

1000kN/m max.

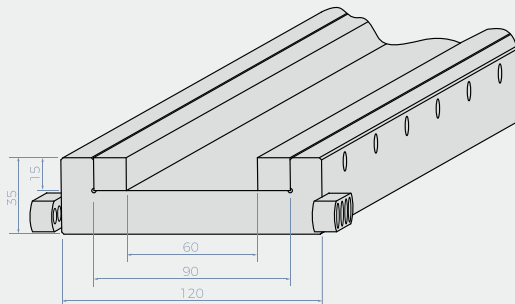
| | | | |
|-------------|--------|--------|--------|
| C 1050/RS | 1050mm | 15.0kg | \$ 215 |
| C 1050/RS/C | 520mm | 7.5kg | \$ 125 |



Holder.05

1000kN/m max.

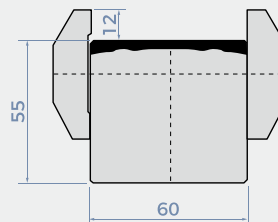
| | | | |
|-------------|--------|--------|--------|
| C 1050-90 | 1050mm | 27.2kg | \$ 270 |
| C 1050-90-C | 520mm | 13.5kg | \$ 165 |



Holder.06

1000kN/m max.

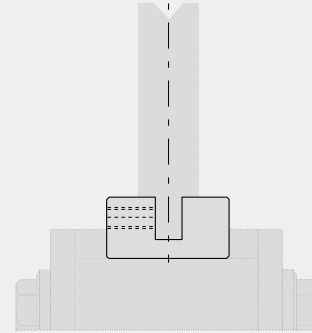
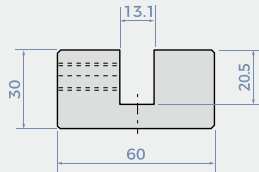
| | | |
|-------|--------|--------|
| 835mm | 29.0kg | \$ 200 |
| 415mm | 14.5kg | \$ 120 |



Holder.07

1000kN/m max.

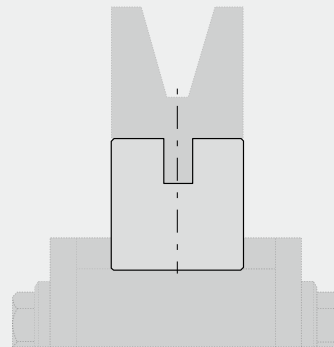
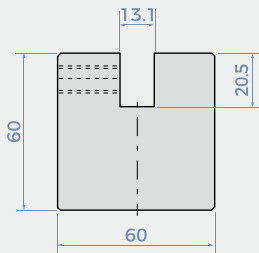
| | | |
|--------|---------|--------|
| 1000mm | 12.0 kg | \$ 190 |
| 500mm | 6.0 kg | \$ 95 |



Holder.08

1000kN/m max.

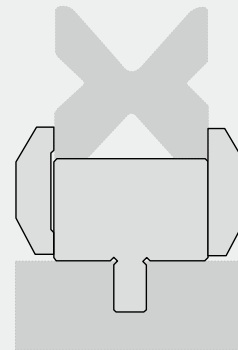
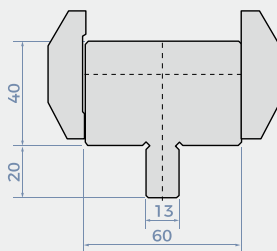
| | | |
|--------|---------|--------|
| 1000mm | 26.1 kg | \$ 210 |
| 500mm | 13.0 kg | \$ 115 |



Holder.09

1000kN/m max.

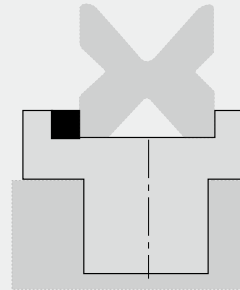
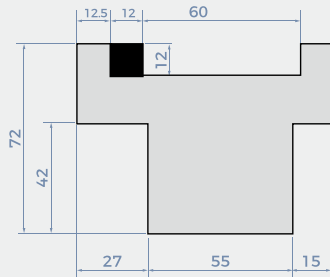
| | | |
|-------|---------|--------|
| 825mm | 17.0 kg | \$ 235 |
| 415mm | 8.5 kg | \$ 140 |



Holder.10

1000kN/m max.

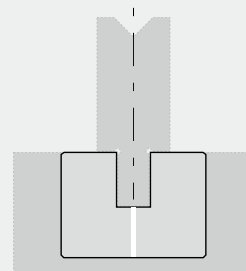
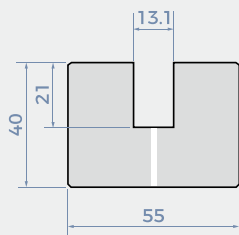
| | | |
|--------|---------|--------|
| 525 mm | 30.0 kg | \$ 470 |
| 495 mm | 14.2 kg | \$ 260 |



Holder.11

1000kN/m max.

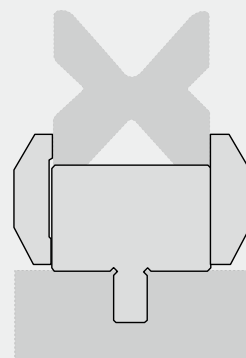
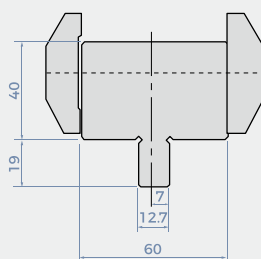
| | | |
|--------|--------|--------|
| 500 mm | 7.5 kg | \$ 100 |
|--------|--------|--------|



Holder.12

1000kN/m max.

| | | |
|--------|---------|--------|
| 835 mm | 17.0 kg | \$ 205 |
| 415 mm | 8.5 kg | \$ 125 |



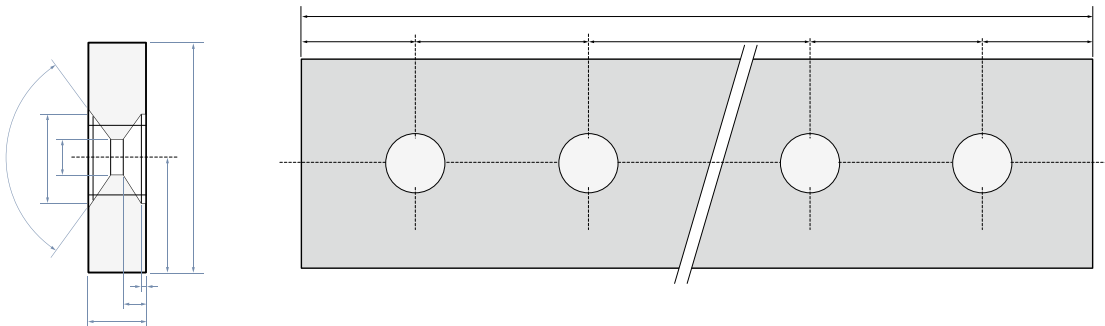


Fabmax has been producing shear blades for more than 20 years, using high quality steel to guarantee reliability and wearresistance.

Each product is studied on customer's needs: material to cut, holes and hardening upon your request. Blades with 1, 2 or 4 cutting edges with threaded holes or dimpled holes.

| Available sizes mm (in) | | | | | | | | | |
|-------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| 50(1.97) | 50(2.17) | 60(2.36) | 65(2.56) | 70(2.76) | 75(2.95) | 80(3.15) | 85(3.35) | 90(3.54) | 100(3.94) |
| 50x10(1.97x0.39) | | | | | | | | | |
| 50x11(1.97x0.43) | | | | | | | | | |
| 50x12(1.97x0.47) | 55x12(2.17x0.47) | 60x12(2.36x0.51) | | | | | | | |
| 50x13(1.97x0.51) | 55x13(2.17x0.51) | 60x13(2.36x0.51) | 65x13(2.56x0.51) | 70x13(2.76x0.51) | | | | | |
| 50x14(1.97x0.55) | 55x14(2.17x0.55) | 60x14(2.36x0.55) | 65x14(2.56x0.55) | 70x14(2.76x0.55) | | | | | |
| 50x15(1.97x0.59) | 55x15(2.17x0.59) | 60x15(2.36x0.59) | 65x15(2.56x0.59) | 70x15(2.76x0.59) | 75x15(2.95x0.59) | | | | |
| | 55x16(2.17x0.63) | 60x16(2.36x0.63) | 65x16(2.56x0.63) | 70x16(2.76x0.63) | 75x16(2.95x0.63) | | | | |
| | 55x17(2.17x0.67) | 60x17(2.36x0.67) | 65x17(2.56x0.67) | 70x17(2.76x0.67) | 75x17(2.95x0.67) | | | | |
| | 55x18(2.17x0.71) | 60x18(2.36x0.71) | 65x18(2.56x0.71) | 70x18(2.76x0.71) | 75x18(2.95x0.71) | 80x18(3.15x0.71) | 85x18(3.35x0.71) | | |
| | 55x19(2.17x0.75) | 60x19(2.36x0.75) | 65x19(2.56x0.75) | 70x19(2.76x0.75) | 75x19(2.95x0.75) | 80x19(3.15x0.75) | 85x19(3.35x0.75) | | |
| | 55x20(2.17x0.79) | 60x20(2.36x0.79) | 65x20(2.56x0.79) | 70x20(2.76x0.79) | 75x20(2.95x0.79) | 80x20(3.15x0.79) | 85x20(3.35x0.79) | 90x20(3.54x0.79) | 100x20(3.94x0.79) |
| | | | | | 75x21(2.95x0.83) | 80x21(3.15x0.83) | 85x21(3.35x0.83) | 90x21(3.54x0.83) | |
| | | | | | 75x22(2.95x0.87) | 80x22(3.15x0.87) | 85x22(3.35x0.87) | 90x22(3.54x0.87) | 100x22(3.94x0.87) |
| | | | | | 75x23(2.95x0.91) | 80x23(3.15x0.91) | 85x23(3.35x0.91) | 90x23(3.54x0.91) | |
| | | | | | 75x24(2.95x0.94) | 80x24(3.15x0.94) | 85x24(3.35x0.94) | 90x24(3.54x0.94) | |
| | | | | | 75x25(2.95x0.98) | 80x25(3.15x0.98) | 85x25(3.35x0.98) | 90x25(3.54x0.98) | 100x25(3.94x0.98) |
| | | | | | | | | | 100x26(3.94x1.02) |
| | | | | | | | | | 100x27(3.94x1.06) |
| | | | | | | | | | 100x28(3.94x1.10) |
| | | | | | | | | | 100x29(3.94x1.14) |
| | | | | | | | | | 100x30(3.94x1.18) |

SHEARING BLADES



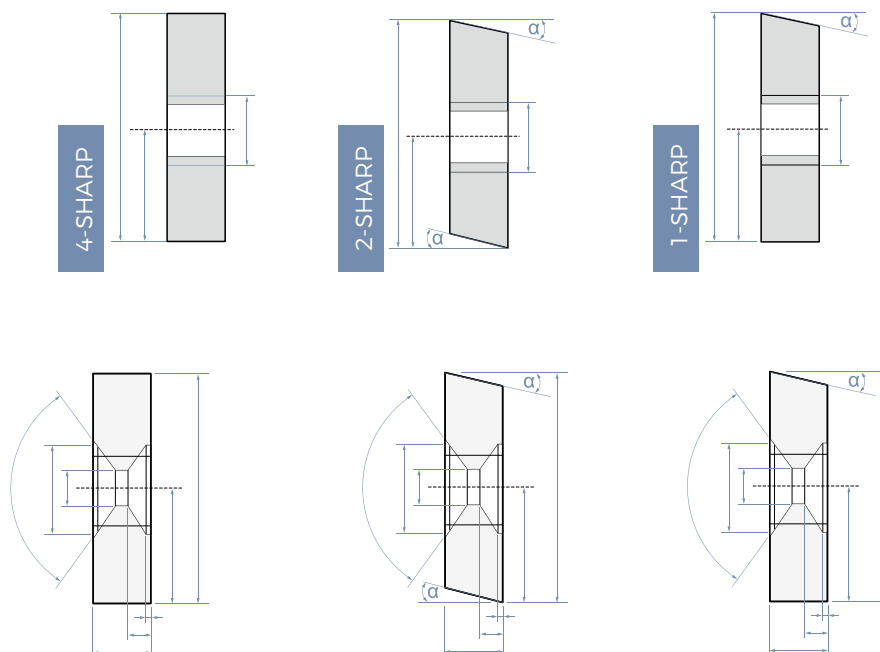
| Standard tolerances | | | |
|---------------------|--------------------|--------------------|---------------------|
| Hardeness | Height | Width | Parallelism |
| $\pm 1\text{HRc}$ | $\pm 0.5\text{mm}$ | $\pm 0.2\text{mm}$ | $\pm 0.03\text{mm}$ |

| Kind of material/frequency | | |
|----------------------------|-------|---|
| Aluminium | about | % |
| Steel | about | % |
| Stainless steel | about | % |
| Other materials | about | % |

| Kind of material/frequency | | | |
|----------------------------|----|-------|---|
| Min.mat.thickness | mm | about | % |
| Average mat.thickness | mm | about | % |
| max.mat.thickness | mm | about | % |

| Kind of material/frequency | | | | |
|----------------------------|--|-----|--|----|
| By the hour | | yes | | no |
| One-shift operation | | yes | | no |
| Multi-shift operation | | yes | | no |

| Quantity | |
|-------------|--------|
| Upper-blade | Pieces |
| Lower-blade | Pieces |



SHEARING BLADES

CS.7181

1000 kN/m max

| | | |
|-------|--------|--------|
| 150mm | 5.5 kg | \$ 120 |
|-------|--------|--------|



CS.7182

1000 kN/m max

| | | |
|-------|--------|--------|
| 150mm | 5.5 kg | \$ 110 |
|-------|--------|--------|



CS.7183

1000 kN/m max

| | | |
|-------|--------|--------|
| 150mm | 7.7 kg | \$ 250 |
|-------|--------|--------|



CS.7184

1000 kN/m max

| | | |
|-------|--------|--------|
| 150mm | 5.5 kg | \$ 220 |
|-------|--------|--------|



CS.7185

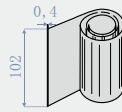
1000 kN/m max

| | | |
|-------|--------|--------|
| 150mm | 7.7 kg | \$ 150 |
|-------|--------|--------|



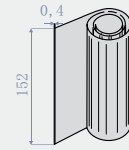
FMPF.04.102

| | | |
|------|--------|--------|
| 30 m | 1.8 kg | \$ 120 |
|------|--------|--------|



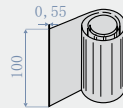
FMPF.04.152

| | | |
|------|--------|--------|
| 30 m | 2.4 kg | \$ 120 |
|------|--------|--------|



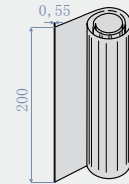
FMPF.055.100

| | | |
|------|--------|--------|
| 30 m | 1.5 kg | \$ 120 |
|------|--------|--------|



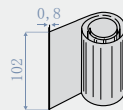
FMPF.055.200

| | | |
|------|--------|--------|
| 30 m | 3.0 kg | \$ 150 |
|------|--------|--------|



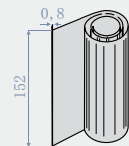
FMPF.08.102

| | | |
|------|--------|--------|
| 30 m | 3.3 kg | \$ 120 |
|------|--------|--------|



FMPF.08.152

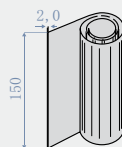
| | | |
|------|--------|--------|
| 30 m | 5.4 kg | \$ 150 |
|------|--------|--------|



FMPF.2.150

1200 kN/m max²

| | | |
|------|--------|--------|
| 25 m | 10.0kg | \$ 150 |
|------|--------|--------|





FABMAX CNC Crowning:

The FABMAX Adaptive CNC Crowning system enables the user to offset deformations of the beam while bending, thus, the angle is keeping constant along the entire plate length.

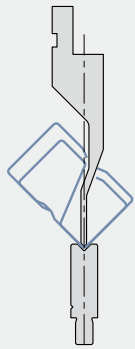
Advantage:

Easy reversibility of tools because of symmetrical adaption
Hand crank with digital readout or CNC electric drive connected direct to the machine
Hardened to 28 -32 HRC which makes it substantially tougher than the competition
Micro crowning every 200mm
T&Y adjustable 0-0.76mm(0-0.030")

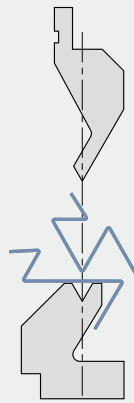
| | |
|--------------|--------|
| 2080×90×95mm | \$1900 |
| 2500×90×95mm | \$2300 |
| 3100×90×95mm | \$2600 |
| 4130×90×95mm | \$2800 |



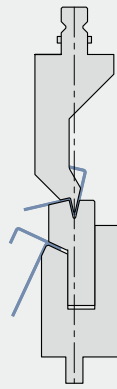
CROWNING SYSTEMS



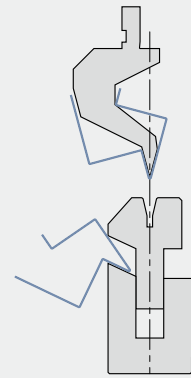
1. Punch/top-tool and die for special profile



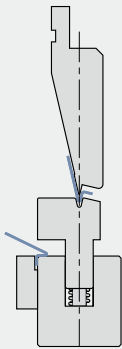
2. Punch/top-tool and die for special profile



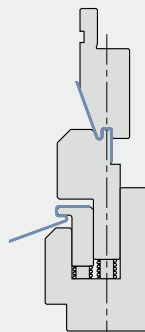
3. Pre-bending and flattening tool with spring loaded die



4. Pre-bending and flattening tool with spring loaded die



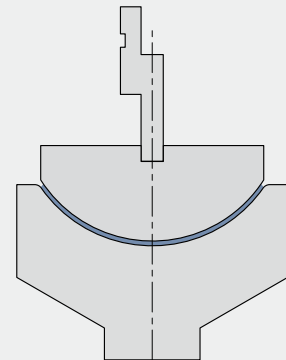
5. Pre-bending and flattening tool with spring loaded die and retainer



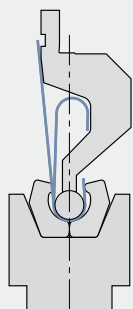
6. Pre-bending and flattening tool with spring loaded crash forming die and holding rail



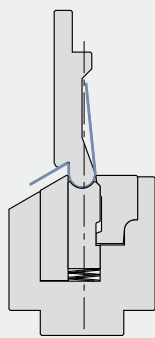
7. Pre-bending and flattening tool for bracket



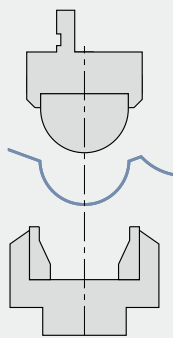
8. Radius crash-forming tool



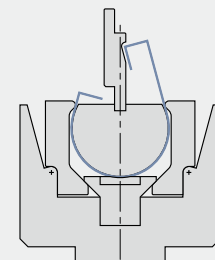
9. Radius tool with wings for over-bending



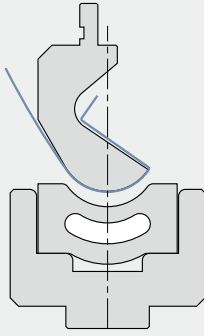
10. Radius tool with wings for over-bending and spring loaded ejector



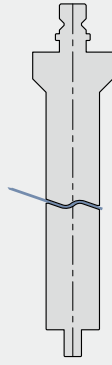
11. Radius-tool with adjustable flange



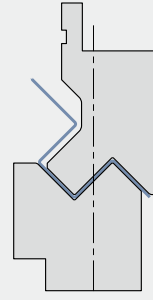
12. Radius tool with wings for over-bending and ejector



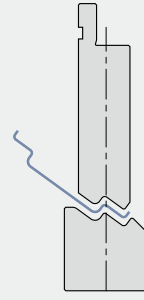
13. Radius-tool for bending with avothene inserts



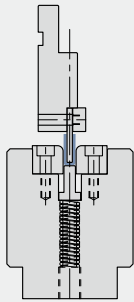
14. Joggle (Z) tool



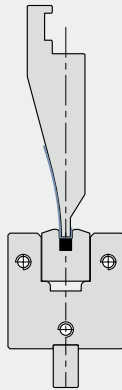
15. Joggle (Z) tool for multiple bendings



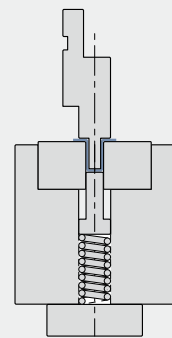
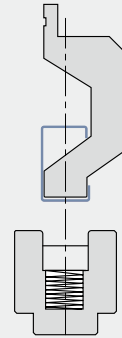
16. Crash-forming joggle (Z) tool with short flange



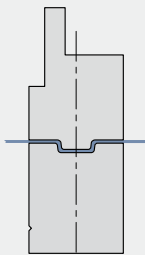
17. U-bending tool with bending strips and spring loaded ejector in the die and changeable blade at the punch/top-tool (working parts are exchangeable)



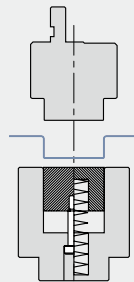
18. U-bending tool with avothene insert and counter-pressure strip and form punch/top-tool



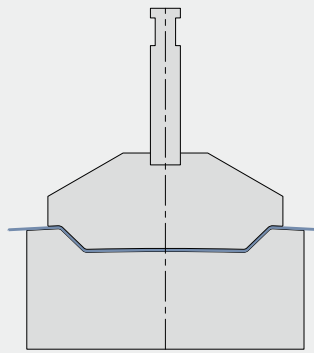
20. Top-hat-bending tool with bending strips and spring loaded ejector



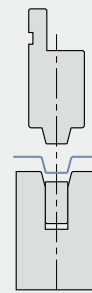
21. Top-hat crash-forming tool



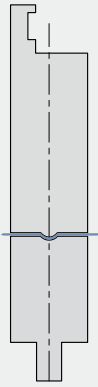
22. Top-hat-bending tool with spring loaded ejector



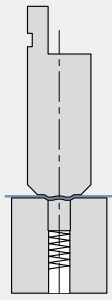
23. Trapezoidal crash-forming tool



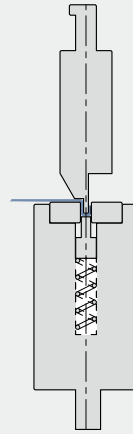
24. Trapezoidal-bending tool



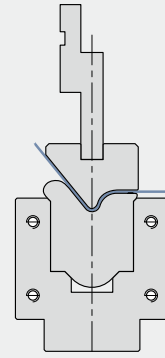
25. Radius swaging tool



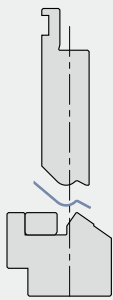
26. Double swaging tool with spring loaded ejector



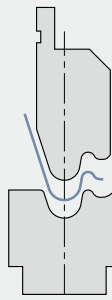
27. Crash-forming tool for brackets with bending strips and spring loaded ejector



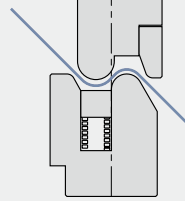
28. Crash-forming tool in avothene insert with form punch (mark free)



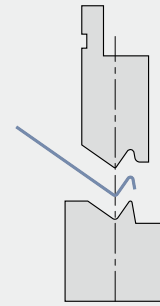
29. Crash-forming tool with adjustable bending strip in the die



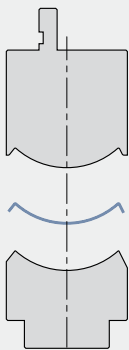
30. Crash-forming tool for joggle (Z) bendings with different radii



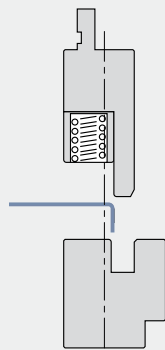
31. Adjustable joggle (Z) tool with spring loaded ejector



32. Crash-forming tool for multiple bendings in one stroke



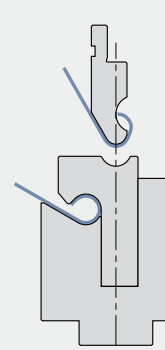
33. Crash-forming contour for big radii with short plates



34. Wipe tool



35. Crash-forming tool with adjustable flange on the punch



36. Hinge tool

Every single tool is traceable thanks to a unique serial number stamped after the first quality control
 All tools with batch number and therefore a complete tool traceability
 All tools induction hardened to 54-60 HRc
 Precision grinding (tolerance of +/-0.01 mm)

ISO 9001:2015 Certification
 Raw material is provided by qualified suppliers and chemical composition corresponds to international standards. Therefore, raw material yield and tensile strength are guaranteed.

Standard Tools material

| Material Type | Mechanical resistance of the material and the tool body | Hardness of the material and the tool body | Hardness of the operating surfaces after induction hardening |
|---|---|--|--|
| 42CrMo4 42Cr: 900-1150 N/mm ² | 900-1150 N/mm ² | 29.1 - 36.9 HRC | 54 - 60 HRC |
| C45 C45: 560-710 N/mm ² | 560-710 N/mm ² | 12 - 15.5 HRC | 54 - 60 HRC |

Specifications for the maximum press force kN/m are indicated as such, 1 t = 10 kN.

Rolla-V Dies material

| | Model | Material Type | Hardness of the material and the tool body | Hardness of the operating surfaces after induction hardening |
|---------|---------------------|---|--|--|
| Body | 1 / 2 / 2.5 / 3 / 4 | 42CrMo4 42Cr: 900-1150 N/mm ² | 900-1150 N/mm ² | 55 HRc |
| Inserts | 1 / 2 / 2.5 | Toolox 44 Toolox 44 | 1450 N/mm ² | through hardened 44 HRC |
| Inserts | 3 / 4 | Toolox 33 Toolox 33 | 1100 N/mm ² | 55 HRc |

Specifications for the maximum press force kN/m are indicated as such, 1 t = 10 kN.

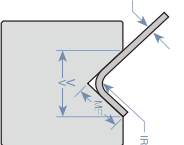
Special and Heavy duty Tools material

| Material Type | Mechanical resistance of the material and the tool body | Hardness of the material and the tool body | Hardness of the operating surfaces after induction hardening |
|---|---|--|--|
| 42CrMo4 42Cr: 900-1150 N/mm ² | 900-1150 N/mm ² | 29.1 - 36.9 HRC | 54 - 60 HRC |
| C45 C45: 560-710 N/mm ² | 560-710 N/mm ² | 12 - 15.5 HRC | 54 - 60 HRC |
| 1.2767 1.2767: 1100-1320 N/mm ² | 1100-1320 N/mm ² | 36 - 42 HRC | 54 - 60 HRC |
| C53 C53: 610-760 N/mm ² | 610-760 N/mm ² | 16 - 19 HRC | 60 - 62 HRC |

Specifications for the maximum press force kN/m are indicated as such, 1 t = 10 kN.

2.6mm OR LESS = T x 6
 3.0mm - 8.0mm = T x 8
 9.0mm - 12.0mm = T x 10
 14.0mm & 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. Chart below is for mild steel.

| 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 | MF | 2.8 | 4.2 | 4.9 | 5.6 | 7.0 | 8.6 | 10.1 | 11.5 | 13.0 | 14.4 | 15.8 | 18.0 | 24.0 | 30.0 | 37.5 | 47.3 | 60.0 | 75.0 | 96.3 | 123.2 | 154.0 | 192.5 |
| | IR | 0.7 | 1.0 | 1.2 | 1.3 | 1.7 | 2.0 | 2.3 | 2.7 | 3.0 | 3.3 | 3.7 | 4.2 | 5.3 | 6.7 | 8.3 | 10.5 | 13.3 | 16.7 | 20.8 | 26.7 | 33.3 | 41.7 |
| | | 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 | T | | | | | | | | 22.0 | 20.0 | 18.0 | 16.0 | 14.0 | 12.5 | 11.0 | | | | | | | | |
| 2.3mm | O | | | | | | | | | 25.3 | 23.0 | 20.7 | 18.4 | 16.1 | 14.4 | 12.7 | | | | | | | |
| 2.6mm | N | | | | | | | | | | 28.6 | 26.0 | 23.4 | 20.8 | 18.2 | 14.3 | | | | | | | |
| 3.0mm | S | | | | | | | | | | | 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 | P | | | | | | | | | | | | 38.5 | 35.0 | 28.0 | 21.9 | 15.8 | 14.0 | | | | | |
| 4.0mm | E | | | | | | | | | | | | | 44.0 | 36.0 | 28.0 | 22.0 | 18.0 | | | | | |
| 4.5mm | R | | | | | | | | | | | | | | 45.0 | 36.0 | 28.1 | 20.3 | | | | | |
| 5.0mm | | | | | | | | | | | | | | | 55.0 | 45.0 | 35.0 | 26.3 | 22.5 | | | | |
| 6.0mm | M | | | | | | | | | | | | | | 60.0 | 54.0 | 37.5 | 31.5 | 24.0 | | | | |
| 7.0mm | E | | | | | | | | | | | | | | | 56.0 | 43.8 | 31.5 | 28.0 | | | | |
| 9.0mm | T | | | | | | | | | | | | | | | | 72.0 | 56.3 | 40.5 | | | | |
| 10.0mm | R | | | | | | | | | | | | | | | | | 90.0 | 70.0 | 52.5 | 45.0 | | |
| 12.0mm | E | | | | | | | | | | | | | | | | | 108.0 | 84.0 | 63.0 | 54.0 | | |
| 16.0mm | | | | | | | | | | | | | | | | | | | 144.0 | 112.0 | 84.0 | 72.0 | |
| 19.0mm | | | | | | | | | | | | | | | | | | | | 152.0 | 118.8 | 99.8 | |
| 22.0mm | | | | | | | | | | | | | | | | | | | | | 176.0 | 137.5 | |
| 25.0mm | | | | | | | | | | | | | | | | | | | | | | 225.0 | 175.0 |
| 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
 Soft Aluminium
 Heat Treated Aluminium Alloys
 Stainless Steel

Tons Per Metre x 50%
 Tons Per Metre x 50%
 Tons Per Metre x 100%
 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.

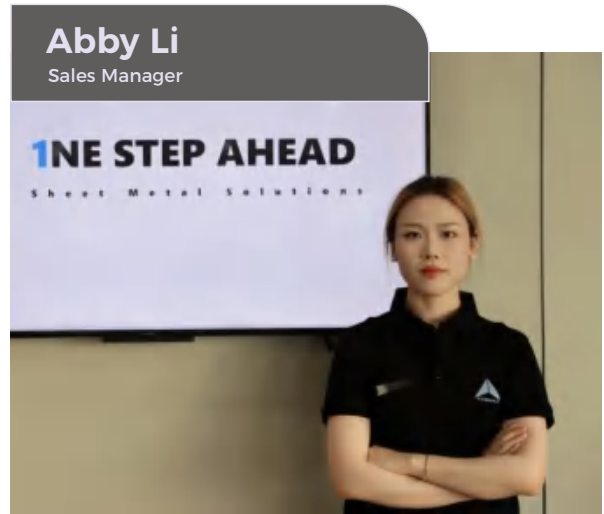


BILL HU

General Manager

 Info@fabmax.cn


 86 131-5555-9811



Abby Li

Sales Manager

 abby@fabmax.cn

 86-177-0555-6404



ANDY

Sales Manager

 andy@fabmax.cn


 86 177-5559-0244



EMILY

Sales Manager

 emily@fabmax.cn

 86 181-1031-0244



ANHUI GAOYI MACHINE TOOLS TRADE CO.,LTD

Hudong Middle Rd, Huashan District,
Maanshan, Anhui, China, 243099

TEL: +86 177 0555 0574

EMAIL: info@fabmax.cn

Web: www.fabmax.cn www.fabmax.ru



Address: 2606 building 6, Hudong Middle Rd,
Huashan District, Maanshan, Anhui, China, 243099



(86) 177 0555 0574



info@fabmax.cn



www.fabmax.cn
www.fabmax.ru