

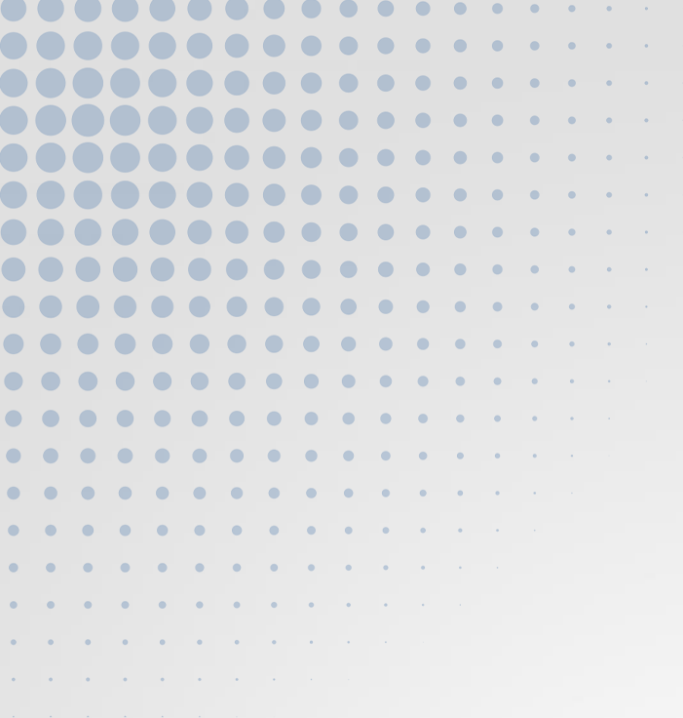


ГИБОЧНЫЙ ИНСТРУМЕНТ ВСЕГДА НА ШАГ ВПЕРЕДИ

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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.

COMPANY INTRODUCTION

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.

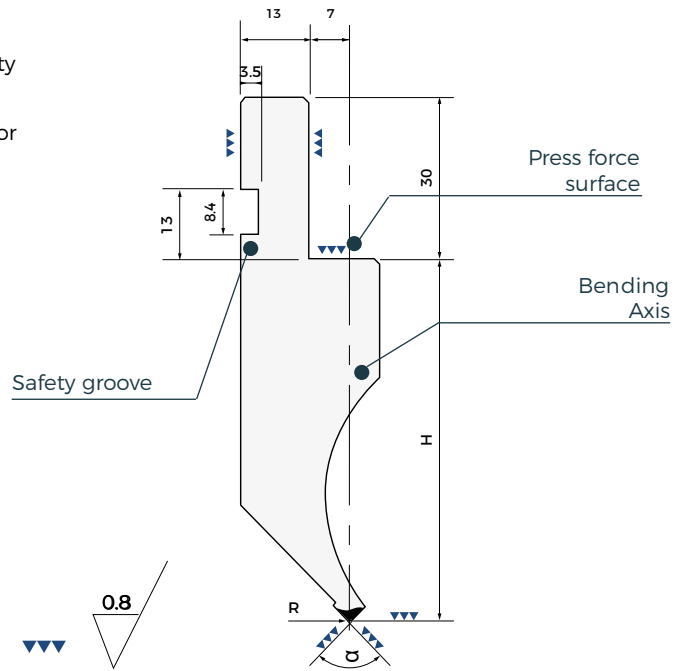
Customization: We understand that different applications require different solutions. Therefore, we offer customizable options for our bending tools to meet specific client needs, ensuring maximum versatility and efficiency in their operations.

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.

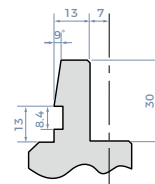
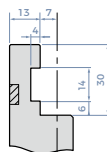
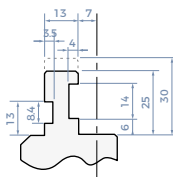
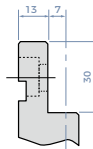
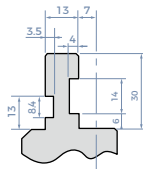
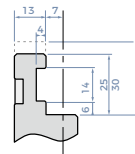
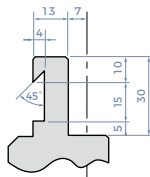
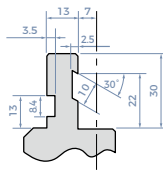
OUR VALUES

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

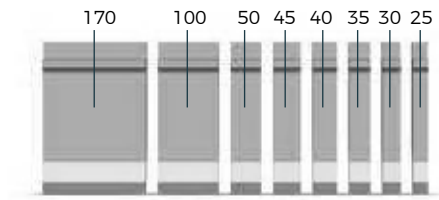
900 mm

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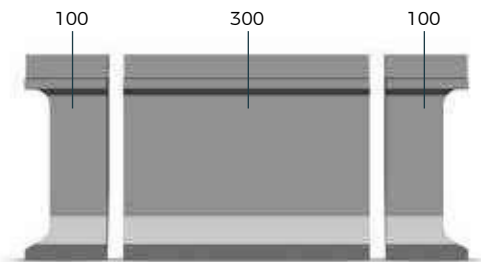
SEGMENTATION

PUNCHES

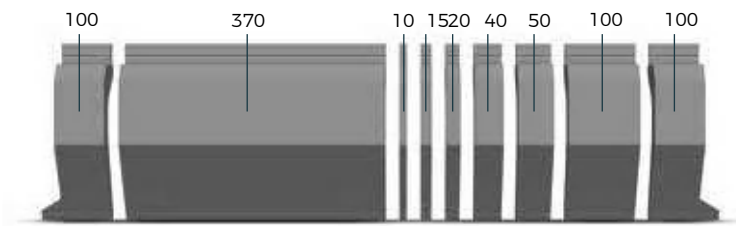
FA: 495 mm - 8 segments



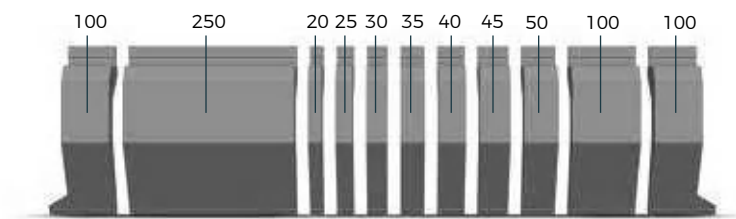
FB: 500 mm - 3 segments



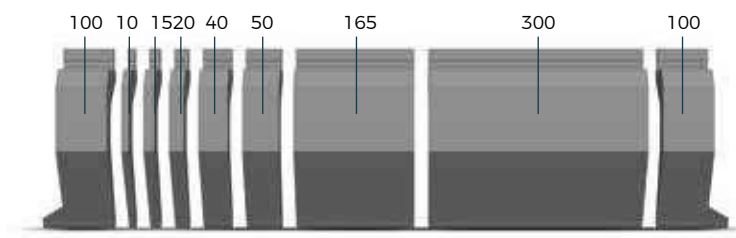
F: 805 mm - 9 segments



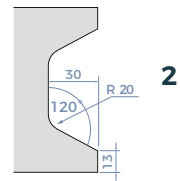
FX: 795 mm - 11 segments



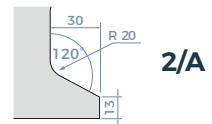
FC: 800 mm - 9 segments



FMP types

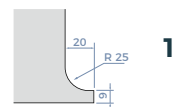


2

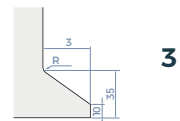


2/A

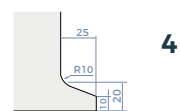
FMP types



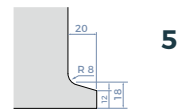
1



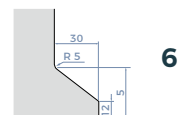
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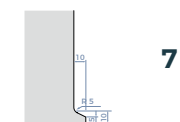
4



5



6



7

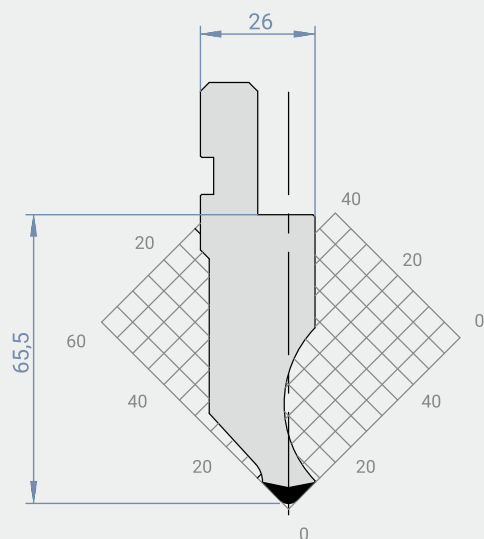
FMP.66.88°.R3

1000KN/m max.

88°

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

835 mm	11.0 kg
415 mm	4.5 kg
805 mm	11.0 kg



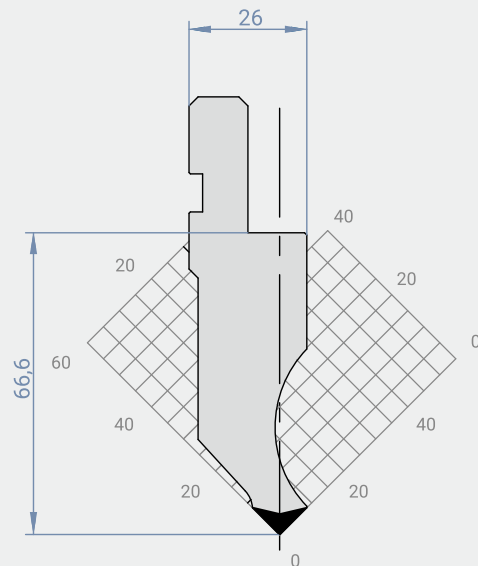
FMP.67.88°.R025

1000KN/m max.

88°

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

835 mm	11.0 kg
415 mm	5.0 kg
805 mm	11.0 kg



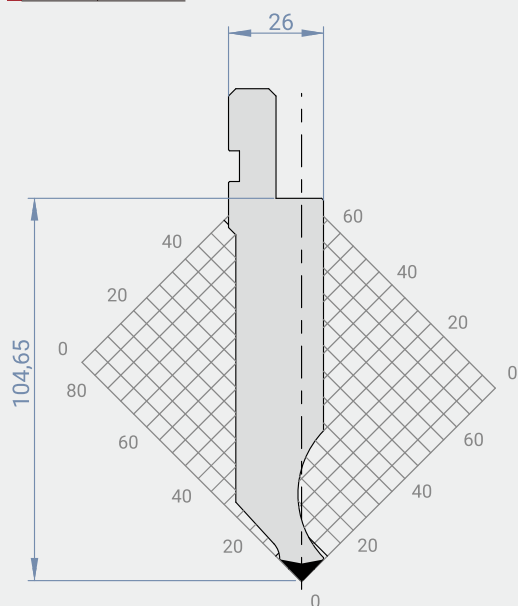
FMP.105.88°.R08

1000KN/m max.

88°

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

835 mm	17.0 kg
415 mm	9.0 kg
805 mm	17.0 kg



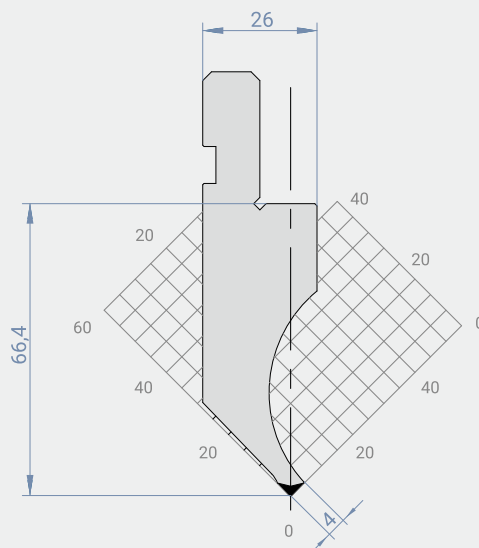
FMP.66.88°.R06

1000KN/m max.

88°

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

835 mm	11.0 kg
415 mm	5.0 kg
805 mm	11.0 kg



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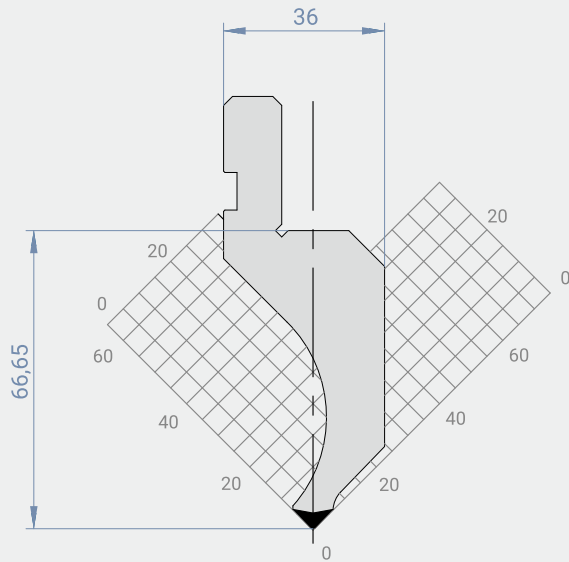
FMP.67.88°.R08

600KN/m max.

88°

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

835 mm	11.0 kg
415 mm	6.0 kg
805 mm	12.0 kg



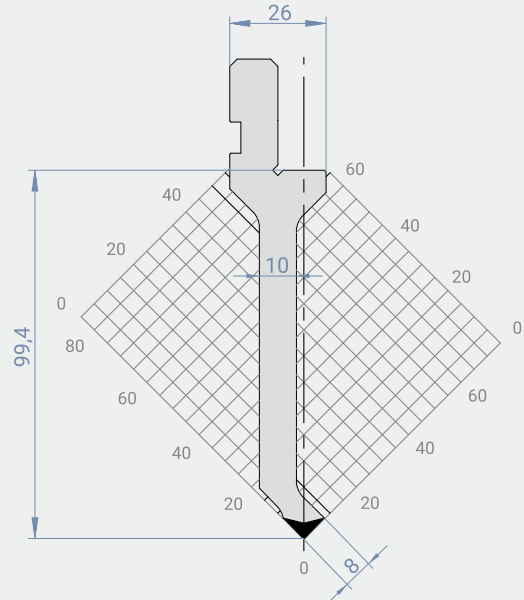
FMP.99.88°.R06

500KN/m max.

88°

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

835 mm	10.0 kg
415 mm	5.0 kg
805 mm	10.0 kg



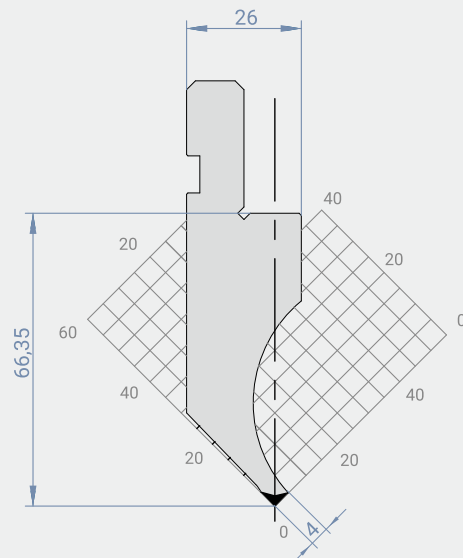
FMP.66.88°.R025

350KN/m max.

88°

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

835 mm	11.0 kg
415 mm	4.5 kg
805 mm	11.0 kg



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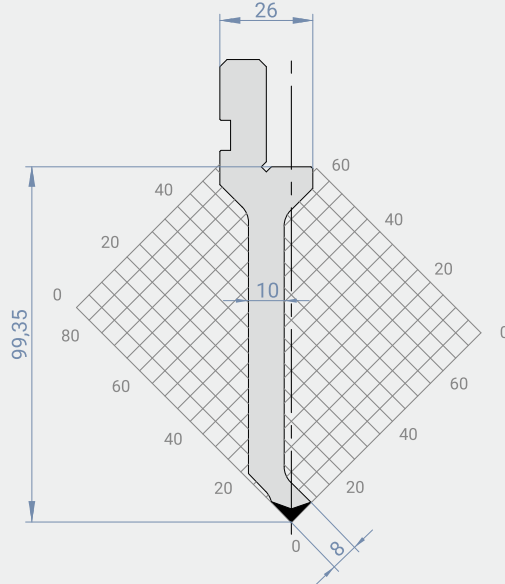
FMP.99.88°.R025

500KN/m max.

88°

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

835 mm	9.0 kg
415 mm	4.0 kg
805 mm	9.0 kg



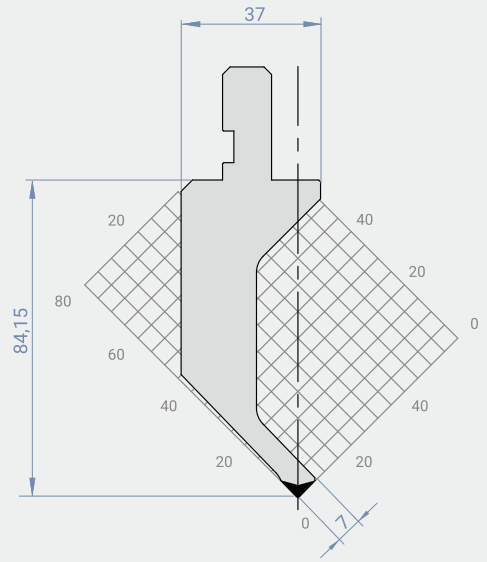
FMP.84.88°.R06

200KN/m max.

88°

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

835 mm	14.0 kg
415 mm	7.5 kg
805 mm	14.0 kg



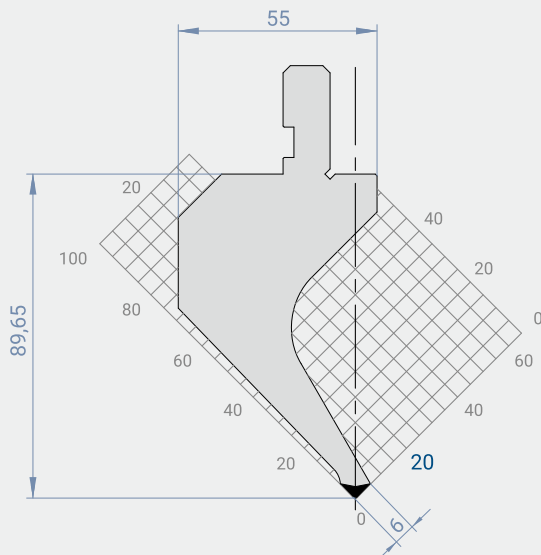
FMP.90.88°.R08A

500KN/m max.

88°

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

835 mm	21.0 kg
415 mm	10.0 kg
805 mm	21.0 kg



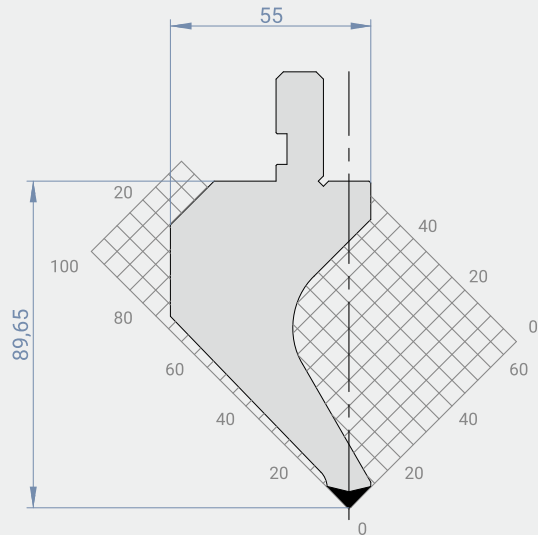
FMP.90.88°.R08B

600KN/m max.

88°

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

835 mm	21.0 kg
415 mm	10.5 kg
805 mm	21.0 kg



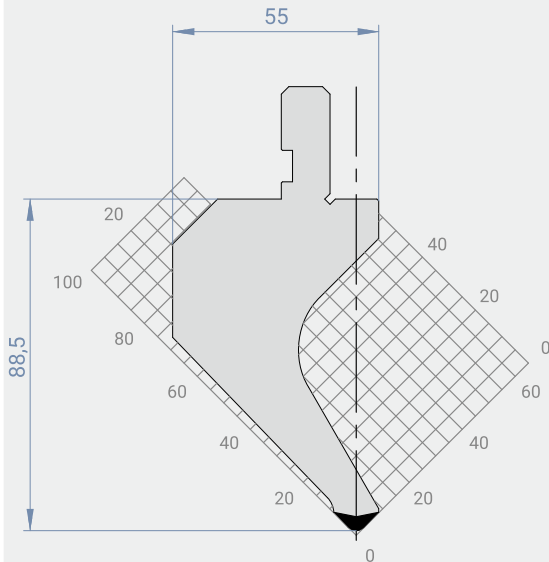
FMP.89.88°.R3

600KN/m max.

88°

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

835 mm	21.0 kg
415 mm	10.0 kg
805 mm	21.0 kg



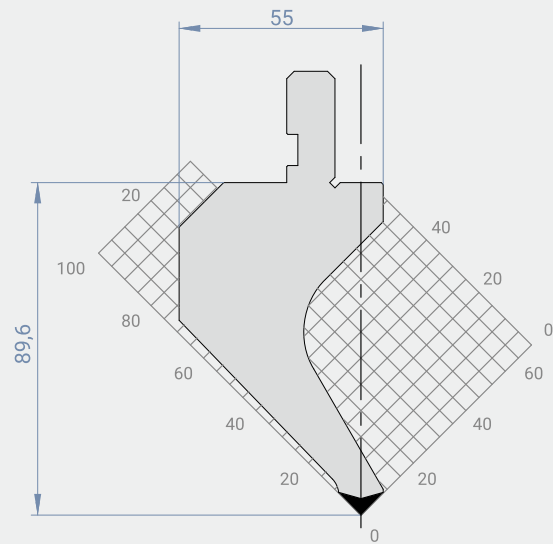
FMP.90.88°.R025

600KN/m max.

88°

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

835 mm	21.0 kg
415 mm	10.0 kg
805 mm	21.0 kg



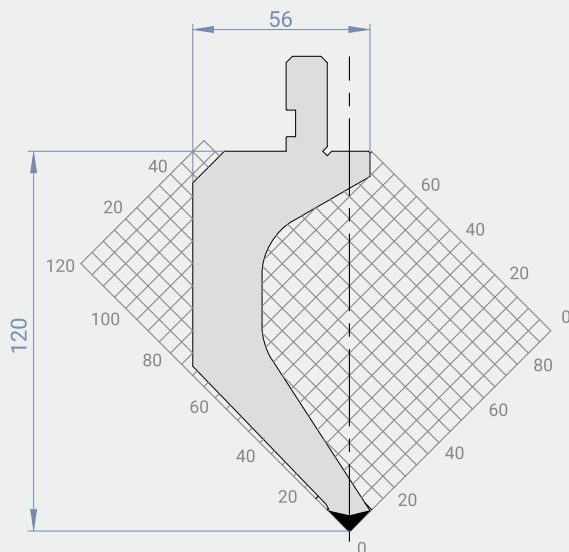
FMP.120.88°.R08

500KN/m max.

88°

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

835 mm	24.0 kg
415 mm	12.0 kg
805 mm	24.0 kg



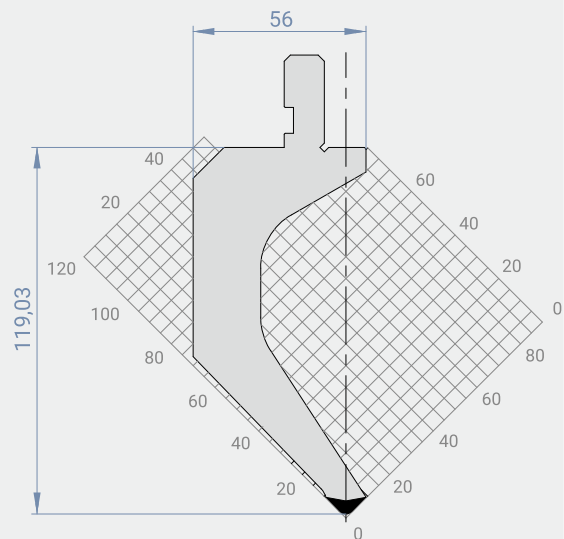
FMP.120.88°.R3

500KN/m max.

88°

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

835 mm	24.0 kg
415 mm	12.0 kg
805 mm	24.0 kg



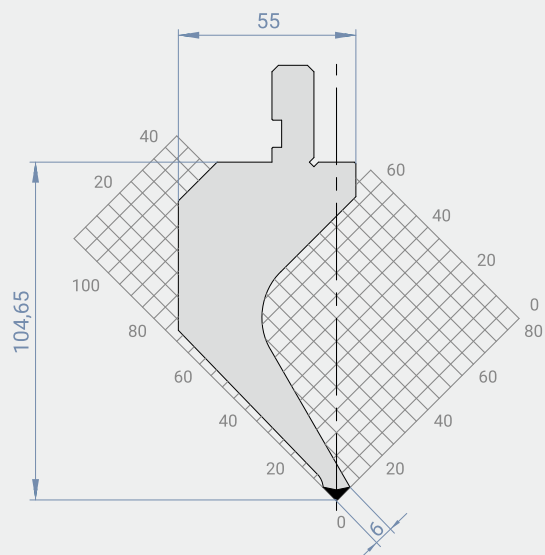
FMP.105.88°.R08A

500KN/m max.

88°

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

835 mm	23.0 kg
415 mm	11.0 kg
805 mm	23.0 kg

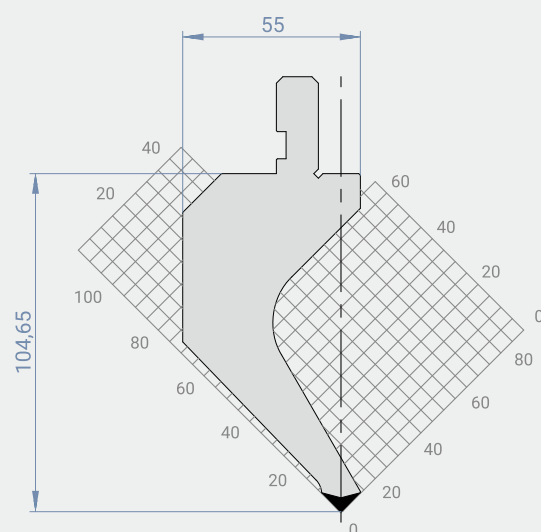
**FMP.105.88°.R08B**

500KN/m max.

88°

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

835 mm	23.0 kg
415 mm	11.0 kg
805 mm	23.0 kg

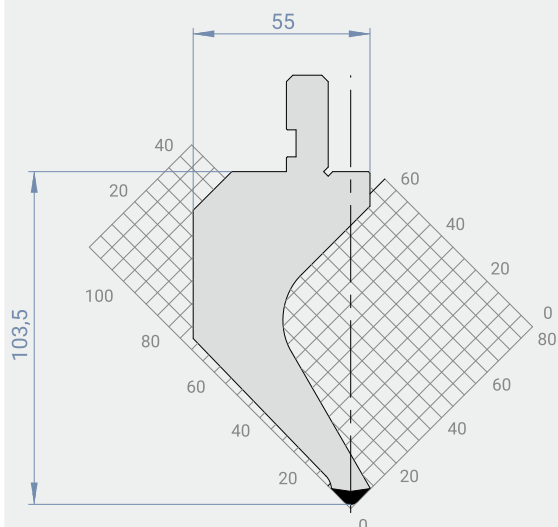
**FMP.104.88°.R3**

500KN/m max.

88°

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

835 mm	23.0 kg
415 mm	11.0 kg
805 mm	23.0 kg

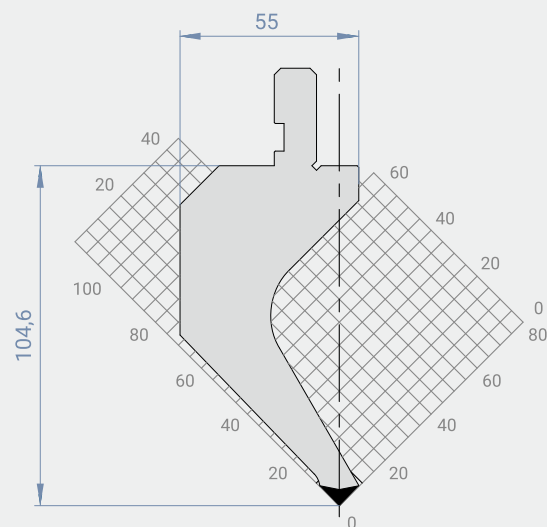
**FMP.105.88°.R025**

500KN/m max.

88°

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

835 mm	23.0 kg
415 mm	11.0 kg
805 mm	23.0 kg



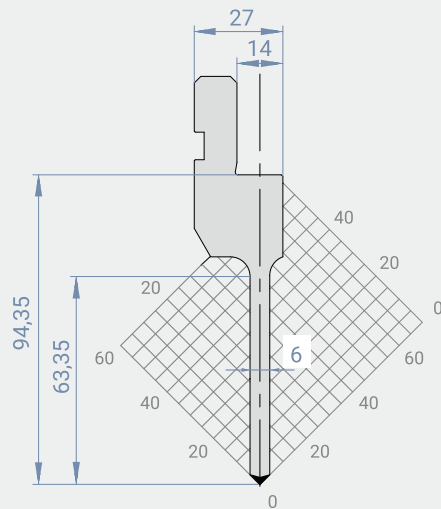
FMP.94.88°.R025

500kN/m max.

88°

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

835 mm	8.0 kg
415 mm	4.0 kg
805 mm	8.0 kg



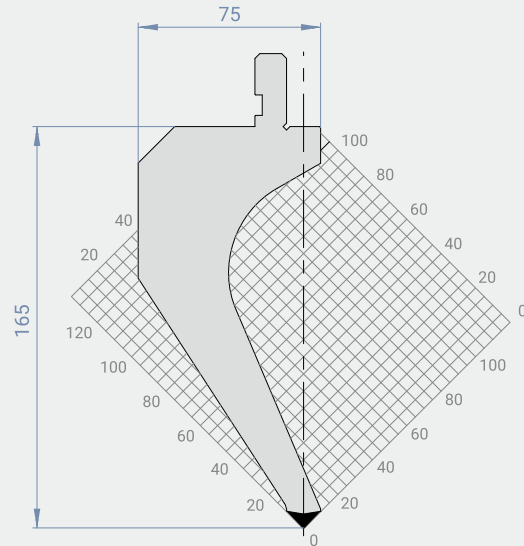
FMP.165.88°.R08

600kN/m max.

88°

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

835 mm	41.0 kg
415 mm	20.5 kg
805 mm	41.0 kg



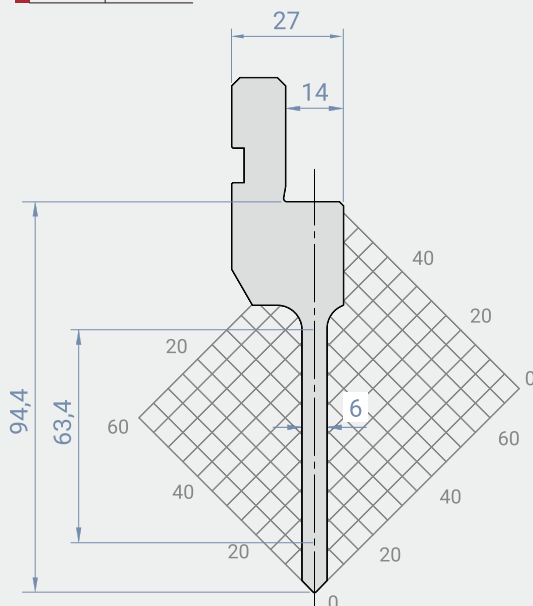
FMP.94.88°.R06

500kN/m max.

88°

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

835 mm	8.0 kg
415 mm	4.0 kg
805 mm	8.0 kg



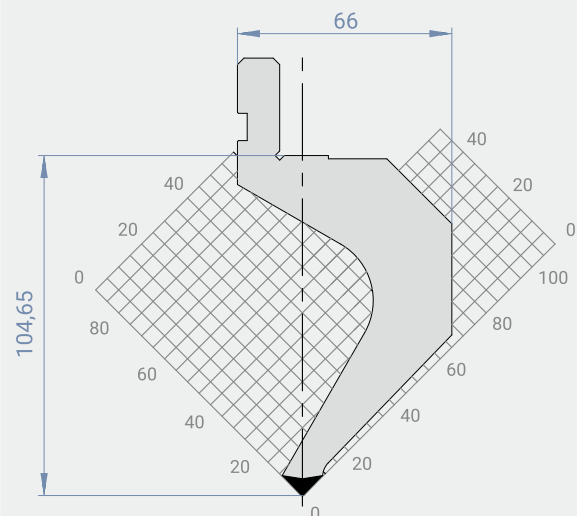
FMP.105.88°.R08C

450kN/m max.

88°

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

835 mm	25.0 kg
415 mm	12.0 kg
805 mm	25.0 kg



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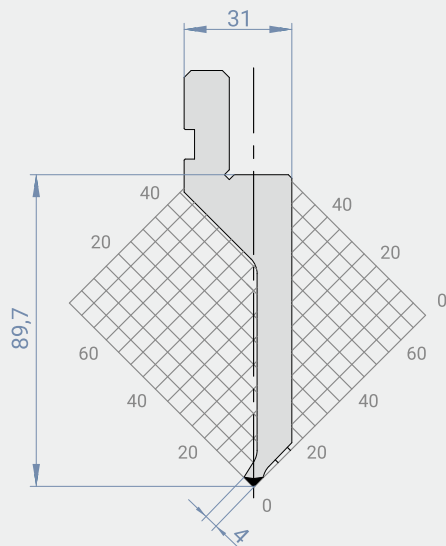
FMP.90.88°.R06

300KN/m max.

88°

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

835 mm	10.0 kg
415 mm	5.0 kg
805 mm	10.0 kg



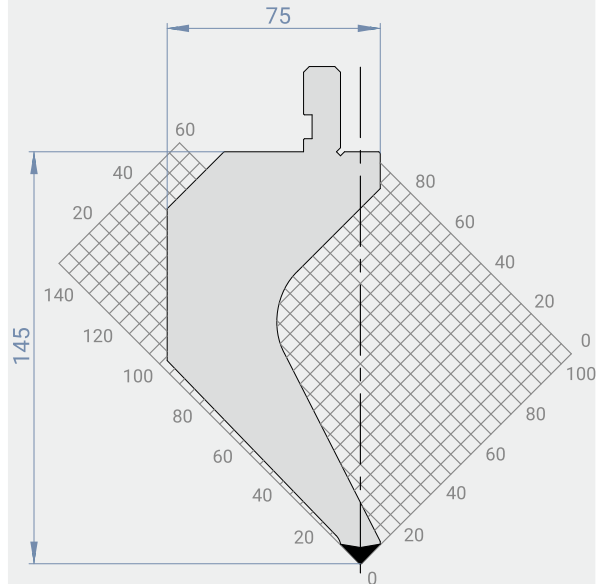
FMP.145.88°.R08

500KN/m max.

88°

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

835 mm	39.0 kg
415 mm	19.0 kg
805 mm	39.0 kg



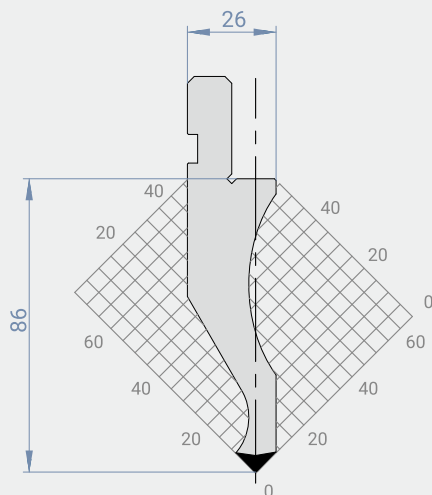
FMP.86.88°.R08

1000KN/m max.

88°

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

835 mm	13.0 kg
415 mm	6.0 kg
805 mm	13.0 kg



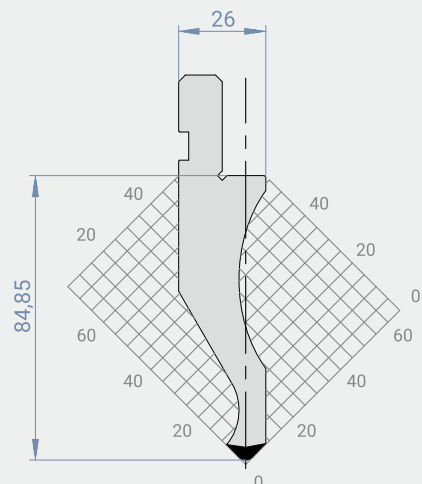
FMP.85.88°.R3

1000KN/m max.

88°

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

835 mm	13.0 kg
415 mm	6.0 kg
805 mm	13.0 kg



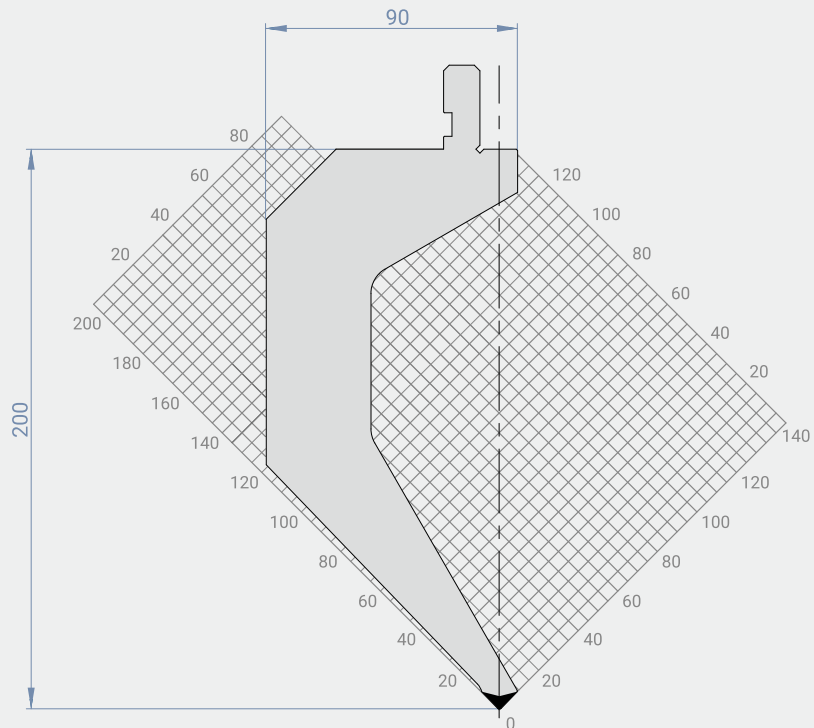
FMP.200.88°.R08

850KN/m max.

88°

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

505 mm	32.5 kg
805 mm	54.0 kg



PUNCHES

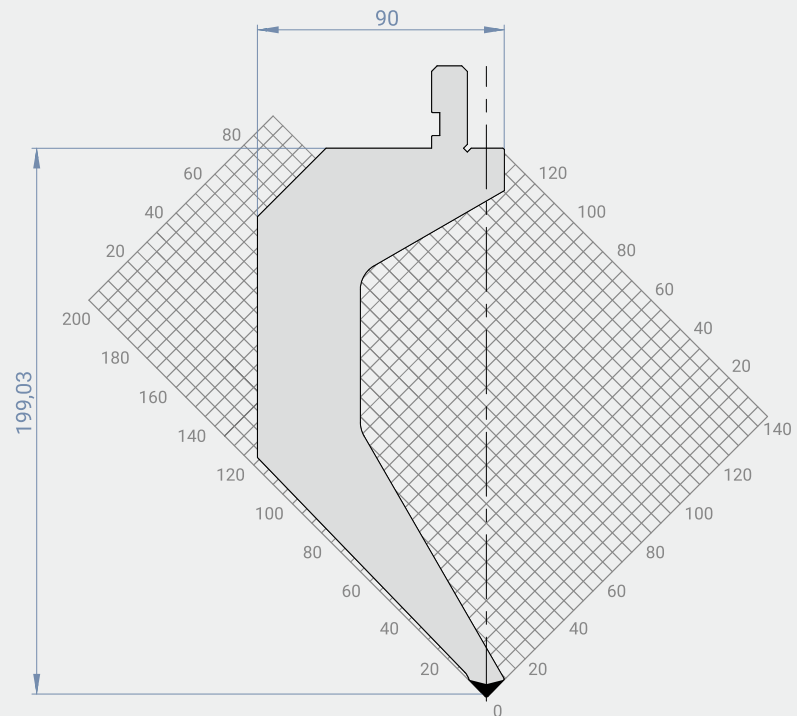
FMP.199.88°.R3

850KN/m max.

88°

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

505 mm	32.5 kg
805 mm	54.0 kg



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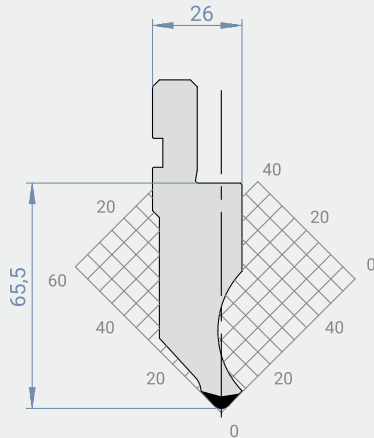
FMP.66.85°.R3

1000KN/m max.

85°

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

835 mm	11.0 kg
415 mm	5.0 kg
805 mm	11.0 kg



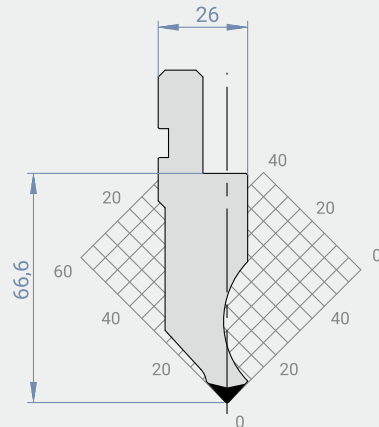
FMP.67.85°.R08

1000KN/m max.

85°

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

835 mm	11.0 kg
415 mm	5.0 kg
805 mm	11.0 kg



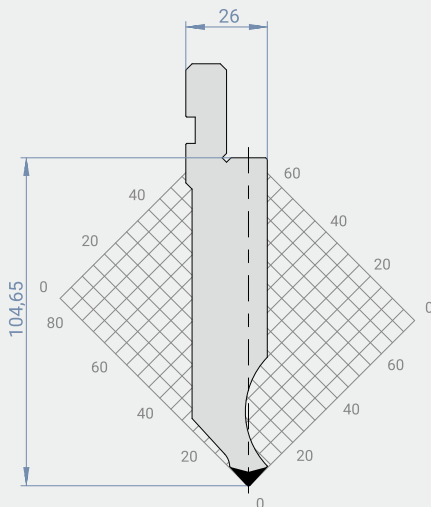
FMP.105.85°.R08A

1000KN/m max.

85°

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

835 mm	17.0 kg
415 mm	9.0 kg
805 mm	17.0 kg



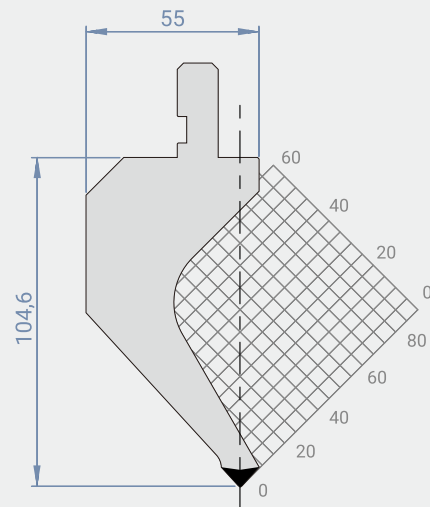
FMP.105.85°.R08B

500KN/m max.

85°

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

835 mm	23.0 kg
415 mm	11.0 kg
805 mm	23.0 kg



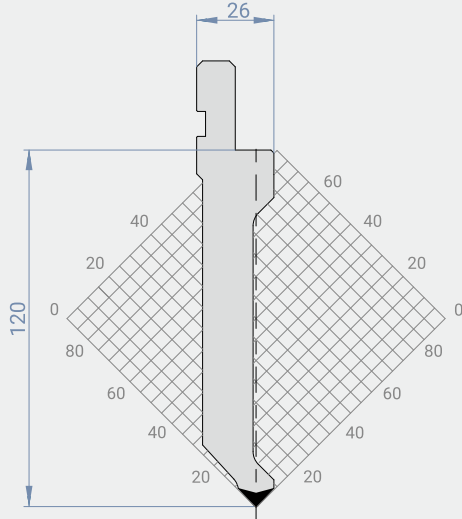
FMP.120.85°.R08

700KN/m max.

85°

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

835 mm	15.9 kg
415 mm	8.0 kg
805 mm	15.9 kg



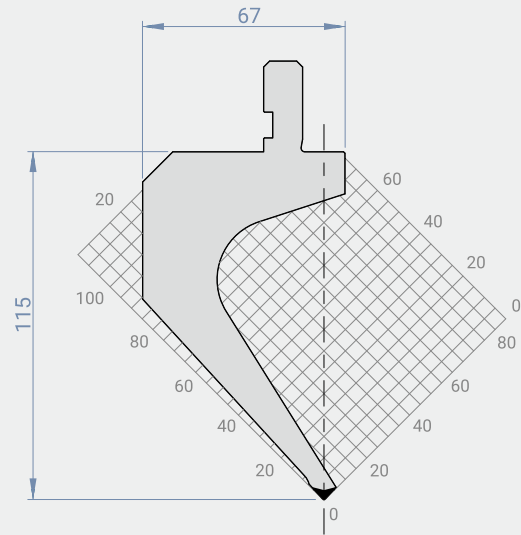
FMP.115.85°.R08

300KN/m max.

85°

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

835 mm	23.0 kg
415 mm	11.5 kg
805 mm	23.0 kg



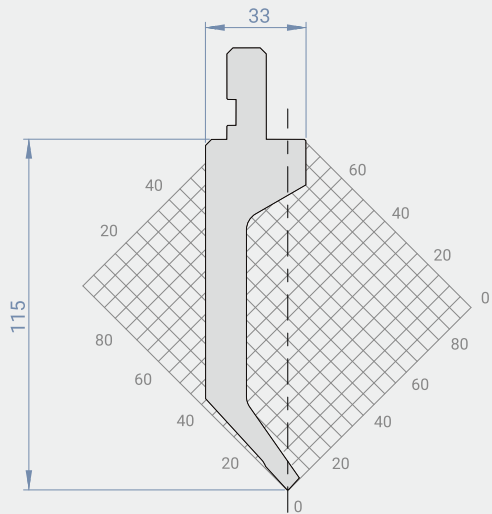
FMP.115.85°.R06

200KN/m max.

85°

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

835 mm	14.5 kg
415 mm	7.2 kg
805 mm	14.5 kg



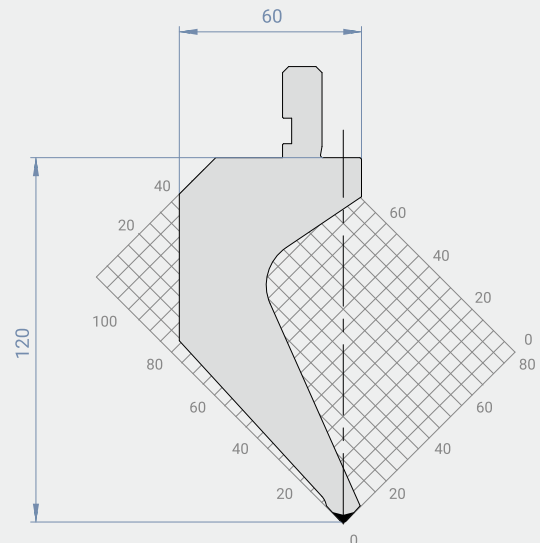
FMP.120.85°.R15

1000KN/m max.

85°

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

835 mm	26.7 kg
415 mm	13.3 kg
805 mm	26.7 kg



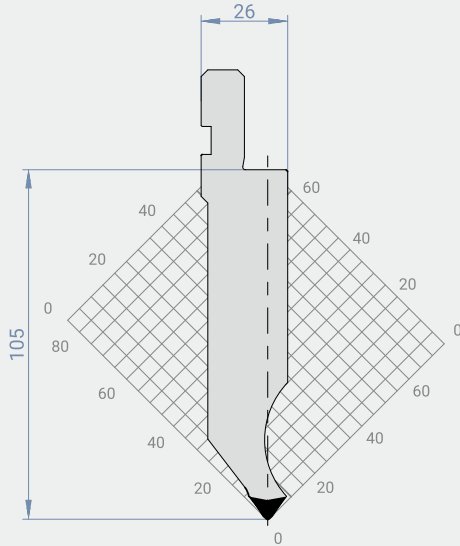
FMP.105.75°.R08

1000KN/m max.

75°

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

835 mm	16.4 kg
415 mm	8.1 kg
805 mm	15.0 kg



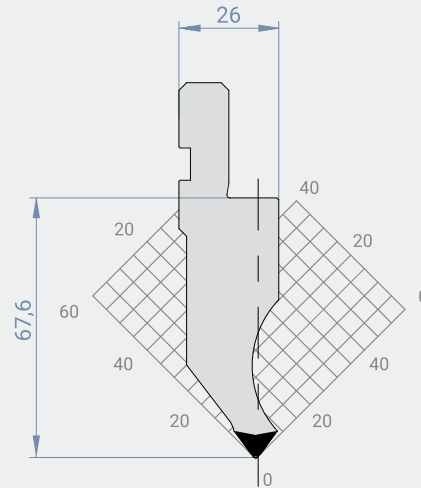
FMP.68.75°.R08

1000KN/m max.

75°

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

835 mm	10.5 kg
415 mm	5.2 kg
805 mm	9.7 kg



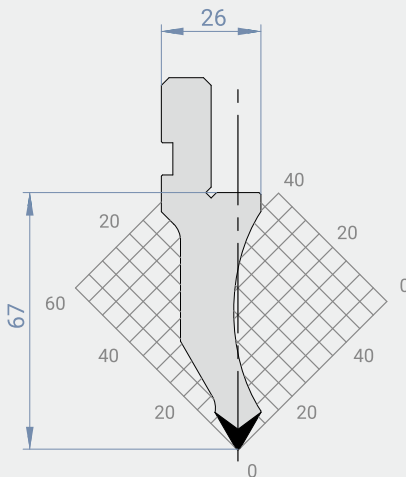
FMP.67.60°.R08

800KN/m max.

60°

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

835 mm	9.0 kg
415 mm	4.0 kg
805 mm	9.0 kg



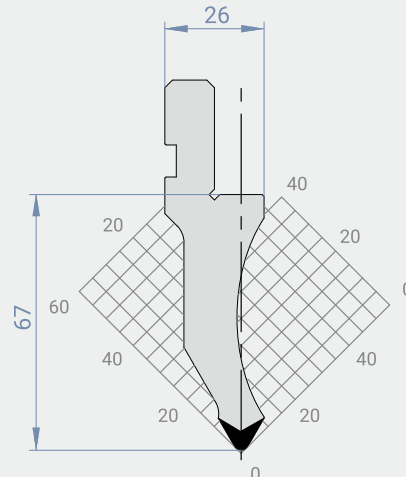
FMP.67.60°.R2

800KN/m max.

60°

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

835 mm	9.0 kg
415 mm	4.0 kg
805 mm	9.0 kg



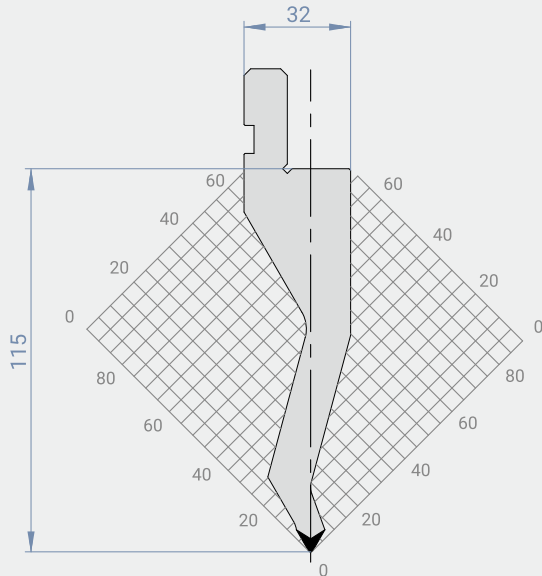
FMP.115.60°.R08A

600KN/m max.

60°

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

835 mm	15.0 kg
415 mm	7.0 kg
805 mm	15.0 kg



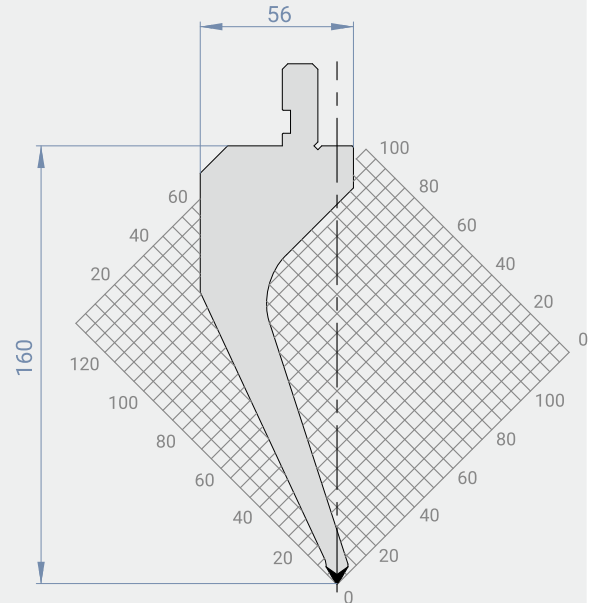
FMP.160.60°.R08

400KN/m max.

60°

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

835 mm	27.0 kg
415 mm	13.5 kg
805 mm	27.0 kg



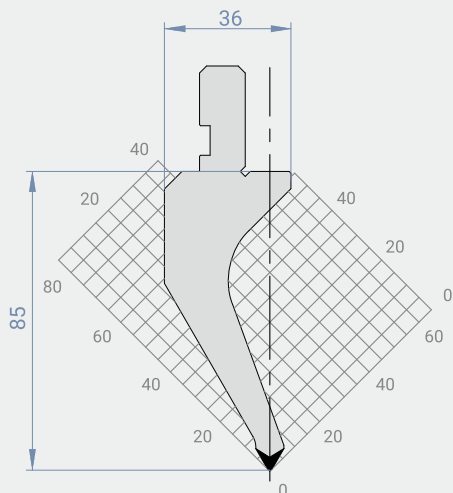
FMP.85.60°.R08

400KN/m max.

60°

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

835 mm	12.0 kg
415 mm	6.0 kg
805 mm	12.0 kg



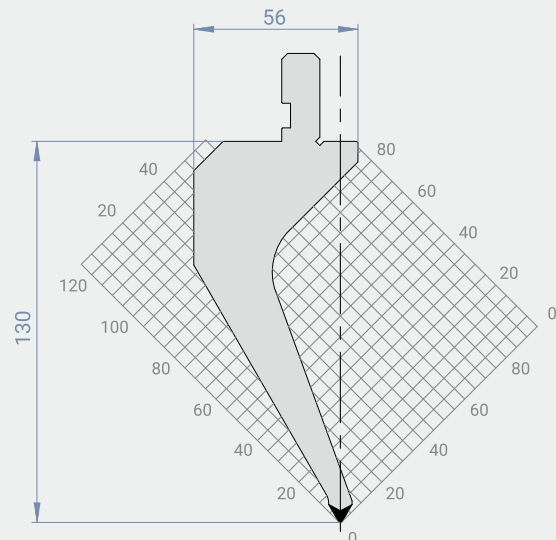
FMP.130.60°.R08

400KN/m max.

60°

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

835 mm	23.0 kg
415 mm	11.0 kg
805 mm	23.0 kg



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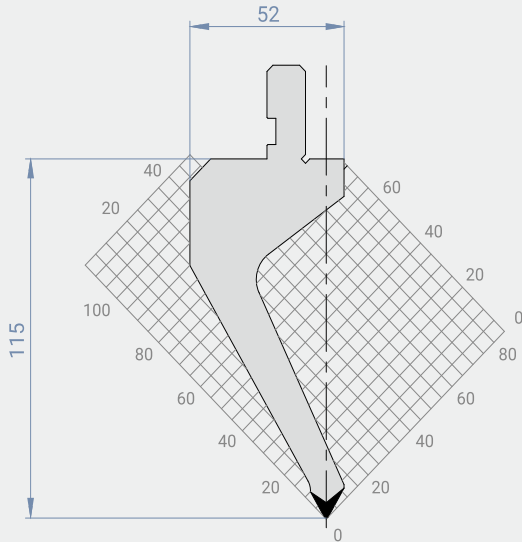
FMP.115.60°.R08B

400KN/m max.

60°

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

835 mm	20.0 kg
415 mm	10.0 kg
805 mm	20.0 kg



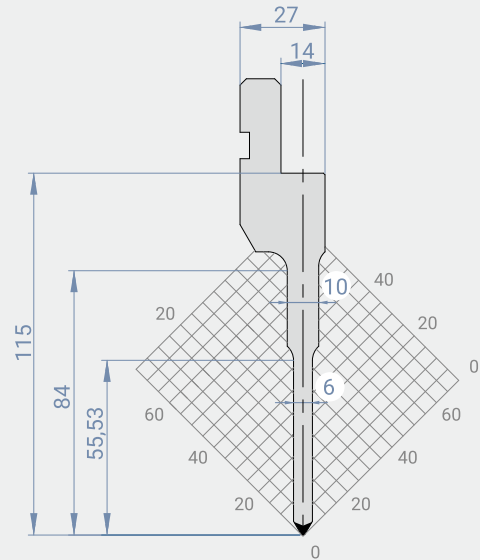
FMP.115.60°.R08C

500KN/m max.

60°

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

835 mm	9.0 kg
415 mm	4.0 kg
805 mm	9.0 kg



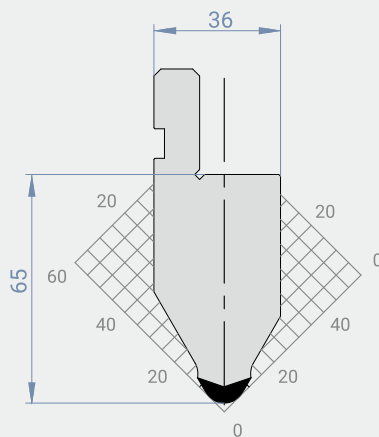
FMP.65.60°.R6

1200KN/m max.

60°

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

835 mm	14.0 kg
415 mm	7.0 kg
805 mm	14.0 kg



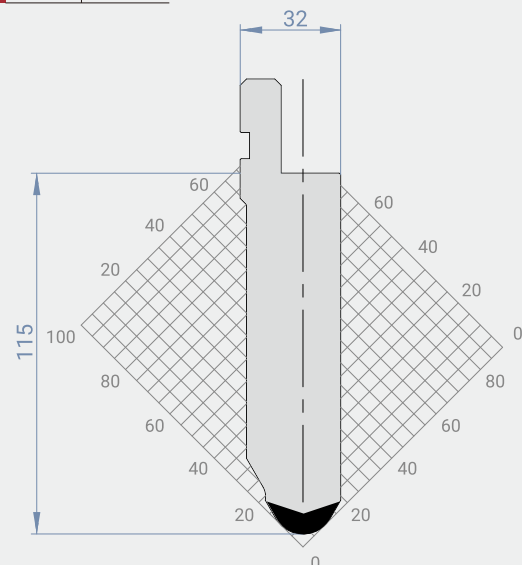
FMP.115.60°.R10

1500KN/m max.

60°

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

835 mm	25.0 kg
415 mm	12.0 kg
805 mm	25.0 kg



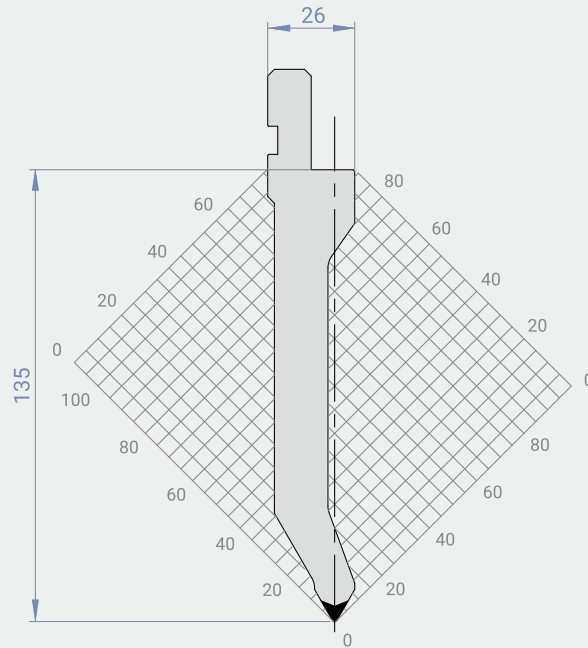
FMP.135.60°.R08

700kN/m max.

60°

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

835 mm	19.0 kg
415 mm	9.0 kg
805 mm	19.0 kg



PUNCHES

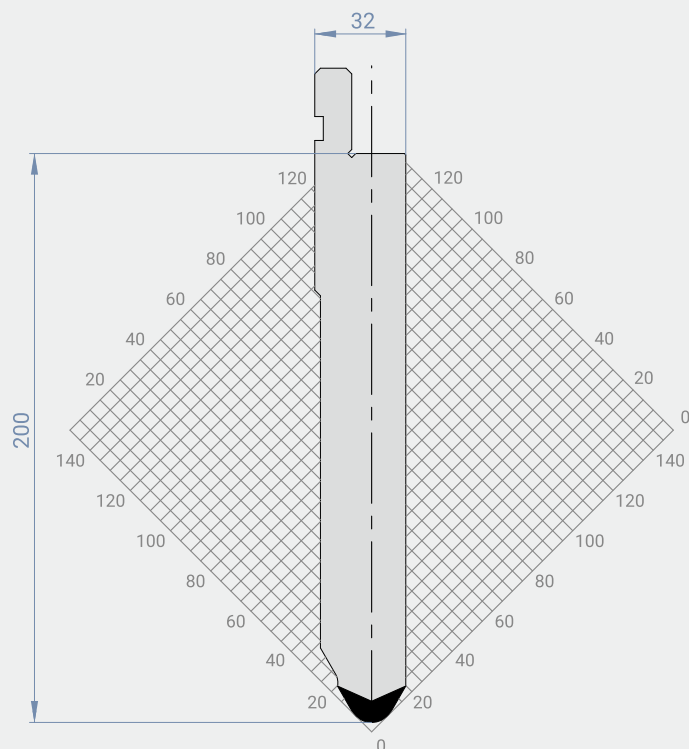
FMP.200.60°.R8

1500kN/m max.

60°

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

835 mm	40.8 kg
415 mm	20.4 kg
805 mm	40.8 kg



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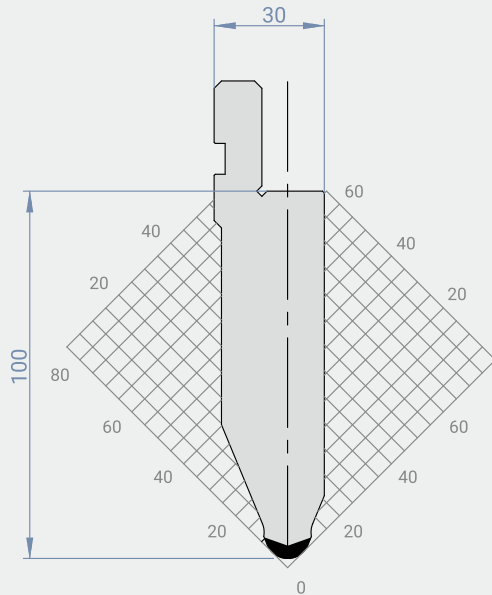
FMP.100.45°.R6

1000KN/m max.

45°

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

835 mm	19.0 kg
415 mm	9.0 kg
805 mm	19.0 kg



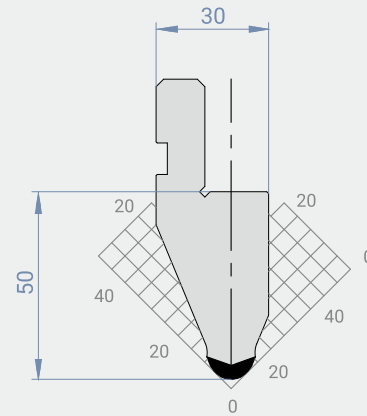
FMP.50.45°.R6

1000KN/m max.

45°

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

835 mm	9.0 kg
415 mm	4.0 kg
805 mm	9.0 kg



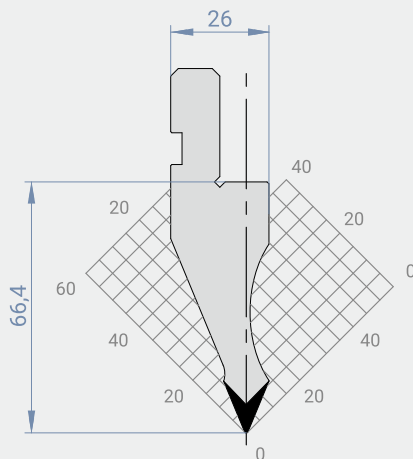
FMP.66.45°.R05

800KN/m max.

45°

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

835 mm	10.0 kg
415 mm	5.0 kg
805 mm	10.0 kg



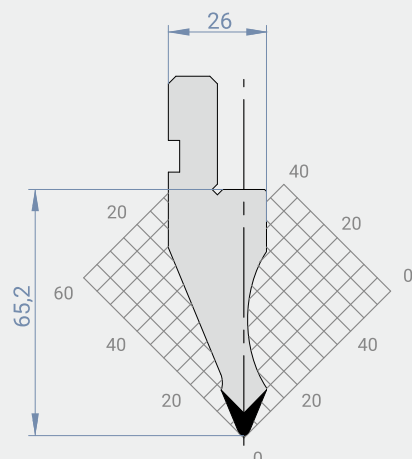
FMP.65.45°.R15

800KN/m max.

45°

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

835 mm	10.0 kg
415 mm	5.0 kg
805 mm	10.0 kg



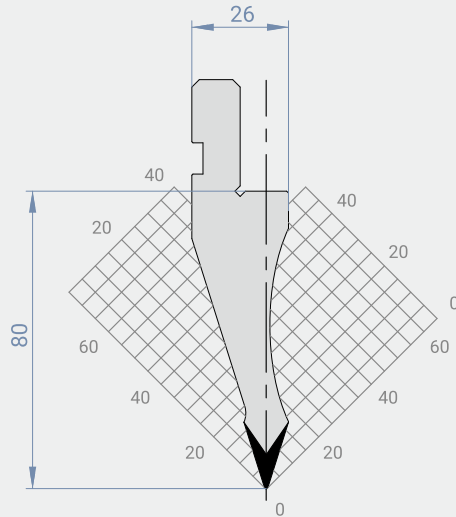
FMP.80.35°.R05

700kN/m max.

35°

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

835 mm	11.0 kg
415 mm	5.0 kg
805 mm	11.0 kg



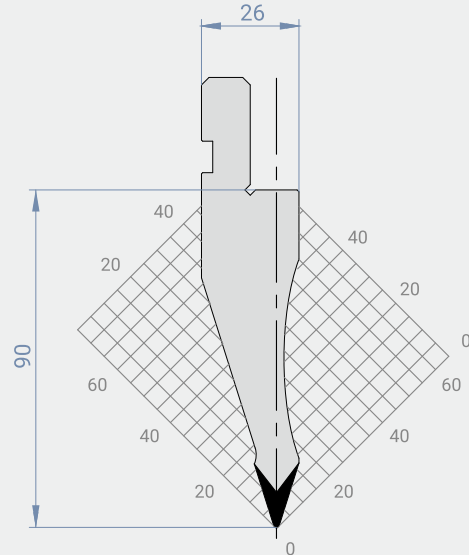
FMP.90.35°.R08

700kN/m max.

35°

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

835 mm	12.0 kg
415 mm	6.0 kg
805 mm	12.0 kg



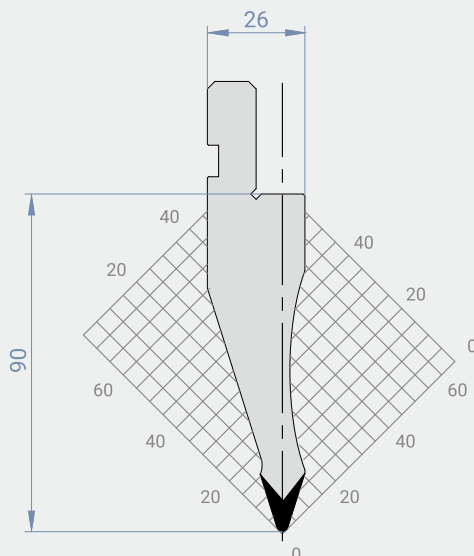
FMP.90.35°.R15

700kN/m max.

35°

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

835 mm	12.0 kg
415 mm	6.0 kg
805 mm	12.0 kg



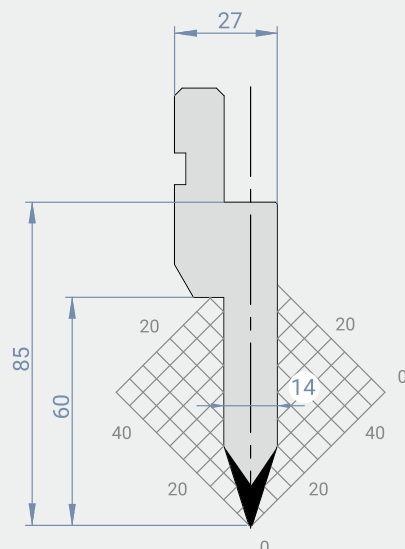
FMP.85.35°.R08

1000kN/m max.

35°

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

835 mm	10.0 kg
415 mm	5.0 kg
805 mm	10.0 kg



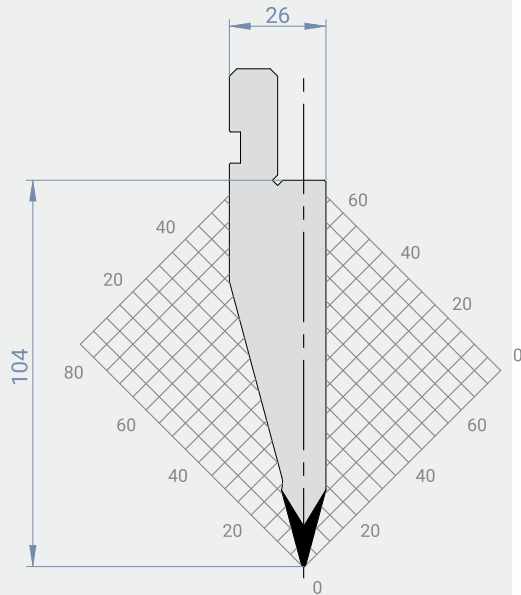
FMP.104.30°.R06

1000KN/m max.

30°

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

835 mm	16.0 kg
415 mm	8.0 kg
805 mm	16.0 kg



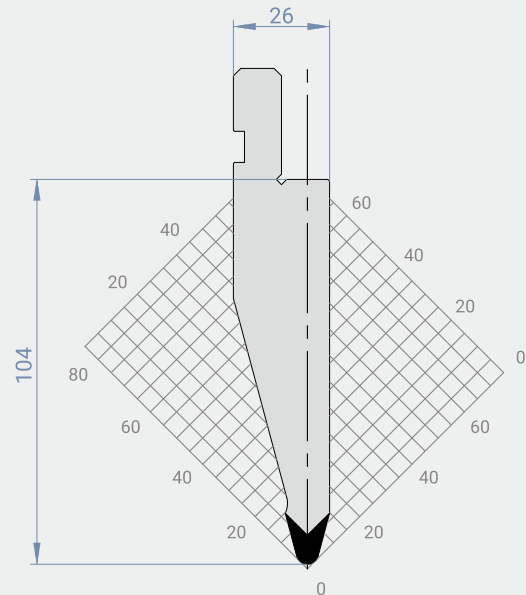
FMP.104.30°.R3

1000KN/m max.

30°

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

835 mm	16.0 kg
415 mm	8.0 kg
805 mm	16.0 kg



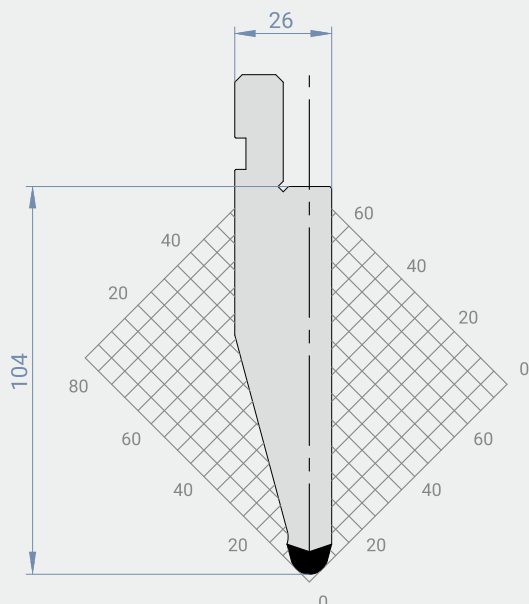
FMP.104.30°.R5

1000KN/m max.

30°

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

835 mm	16.0 kg
415 mm	8.0 kg
805 mm	16.0 kg



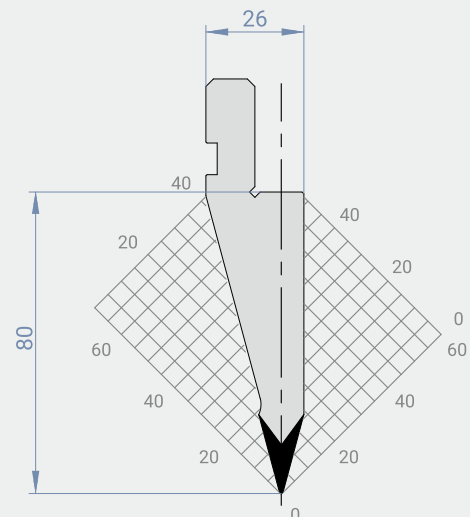
FMP.80.30°.R05

1000KN/m max.

30°

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

835 mm	10.0 kg
415 mm	5.0 kg
805 mm	10.0 kg



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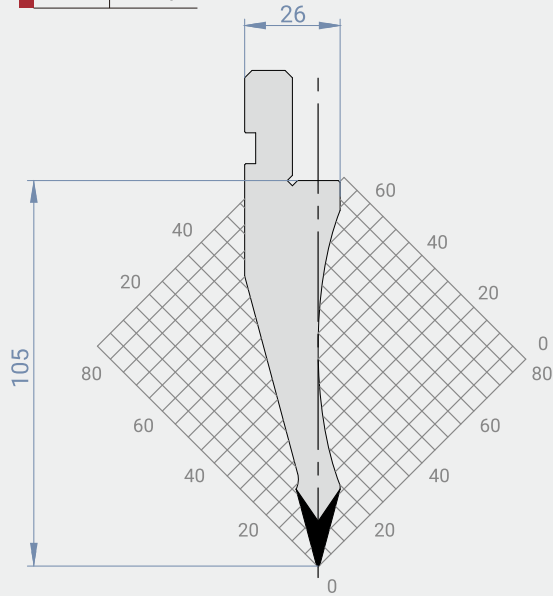
FMP.105.30°.R05

500KN/m max.

30°

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

835 mm	11.0 kg
415 mm	5.0 kg
805 mm	11.0 kg



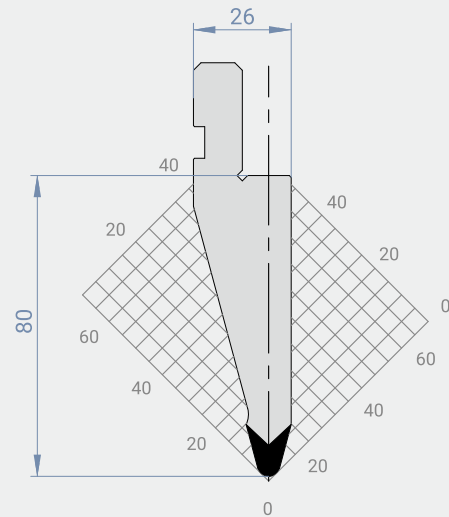
FMP.80.30°.R3

1000KN/m max.

30°

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

835 mm	11.0 kg
415 mm	4.5 kg
805 mm	11.0 kg



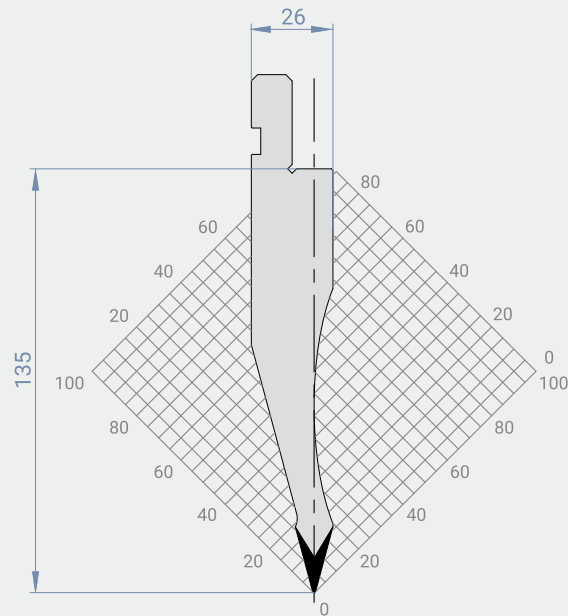
FMP.135.30°.R05

500KN/m max.

30°

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

835 mm	19.0 kg
415 mm	9.0 kg
805 mm	19.0 kg



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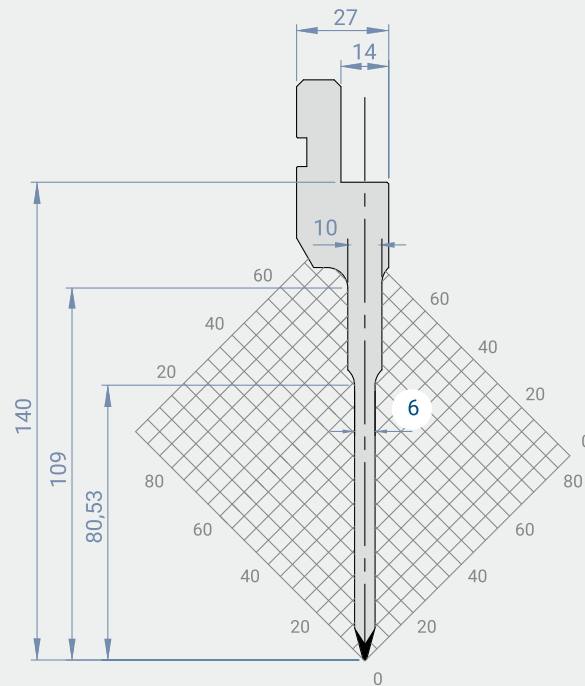
FMP.140.30°.R06

400KN/m max.

30°

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

835 mm	11.0 kg
415 mm	5.0 kg
805 mm	11.0 kg



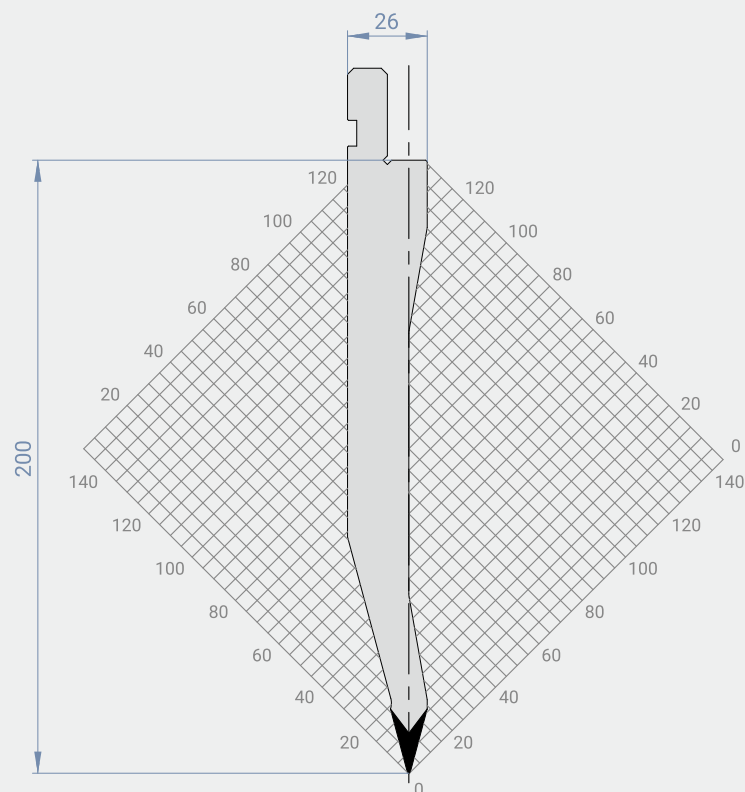
FMP.200.30°.R05

500KN/m max.

30°

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

835 mm	25.0 kg
415 mm	13.0 kg
805 mm	25.0 kg



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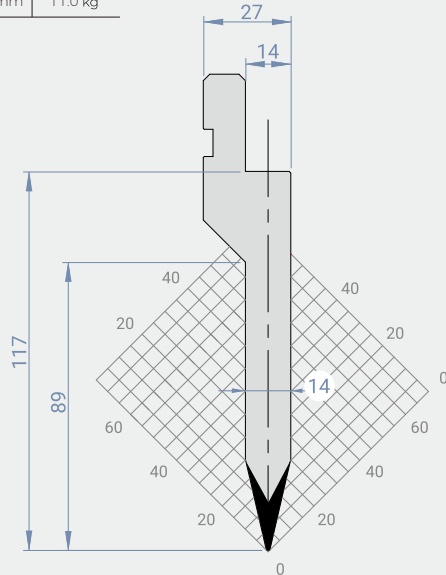
FMP.117.26°.R1

1000KN/m max.

26°

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

835 mm	11.0 kg
415 mm	5.0 kg
805 mm	11.0 kg



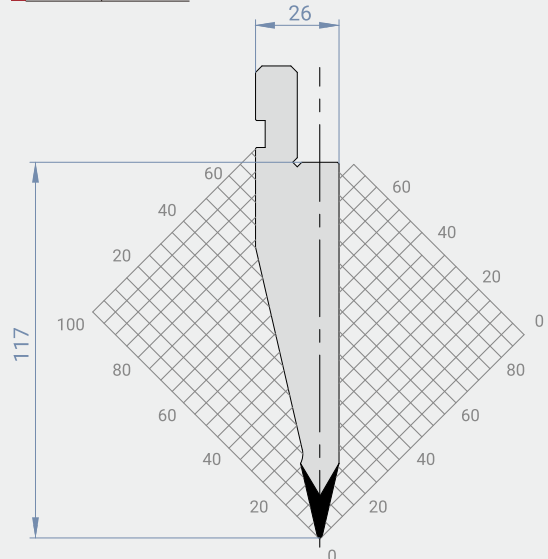
FMP.117.26°.R08

1000KN/m max.

26°

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

835 mm	11.0 kg
415 mm	4.5 kg
805 mm	11.0 kg



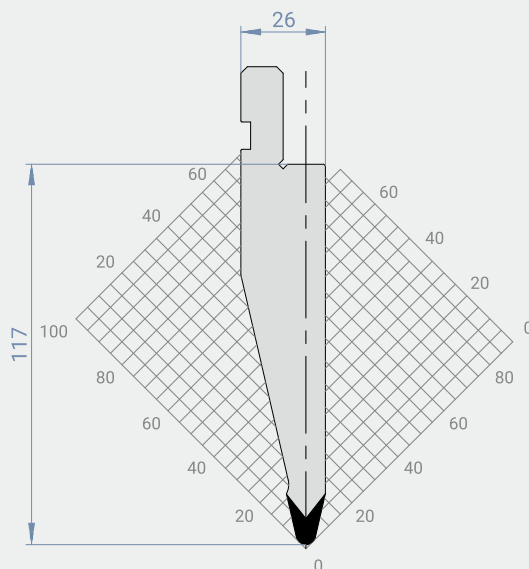
FMP.117.26°.R3

1000KN/m max.

26°

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

835 mm	16.0 kg
415 mm	8.0 kg
805 mm	16.0 kg



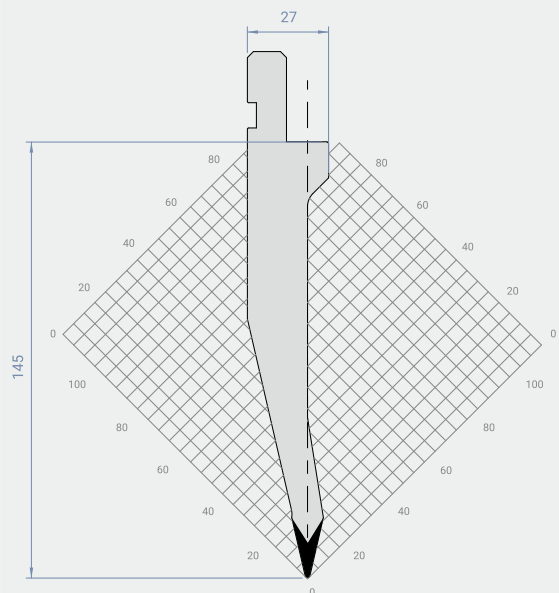
FMP.145.26°.R08

1000KN/m max.

26°

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

835 mm	17.0 kg
415 mm	9.0 kg
805 mm	17.0 kg



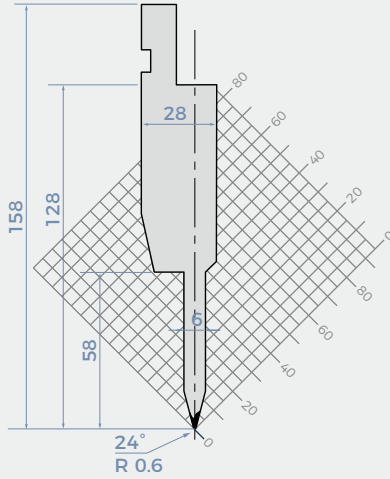
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FMHP.128.24°.6

900-1150N/mm².

24°

835 mm	18.0 kg
415 mm	9.0 kg

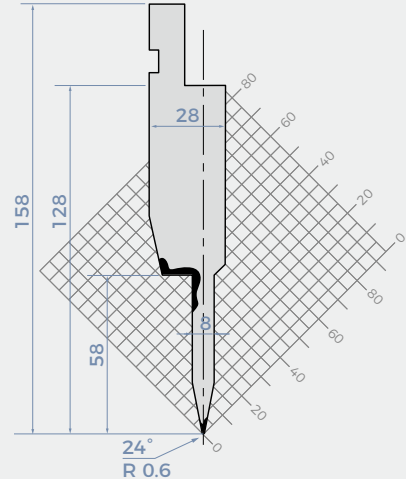


FMHP.128.24°.8

900-1150N/mm².

24°

835 mm	18.0 kg
415 mm	9.0 kg

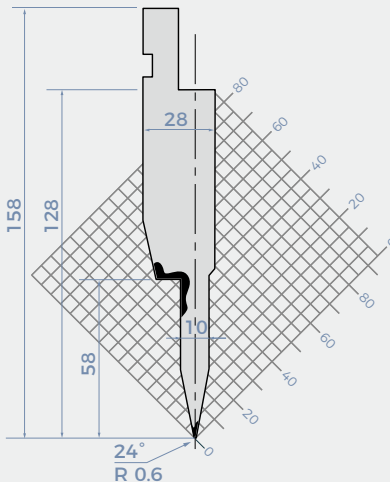


FMHP.128.24°.10

900-1150N/mm².

24°

835 mm	18.0 kg
415 mm	9.0 kg

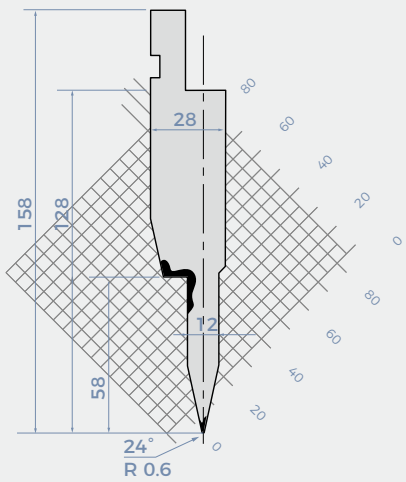


FMHP.128.24°.12

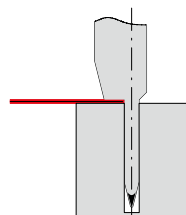
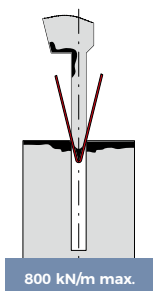
900-1150N/mm².

24°

835 mm	18.0 kg
415 mm	9.0 kg



Ex. of Application



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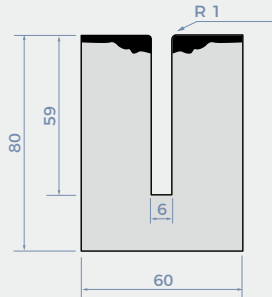
S [mm]	A [mm]	R420 N/mm ² kN/m	R700 N/mm ² kN/m
0.6	3.0	90	150
0.8	3.0	120	200
1.0	3.5	150	250
1.2	3.5	170	260

FMHD.80.6

900-1150N/mm².

24°

835 mm	27.0 kg
415 mm	13.0 kg

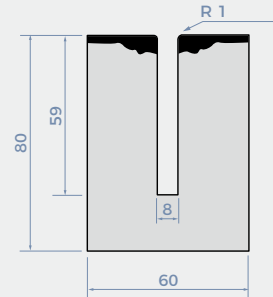


FMHD.80.8

900-1150N/mm².

24°

835 mm	27.0 kg
415 mm	13.0 kg

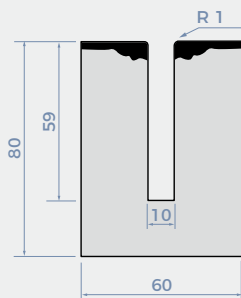


FMHD.80.10

900-1150N/mm².

24°

835 mm	27.0 kg
415 mm	13.0 kg

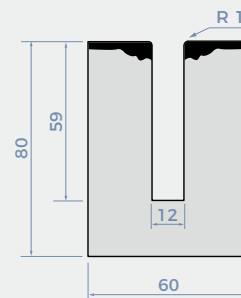


FMHD.80.12

900-1150N/mm².

24°

835 mm	27.0 kg
415 mm	13.0 kg

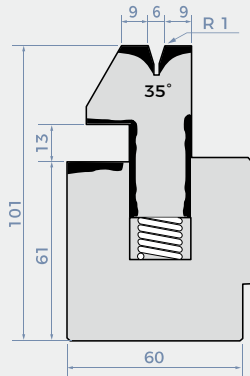


FMHD.101.35°.6

600KN/m max.

35°

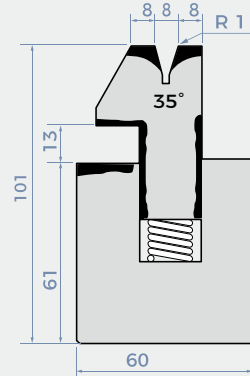
835mm	30.0 kg
415mm	15.4 kg


FMHD.101.35°.8

600KN/m max.

35°

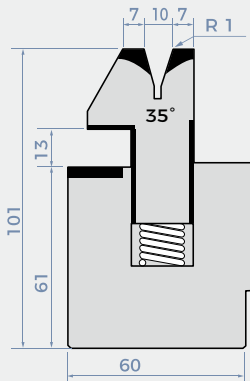
835mm	30.0 kg
415mm	15.0 kg


FMHD.101.35°.10

600KN/m max.

35°

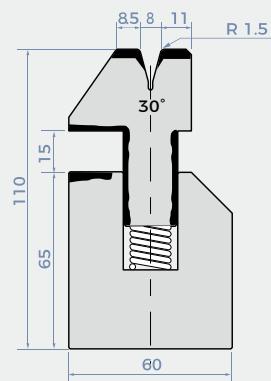
835mm	30.0 kg
415mm	15.5 kg


FMHD.110.30°.8

800KN/m max.

30°

835mm	30.0 kg
415mm	15.0 kg

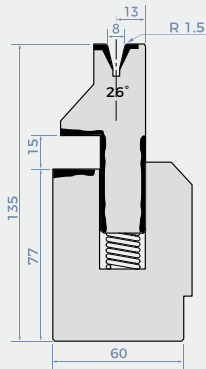


FMHD.135.26°.8

400KN/m max.

26°

835 mm	39.8 kg
415 mm	21.0 kg

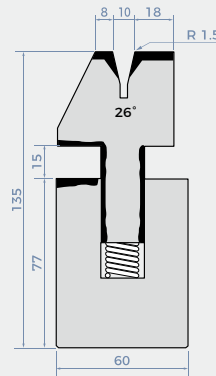


FMHD.135.26°.10

1000KN/m max.

26°

835 mm	41.5 kg
415 mm	20.7 kg



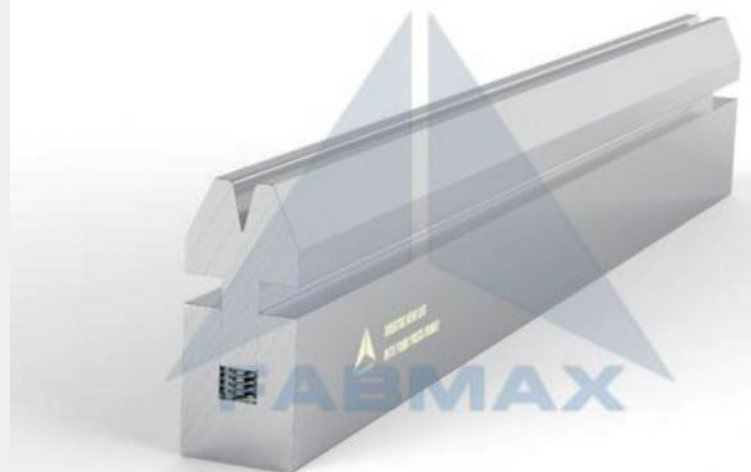
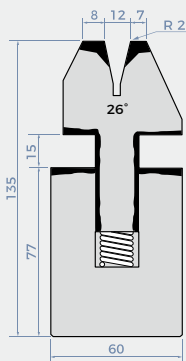
PUNCHES

FMHD.135.26°.12

1000KN/m max.

26°

835 mm	41.0 kg
415 mm	20.5 kg



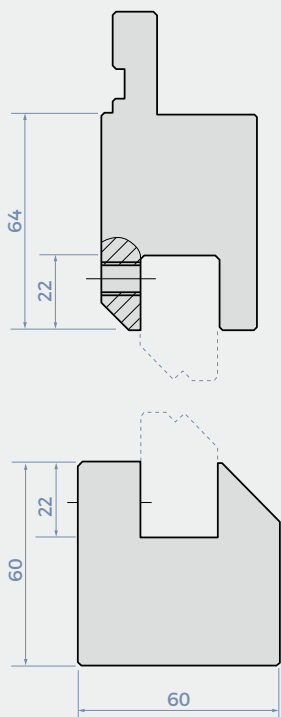
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FMZ

1000KN/m max.

88°

415 mm	5.0 kg
835 mm	11.0 kg



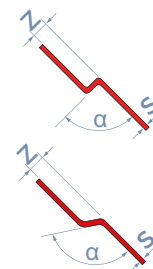
PUNCHES

500KN/m max.

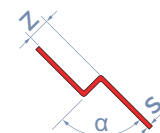
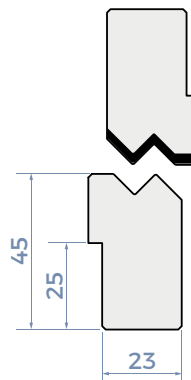
Model	Z [mm]	α	S [mm]	Weight	Weight	
CEZ 1.0	1.0	160°	1.2	11.0 kg	5.5 kg	A
CEZ 1.5	1.5	160°	1.5	11.0 kg	5.5 kg	A
CEZ 2.0	2.0	150°	1.4	11.0 kg	5.5 kg	A
CEZ 2.5	2.5	140°	1.3	11.0 kg	5.5 kg	A
CEZ 1.0/90	1.0	90°	0.3	11.0 kg	5.5 kg	A
CEZ 1.5/90	1.5	90°	0.3	11.0 kg	5.5 kg	A
CEZ 2.0/90	2.0	90°	0.4	11.0 kg	5.5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

 $F_e R_{max} = 420 \text{ N/mm}^2$

A



B

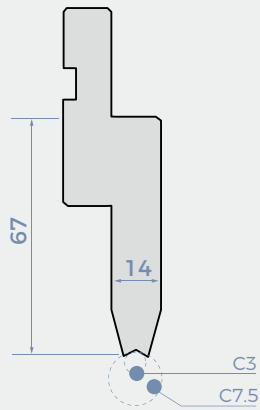


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FMR.67.14A

400KN/m max.

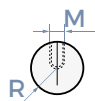
835 mm	9.7 kg
835 mm	9.7 kg



PUNCHES

500KN/m max.

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

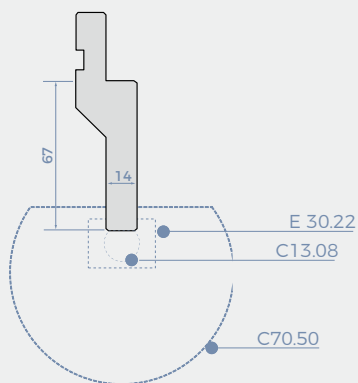


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FMR.67.14B

800KN/m max.

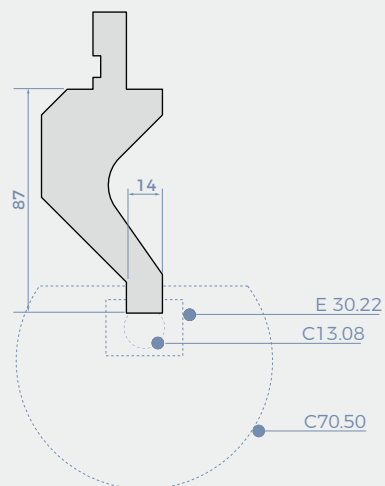
835 mm	9.0 kg
835 mm	9.0 kg



FMR.87.14

800KN/m max.

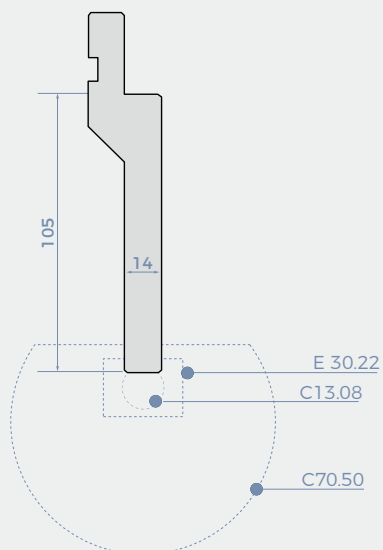
835 mm	9.0 kg
835 mm	9.0 kg



FMR.105.14

800KN/m max.

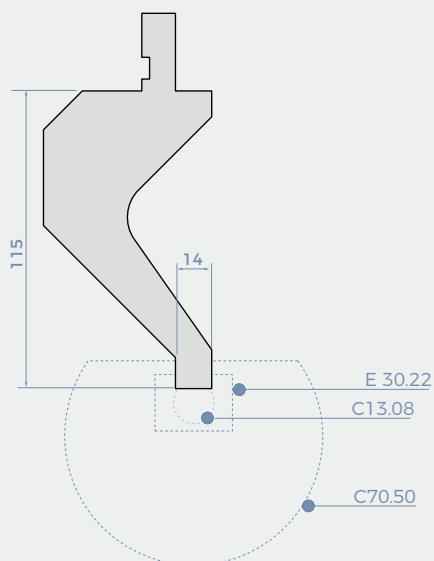
835 mm	12.0 kg
835 mm	12.0 kg

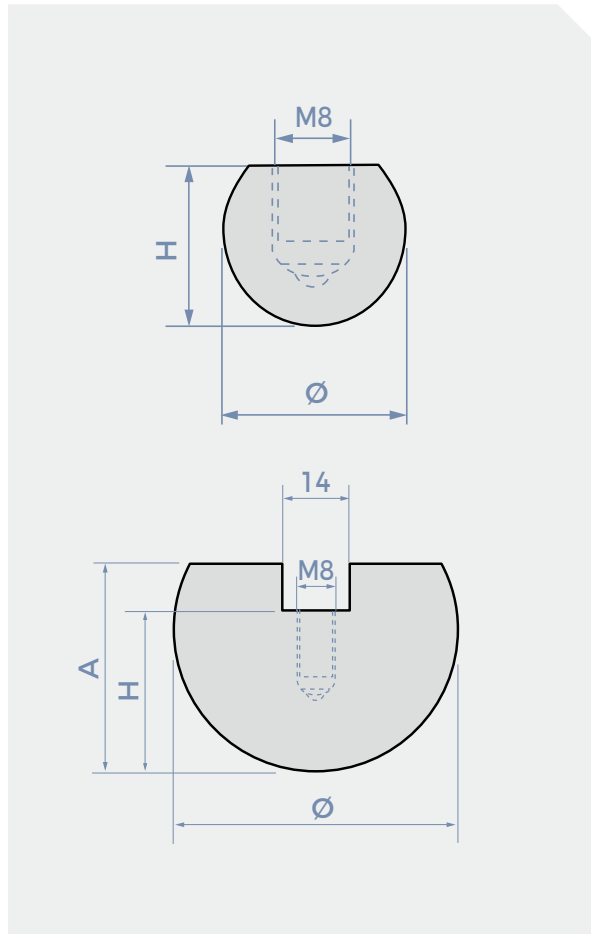


FMR.115.14

800KN/m max.

835 mm	26.0 kg
835 mm	26.0 kg

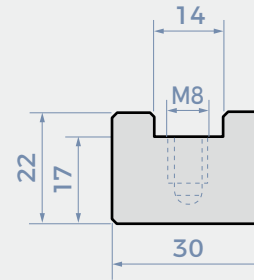




FMP.D30.14

500KN/m max.

805 mm	3.5 kg
835 mm	3.5 kg



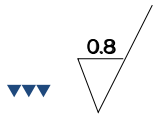
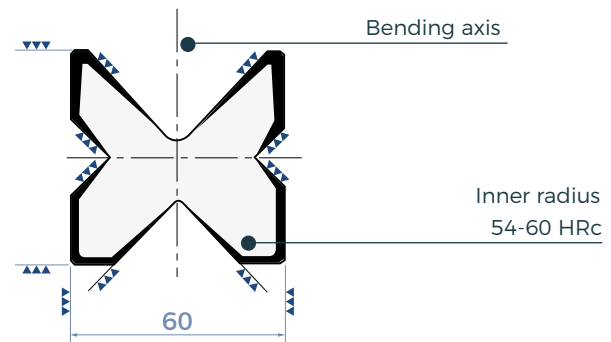
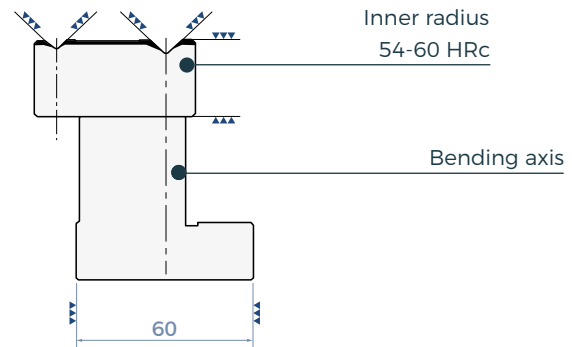
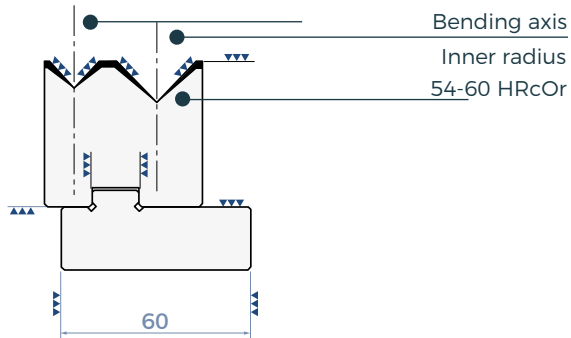
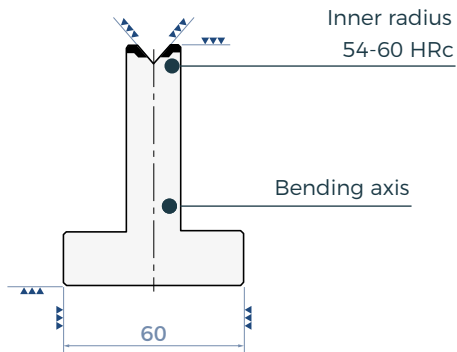
PUNCHES

See table						
Model	Z [mm]	H [mm]	A [mm]	Weight		
C13.08	16	13	-	835mm	1.0kg	1.0kg
C13.09	18	16	-		1.0kg	1.0kg
C16.10	20	16	-		1.0kg	1.0kg
C17.12	25	17	22		1.2kg	1.2kg
C20.15	30	20	27		1.8kg	1.8kg
C22.17	35	22	32		2.4kg	2.4kg
C24.20	40	24	34		3.5kg	3.5kg
C25.22	45	25	35		3.8kg	3.8kg
C29.25	50	29	39		4.7kg	4.7kg
C34.27	55	34	44		6.2kg	6.2kg
C34.30	60	34	44		6.7kg	6.7kg
C37.32	65	37	47		7.9kg	7.9kg
C45.35	70	45	55	415mm	10.0kg	10.0kg
C42.37	75	42	52		10.3kg	10.3kg
C45.40	80	45	55		11.5kg	11.5kg
C60.45	90	60	70		17.0kg	17.0kg
C70.50	100	70	80		21.7kg	21.7kg

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STANDARD TANG

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

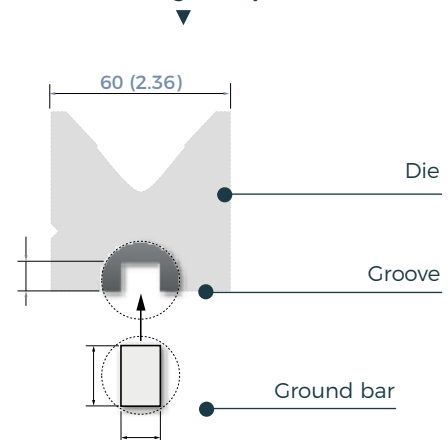


MODIFICATIONS WEDGE/BAR TAIL

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

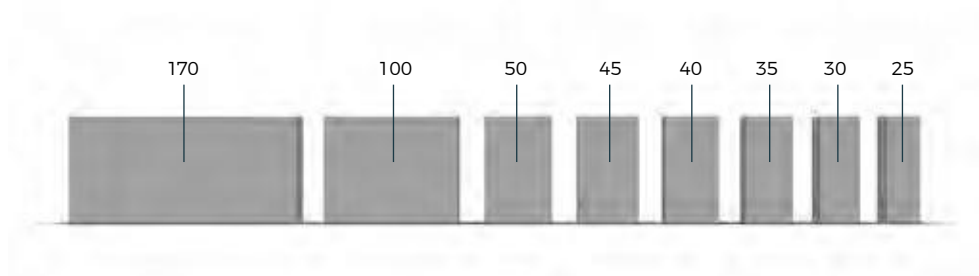
► PUNCHES

525 mm	
415 mm	
835 mm	
900 mm	

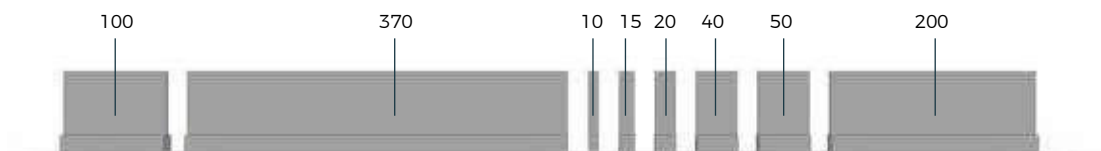
SEGMENTATION

► PUNCHES

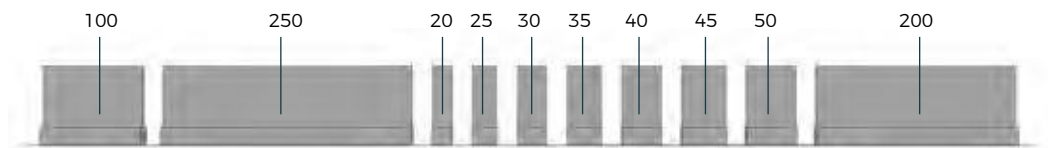
FC: 495 mm - 8 segments



F: 805 mm - 8 segments



FX: 795 mm - 10 segments

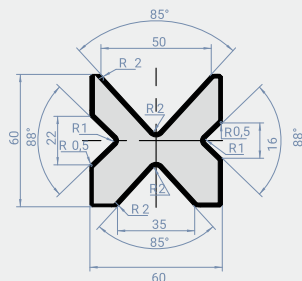


FMM.460.R

800KN/m max.

85-88°

835 mm	16.0 kg
415 mm	8.0 kg
805 mm	16.0 kg

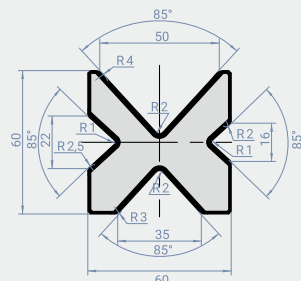


FMM.460

800KN/m max.

85°

835 mm	16.0 kg
415 mm	8.0 kg
805 mm	16.0 kg

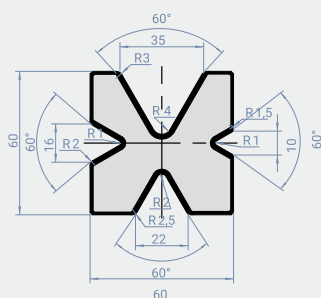


FMM.460.60

600KN/m max.

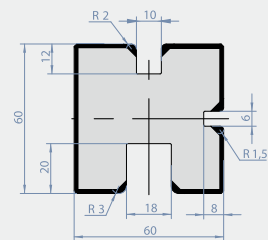
60°

835 mm	18.0 kg
415 mm	9.0 kg
805 mm	18.0 kg



FMM.360.R

1000KN/m max.

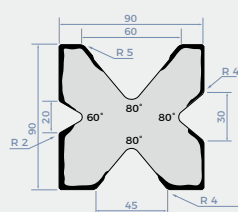


FMM.490

1000KN/m max.

60-80°

835 mm	38.9 kg
415 mm	17.9 kg
835 mm	39.0 kg

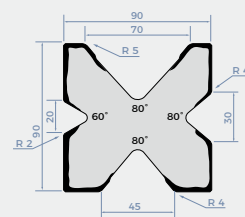


FMM.490.70

600KN/m max.

60-80°

835 mm	35.8 kg
415 mm	17.9 kg
835 mm	36.0 kg





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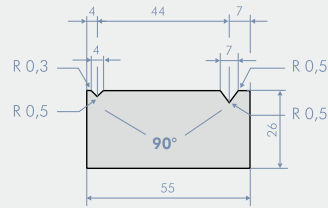
34 PAGE

FMD.26.90°.0407

1000KN/m max.

90°

835 mm	9.5 kg
415 mm	4.7 kg

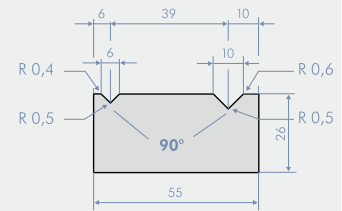


FMD.26.90°.0610

1000KN/m max.

90°

835 mm	9.0 kg
415 mm	4.5 kg

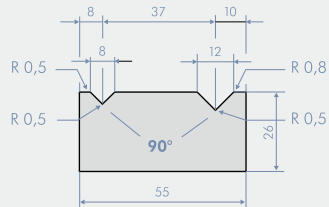


FMD.26.90°.0812

1000KN/m max.

90°

835 mm	9.0 kg
415 mm	4.5 kg

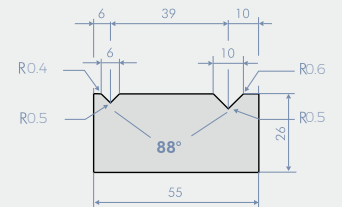


FMD.26.88°.0610

1000KN/m max.

88°

835 mm	9.0 kg
415 mm	4.5 kg

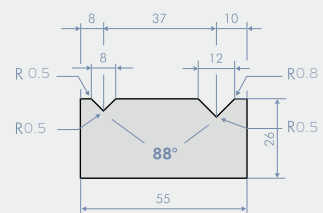


FMD.26.88°.0812

1000KN/m max.

88°

835 mm	9.0 kg
415 mm	4.5 kg

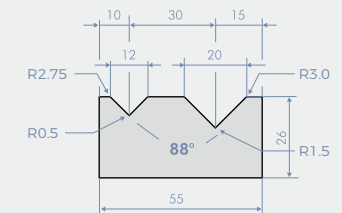


FMD.26.88°.1220

1000KN/m max.

88°

835 mm	8.5 kg
415 mm	4.2 kg

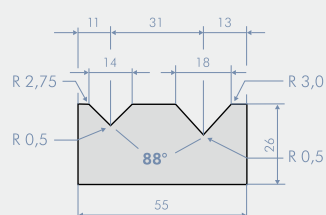


FMD.26.88°.1418

1000KN/m max.

88°

835 mm	9.0 kg
415 mm	4.5 kg

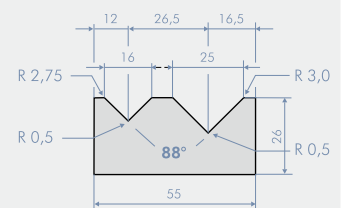


FMD.26.88°.1625

1000KN/m max.

88°

835 mm	8.0 kg
415 mm	4.0 kg

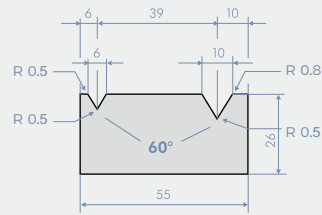


FMD.26.60°.0610

600KN/m max.

60°

835 mm	9.0 kg
415 mm	4.5 kg

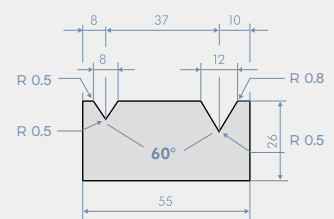


FMD.26.60°.0812

600KN/m max.

60°

835 mm	8.5 kg
415 mm	4.2 kg

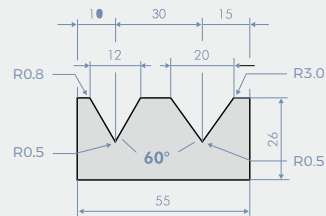


FMD.26.60°.1220

600KN/m max.

60°

835 mm	8.0 kg
415 mm	4.0 kg

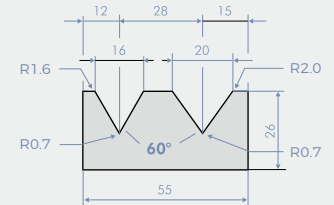


FMD.26.60°.1620

600KN/m max.

60°

835 mm	7.5 kg
415 mm	3.7 kg

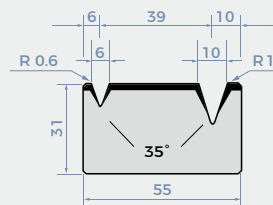


FMD.31.35°.0610

300KN/m max.

35°

835 mm	11.0 kg
415 mm	5.5 kg

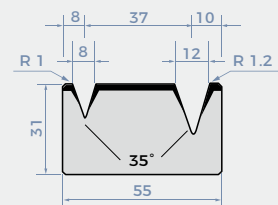


FMD.31.35°.0812

300KN/m max.

35°

835 mm	10.0 kg
415 mm	5.0 kg



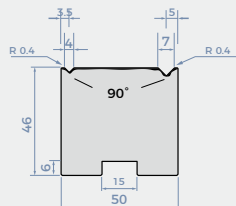
DIES

FMD.46.90°.0407

1000KN/m max.

90°

835mm	14.2 kg
415mm	7.1kg

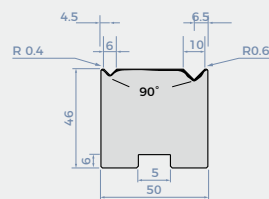


FMD.46.90°.0610

1000KN/m max.

90°

835mm	14.2 kg
415mm	7.1kg

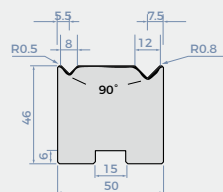


FMD.46.90°.0812

1000KN/m max.

90°

835mm	14.2 kg
415mm	7.1 kg

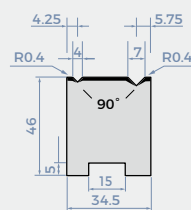


FMD.46.90°.0407

1000KN/m max.

90°

835mm	9.7 kg
415mm	4.8 kg

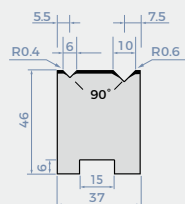


FMD.46.90°.0610

1000KN/m max.

90°

835mm	10.3 kg
415mm	5.2 kg

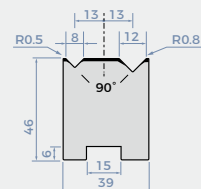


FMD.46.90°.0812

1000KN/m max.

90°

835mm	10.7 kg
415mm	5.3 kg

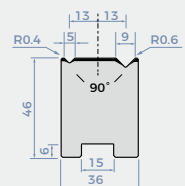


FMD.46.90°.0509

1000KN/m max.

90°

835mm	10.0 kg
415mm	5.0 kg

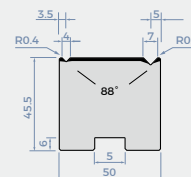


FMD.46.88°.0407

1000KN/m max.

88°

835mm	14.2 kg
415mm	7.1kg

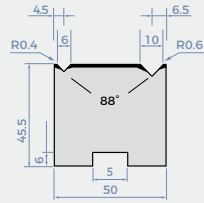


FMD.46.88°.0610

1000KN/m max.

88°

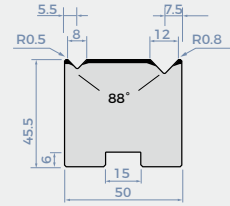
835mm	14.0 kg
415mm	8.4 kg


FMD.46.88°.0812

1000KN/m max.

88°

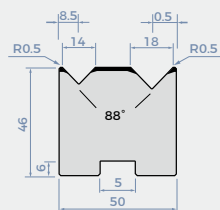
835mm	14.2 kg
415mm	7.1 kg


FMD.46.88°.1418

1000KN/m max.

88°

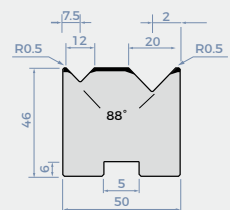
835mm	13.5 kg
415mm	6.7 kg


FMD.46.88°.1220

1000KN/m max.

88°

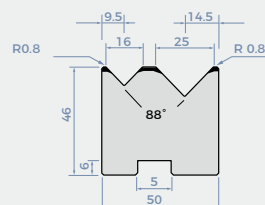
835mm	13.5 kg
415mm	6.7 kg


FMD.46.88°.1625

1000KN/m max.

88°

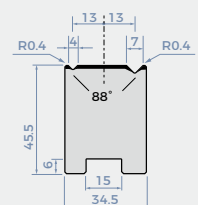
835mm	12.9 kg
415mm	6.4 kg


FMD.46.88°.0407

1000KN/m max.

88°

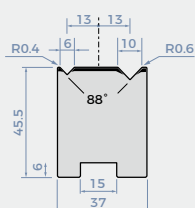
835mm	9.5 kg
415mm	4.8 kg


FMD.46.88°.0610

1000KN/m max.

88°

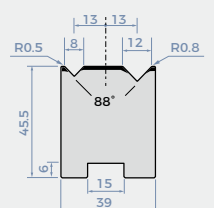
835mm	10.4 kg
415mm	5.2 kg


FMD.46.88°.0812

1000KN/m max.

88°

835mm	10.8 kg
415mm	5.3 kg

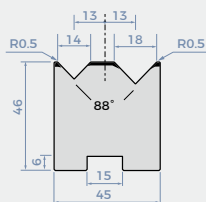


FMD.46.88°.1418

1000KN/m max.

88°

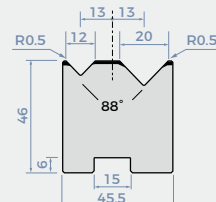
835mm	12.0 kg
415mm	5.3 kg
835mm	12.0 kg


FMD.46.88°.1220

700KN/m max.

88°

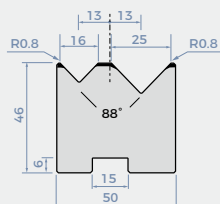
835mm	12.2 kg
415mm	6.1 kg
835mm	12.2 kg


FMD.46.88°.1625

1000KN/m max.

88°

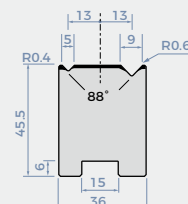
835mm	13.0 kg
415mm	6.5 kg
835mm	13.0 kg


FMD.46.88°.0509

600KN/m max.

88°

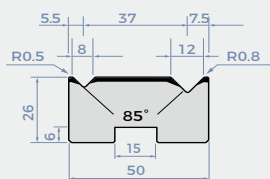
835mm	10.0 kg
415mm	5.0 kg
835mm	10.0 kg


FMD.26.85°.0812

1000KN/m max.

85°

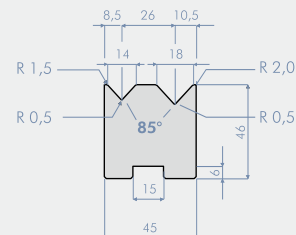
835mm	9.0 kg
415mm	4.5 kg
835mm	9.0 kg


FMD.46.85°.1418

800KN/m max.

85°

835mm	12.0 kg
415mm	6.0 kg
835mm	12.0 kg

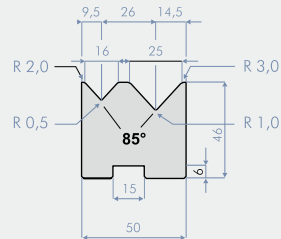


FMD.46.85°.1625

800KN/m max.

85°

835 mm	13.0 kg
415 mm	6.5 kg
835 mm	13.0 kg

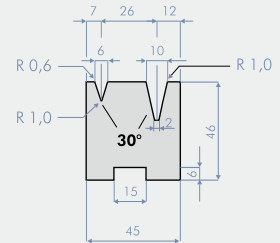


FMD.46.30°.0610

600KN/m max.

30°

835 mm	12.5 kg
415 mm	6.2 kg
835 mm	12.5 kg

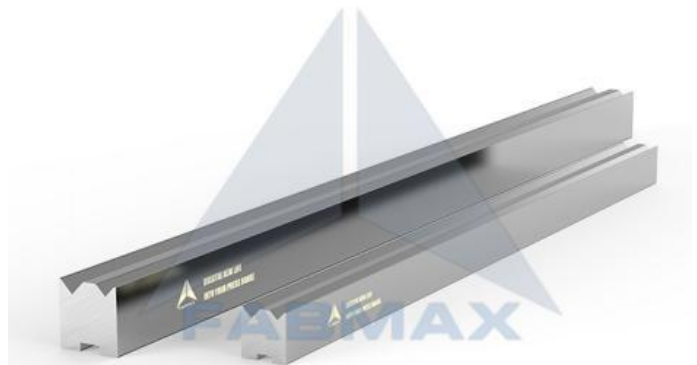
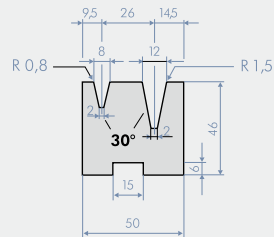


FMD.46.30°.0812

400KN/m max.

30°

835 mm	13.0 kg
415 mm	6.5 kg
835 mm	13.0 kg



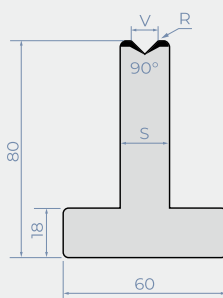
DIES

H=80mm

1000KN/m max.

Model	V [mm]	R [mm]	S [mm]		Weight		Weight		Weight
FMT.80.90°.06	6	0.4	14	835 mm	13.0 kg	415 mm	6.5 kg	805 mm	13.0 kg
FMT.80.90°.08	8	0.5	14		13.0 kg		6.5 kg		13.0 kg
FMT.80.90°.10	10	0.6	18		14.2 kg		7.0 kg		13.7 kg
FMT.80.90°.12	12	0.8	18		15.0 kg		7.5kg		15.0 kg

90°

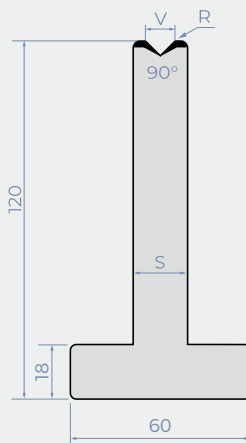


H=120mm

1000KN/m max.

Model	V [mm]	R [mm]	S [mm]		Weight		Weight		Weight
FMT.120.90°.06	6	0.4	14	835 mm	16.0 kg	415 mm	8.0 kg	805 mm	15.2 kg
FMT.120.90°.08	8	0.5	14		16.0 kg		8.0 kg		16.0 kg
FMT.120.90°.10	10	0.6	18		19.0 kg		9.0 kg		18.1 kg
FMT.120.90°.12	12	0.8	18		18.0 kg		9.0 kg		18.1 kg

90°



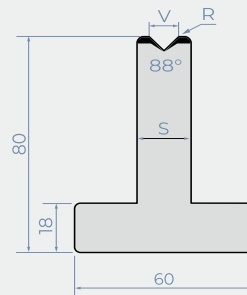
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H=80mm

1000KN/m max.

88°

Model	V [mm]	R [mm]	S [mm]		Weight		Weight		Weight
FMT.80.88°.06	6	0.4	14	835 mm	13.0 kg	415 mm	6.5 kg	805 mm	12.5 kg
FMT.80.88°.06A	6	2.75	14		13.0 kg		6.5 kg		12.5 kg
FMT.80.88°.08	8	0.5	14		12.6 kg		6.3 kg		12.1 kg
FMT.80.88°.08A	8	2.75	14		13.0 kg		6.5 kg		13.0 kg
FMT.80.88°.10	10	0.8	18		14.2 kg		7.0 kg		13.7 kg
FMT.80.88°.10A	10	2.75	18		15.0 kg		7.5 kg		15.0 kg
FMT.80.88°.12	12	2.75	18		14.0 kg		7.0 kg		13.5 kg
FMT.80.88°.16	16	2.75	24		16.6 kg		8.3 kg		16.0 kg
FMT.80.88°.20	20	3.0	30	835 mm	18.5 kg	415 mm	9.2 kg	805 mm	17.8 kg
FMT.80.88°.25	25	3.0	35		20.2 kg		10.0 kg		19.5 kg



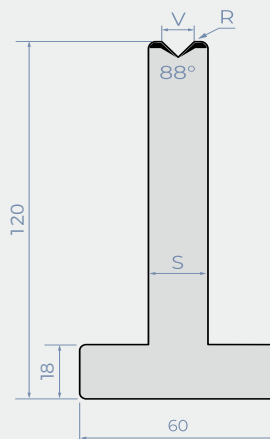
DIES

H=120mm

1000KN/m max.

88°

Model	V [mm]	R [mm]	S [mm]		Weight		Weight		Weight
FMT.120.88°.06	6	0.4	14	835 mm	16.5 kg	415 mm	8.0 kg	805 mm	16.0 kg
FMT.120.88°.06A	6	2.75	14		16.0 kg		8.0 kg		16.0 kg
FMT.120.88°.08	8	0.5	14		16.0 kg		8.0 kg		16.0 kg
FMT.120.88°.08A	8	2.75	14		16.0 kg		8.0 kg		16.0 kg
FMT.120.88°.10	10	0.8	18		19.0 kg		9.5 kg		19.0 kg
FMT.120.88°.10A	10	2.75	18		18.0 kg		9.0 kg		18.0 kg
FMT.120.88°.12	12	2.75	18		19.0 kg		9.0 kg		18.0 kg
FMT.120.88°.16	16	2.75	24		22.0 kg		11.0 kg		22.0 kg
FMT.120.88°.20	20	3.0	30	835 mm	27.0 kg	415 mm	13.5 kg	805 mm	26.0 kg
FMT.120.88°.25	25	3.0	35		30.0 kg		15.0 kg		30.0 kg



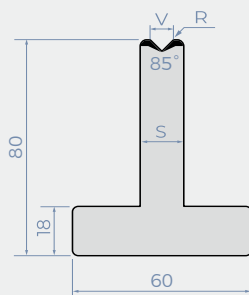
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H=80mm

1000KN/m max.

Model	V [mm]	R [mm]	S [mm]		Weight		Weight		Weight
FMT.80.85°.06	6	2.75	14	835 mm	13.0 kg	415 mm	6.5 kg	805 mm	13.0 kg
FMT.80.85°.08	8	2.75	14		12.6 kg		6.2 kg		12.0 kg
FMT.80.85°.10	10	2.75	18		14.2 kg		7.0 kg		14.0 kg
FMT.80.85°.12	12	2.75	18		14.1 kg		7.0 kg		14.0 kg
FMT.80.85°.16	16	2.75	24	835 mm	16.4 kg	415 mm	8.2 kg	805 mm	15.8 kg
FMT.80.85°.20	20	3.0	30		19.0 kg		9.5 kg		18.0 kg
FMT.80.85°.25	25	3.0	35		20.0 kg		10.0 kg		20.0 kg

85°

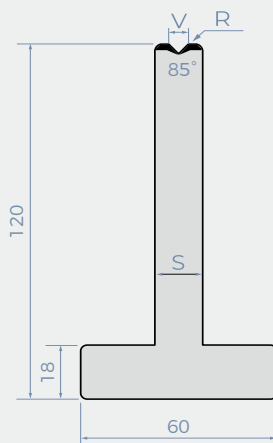


H=120mm

1000KN/m max.

Model	V [mm]	R [mm]	S [mm]		Weight		Weight		Weight
FMT.120.85°.06	6	2.75	14	835 mm	16.3 kg	415 mm	8.1 kg	805 mm	15.7 kg
FMT.120.85°.08	8	2.75	14		16.3 kg		8.1 kg		15.7 kg
FMT.120.85°.10	10	2.75	18		19.0 kg		9.5 kg		19.0 kg
FMT.120.85°.12	12	2.75	18		18.9 kg		9.4 kg		18.2 kg
FMT.120.85°.16	16	2.75	24	835 mm	22.7 kg	415 mm	11.3 kg	805 mm	21.9 kg
FMT.120.85°.20	20	3.0	30		26.4 kg		13.0 kg		25.5 kg
FMT.120.85°.25	25	3.0	35		30.0 kg		15.0 kg		30.0 kg

85°



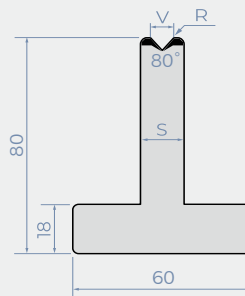
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H=80mm

950KN/m max.

80°

Model	V [mm]	R [mm]	S [mm]		Weight		Weight		Weight
FMT.80.80°06	6	2.75	14	835 mm	13.0 kg	415 mm	6.5 kg	805 mm	13.0 kg
FMT.80.80°08	8	2.75	14		13.0 kg		6.5 kg		13.0 kg
FMT.80.80°10	10	2.75	18		13.0 kg		6.5 kg		13.0 kg
FMT.80.80°12	12	2.75	18		13.0 kg		6.5 kg		13.0 kg
FMT.80.80°16	16	2.75	24		13.0 kg		6.5 kg		13.0 kg
FMT.80.80°20	20	3.0	30		17.0 kg		6.5 kg		12.5 kg
FMT.80.80°25	25	3.0	35		20.0 kg		10.0 kg		20.0 kg



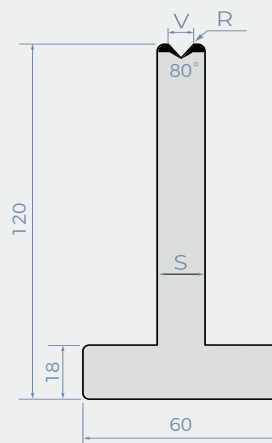
DIES

H=120mm

950KN/m max.

80°

Model	V [mm]	R [mm]	S [mm]		Weight		Weight		Weight
FMT.120.80°06	6	2.75	14	835 mm	18.0 kg	415 mm	9.0 kg	805 mm	17.4 kg
FMT.120.80°08	8	2.75	14		18.0 kg		18.0 kg		18.0 kg
FMT.120.80°10	10	2.75	18		18.0 kg		9.0 kg		17.4 kg
FMT.120.80°12	12	2.75	18		18.0 kg		9.0 kg		17.4 kg
FMT.120.80°16	16	2.75	24		18.0 kg		18.0 kg		18.0 kg
FMT.120.80°20	20	3.0	30		26.3 kg		13.0 kg		25.4 kg
FMT.120.80°25	25	3.0	35		30.0 kg		18.0 kg		18.0 kg



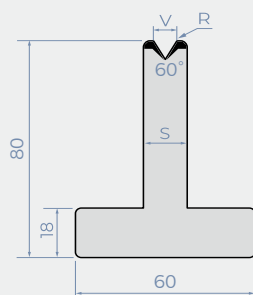
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H=80mm

600KN/m max.

60°

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

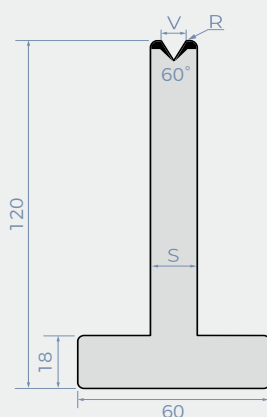


H=120mm

600KN/m max.

60°

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



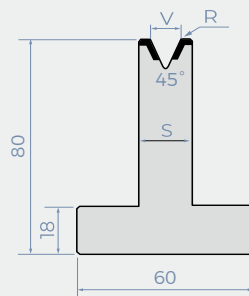
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H=80mm

500KN/m max.

45°

Model	V [mm]	R [mm]	S [mm]		Weight		Weight		Weight
FMT.80.45°06	6	0.8	14	835 mm	13.0 kg	415 mm	6.5 kg	805 mm	12.5 kg
FMT.80.45°08	8	1.0	18		15.0 kg		7.5 kg		15.0 kg
FMT.80.45°10	10	1.2	18		14.0 kg		7.0 kg		13.5 kg
FMT.80.45°12	12	1.6	24		16.3 kg		8.1 kg		15.7 kg
FMT.80.45°16	16	2.75	26	835 mm	16.6 kg	415 mm	8.3 kg	805 mm	16.0 kg
FMT.80.45°20	20	3.0	30		18.0 kg		9.0 kg		18.0 kg
FMT.80.45°25	25	3.0	37		20.0 kg		10.0 kg		20.0 kg



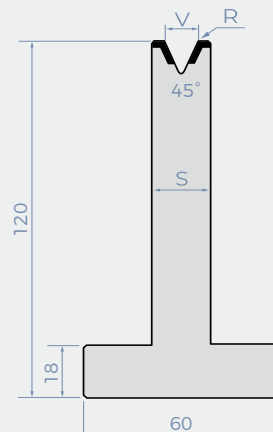
DIES

H=120mm

500KN/m max.

45°

Model	V [mm]	R [mm]	S [mm]		Weight		Weight		Weight
FMT.120.45°06	6	0.8	14	835 mm	16.0 kg	415 mm	8.0 kg	805 mm	16.0 kg
FMT.120.45°08	8	1.0	18		18.0 kg		9.0 kg		18.0 kg
FMT.120.45°10	10	1.2	18		18.0 kg		9.0 kg		18.0 kg
FMT.120.45°12	12	1.6	24		23.0 kg		9.0 kg		18.0 kg
FMT.120.45°16	16	2.75	26	835 mm	25.0 kg	415 mm	12.5 kg	805 mm	25.0 kg
FMT.120.45°20	20	3.0	30		26.0 kg		13.5 kg		25.0 kg
FMT.120.45°25	25	3.0	37		30.0 kg		15.0 kg		28.9 kg



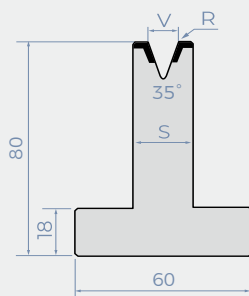
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H=80mm

See table

Model	V [mm]	R [mm]	S [mm]		Weight		Weight		Weight
FMT.80.35°.06	6	0.8	14	835 mm	12.5 kg	415 mm	6.5 kg	805 mm	12.0 kg
FMT.80.35°.08	8	1.0	16		13.0 kg		7.0 kg		14.0 kg
FMT.80.35°.10	10	1.2	20		15.0 kg		7.5 kg		15.0 kg
FMT.80.35°.12	12	1.6	22		15.5 kg		8.0 kg		16.0 kg
FMT.80.35°.16	16	3.0	30	835 mm	18.0 kg	415 mm	8.5 kg	805 mm	17.0 kg
FMT.80.35°.20	20	3.0	35		19.3 kg		9.0 kg		18.0 kg
FMT.80.35°.25	25	3.0	40		20.0 kg		9.9 kg		19.3 kg

35°

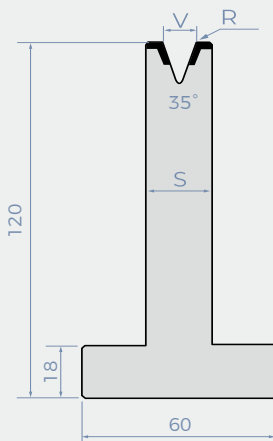


H=120mm

See table

Model	V [mm]	R [mm]	S [mm]		Weight		Weight		Weight
FMT.120.35°.06	6	0.8	14	835 mm	16.0 kg	415 mm	8.0 kg	805 mm	16.0 kg
FMT.120.35°.08	8	1.0	16		18.0 kg		9.0 kg		18.0 kg
FMT.120.35°.10	10	1.2	20		19.9 kg		8.5 kg		19.0 kg
FMT.120.35°.12	12	1.6	22		21.0 kg		10.0 kg		20.0 kg
FMT.120.35°.16	16	3.0	30	835 mm	25.8 kg	415 mm	12.8 kg	805 mm	24.8 kg
FMT.120.35°.20	20	3.0	35		28.0 kg		14.0 kg		28.0 kg
FMT.120.35°.25	25	3.0	40		30.5 kg		15.2 kg		29.4 kg

35°



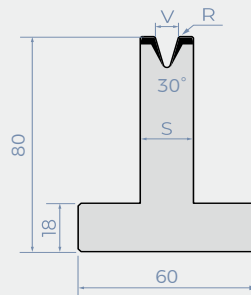
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H=80mm

See table

Model	V [mm]	R [mm]	S [mm]		Weight		Weight		Weight
FMT.80.30°.06	6	0.6	14	835 mm	12.4 kg	415 mm	6.5 kg	805 mm	12.0 kg
FMT.80.30°.08	8	0.8	18		13.0 kg		7.0 kg		14.0 kg
FMT.80.30°.10	10	1.0	24		16.0 kg		8.0 kg		15.0 kg
FMT.80.30°.12	12	1.5	24		16.0 kg		8.0 kg		15.5 kg
FMT.80.30°.16	16	2.0	30		18.0 kg		8.9 kg		17.3 kg
FMT.80.30°.20	20	2.5	35	835 mm	19.0 kg	415 mm	9.5 kg	805 mm	18.0 kg
FMT.80.30°.25	25	3.0	40		20.0 kg		10.0 kg		19.3 kg

30°



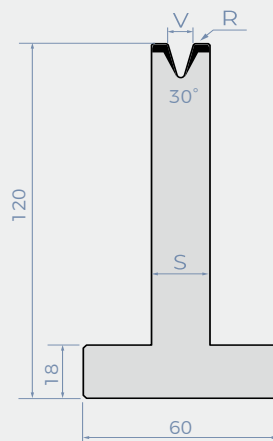
DIES

H=120mm

See table

Model	V [mm]	R [mm]	S [mm]		Weight		Weight		Weight
FMT.120.30°.06	6	0.6	14	835 mm	16.0 kg	415 mm	8.0 kg	805 mm	16.0 kg
FMT.120.30°.08	8	0.8	18		19.0 kg		9.5 kg		19.0 kg
FMT.120.30°.10	10	1.0	18		22.0 kg		10.9 kg		14.5 kg
FMT.120.30°.12	12	1.5	24		22.0 kg		10.0 kg		20.0 kg
FMT.120.30°.16	16	2.0	30		25.8 kg		13.0 kg		25.8 kg
FMT.120.30°.20	20	2.5	35	835 mm	28.0 kg	415 mm	14.0 kg	805 mm	28.0 kg
FMT.120.30°.25	25	3.0	40		30.5 kg		15.0 kg		30.5 kg

30°



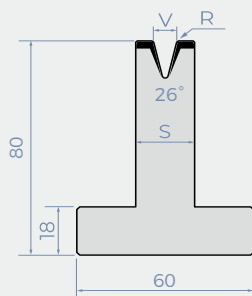
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H=80mm

200KN/m max.

26°

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

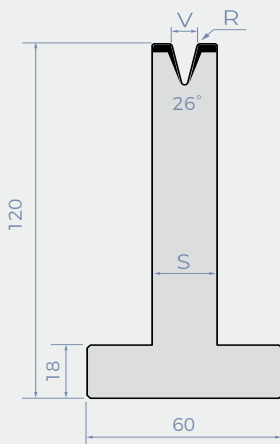


H=120mm

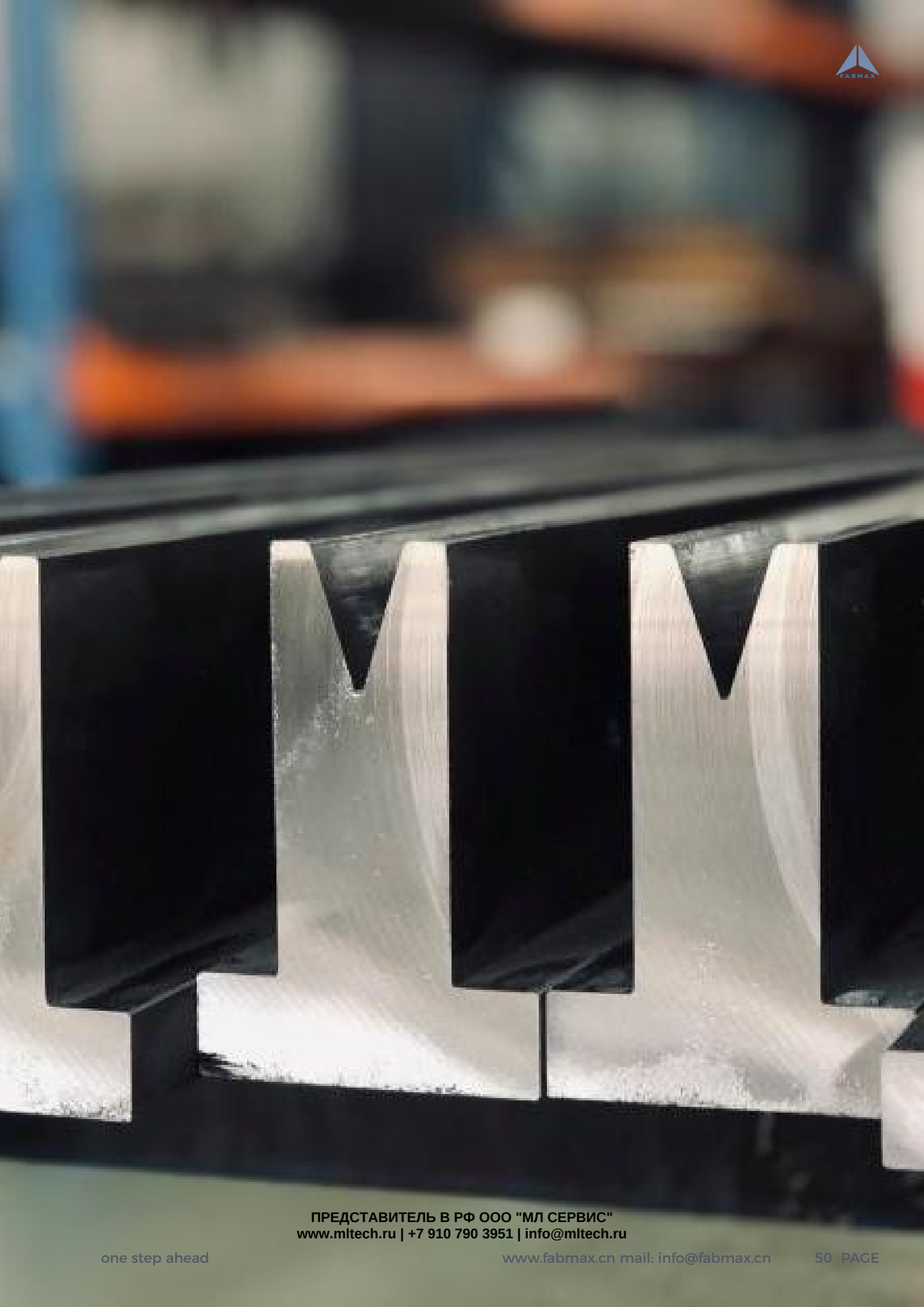
200KN/m max.

26°

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



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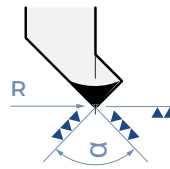
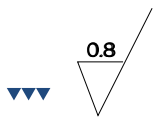
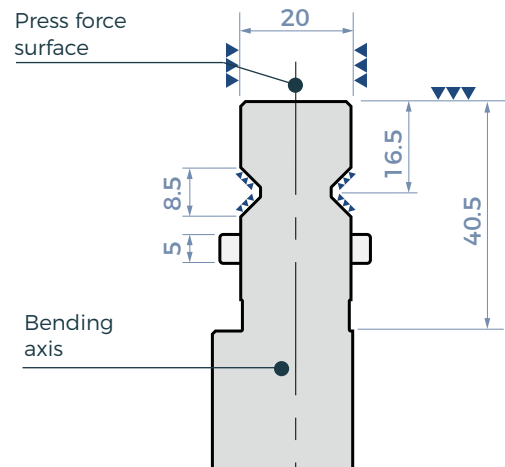
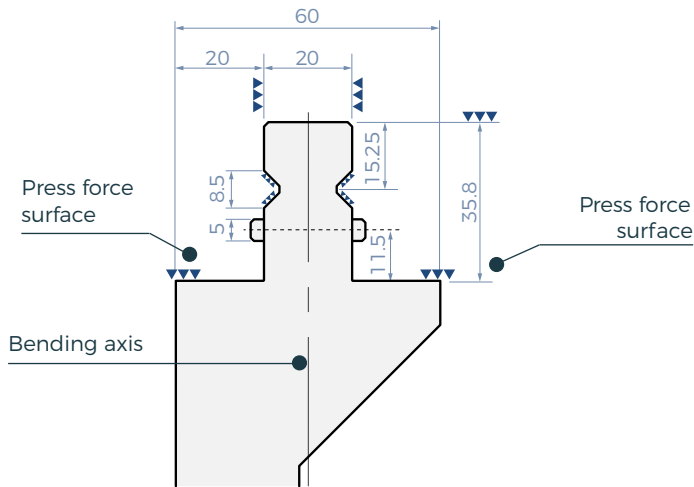
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one step ahead

www.fabmax.cn mail: info@fabmax.cn

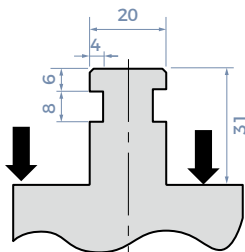
50 PAGE

STANDARD TANG

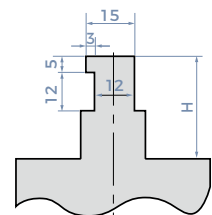
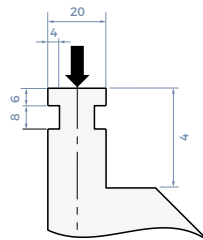


MODIFICATIONS FROM SAFETY GROOVES

Modification of Fabmax punch with shoulder bearing



Modification of Fabmax punch with head bearing



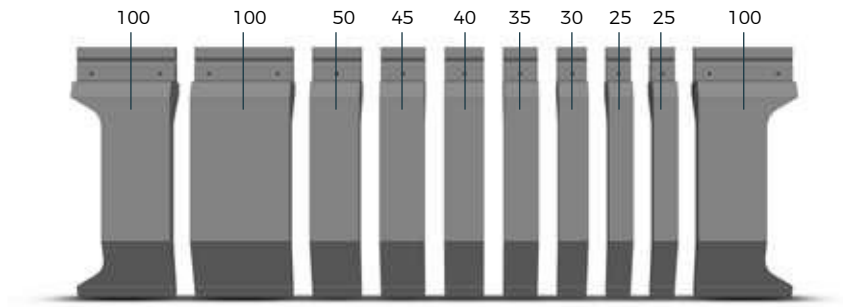
STANDARD LENGTH

100 mm	
250 mm	
500 mm	
515 mm	
525 mm	

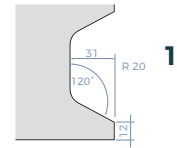
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SEGMENTATION

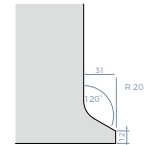
FW: 550 mm - 10 segments



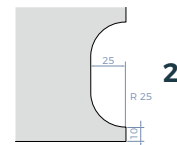
Horn types



1

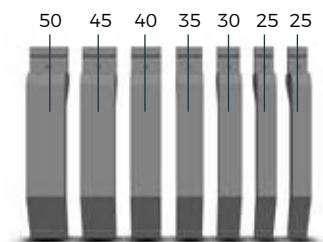


1/A

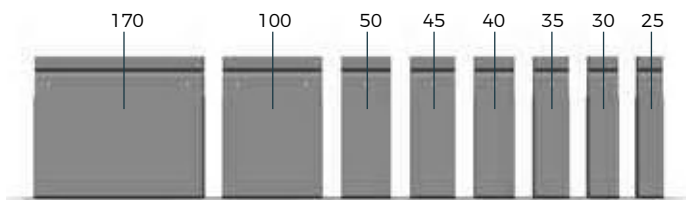


2

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	100	100	100
							Horn l.	Horn 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	100	100	100	200	300	500
							Horn l.	Horn 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

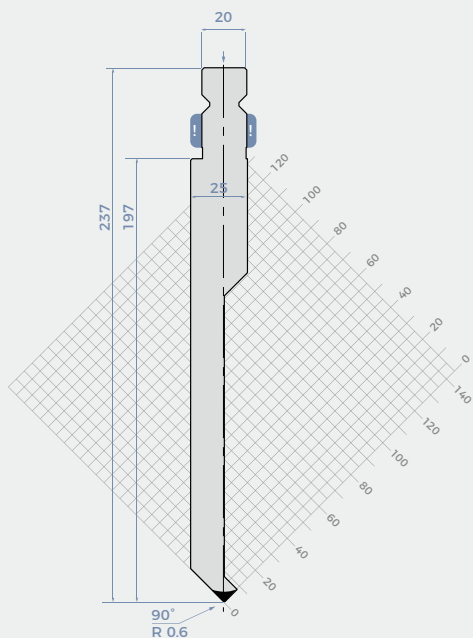
Available on request

FMWP.197.90°.R06

600KN/m max.

90°

515 mm	17.5 kg
550 mm	18.7 kg

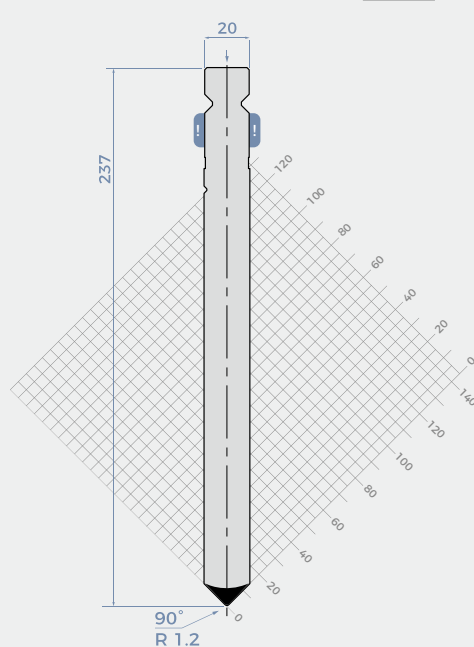


FMWP.197.90°.R12

1000KN/m max.

90°

515 mm	19.0 kg
550 mm	20.3 kg

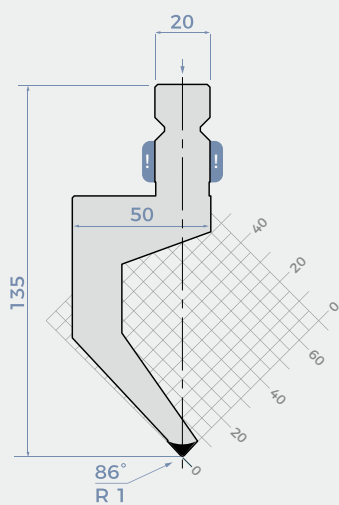


FMWP.95.86°.R1

650KN/m max.

86°

515 mm	12.3 kg
550 mm	13.1 kg

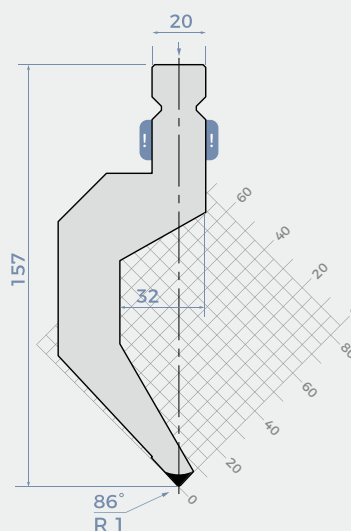


FMWP.117.86°.R1A

800KN/m max.

86°

515 mm	14.0 kg
550 mm	15.0 kg



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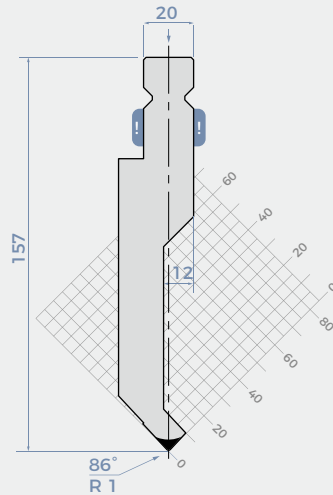
FMWP.117.86°.R1B

800KN/m max.

86°

515mm	12.9 kg
550mm	13.8 kg

1/A



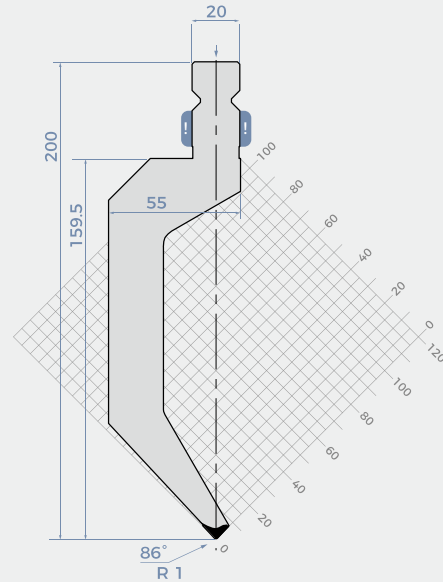
FMWP.160.86°.R1

500KN/m max.

86°

515mm	19.1 kg
550mm	20.4 kg

2



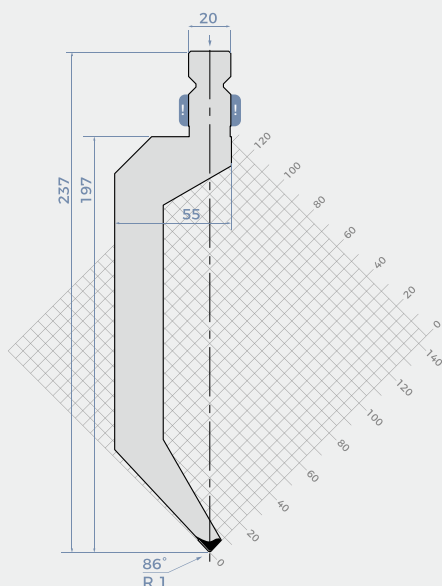
FMWP.197.86°.R1

500KN/m max.

86°

515mm	23.0 kg
550mm	24.6 kg

2



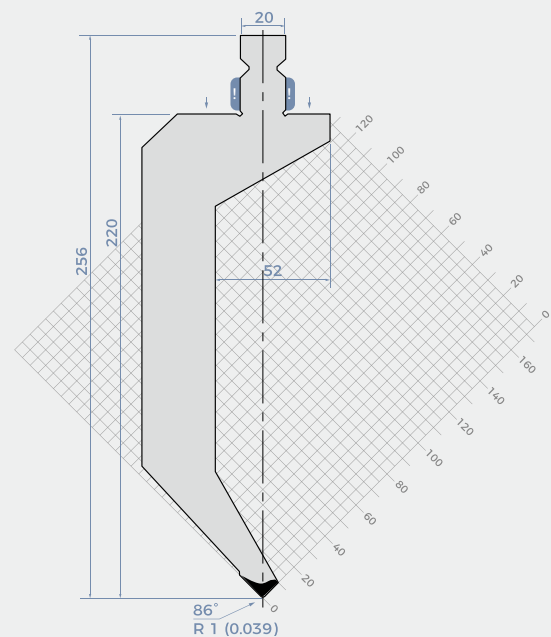
FMWP.220.86°.R1A

800KN/m max.

86°

515mm	31.8 kg
550mm	35.2 kg

1



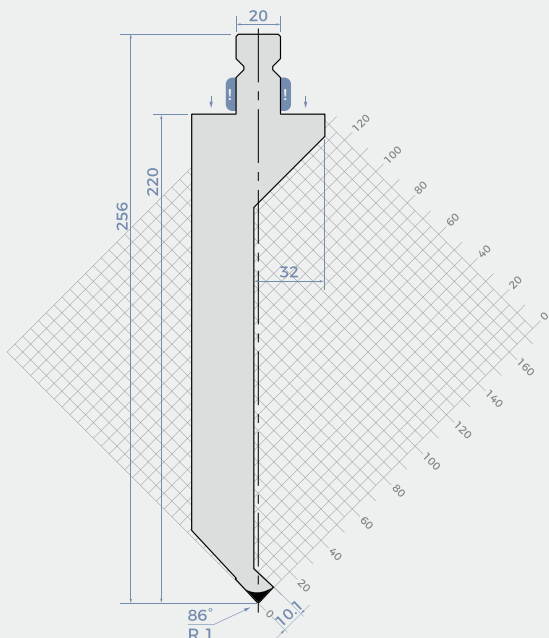
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FMWP.220.86°R1B

800KN/m max.

86°

515 mm	26.7 kg
550 mm	28.5 kg

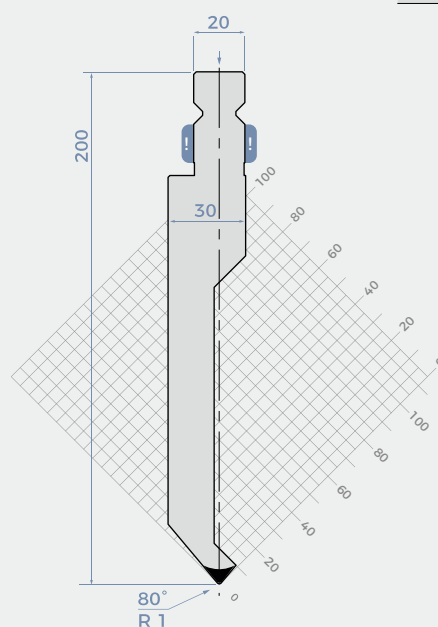


FMWP.160.80°R1

800KN/m max.

80°

515 mm	19.0 kg
550 mm	21.0 kg

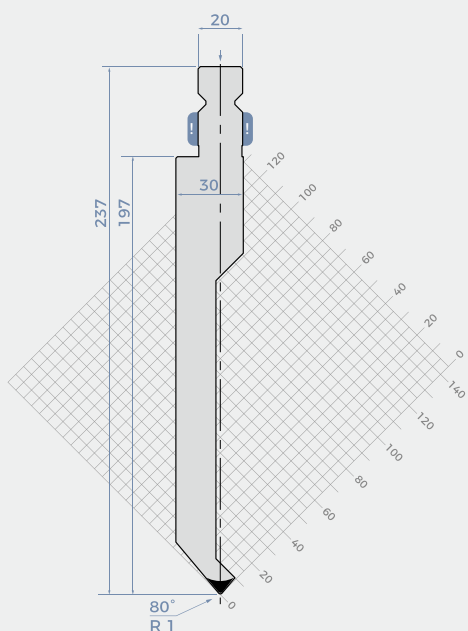


FMWP.197.80°R1

800KN/m max.

80°

515 mm	19.7 kg
550 mm	21.0 kg

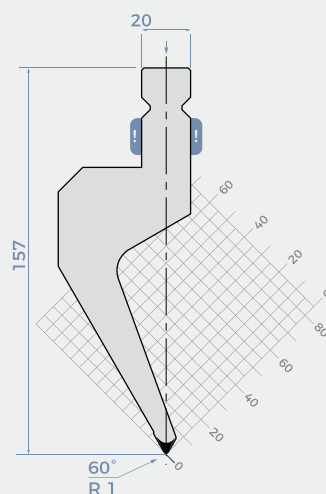


FMWP.117.60°R1

700KN/m max.

60°

515 mm	15.0 kg
550 mm	16.0 kg



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FMWP.160.60°R1

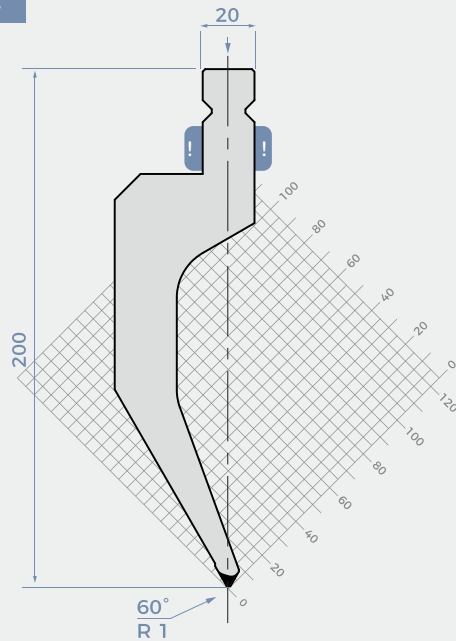
700KN/m max.

60°

515mm	18.3 kg
550mm	20.2 kg

2

NEW



FMWP.197.60°R1

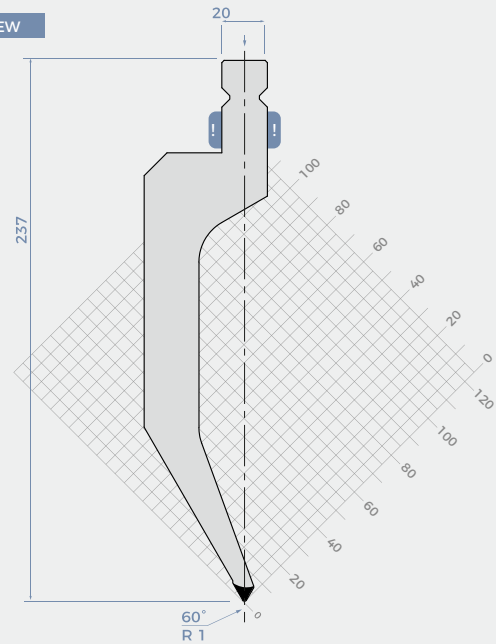
700KN/m max.

60°

515mm	21.6 kg
550mm	23.8 kg

2

NEW



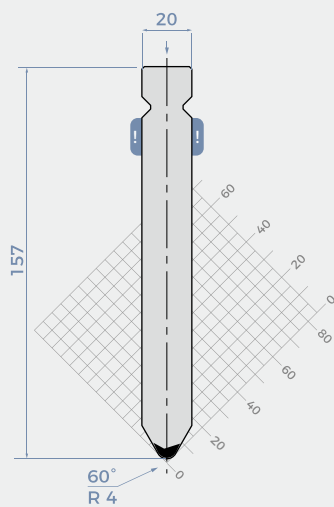
FMWP.117.60°R4

1300KN/m max.

60°

515mm	13.7 kg
550mm	14.9 kg

1/A



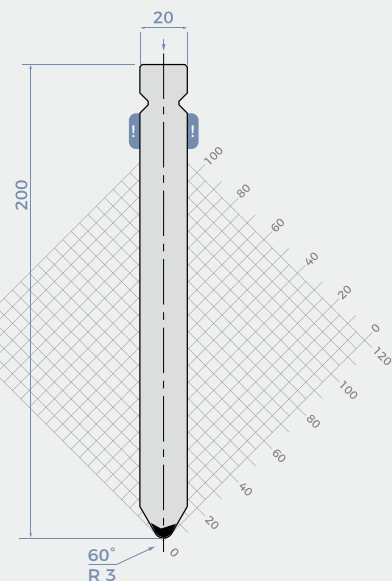
FMWP.160.60°R3

1300KN/m max.

60°

515mm	15.6 kg
550mm	16.7 kg

2



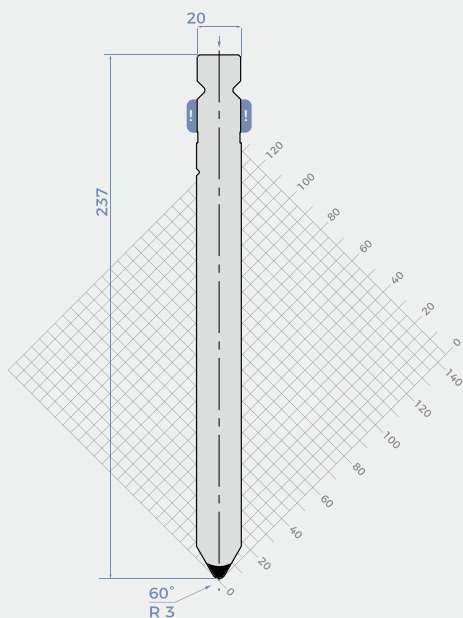
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FMWP.217.60°R3

1300KN/m max.

60°

515 mm	18.8 kg
550 mm	20.1 kg

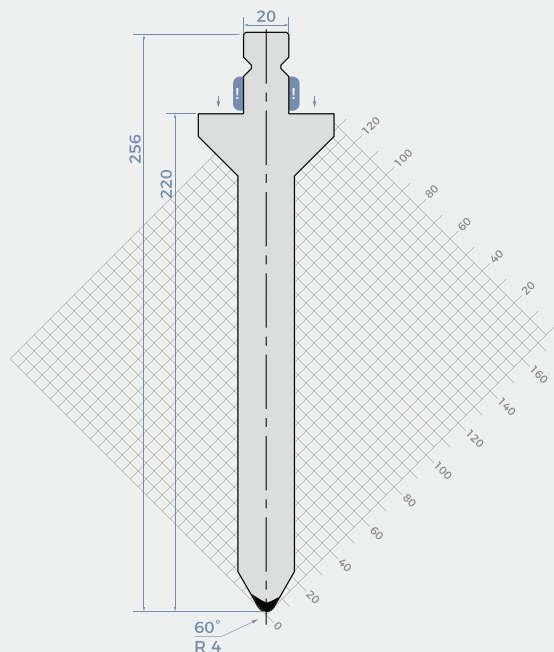


FMWP.220.60°R4

1300KN/m max.

60°

515 mm	26.1 kg
550 mm	27.0 kg

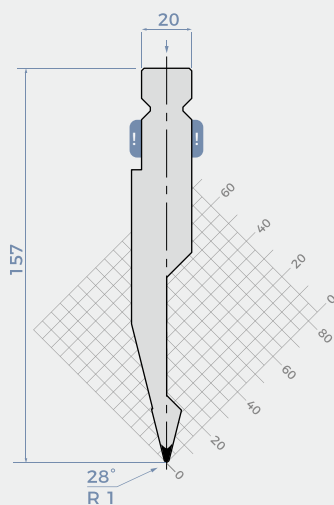


FMWP.117.28°R1

600KN/m max.

28°

515 mm	10.4 kg
550 mm	11.2 kg

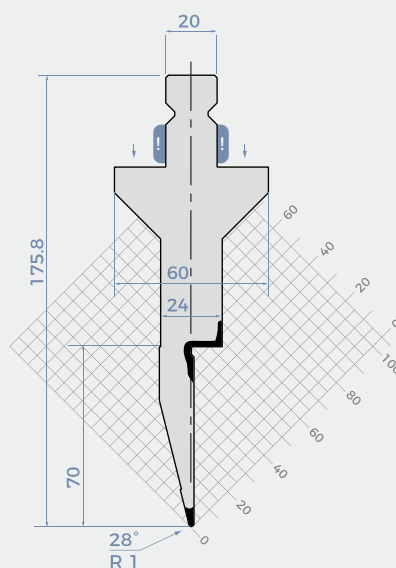


FMWP.140.28°R1

400KN/m max.

28°

515 mm	15.4 kg
550 mm	16.2 kg



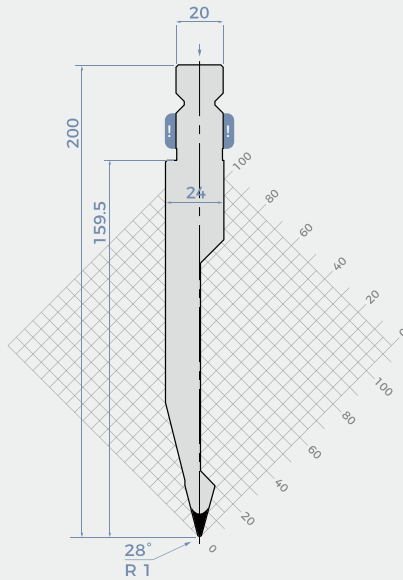
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FMWP.160.28°R1

600KN/m max.

28°

515mm	12.6 kg
550mm	13.5 kg

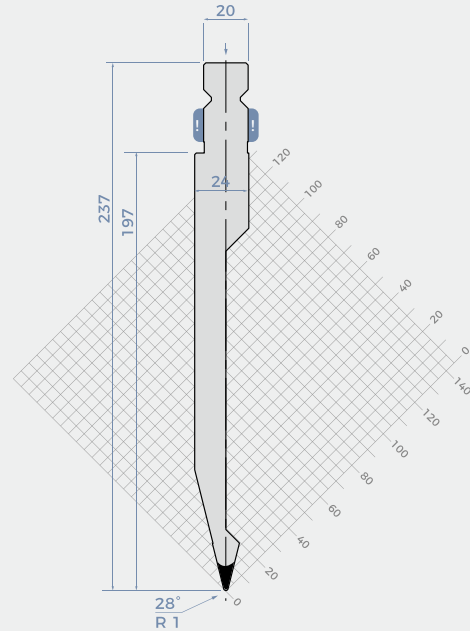


FMWP.197.28°R1

600KN/m max.

28°

515mm	15.0 kg
550mm	16.0 kg

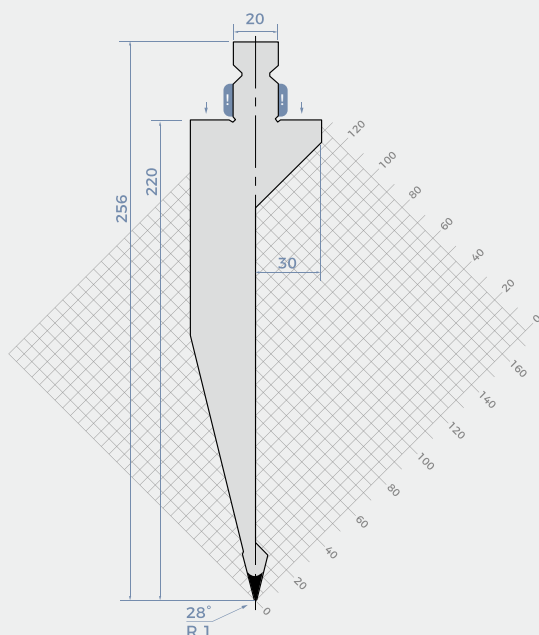


FMWP.220.28°R1

600KN/m max.

28°

515mm	25.0 kg
550mm	26.0 kg

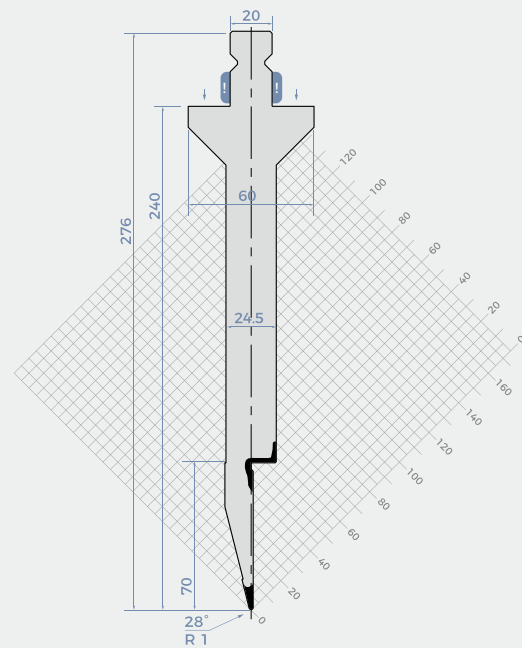


FMWP.240.28°R1

400KN/m max.

28°

515mm	24.0 kg
550mm	26.4 kg



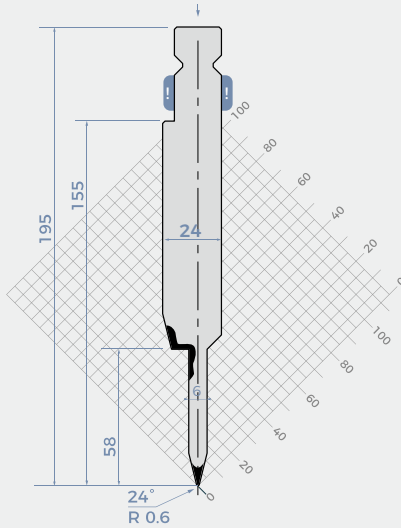
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FMWP.155.24°.6

800-1000KN/m max.

24°

515 mm	9.9 kg
550 mm	16.1 kg

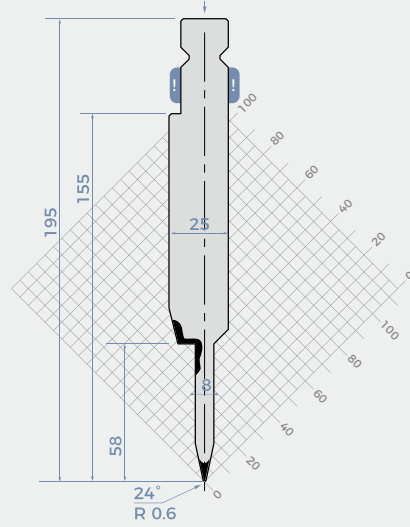


FMWP.155.24°.8

800-1000KN/m max.

24°

515 mm	9.9 kg
550 mm	16.0 kg

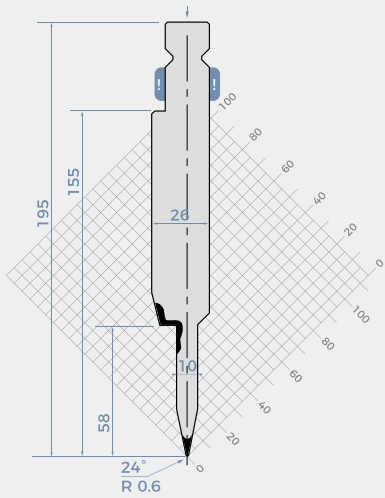


FMWP.155.24°.10

800-1000KN/m max.

24°

515 mm	10.3 kg
550 mm	16.5 kg

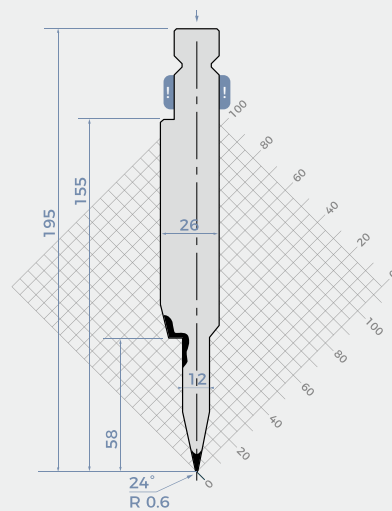


FMWP.155.24°.12

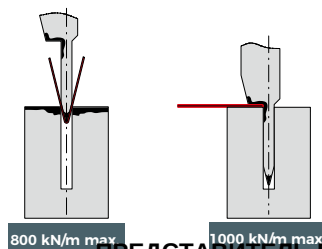
800-1000KN/m max.

24°

515 mm	10.5 kg
550 mm	17.0 kg



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

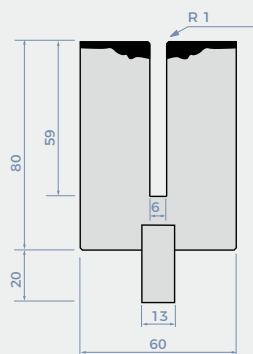
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FMWP.D80.6

500-1000KN/m max.

24°

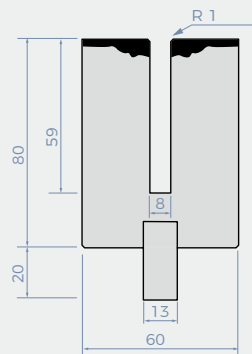
515 mm	11.5 kg
550 mm	12.5 kg

**FMWP.D80.8**

500-1000KN/m max.

24°

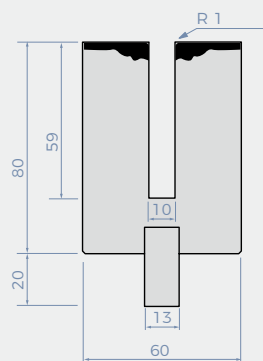
515 mm	11.5 kg
550 mm	12.5 kg

**FMWP.D80.10**

500-1000KN/m max.

24°

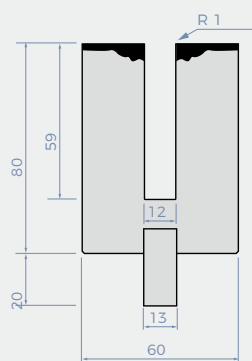
515 mm	11.5 kg
550 mm	12.5 kg

**FMWP.D80.12**

500-1000KN/m max.

24°

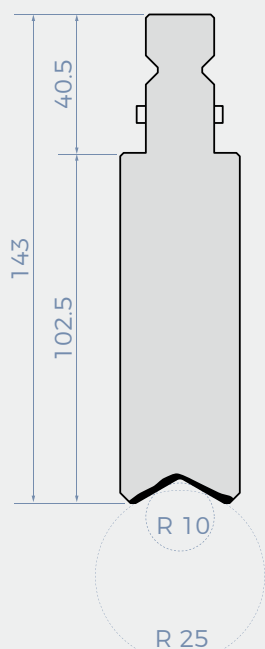
515 mm	11.5 kg
550 mm	12.5 kg



FMWP.103.10

1000KN/m max.

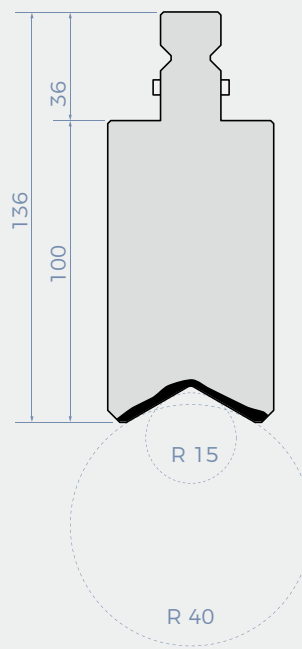
515 mm	17.5 kg
550 mm	18.6 kg



FMWP.100.15

1000KN/m max.

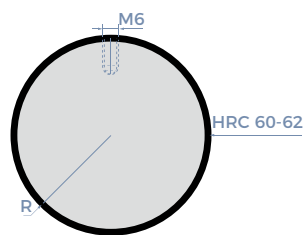
515 mm	24.2 kg
550 mm	25.6 kg



Radius punches: R10-R40

1000KN/m max.

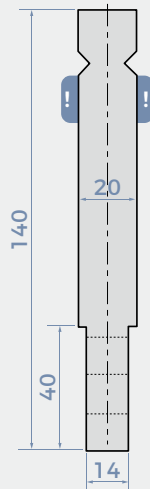
	R [mm]	Weight	Weight
TOPC10	10	1.3 kg	2.7 kg
TOPC12.5	12.5	2.0 kg	2.8 kg
TOPC15	15	3.0 kg	3.8 kg
TOPC17.5	17.5	4.0 kg	4.7 kg
TOPC20	20	5.2 kg	6.6 kg
TOPC22.5	22.5	6.6 kg	6.6 kg
TOPC25	25	8.1 kg	7.5 kg
TOPC27.5	27.5	9.8 kg	9.2 kg
TOPC30	30	11.7 kg	11.3 kg
TOPC32.5	32.5	13.7 kg	12.9 kg
TOPC35	35	16.0 kg	15.1 kg
TOPC37.5	37.5	18.2 kg	17.2 kg
TOPC40	40	20.7 kg	19.5 kg



FMWP.100.14

800KN/m max.

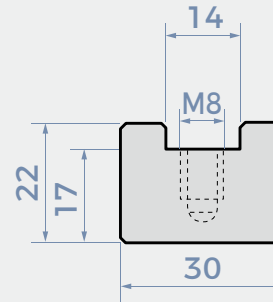
515 mm	10.2 kg
550 mm	15.4 kg



FMWP.D22.14

800KN/m max.

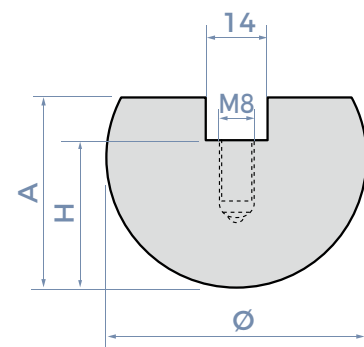
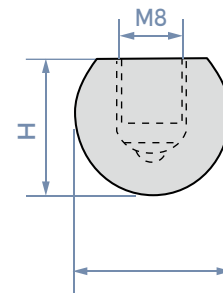
515 mm	1.8 kg
550 mm	2.1 kg



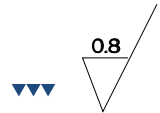
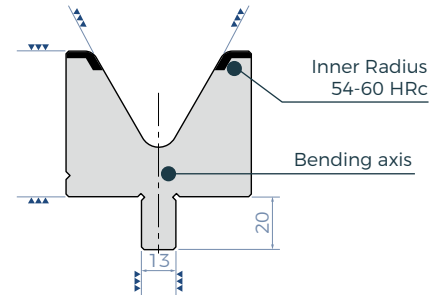
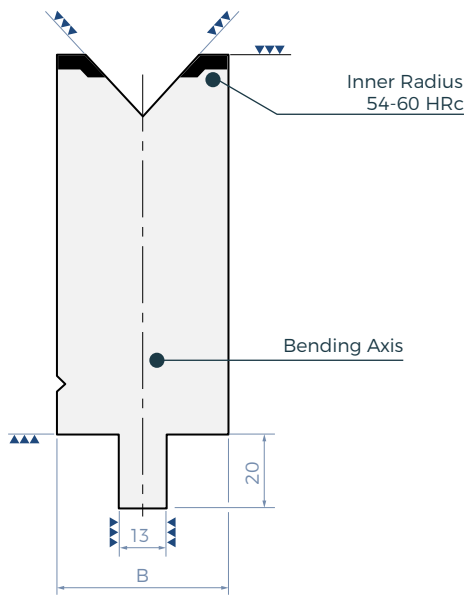
Radius tool: ϕ 16-100

800KN/m max.

	ϕ [mm]	A [mm]	H [mm]	Weight	Weight
C13.08	16	13	-	2.0 kg	1.0 kg
C13.09	18	16	-	2.0 kg	1.0 kg
C16.10	20	16	-	2.0 kg	1.0 kg
C17.12	25	17	22	2.5 kg	1.2 kg
C20.15	30	20	27	3.7 kg	1.8 kg
C22.17	35	22	32	5.0 kg	2.4 kg
C24.20	40	24	34	7.0 kg	3.5 kg
C25.22	45	25	35	7.5 kg	3.8 kg
C29.25	50	29	39	10.0 kg	4.7 kg
C34.27	55	34	44	12.4 kg	6.2 kg
C34.30	60	34	44	13.5 kg	6.7 kg
C37.32	65	37	47	15.9 kg	7.9 kg
C45.35	70	45	55	20.3 kg	10.0 kg
C42.37	75	42	52	20.5 kg	10.3 kg
C45.40	80	45	55	23.0 kg	11.5 kg
C60.45	90	60	70	34.0 kg	17.0 kg
C70.50	100	70	80	43.5 kg	21.7 kg

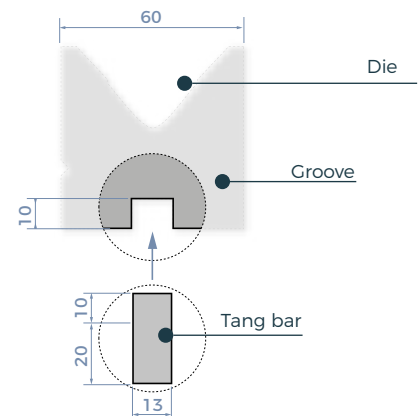


STANDARD TANG



MODIFICATIONS WEDGE/BAR TAIL

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

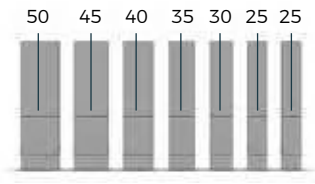


STANDARD LENGTH

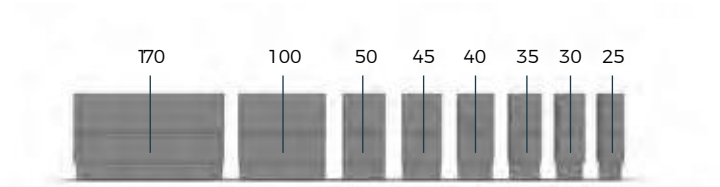
100 mm	
500 mm	
515 mm	
525 mm	
1000 mm	

SEGMENTATION

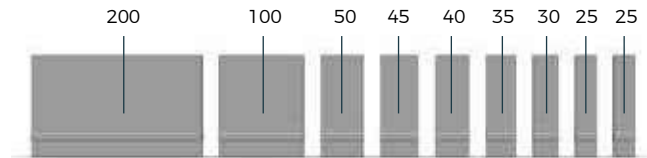
FC: 250 mm - 7 segments



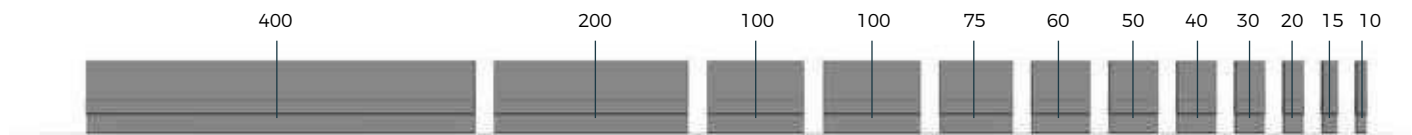
F: 495 mm - 8 segments



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

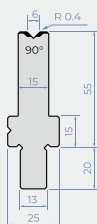
Available on request

FMWD.55.90°6

900-1150 kN/m max

90°

515mm	4.3 kg
550mm	4.5 kg

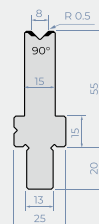


FMWD.55.90°8

900-1150 kN/m max

90°

515mm	4.6 kg
550mm	4.8 kg

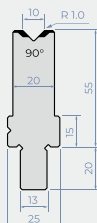


FMWD.55.90°10

900-1150 kN/m max

90°

515mm	5.3 kg
550mm	5.5 kg

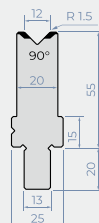


FMWD.55.90°12

900-1150 kN/m max

90°

515mm	5.3 kg
550mm	5.5 kg

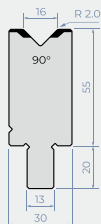


FMWD.55.90°16

900-1150 kN/m max

90°

515mm	7.3 kg
550mm	7.5 kg

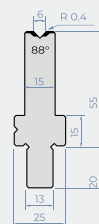


FMWD.55.88°6

900-1150 kN/m max

88°

515mm	4.8 kg
550mm	5.1 kg

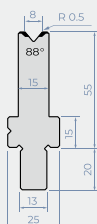


FMWD.55.88°8

900-1150 kN/m max

88°

515mm	4.3 kg
550mm	4.5 kg

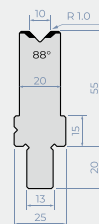


FMWD.55.88°10

900-1150 kN/m max

88°

515mm	5.1 kg
550mm	5.3 kg



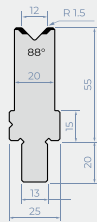
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FMWD.55.88°12

900-1150 kN/m max

88°

515mm	5.3 kg
550mm	5.5 kg

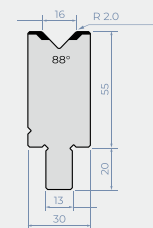


FMWD.55.88°16

900-1150 kN/m max

88°

515mm	7.3 kg
550mm	7.6 kg

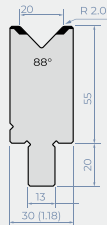


FMWD.55.88°20

900-1150 kN/m max

88°

515mm	7.3 kg
550mm	7.6 kg

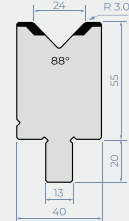


FMWD.55.88°24

900-1150 kN/m max

88°

515mm	9.3 kg
550mm	9.5 kg

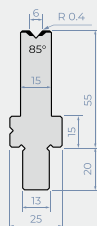


FMWD.55.85°6

900-1150 kN/m max

85°

515mm	4.3 kg
550mm	4.5 kg

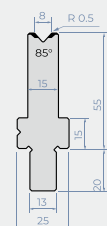


FMWD.55.85°8

900-1150 kN/m max

85°

515mm	4.6 kg
550mm	4.8 kg

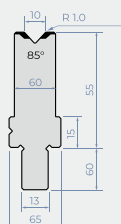


FMWD.55.85°10

900-1150 kN/m max

85°

515mm	5.2 kg
550mm	5.5 kg

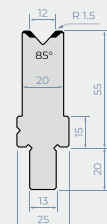


FMWD.55.85°12

900-1150 kN/m max

85°

515mm	5.3 kg
550mm	5.4 kg



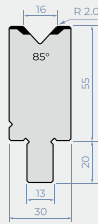
SINGLE-V DIES

FMWD.55.85°16

900-1150 kN/m max

85°

515mm	7.3 kg
550mm	7.5 kg

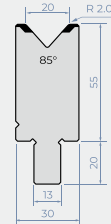


FMWD.55.85°20

900-1150 kN/m max

85°

515mm	7.3 kg
550mm	7.6 kg

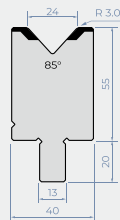


FMWD.55.85°24

900-1150 kN/m max

85°

515mm	9.3 kg
550mm	9.5 kg

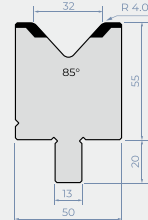


FMWD.55.85°32

900-1150 kN/m max

85°

515mm	10.6kg
550mm	10.8 kg

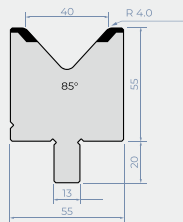


FMWD.55.85°40

900-1150 kN/m max

85°

515mm	10.8kg
550mm	11.1 kg

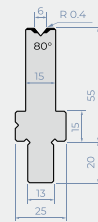


FMWD.55.80°6

900-1150 kN/m max

80°

515mm	4.3 kg
550mm	4.5 kg

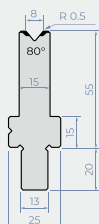


FMWD.55.80°8

900-1150 kN/m max

80°

515mm	4.6 kg
550mm	4.8 kg

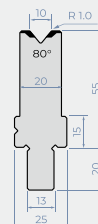


FMWD.55.80°10

900-1150 kN/m max

80°

515mm	5.2 kg
550mm	5.4 kg



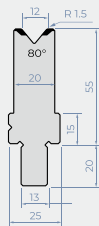
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FMWD.55.80°12

900-1150 kN/m max

80°

515mm	5.3 kg
550mm	5.5 kg

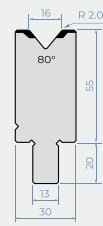


FMWD.55.80°16

900-1150 kN/m max

80°

515mm	7.4 kg
550mm	7.6 kg

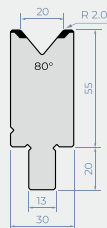


FMWD.55.80°20

900-1150 kN/m max

80°

515mm	7.3 kg
550mm	7.6 kg

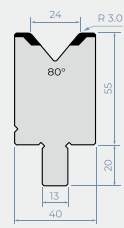


FMWD.55.80°24

900-1150 kN/m max

80°

515mm	9.3 kg
550mm	9.5 kg

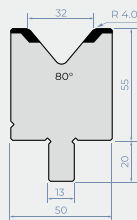


FMWD.55.80°32

900-1150 kN/m max

80°

515mm	10.6kg
550mm	10.8 kg

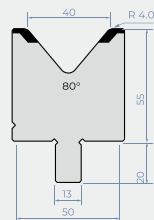


FMWD.55.80°40

900-1150 kN/m max

80°

515mm	10.8kg
550mm	11.1 kg

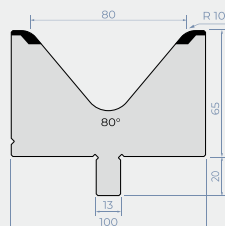


FMWD.65.80°80

900-1150 kN/m max

80°

515mm	20.0kg
550mm	21.5 kg

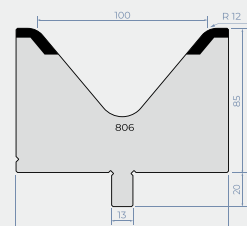


FMWD.85.80°100

900-1150 kN/m max

80°

515mm	31.0kg
550mm	35.0 kg



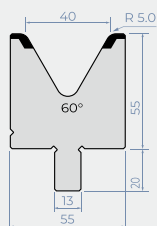
SINGLE-V DIES

FMWD.55.60°40

900-1150 kN/m max

60°

515 mm	10.7 kg
550 mm	11.8 kg

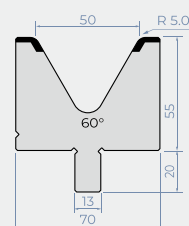


FMWD.55.60°50

900-1150 kN/m max

60°

515 mm	12.2 kg
550 mm	13.4 kg

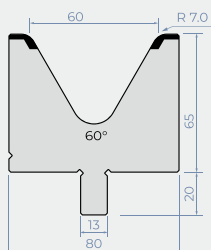


FMWD.65.60°60

900-1150 kN/m max

60°

515 mm	15.5 kg
550 mm	17.0 kg

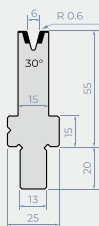


FMWD.55.30°6

900-1150 kN/m max

30°

515 mm	4.6 kg
550 mm	4.8 kg

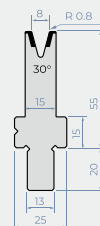


FMWD.55.30°8

900-1150 kN/m max

30°

515 mm	4.6 kg
550 mm	4.8 kg

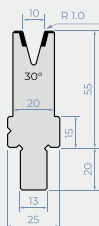


FMWD.55.30°10

900-1150 kN/m max

30°

515 mm	5.0 kg
550 mm	5.5 kg

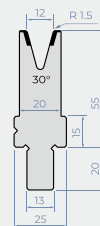


FMWD.55.30°12

900-1150 kN/m max

30°

515 mm	5.0 kg
550 mm	5.5 kg



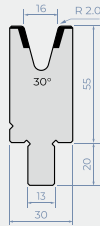
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FMWD.55.30°16

900-1150 kN/m max

30°

515mm	6.5 kg
550mm	7.5 kg

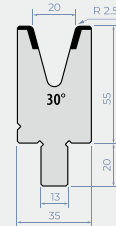


FMWD.55.30°20

900-1150 kN/m max

30°

515mm	7.2 kg
550mm	7.7 kg

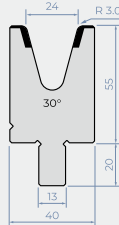


FMWD.55.30°24

900-1150 kN/m max

30°

515mm	7.8 kg
550mm	8.5 kg

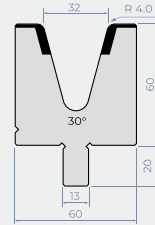


FMWD.60.30°32

900-1150 kN/m max

30°

515mm	11.7kg
550mm	13.0 kg

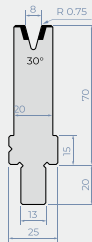


FMWD.70.30°8

900-1150 kN/m max

30°

515mm	6.5 kg
550mm	7.0 kg

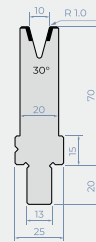


FMWD.70.30°10

900-1150 kN/m max

30°

515mm	6.4 kg
550mm	7.2 kg

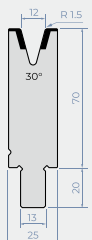


FMWD.70.30°12

900-1150 kN/m max

30°

515mm	7.5 kg
550mm	8.0 kg

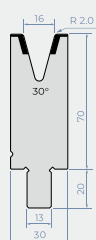


FMWD.70.30°16

900-1150 kN/m max

30°

515mm	8.4 kg
550mm	9.1 kg



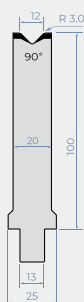
SINGLE-V DIES

FMWD.100.90°12

1200 kN/m max

90°

515mm	9.2 kg
550mm	9.8 kg

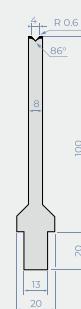


FMWD.100.86°4

250 kN/m max

86°

515mm	4.9 kg
550mm	5.2 kg

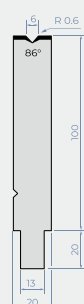


FMWD.100.86°6

1200 kN/m max

86°

515mm	9.1 kg
550mm	9.5 kg

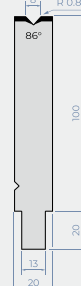


FMWD.100.86°8

1150 kN/m max

86°

515mm	8.9 kg
550mm	9.7 kg

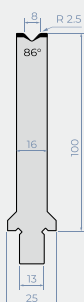


FMWD.100.86°8

400 kN/m max

86°

515mm	9.1 kg
550mm	9.7 kg

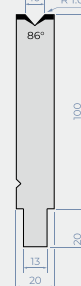


FMWD.100.86°10

1100 kN/m max

86°

515mm	8.9 kg
550mm	9.7 kg

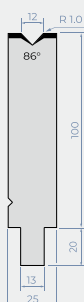


FMWD.100.86°12

1200 kN/m max

86°

515mm	7.2 kg
550mm	8.2 kg

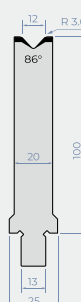


FMWD.100.86°16

1200 kN/m max

86°

515mm	9.0 kg
550mm	9.6 kg



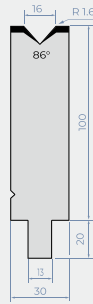
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FMWD.100.86°16

1200 kN/m max

86°

515 mm	12.5 kg
550 mm	13.8 kg

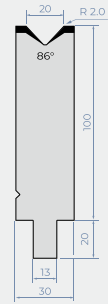


FMWD.100.86°20

1150 kN/m max

86°

515 mm	12.2 kg
550 mm	13.5 kg

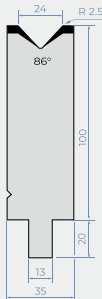


FMWD.100.86°24

1200 kN/m max

86°

515 mm	14.0 kg
550 mm	15.5 kg

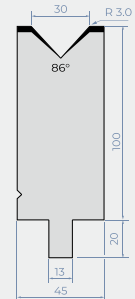


FMWD.100.86°30

1200 kN/m max

86°

515 mm	17.6 kg
550 mm	19.4 kg

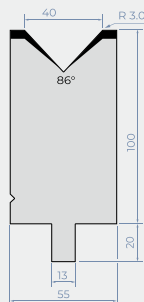


FMWD.100.86°40

1200 kN/m max

86°

515 mm	22.9 kg
550 mm	23.5 kg

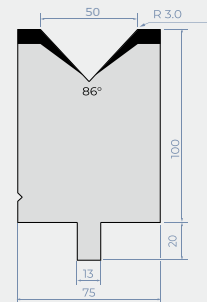


FMWD.100.86°50

1500 kN/m max

86°

515 mm	31.2 kg
550 mm	33.0 kg

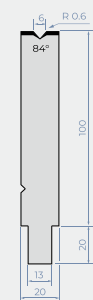


FMWD.100.84°6

1200 kN/m max

84°

515 mm	9.0 kg
550 mm	9.7 kg

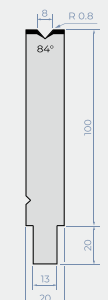


FMWD.100.84°8

1150 kN/m max

84°

515 mm	8.8 kg
550 mm	9.7 kg



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FMWD.100.84°.10

1100 kN/m max

84°

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

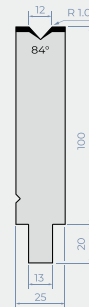


FMWD.100.84°.12

1200 kN/m max

84°

515mm	10.9 kg
550mm	11.7 kg

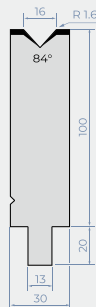


FMWD.100.84°.16

1200 kN/m max

84°

515mm	12.8 kg
550mm	13.8 kg

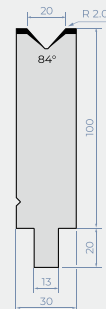


FMWD.100.84°.20

1150 kN/m max

84°

515mm	12.6 kg
550mm	13.4 kg

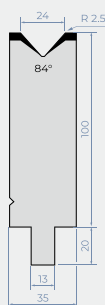


FMWD.100.84°.24

1200 kN/m max

84°

515mm	14.5 kg
550mm	15.4 kg

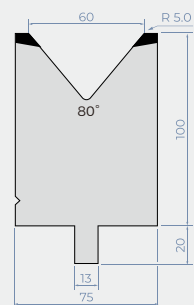


FMWD.100.80°.60

1100 kN/m max

80°

515mm	26.2 kg
550mm	28.4 kg

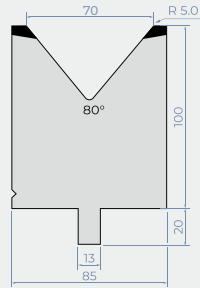


FMWD.100.80°.70

1500 kN/m max

80°

515 mm	28.6 kg
550 mm	31.0 kg

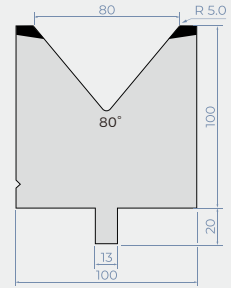


FMWD.100.80°.80

1500 kN/m max

80°

515 mm	32.8 kg
550 mm	35.5 kg

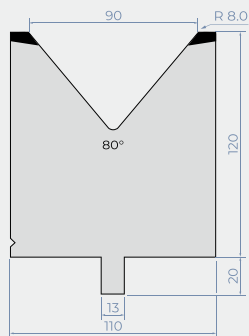


FMWD.120.80°.90

1500 kN/m max

80°

515 mm	42.5 kg
550 mm	46.3 kg

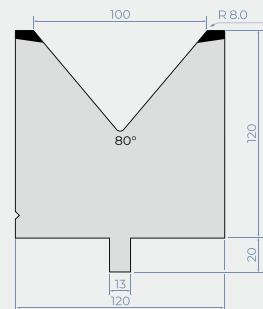


FMWD.120.80°.100

1500 kN/m max

80°

515 mm	45.1 kg
550 mm	49.2 kg

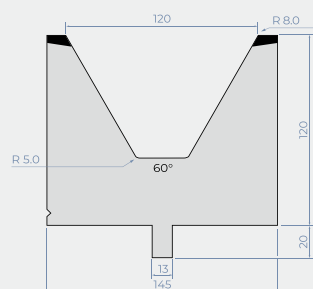


FMWD.120.60°.120

1600 kN/m max

60°

515 mm	45.0 kg
550 mm	49.0 kg



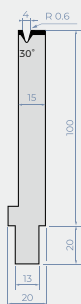
SINGLE-V DIES

FMWD.100.30°.4

150 kN/m max

30°

515mm	7.0 kg
550mm	7.7 kg

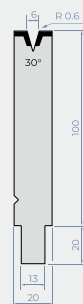


FMWD.100.30°.6

400 kN/m max

30°

515mm	8.8 kg
550mm	9.6 kg

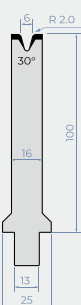


FMWD.100.30°.6

400 kN/m max

30°

515mm	7.7 kg
550mm	8.2 kg

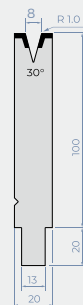


FMWD.100.30°.8

400 kN/m max

30°

515mm	12.2kg
550mm	13.4 kg

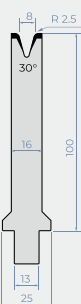


FMWD.100.30°.8

400 kN/m max

30°

515mm	14.0kg
550mm	15.4 kg

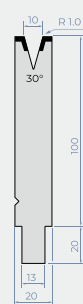


FMWD.100.30°.10

400 kN/m max

30°

515mm	8.5 kg
550mm	9.4 kg

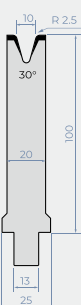


FMWD.100.30°.10

400 kN/m max

30°

515mm	9.0 kg
550mm	9.6 kg



FMWD.100.30°.12

400 kN/m max

30°

515mm	10.3kg
550mm	11.3 kg



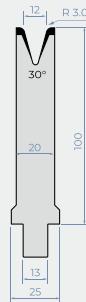
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FMWD.100.30°.12

400 kN/m max

30°

515mm	8.9 kg
550mm	9.5 kg

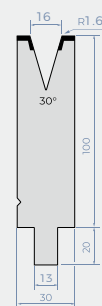


FMWD.100.30°.16

500 kN/m max

30°

515mm	12.0kg
550mm	13.0 kg

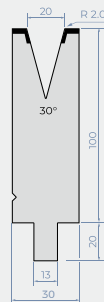


FMWD.100.30°.20

600 kN/m max

30°

515mm	13.2kg
550mm	15.0kg

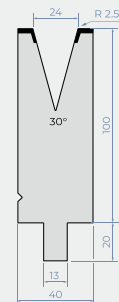


FMWD.100.30°.24

650 kN/m max

30°

515mm	15.0kg
550mm	16.0 kg

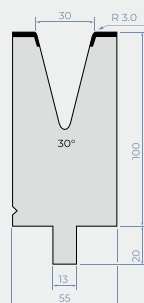


FMWD.100.30°.30

900 kN/m max

30°

515mm	19 kg
550mm	21 kg

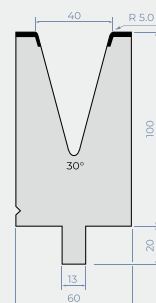


FMWD.100.30°.40

900 kN/m max

30°

515mm	18.3kg
550mm	20.0 kg

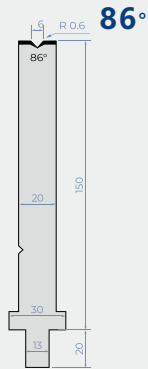


SINGLE-V DIES

FMWD.150.86°.6

400 kN/m max

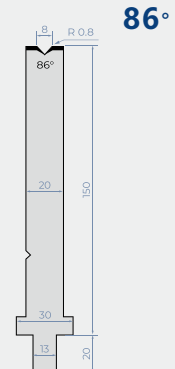
515 mm	13.0 kg
550 mm	14.0 kg



FMWD.150.86°.8

400 kN/m max

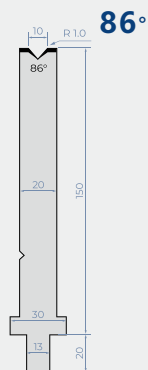
515 mm	13.0 kg
550 mm	14.0 kg



FMWD.150.86°.10

500 kN/m max

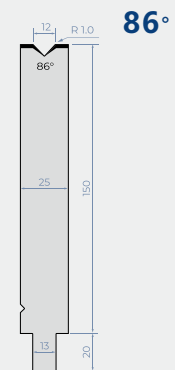
515 mm	13.0 kg
550 mm	14.0 kg



FMWD.150.86°.12

500 kN/m max

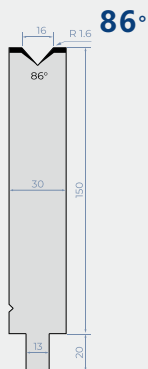
515 mm	15.0 kg
550 mm	17.0 kg



FMWD.150.86°.16

700 kN/m max

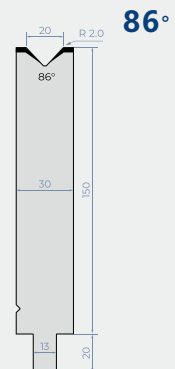
515 mm	18.4 kg
550 mm	20.0 kg



FMWD.150.86°.20

700 kN/m max

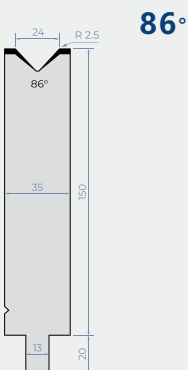
515 mm	18.0 kg
550 mm	20.0 kg



FMWD.150.86°.24

700 kN/m max

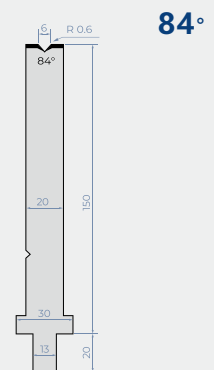
515 mm	20.0 kg
550 mm	23.0 kg



FMWD.150.84°.6

400 kN/m max

515 mm	13.0 kg
550 mm	14.0 kg

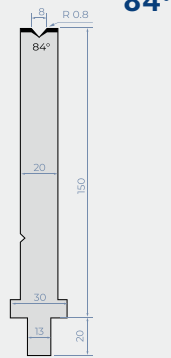


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FMWD.150.84°.8

400 kN/m max

515mm	13.0kg
550mm	14.0kg

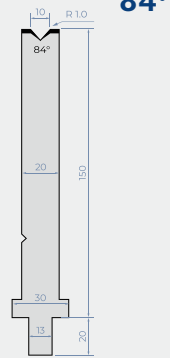


84°

FMWD.150.84°.10

500 kN/m max

515mm	13.0kg
550mm	14.0kg

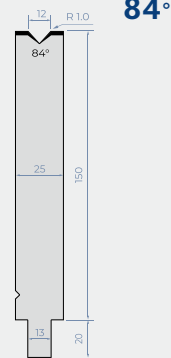


84°

FMWD.150.84°.12

500 kN/m max

515mm	15.5kg
550mm	17.0kg

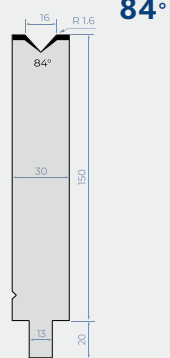


84°

FMWD.150.84°.16

700 kN/m max

515mm	18.4kg
550mm	20.2kg

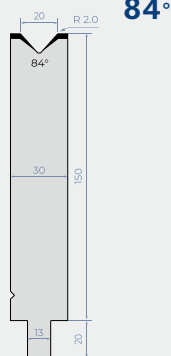


84°

FMWD.150.84°.20

700 kN/m max

515mm	18.3kg
550mm	20.0kg

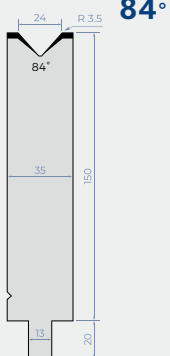


84°

FMWD.150.84°.24

700 kN/m max

515mm	21.0kg
550mm	23.0kg

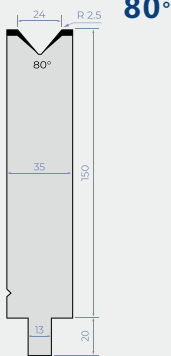


84°

FMWD.150.80°.24

700 kN/m max

515mm	21.0kg
550mm	23.0kg

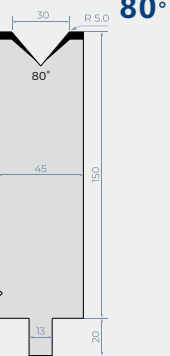


80°

FMWD.150.80°.30

900 kN/m max

515mm	26.3kg
550mm	29.0kg



80°

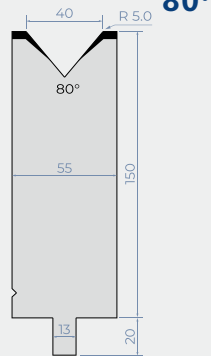
SINGLE-V DIES

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FMWD.150.80°.40

1200 kN/m max

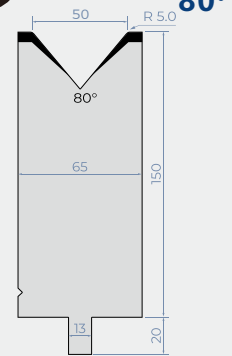
515 mm	31.3 kg
550 mm	34.5 kg



FMWD.150.80°.50

1500 kN/m max

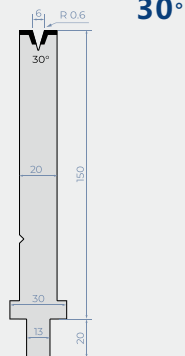
515 mm	36.0 kg
550 mm	40.0 kg



FMWD.150.30°.6

400 kN/m max

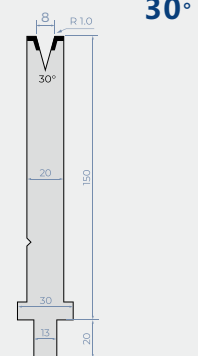
515 mm	13.0 kg
550 mm	14.0 kg



FMWD.150.30°.8

400 kN/m max

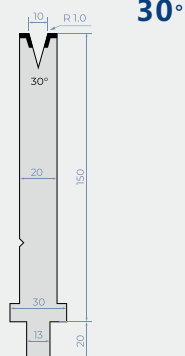
515 mm	13.0 kg
550 mm	14.0 kg



FMWD.150.30°.10

400 kN/m max

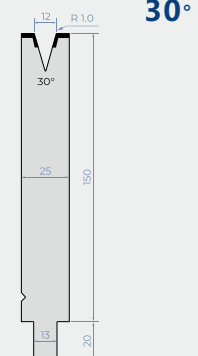
515 mm	17.7 kg
550 mm	19.5 kg



FMWD.150.30°.12

400 kN/m max

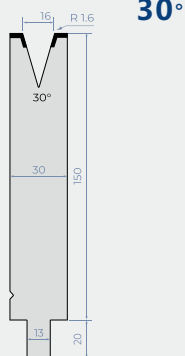
515 mm	15.2 kg
550 mm	16.7 kg



FMWD.150.30°.16

500 kN/m max

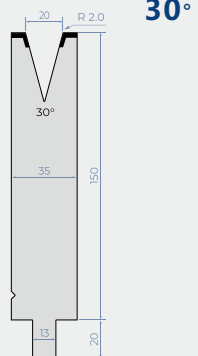
515 mm	17.7 kg
550 mm	19.5 kg



FMWD.150.30°.20

600 kN/m max

515 mm	20.1 kg
550 mm	22.0 kg

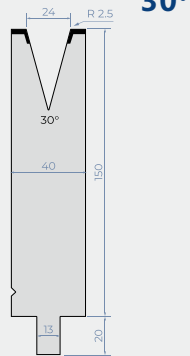


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FMWD.150.30°.24

400 kN/m max

515 mm	22.3 kg
550 mm	24.5 kg

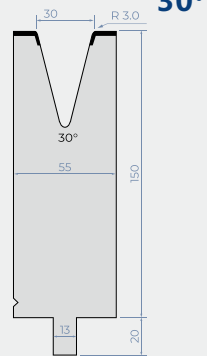


30°

FMWD.150.30°.30

500 kN/m max

515 mm	30.0 kg
550 mm	33.0 kg

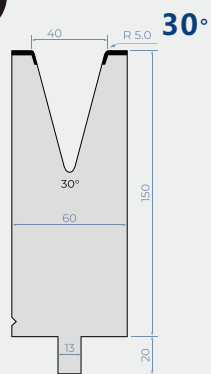


30°

FMWD.150.30°.40

500 kN/m max

515 mm	30.0 kg
550 mm	33.0 kg



30°

SINGLE-V DIES



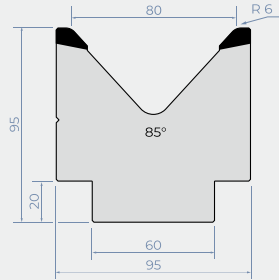
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FMS.75.85°.80

700 kN/m max

85°

835 mm	42.6 kg
415 mm	21.2 kg
805 mm	42.6 kg

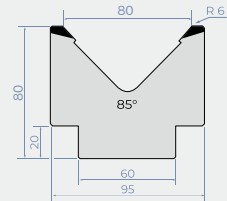


FMS.60.85°.80

700 kN/m max

85°

835 mm	33.5 kg
415 mm	16.6 kg
805 mm	32.2 kg

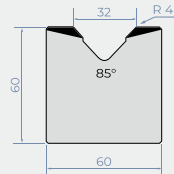


FMS.60.85°.32

1000 kN/m max

85°

835 mm	21.6 kg
415 mm	10.7 kg
805 mm	20.8 kg

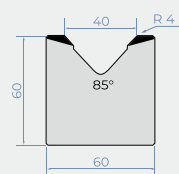


FMS.60.85°.40

1000 kN/m max

85°

835 mm	20.0 kg
415 mm	10.5 kg
805 mm	19.0 kg

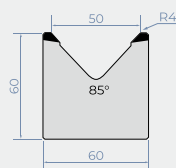


FMS.60.85°.50

1000 kN/m max

85°

835 mm	19.0 kg
415 mm	9.5 kg
805 mm	19.0 kg

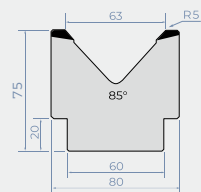


FMS.55.85°.63

1000 kN/m max

85°

835 mm	29.2 kg
415 mm	14.5 kg
805 mm	28.0 kg

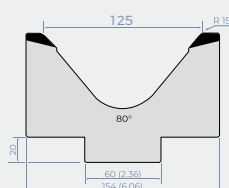


FMS.83.80°.125A

1000 kN/m max

80°

835 mm	62.0 kg
415 mm	31.0 kg
805 mm	59.8 kg

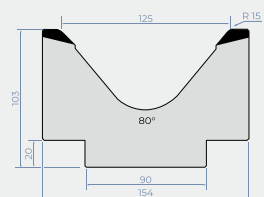


FMS.83.80°.125B

1000 kN/m max

80°

835 mm	64.9 kg
415 mm	32.2 kg
805 mm	62.5 kg



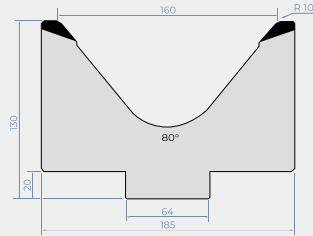
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FMS.110.80°.160A

1200 kN/m max

80°

835 mm	93.0 kg
415 mm	46.5 kg
805 mm	89.7 kg

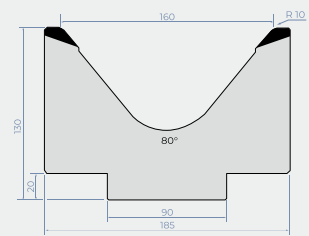


FMS.110.80°.160B

1500 kN/m max

80°

835 mm	97.0 kg
415 mm	47.4 kg
805 mm	89.7 kg

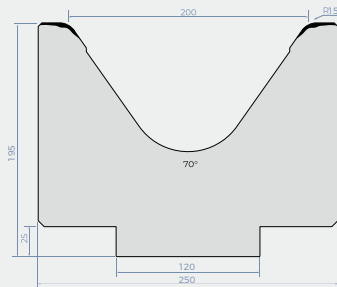


FMS.170.70°.200

700 kN/m max

70°

415 mm	104.0 kg
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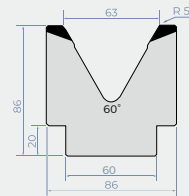


FMS.66.60°.63

1150 kN/m max

60°

835 mm	33.3 kg
415 mm	17.0 kg
805 mm	34.0 kg

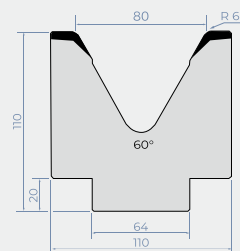


FMS.90.60°.80

700 kN/m max

60°

835 mm	53.0 kg
415 mm	26.5 kg
805 mm	51.1 kg

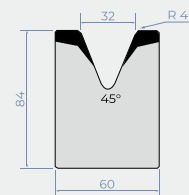


FMS.84.45°.32

700 kN/m max

45°

835 mm	27.5 kg
415 mm	13.7 kg
805 mm	27.5 kg

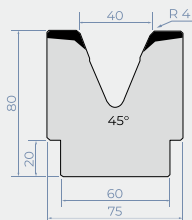


FMS.60.45°.40

700 kN/m max

45°

835 mm	30.9 kg
415 mm	16.5 kg
805 mm	30.7 kg

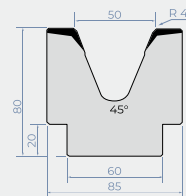


FMS.60.45°.50

900 kN/m max

45°

835 mm	31.0 kg
415 mm	15.5 kg
805 mm	31.0 kg

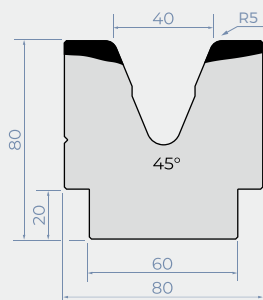


FMS.60.45°.40

700 kN/m max

45°

835 mm	32.7 kg
415 mm	16.2 kg
805 mm	31.5 kg

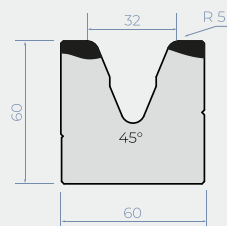


FMS.60.45°.32

400 kN/m max

45°

835 mm	19.2 kg
415 mm	9.6 kg
805 mm	19.2 kg

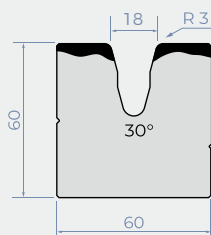


FMS.60.30°.18

800 kN/m max

30°

835 mm	21.5 kg
415 mm	10.7 kg
805 mm	21.5 kg



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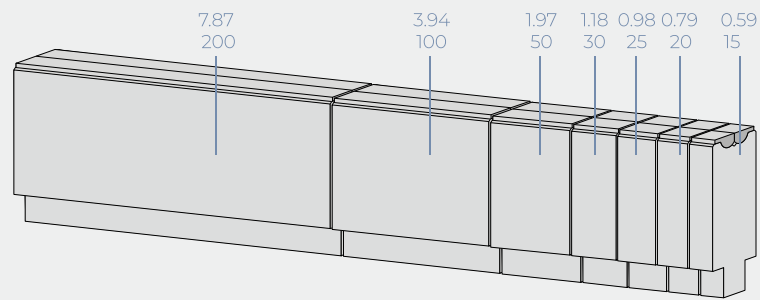
Rolla-V provides the definitive answer if you need to:

- 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

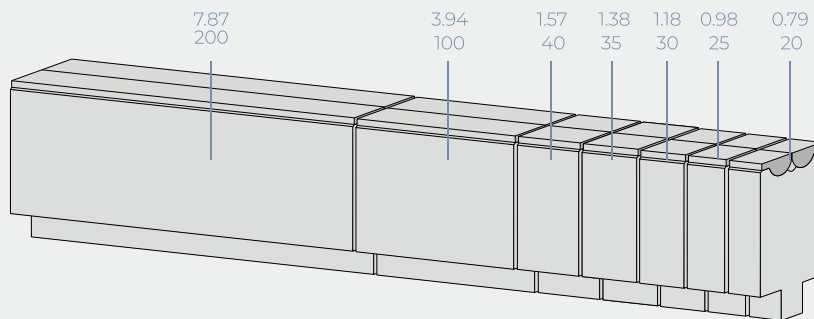
Application and Technical Data

				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

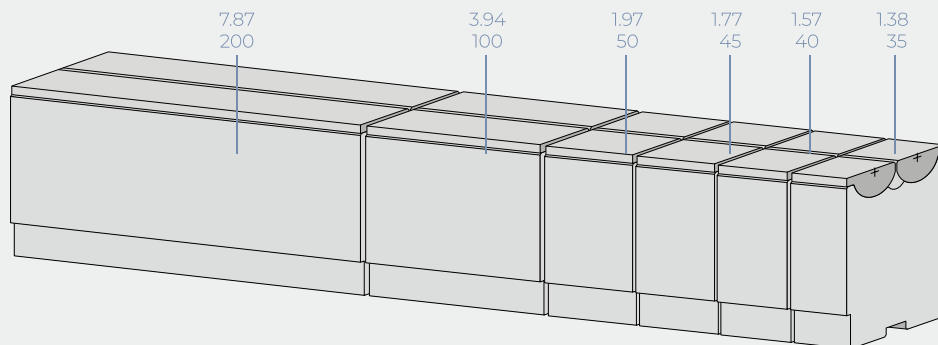
Model 1:440mm(17.32in)-7 segments



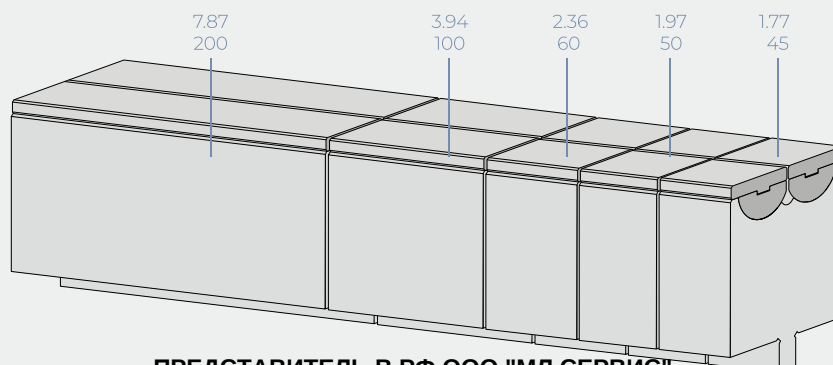
Model 2:450mm(17.72 in)-7 segments



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



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

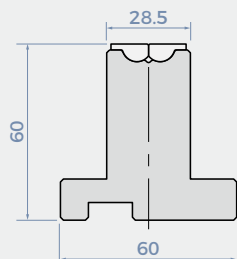


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FMRV.P60.1

1000kN/m max.

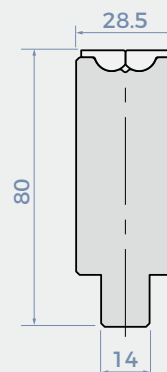
500 mm	6.9 kg
550 mm	8.0 kg



FMRV.S80.1

1000kN/m max.

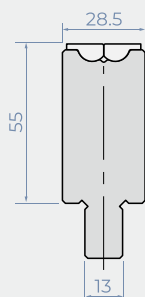
500 mm	6.3 kg
550 mm	6.9 kg



FMRV.T55.1

1000kN/m max.

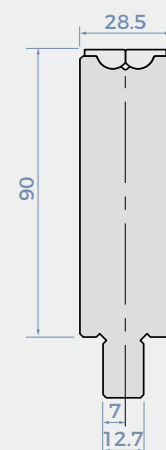
500 mm	5.5 kg
550 mm	6.5 kg



FMRV.T90.1

1000kN/m max.

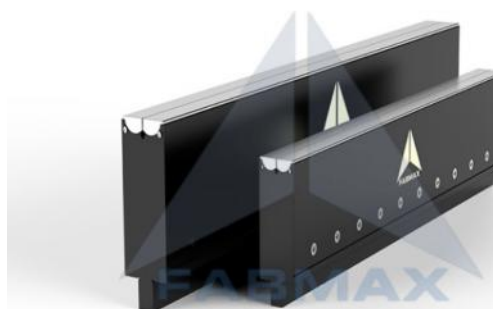
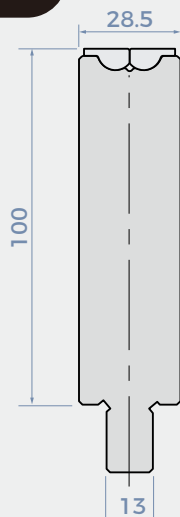
500 mm	9.4 kg
550 mm	10.5 kg



FMRV.T100.1

1000kN/m max.

500 mm	9.4 kg
550 mm	10.5 kg

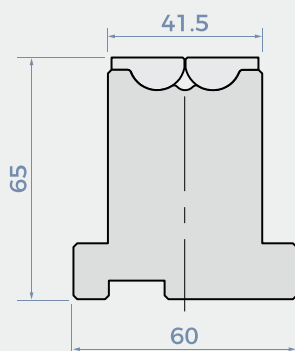


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FMRV.P65.2

1500kN/m max.

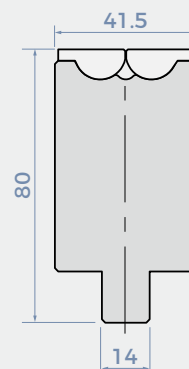
500mm	7.9 kg
550mm	9.0 kg



FMRV.S80.2

1500kN/m max.

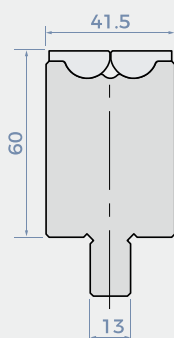
500mm	8.3 kg
550mm	9.3 kg



FMRV.T60.2

1500kN/m max.

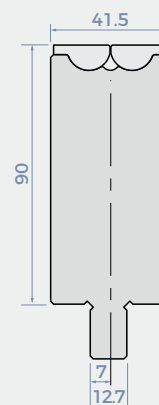
500mm	7.9 kg
550mm	9.0 kg



FMRV.T90.2

1500kN/m max.

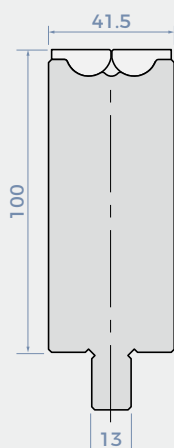
500mm	11.3 kg
550mm	12.5 kg



FMRV.T100.2

1500kN/m max.

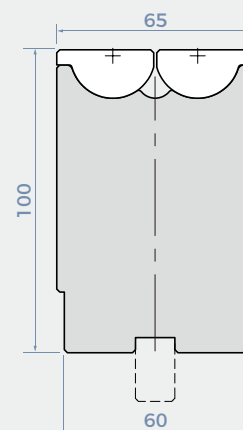
500mm	12.4 kg
550mm	14.0 kg



FMRV.M2.5

2000kN/m max.

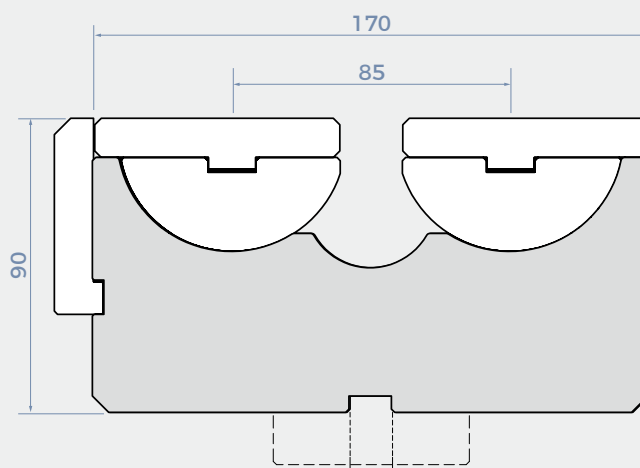
500mm	22.0 kg
550mm	24.5 kg



FMRV.M90.4

3000kN/m max.

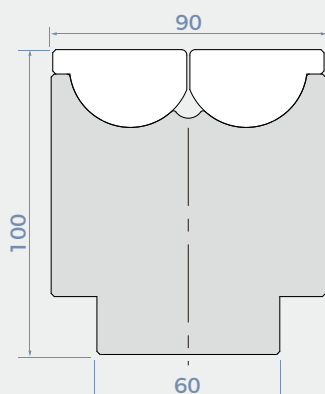
500 mm	56.6 kg
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FMRV.P100.3

2500kN/m max.

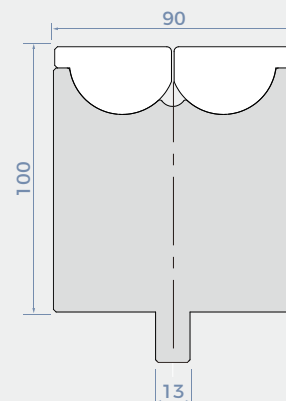
500 mm	28.8 kg
550 mm	32.0 kg



FMRV.T100.3

2500kN/m max.

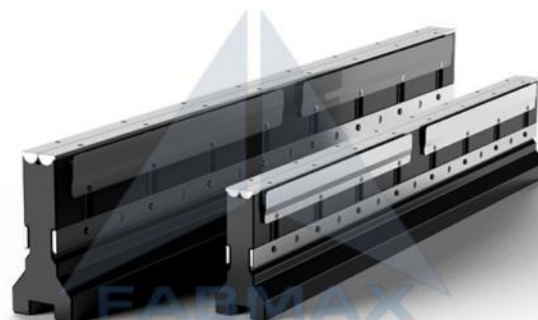
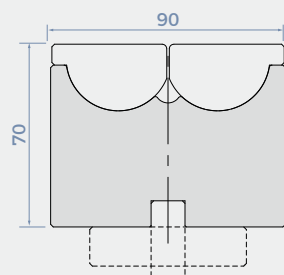
500 mm	30.9 kg
550 mm	34.0 kg



FMRV.M70.3

2500kN/m max.

500 mm	28.8 kg
550 mm	32.0 kg

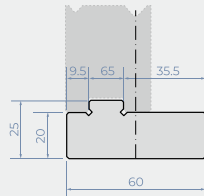


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Rail.25.60

1000kN/m max.

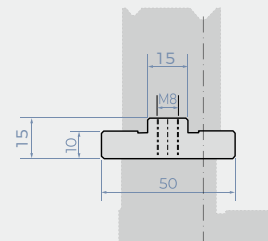
835mm	7.5 kg
415mm	3.7 kg



Rail.15.50

1000kN/m max.

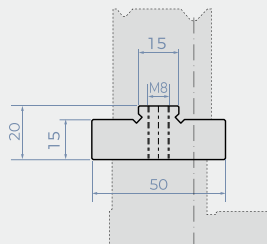
835mm	4.0 kg
415mm	3.7 kg



Rail.20.50

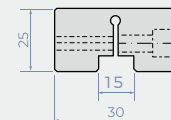
1000kN/m max.

835mm	5.4 kg
415mm	2.0 kg



Rail.25.30

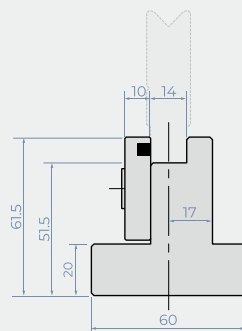
835mm	0.4 kg
415mm	0.2 kg



Rail.62.60

1000kN/m max.

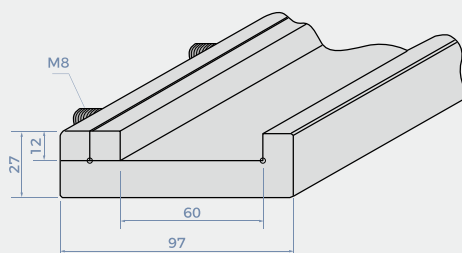
835mm	16.0 kg
415mm	7.3 kg



Holder.01

1000kN/m max.

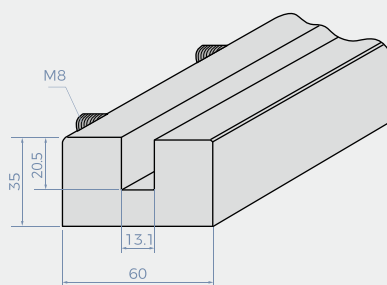
C 2000/s	2100mm	27.0kg
C 2500/s	2600mm	34.0kg
C 3000/s	3100mm	40.0kg
C 4000/s	4100mm	53.0kg



Holder.02

1000kN/m max.

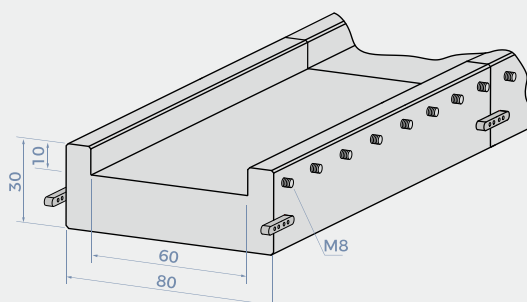
TC 2000/s	2100mm	30.0kg
TC 2500/s	2600mm	37.0kg
TC 3000/s	3100mm	44.0kg
TC 4000/s	4100mm	59.0kg



Holder.03

1000kN/m max.

C 1050/R	1050mm	15.0kg
C 1050/R/C	520mm	7.5kg

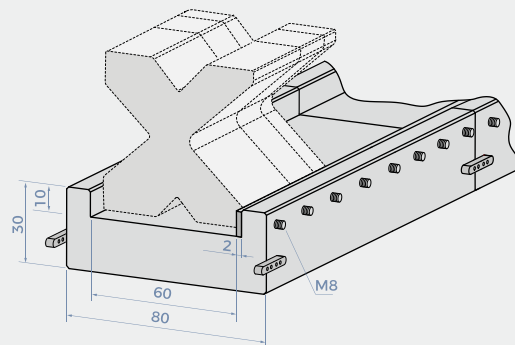


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Holder.04

1000kN/m max.

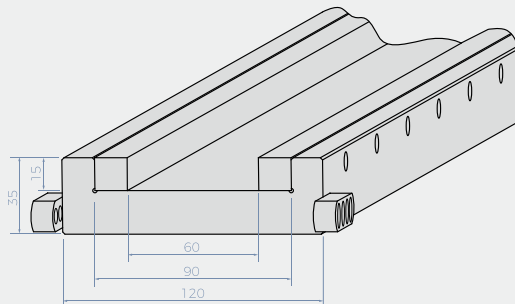
C 1050/RS	1050mm	15.0kg
C 1050/RS/C	520mm	7.5kg



Holder.05

1000kN/m max.

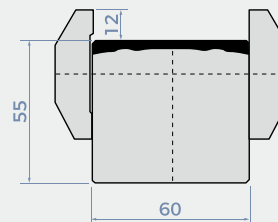
C 1050-90	1050mm	27.2kg
C 1050-90-C	520mm	13.5kg



Holder.06

1000kN/m max.

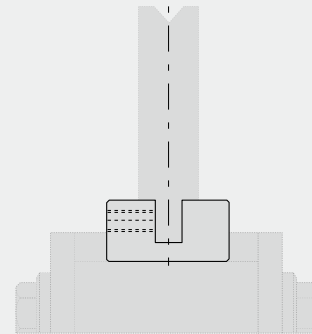
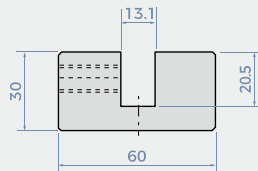
835mm	29.0kg
415mm	14.5kg



Holder.07

1000kN/m max.

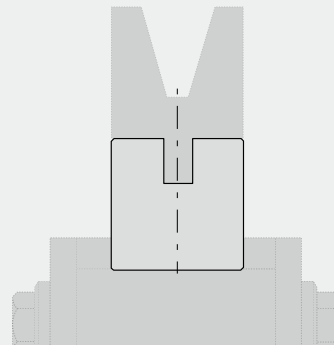
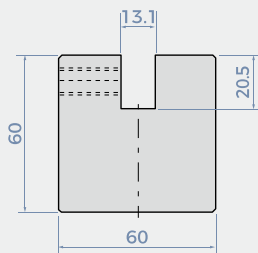
1000mm	12.0 kg
500mm	6.0 kg



Holder.08

1000kN/m max.

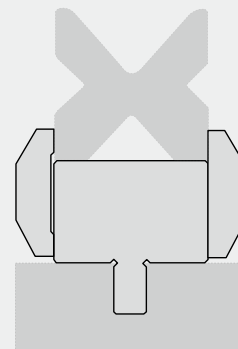
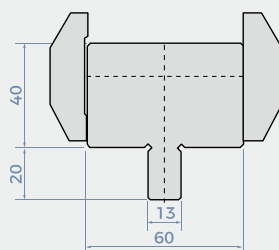
1000mm	26.1 kg
500mm	13.0 kg



Holder.09

1000kN/m max.

825mm	17.0 kg
415mm	8.5 kg

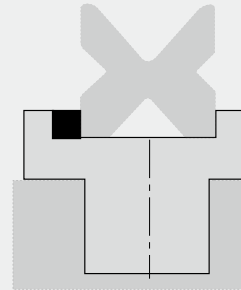
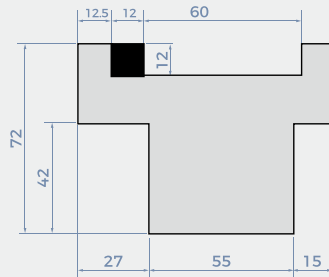


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Holder.10

1000kN/m max.

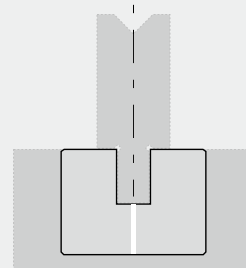
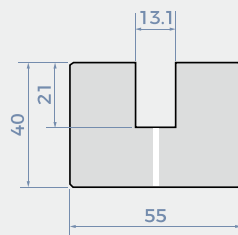
525 mm	30.0 kg
495 mm	14.2 kg



Holder.11

1000kN/m max.

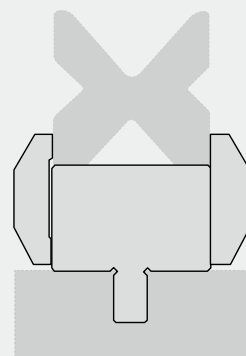
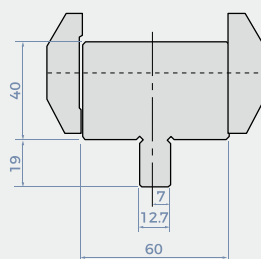
500 mm	7.5 kg
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Holder.12

1000kN/m max.

835 mm	17.0 kg
415 mm	8.5 kg

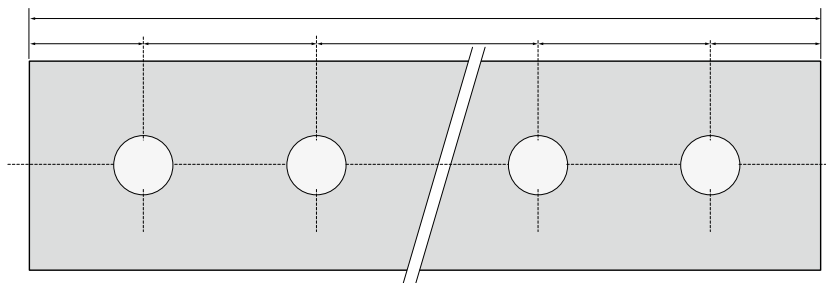
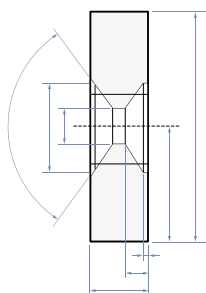




Fabmax has been producing shear blades for more than 20 years, using high quality steel to guarantee reliability and wear resistance.

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)
50×10(1.97×0.39)									
50×11(1.97×0.43)									
50×12(1.97×0.47)	55×12(2.17×0.47)	60×12(2.36×0.51)							
50×13(1.97×0.51)	55×13(2.17×0.51)	60×13(2.36×0.51)	65×13(2.56×0.51)	70×13(2.76×0.51)					
50×14(1.97×0.55)	55×14(2.17×0.55)	60×14(2.36×0.55)	65×14(2.56×0.55)	70×14(2.76×0.55)					
50×15(1.97×0.59)	55×15(2.17×0.59)	60×15(2.36×0.59)	65×15(2.56×0.59)	70×15(2.76×0.59)	75×15(2.95×0.59)				
	55×16(2.17×0.63)	60×16(2.36×0.63)	65×16(2.56×0.63)	70×16(2.76×0.63)	75×16(2.95×0.63)				
	55×17(2.17×0.67)	60×17(2.36×0.67)	65×17(2.56×0.67)	70×17(2.76×0.67)	75×17(2.95×0.67)				
	55×18(2.17×0.71)	60×18(2.36×0.71)	65×18(2.56×0.71)	70×18(2.76×0.71)	75×18(2.95×0.71)	80×18(3.15×0.71)	85×18(3.35×0.71)		
	55×19(2.17×0.75)	60×19(2.36×0.75)	65×19(2.56×0.75)	70×19(2.76×0.75)	75×19(2.95×0.75)	80×19(3.15×0.75)	85×19(3.35×0.75)		
	55×20(2.17×0.79)	60×20(2.36×0.79)	65×20(2.56×0.79)	70×20(2.76×0.79)	75×20(2.95×0.79)	80×20(3.15×0.79)	85×20(3.35×0.79)	90×20(3.54×0.79)	100×20(3.94×0.79)
					75×21(2.95×0.83)	80×21(3.15×0.83)	85×21(3.35×0.83)	90×21(3.54×0.83)	
					75×22(2.95×0.87)	80×22(3.15×0.87)	85×22(3.35×0.87)	90×22(3.54×0.87)	100×22(3.94×0.87)
					75×23(2.95×0.91)	80×23(3.15×0.91)	85×23(3.35×0.91)	90×23(3.54×0.91)	
					75×24(2.95×0.94)	80×24(3.15×0.94)	85×24(3.35×0.94)	90×24(3.54×0.94)	
					75×25(2.95×0.98)	80×25(3.15×0.98)	85×25(3.35×0.98)	90×25(3.54×0.98)	100×25(3.94×0.98)
									100×26(3.94×1.02)
									100×27(3.94×1.06)
									100×28(3.94×1.10)
									100×29(3.94×1.14)
									100×30(3.94×1.18)



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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

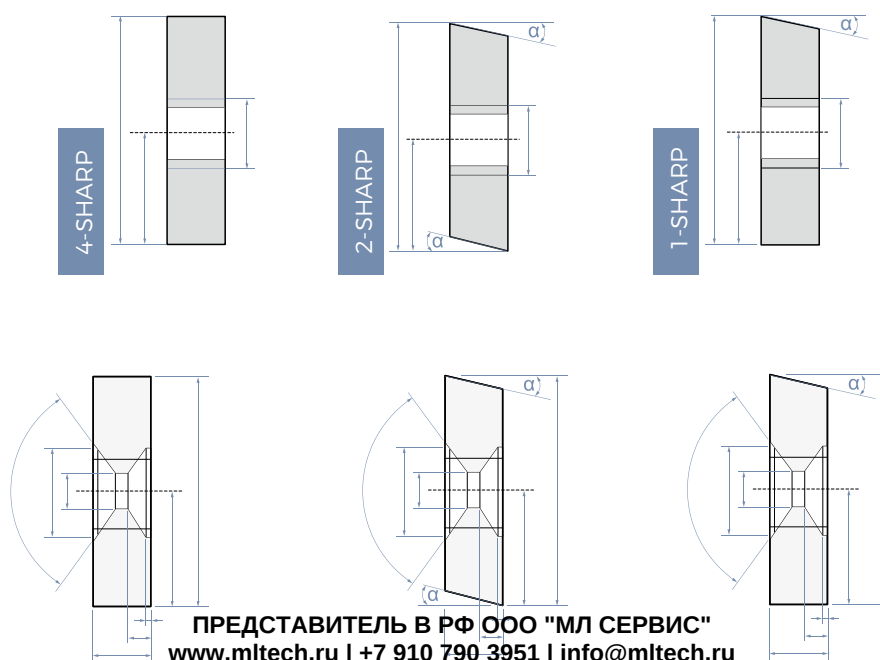
Min.mat.thickness	mm	about	%
Average mat.thickness	mm	about	%
max.mat.thickness	mm	about	%

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



CS.7181

1000 kN/m max

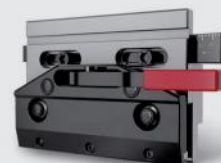
150mm	5.3 kg
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CS.7182

1000 kN/m max

150mm	5.3 kg
-------	--------



CS.7183

1000 kN/m max

150mm	7.7 kg
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CS.7184

1000 kN/m max

150mm	5.3 kg
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CS.7185

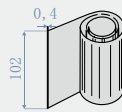
1000 kN/m max

150mm	7.7 kg
-------	--------



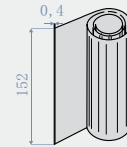
FMPF.04.102

30 m	1.8 kg
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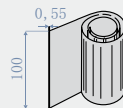
FMPF.04.152

30 m	2.4 kg
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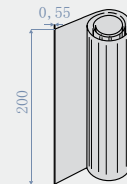
FMPF.055.100

30 m	1.5 kg
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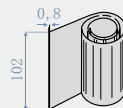
FMPF.055.200

30 m	3.0 kg
------	--------



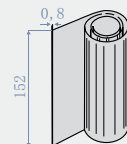
FMPF.08.102

30 m	3.3 kg
------	--------



FMPF.08.152

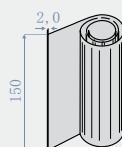
30 m	5.4 kg
------	--------



FMPF.2.150

1200 kN/m max²

25 m	10.0 kg
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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:

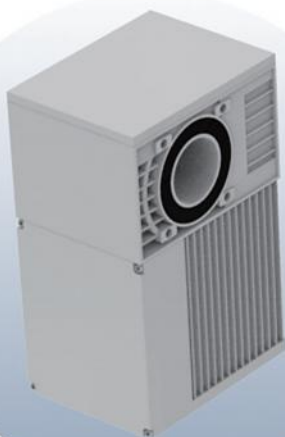
Easy reversibility of tools because of symmetrical adaption
 Hand crank with digital readout or CNC electric drive connected direct to the machine
 Hardened to 28 -32 HRC which makes it substantially tougher than the competition
 Micro crowning every 200mm
 T&Y adjustable 0-0.76mm (0-0.030")

2080×90×95mm

2500×90×95mm

3100×90×95mm

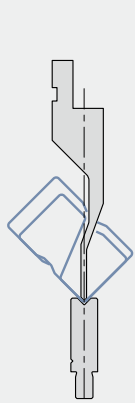
4130×90×95mm



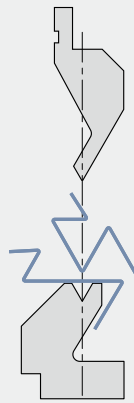
CROWNING SYSTEMS



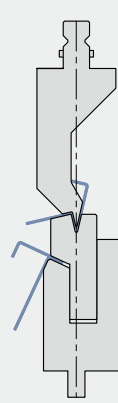
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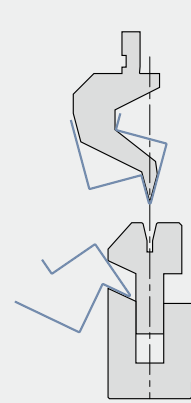
1. Punch/top-tool and die for special profile



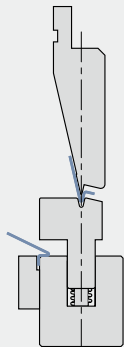
2. Punch/top-tool and die for special profile



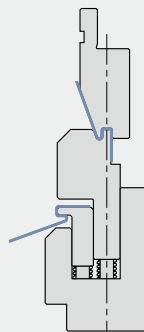
3. Pre-bending and flattening tool with spring loaded die



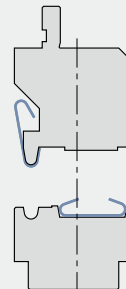
4. Pre-bending and flattening tool with spring loaded die



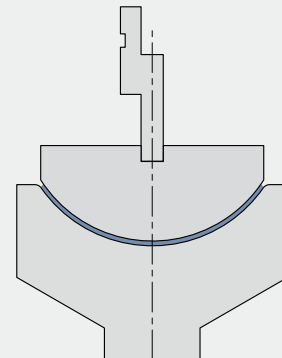
5. Pre-bending and flattening tool with spring loaded die and retainer



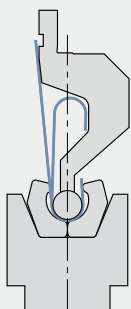
6. Pre-bending and flattening tool with spring loaded crash forming die and holding rail



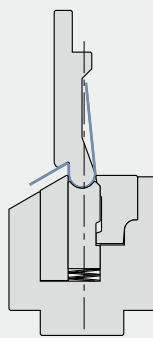
7. Pre-bending and flattening tool for bracket



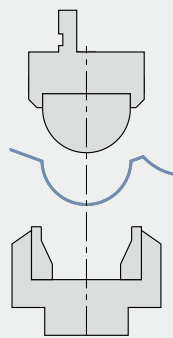
8. Radius crash-forming tool



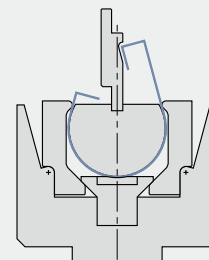
9. Radius tool with wings for over-bending



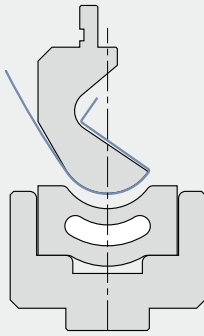
10. Radius tool with wings for over-bending and spring loaded ejector



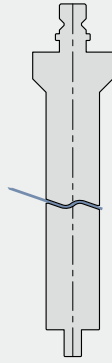
11. Radius-tool with adjustable flange



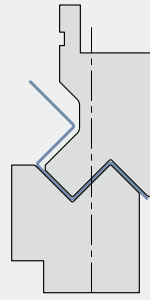
12. Radius tool with wings for over-bending and ejector



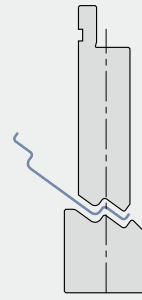
13. Radius-tool for bending with avothene inserts



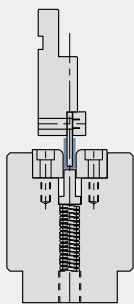
14. Joggle (Z) tool



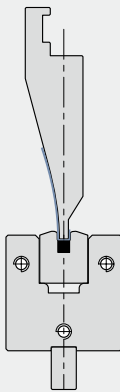
15. Joggle (Z) tool for multiple bendings



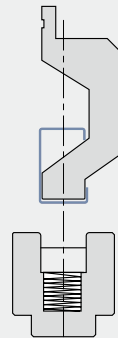
16. Crash-forming joggle (Z) tool with short flange



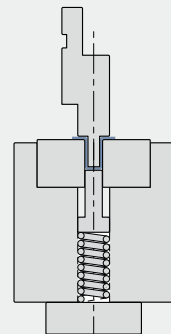
17. U-bending tool with bending strips and spring loaded ejector in the die and changeable blade at the punch/top-tool (working parts are exchangeable)



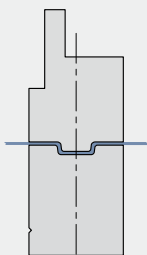
18. U-bending tool with avothene insert and counter-pressure strip and form punch/top-tool



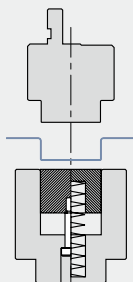
19. U-bending tool for C-profile in 2 strokes with spring loaded ejector



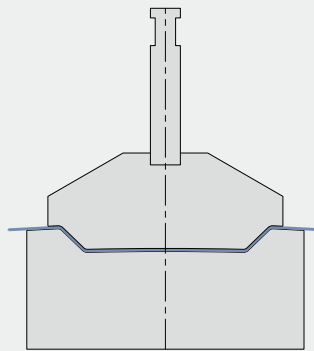
20. Top-hat-bending tool with bending strips and spring loaded ejector



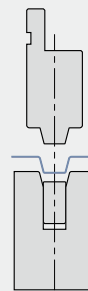
21. Top-hat crash-forming tool



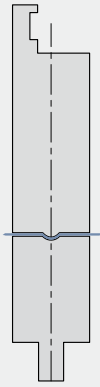
22. Top-hat-bending tool with spring loaded ejector



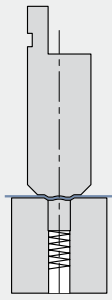
23. Trapezoidal crash-forming tool



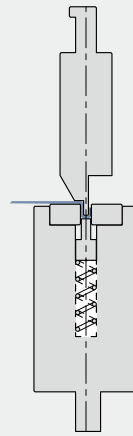
24. Trapezoidal-bending tool



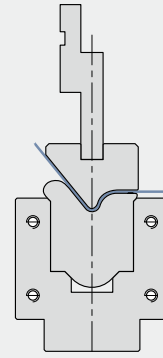
25. Radius swaging tool



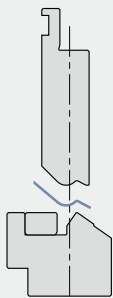
26. Double swaging tool with spring loaded ejector



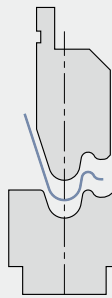
27. Crash-forming tool for brackets with bending strips and spring loaded ejector



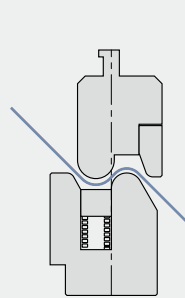
28. Crash-forming tool in avothene insert with form punch (mark free)



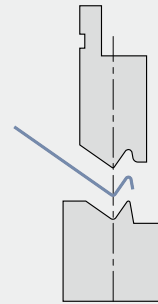
29. Crash-forming tool with adjustable bending strip in the die



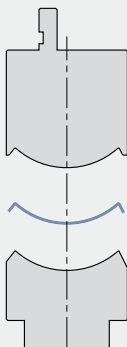
30. Crash-forming tool for joggle (Z) bendings with different radii



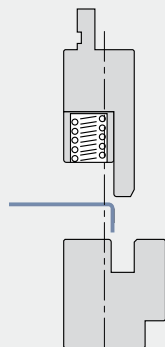
31. Adjustable joggle (Z) tool with spring loaded ejector



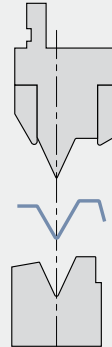
32. Crash-forming tool for multiple bendings in one stroke



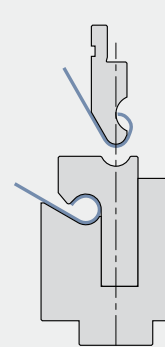
33. Crash-forming contour for big radii with short plates



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.

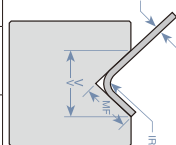
Special and Heavy duty Tools material

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.

	V (mm)	4	6	7	8	10	12	14	16	18	20	22	25	32	40	50	63	80	100	125	160	200	250
		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
THICKNESS 0.5mm	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									22.0	20.0	18.0	16.0	14.0	12.5	11.0							
	2.3mm									25.3	23.0	20.7	18.4	16.1	14.4	12.7							
	2.6mm										28.6	26.0	23.4	20.8	18.2	14.3							
	3.0mm										33.0	30.0	28.53	27.0	21.0	16.5							
	3.2mm											35.2	31.9	28.8	22.4	17.6	14.4						
	3.5mm												38.5	35.0	28.0	21.9	15.8	14.0					
	4.0mm													44.0	36.0	28.0	22.0	18.0					
	4.5mm														45.0	36.0	28.1	20.3					
	5.0mm														55.0	45.0	35.0	26.3	22.5				
	6.0mm															60.0	54.0	37.5	31.5	24.0			
	7.0mm																	56.0	43.8	31.5	28.0		
	9.0mm																		72.0	56.3	40.5		
	10.0mm																		90.0	70.0	52.5	45.0	
	12.0mm																			108.0	84.0	63.0	54.0
	16.0mm																				144.0	112.0	84.0
	19.0mm																					152.0	118.8
22.0mm																						176.0	
25.0mm																						225.0	
30.0mm																						270.0	

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

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

Soft Brass
 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.

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