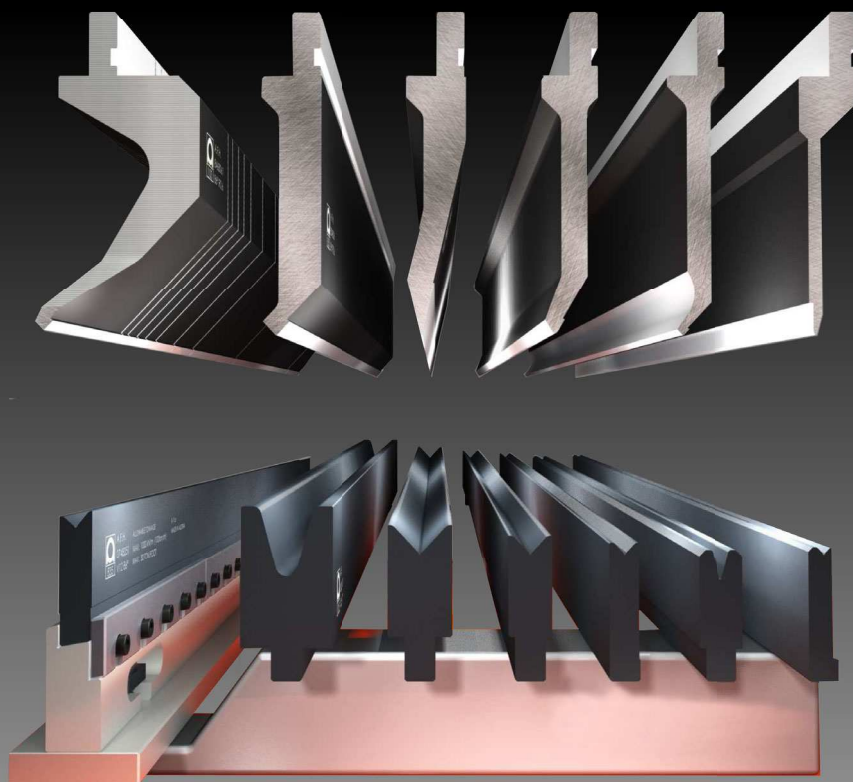


SOLUTION

BENDING TECHNOLOGY



BENDING TOOLS



New AFH



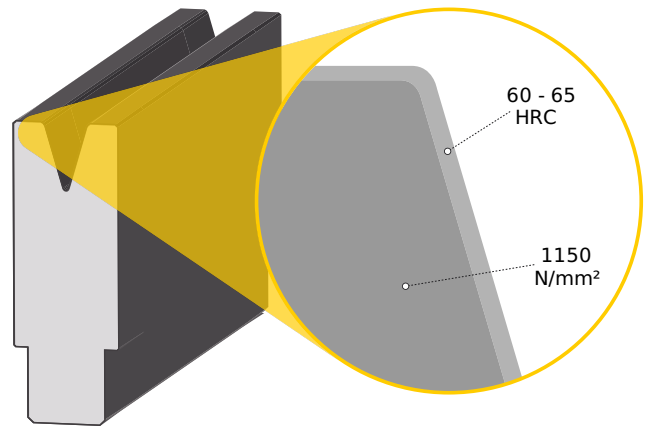
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Optimal protection & highest wear resistance

AMAN/IT® Press Brake Toolings have the best qualities for applications where very high wear and extreme load bearing occur.

- provides highest wear resistance on the tool surface (HRC 60-65)
- lowers the friction on the shoulder radii (by compound layer lubricity)
- has high tensile strength - 1150 N/mm²
- adds corrosion resistance to tooling



Tool type

Tip Angle

Maximum pressure

Production date



00406

88°

ALLOWABLE TONNAGE

R0.6 (.024)

MAX: 1000kN/m {100 ton/m}

(32.874)

MAX: 30 TON/FOOT

A-8A

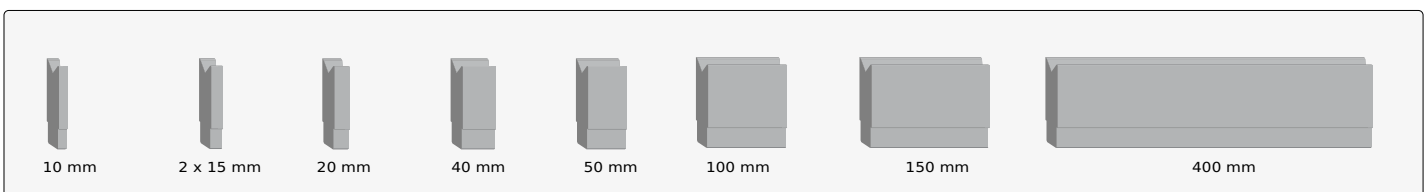
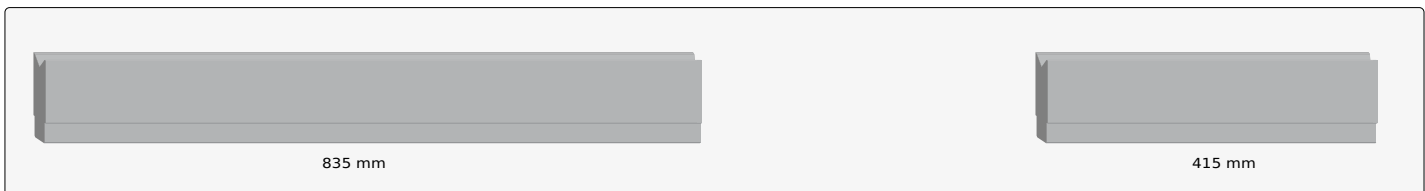
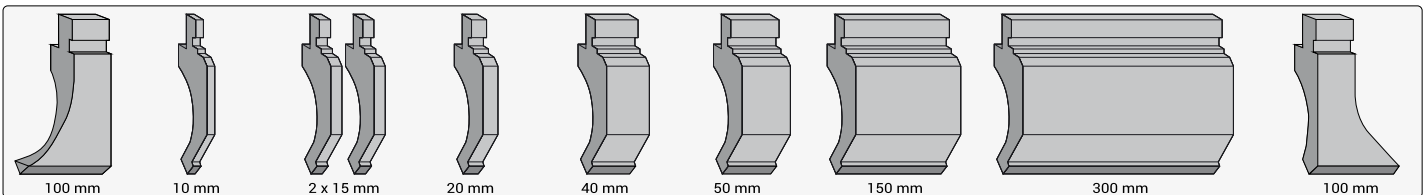
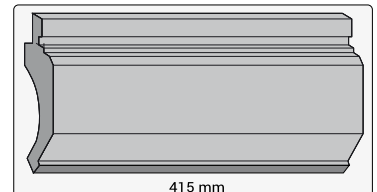
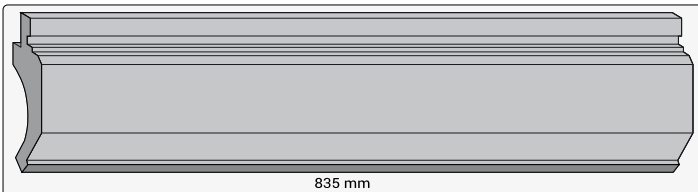
MADE IN AUSTRIA

Length
mm (inch)

Tip radius / V-Size
mm (inch)

Country of origin

Available lengths

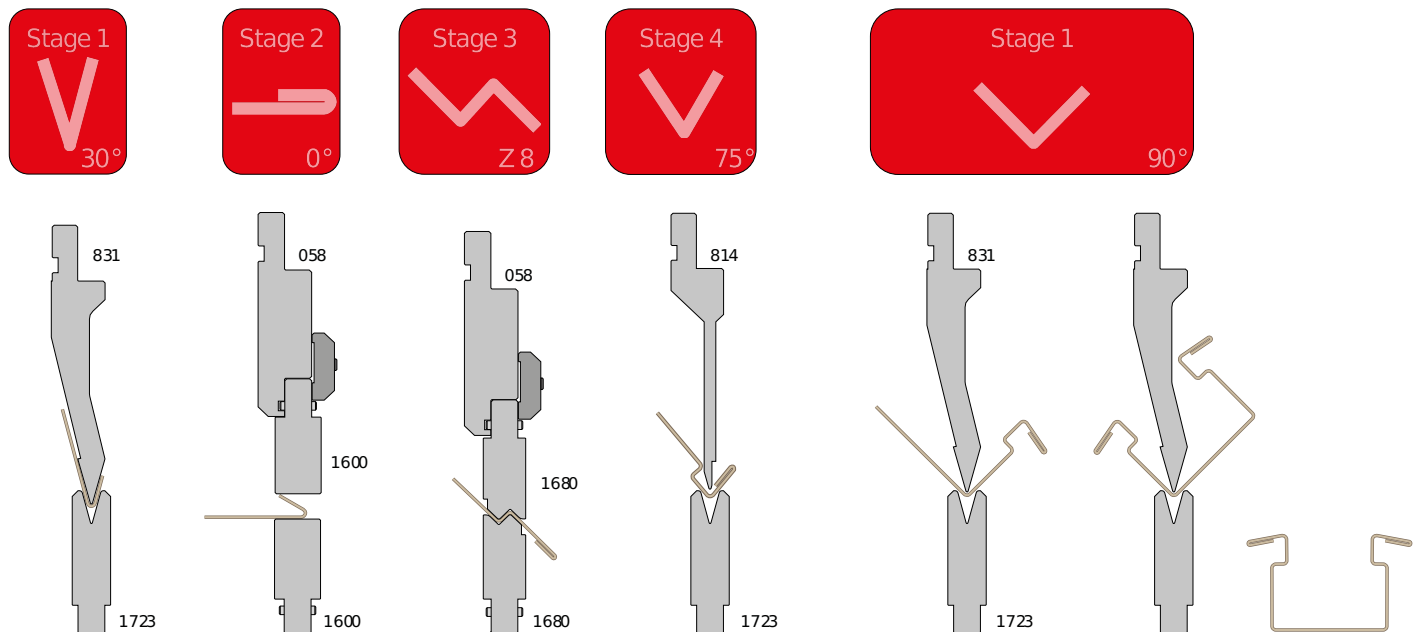


The nature of today's fabricating, with short runs and varied jobs, needs a new tool able to improve quality and productivity for complex sheet metal parts.

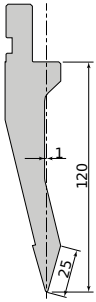
84° 86° 88° 90°	60°	30°	R	Z
> Thin nose 4mm straight punch > Thin nose 6mm gooseneck punch	> Gooseneck punch > R5 ; R6 punch	> 100 T/m hemming punch > Thin nose punch	> R7 – R50	> Z3 – Z10
> V4 to V40 > Staging dies up to V25	> V6 to V25	> V4 to V40 > Staging dies up to V25 > Staging hemming die	> up to V40	> Same tool as punch and die > Staging with 90° and hemming bends

Sharp angle, hemming and offset staging

Multiple punch and die profiles have a common stroke, making 90° stages, sharp angle stages, hemming stages and offset stages on one press brake possible.



26° Acute Punch - 831

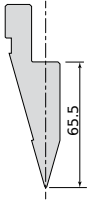


Angle	26°
Height	120 mm
Pressure	1000 kN/m
Hing	300 kN/m
Material	42CrMo4
Hardness	45 - 50 HRC Through hardened

Radius 0.6 mm

Length	Order number	Weight
415 mm (Short)	ES8312062	7.10 kg
835 mm (Long)	ES8312061	14.20 kg
800 mm (Sectionalized)	ES8312063	13.85 kg

30° Acute Punch - 631

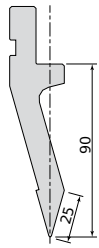


Angle	30°
Height	66 mm
Pressure	1000 kN/m
Hing	300 kN/m
Material	42CrMo4
Hardness	45 - 50 HRC Through hardened

Radius 0.52 mm

Length	Order number	Weight
835 mm (Long)	ES6313051	8.40 kg
415 mm (Short)	ES6313052	4.20 kg
800 mm (Sectionalized)	ES6313053	7.70 kg

30° Acute Punch - 731



Angle	30°
Height	90 mm
Pressure	1000 kN/m
Hing	300 kN/m
Material	42CrMo4
Hardness	45 - 50 HRC Through hardened

Radius 0.6 mm

Length	Order number	Weight
835 mm (Long)	ES7313061	10.25 kg
415 mm (Short)	ES7313062	5.15 kg
800 mm (Sectionalized)	ES7313063	10.30 kg

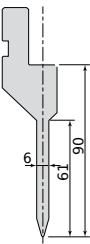
Radius 1.5 mm

Length	Order number	Weight
835 mm (Long)	ES7313151	10.20 kg
415 mm (Short)	ES7313152	5.15 kg
800 mm (Sectionalized)	ES7313153	10.25 kg

Radius 3.0 mm

Length	Order number	Weight
835 mm (Long)	ES7313301	10.10 kg
415 mm (Short)	ES7313302	5.05 kg
800 mm (Sectionalized)	ES7313303	10.20 kg

30° Sword Punch - 713

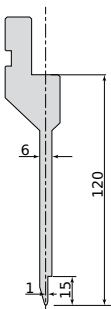


Angle	30°
Height	90 mm
Pressure	450 kN/m
Hing	120 kN/m
Material	42CrMo4
Hardness	45 - 50 HRC Through hardened

Radius 0.6 mm

Length	Order number	Weight
835 mm (Long)	ES7133061	8.90 kg
415 mm (Short)	ES7133062	4.50 kg
800 mm (Sectionalized)	ES7133063	9.00 kg

30° Acute Punch - 814

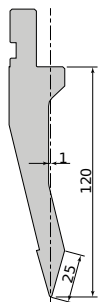


Angle	30°
Height	120 mm
Pressure	450 kN/m
Hing	120 kN/m
Material	42CrMo4
Hardness	45 - 50 HRC Through hardened

Radius 0.6 mm

Length	Order number	Weight
835 mm (Long)	ES8143061	10.00 kg
415 mm (Short)	ES8143062	5.00 kg
800 mm (Sectionalized)	ES8143063	9.50 kg

30° Acute Punch - 831



Angle	30°
Height	120 mm
Pressure	1000 kN/m
Hing	300 kN/m
Material	42CrMo4
Hardness	45 - 50 HRC Through hardened

Radius 0.6 mm

Length	Order number	Weight
835 mm (Long)	ES8313061	14.40 kg
415 mm (Short)	ES8313062	7.20 kg
800 mm (Sectionalized)	ES8313063	13.90 kg

Radius 1.5 mm

Length	Order number	Weight
415 mm (Short)	ES8313152	7.15 kg
835 mm (Long)	ES8313151	14.35 kg
800 mm (Sectionalized)	ES8313153	13.85 kg

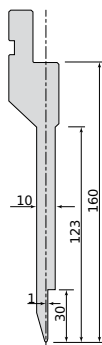
Radius 3.0 mm

Length	Order number	Weight
415 mm (Short)	ES8313302	7.10 kg
835 mm (Long)	ES8313301	14.20 kg
800 mm (Sectionalized)	ES8313303	13.80 kg

Radius 4.0 mm

Length	Order number	Weight
415 mm (Short)	ES8313402	7.05 kg
835 mm (Long)	ES8313401	14.10 kg
800 mm (Sectionalized)	ES8313403	13.80 kg

30° Acute Punch - 914

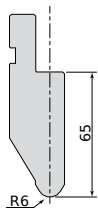


Angle	30°
Height	160 mm
Pressure	450 kN/m
Hing	120 kN/m
Material	42CrMo4
Hardness	45 - 50 HRC Through hardened

Radius 0.6 mm

Length	Order number	Weight
415 mm (Short)	ES9143062	9.10 kg
835 mm (Long)	ES9143061	18.15 kg
800 mm (Sectionalized)	ES9143063	17.00 kg

60° Heavy Duty Punch - 603

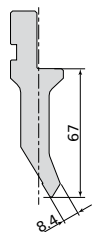


Angle	60°
Height	65 mm
Pressure	1000 kN/m
Hing	1000 kN/m
Material	42CrMo4
Hardness	45 - 50 HRC Through hardened

Radius 6.0 mm

Length	Order number	Weight
835 mm (Long)	ES6036601	12.10 kg
415 mm (Short)	ES6036602	6.00 kg
800 mm (Sectionalized)	ES6036603	10.90 kg

60° Sword Punch - 640



Angle	60°
Height	67 mm
Pressure	1000 kN/m
Hing	300 kN/m
Material	42CrMo4
Hardness	45 - 50 HRC Through hardened

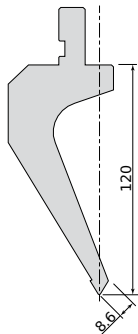
Radius 0.8 mm

Length	Order number	Weight
835 mm (Long)	ES6406081	8.50 kg
415 mm (Short)	ES6406082	4.30 kg
800 mm (Sectionalized)	ES6406083	8.40 kg

Radius 2.0 mm

Length	Order number	Weight
835 mm (Long)	ES6406201	8.50 kg
415 mm (Short)	ES6406202	4.25 kg
800 mm (Sectionalized)	ES6406203	8.35 kg

60° Gooseneck Punch - 841



Angle	60°
Height	120 mm
Pressure	700 kN/m
Hing	300 kN/m
Material	42CrMo4
Hardness	45 - 50 HRC Through hardened

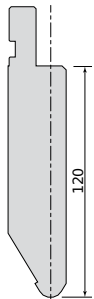
Radius 0.6 mm

Length	Order number	Weight
415 mm (Short)	ES8416062	9.80 kg
835 mm (Long)	ES8416061	19.55 kg
800 mm (Sectionalized)	ES8416063	18.05 kg

Radius 1.5 mm

Length	Order number	Weight
415 mm (Short)	ES8416152	9.80 kg
835 mm (Long)	ES8416151	19.60 kg
800 mm (Sectionalized)	ES8416153	18.05 kg

60° Heavy Duty Punch - 803



Angle	60°
Height	120 mm
Pressure	1000 kN/m
Hing	1000 kN/m
Material	42CrMo4
Hardness	45 - 50 HRC Through hardened

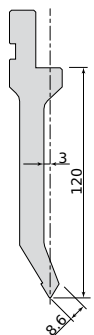
Radius 5.0 mm

Length	Order number	Weight
835 mm (Long)	ES8036501	22.15 kg
415 mm (Short)	ES8036502	11.05 kg
800 mm (Sectionalized)	ES8036503	20.65 kg

Radius 6.0 mm

Length	Order number	Weight
415 mm (Short)	ES8036602	11.00 kg
835 mm (Long)	ES8036601	22.05 kg
800 mm (Sectionalized)	ES8036603	20.60 kg

60° Sword Punch - 840



Angle	60°
Height	120 mm
Pressure	700 kN/m
Hing	300 kN/m
Material	42CrMo4
Hardness	45 - 50 HRC Through hardened

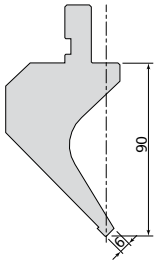
Radius 0.6 mm

Length	Order number	Weight
415 mm (Short)	ES8406062	6.35 kg
835 mm (Long)	ES8406061	12.65 kg
800 mm (Sectionalized)	ES8406063	12.00 kg

Radius 1.5 mm

Length	Order number	Weight
835 mm (Long)	ES8406151	12.65 kg
415 mm (Short)	ES8406152	6.30 kg
800 mm (Sectionalized)	ES8406153	11.90 kg

86° Gooseneck Punch - 746

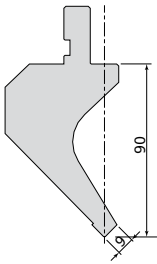


Angle	86°
Height	90 mm
Pressure	550 kN/m
Hing	350 kN/m
Material	42CrMo4
Hardness	45 - 50 HRC Through hardened

Radius 0.6 mm

Length	Order number	Weight
835 mm (Long)	ES7468061	18.90 kg
415 mm (Short)	ES7468062	9.30 kg
800 mm (Sectionalized)	ES7468063	17.30 kg

86° Gooseneck Punch - 747



Angle	86°
Height	90 mm
Pressure	800 kN/m
Hing	450 kN/m
Material	42CrMo4
Hardness	45 - 50 HRC Through hardened

Radius 0.6 mm

Length	Order number	Weight
835 mm (Long)	ES7478061	19.65 kg
415 mm (Short)	ES7478062	9.85 kg
800 mm (Sectionalized)	ES7478063	18.25 kg

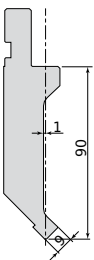
Radius 1.5 mm

Length	Order number	Weight
835 mm (Long)	ES7478151	19.60 kg
415 mm (Short)	ES7478152	9.85 kg
800 mm (Sectionalized)	ES7478153	18.25 kg

Radius 3.0 mm

Length	Order number	Weight
415 mm (Short)	ES7478302	9.85 kg
835 mm (Long)	ES7478301	19.60 kg
800 mm (Sectionalized)	ES7478303	18.25 kg

86° Standard Punch - 704



Angle	86°
Height	90 mm
Pressure	1000 kN/m
Hing	450 kN/m
Material	42CrMo4
Hardness	45 - 50 HRC Through hardened

Radius 0.6 mm

Length	Order number	Weight
835 mm (Long)	ES7048061	13.65 kg
415 mm (Short)	ES7048062	6.80 kg
800 mm (Sectionalized)	ES7048063	13.00 kg

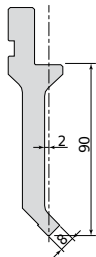
Radius 1.5 mm

Length	Order number	Weight
835 mm (Long)	ES7048151	13.60 kg
415 mm (Short)	ES7048152	6.80 kg
800 mm (Sectionalized)	ES7048153	12.95 kg

Radius 3.0 mm

Length	Order number	Weight
415 mm (Short)	ES7048302	6.80 kg
835 mm (Long)	ES7048301	13.60 kg
800 mm (Sectionalized)	ES7048303	12.95 kg

86° Sword Punch - 720



Angle	86°
Height	90 mm
Pressure	500 kN/m
Hing	200 kN/m
Material	42CrMo4
Hardness	45 - 50 HRC Through hardened

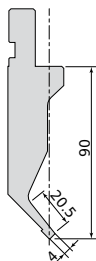
Radius 0.6 mm

Length	Order number	Weight
835 mm (Long)	ES7208061	9.40 kg
415 mm (Short)	ES7208062	4.70 kg
800 mm (Sectionalized)	ES7208063	9.40 kg

Radius 1.5 mm

Length	Order number	Weight
835 mm (Long)	ES7208151	8.90 kg
415 mm (Short)	ES7208152	4.70 kg
800 mm (Sectionalized)	ES7208153	8.10 kg

86° Thin Sheet Punch - 717

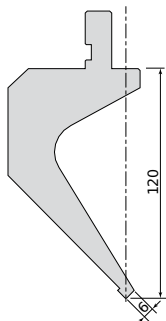


Angle	86°
Height	90 mm
Pressure	200 kN/m
Hing	150 kN/m
Material	42CrMo4
Hardness	45 - 50 HRC Through hardened

Radius 0.6 mm

Length	Order number	Weight
835 mm (Long)	ES7178061	12.00 kg
415 mm (Short)	ES7178062	6.00 kg
800 mm (Sectionalized)	ES7178063	12.15 kg

86° Gooseneck Punch - 846

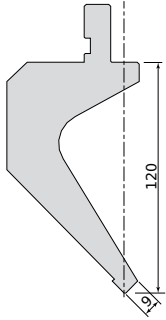


Angle	86°
Height	120 mm
Pressure	450 kN/m
Hing	350 kN/m
Material	42CrMo4
Hardness	45 - 50 HRC Through hardened

Radius 0.6 mm

Length	Order number	Weight
415 mm (Short)	ES8468062	11.85 kg
835 mm (Long)	ES8468061	23.75 kg
800 mm (Sectionalized)	ES8468063	21.80 kg

86° Gooseneck Punch - 847



Angle	86°
Height	120 mm
Pressure	500 kN/m
Hing	450 kN/m
Material	42CrMo4
Hardness	45 - 50 HRC Through hardened

Radius 0.6 mm

Length	Order number	Weight
415 mm (Short)	ES8478062	12.70 kg
835 mm (Long)	ES8478061	25.40 kg
800 mm (Sectionalized)	ES8478063	23.30 kg

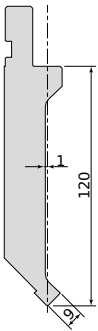
Radius 1.5 mm

Length	Order number	Weight
415 mm (Short)	ES8478152	12.70 kg
835 mm (Long)	ES8478151	25.60 kg
800 mm (Sectionalized)	ES8478153	22.50 kg

Radius 3.0 mm

Length	Order number	Weight
415 mm (Short)	ES8478302	12.75 kg
835 mm (Long)	ES8478301	25.60 kg
800 mm (Sectionalized)	ES8478303	23.30 kg

86° Standard Punch - 804



Angle	86°
Height	120 mm
Pressure	1000 kN/m
Hing	450 kN/m
Material	42CrMo4
Hardness	45 - 50 HRC Through hardened

Radius 0.6 mm

Length	Order number	Weight
415 mm (Short)	ES8048062	8.70 kg
835 mm (Long)	ES8048061	17.30 kg
800 mm (Sectionalized)	ES8048063	16.20 kg

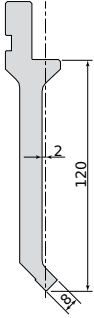
Radius 1.5 mm

Length	Order number	Weight
835 mm (Long)	ES8048151	17.35 kg
415 mm (Short)	ES8048152	8.70 kg
800 mm (Sectionalized)	ES8048153	16.25 kg

Radius 3.0 mm

Length	Order number	Weight
835 mm (Long)	ES8048301	17.40 kg
415 mm (Short)	ES8048302	8.65 kg
800 mm (Sectionalized)	ES8048303	16.50 kg

86° Sword Punch - 820



Angle	86°
Height	120 mm
Pressure	500 kN/m
Hing	200 kN/m
Material	42CrMo4
Hardness	45 - 50 HRC Through hardened

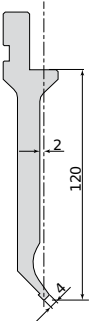
Radius 0.6 mm

Length	Order number	Weight
415 mm (Short)	ES8208062	5.95 kg
835 mm (Long)	ES8208061	11.90 kg
800 mm (Sectionalized)	ES8208063	11.65 kg

Radius 1.5 mm

Length	Order number	Weight
415 mm (Short)	ES8208152	6.00 kg
835 mm (Long)	ES8208151	11.90 kg
800 mm (Sectionalized)	ES8208153	11.75 kg

86° Thin Sheet Punch - 817

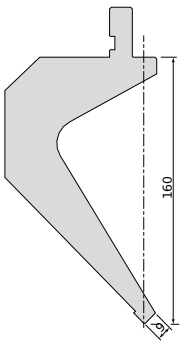


Angle	86°
Height	120 mm
Pressure	300 kN/m
Hing	150 kN/m
Material	42CrMo4
Hardness	45 - 50 HRC Through hardened

Radius 0.6 mm

Length	Order number	Weight
415 mm (Short)	ES8178062	5.70 kg
835 mm (Long)	ES8178061	11.40 kg
800 mm (Sectionalized)	ES8178063	11.60 kg

86° Gooseneck Punch - 947



Angle	86°
Height	160 mm
Pressure	500 kN/m
Hing	450 kN/m
Material	42CrMo4
Hardness	45 - 50 HRC Through hardened

Radius 0.6 mm

Length	Order number	Weight
415 mm (Short)	ES9478062	22.00 kg
835 mm (Long)	ES9478061	43.60 kg
800 mm (Sectionalized)	ES9478063	38.70 kg

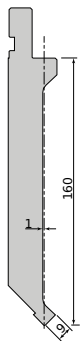
Radius 1.5 mm

Length	Order number	Weight
835 mm (Long)	ES9478151	43.40 kg
415 mm (Short)	ES9478152	22.00 kg
800 mm (Sectionalized)	ES9478153	38.70 kg

Radius 3.0 mm

Length	Order number	Weight
835 mm (Long)	ES9478301	43.60 kg
415 mm (Short)	ES9478302	21.90 kg
800 mm (Sectionalized)	ES9478303	38.60 kg

86° Standard Punch - 904



Angle	86°
Height	160 mm
Pressure	1000 kN/m
Hing	450 kN/m
Material	42CrMo4
Hardness	45 - 50 HRC Through hardened

Radius 0.6 mm

Length	Order number	Weight
835 mm (Long)	ES9048061	25.10 kg
415 mm (Short)	ES9048062	12.65 kg
800 mm (Sectionalized)	ES9048063	22.25 kg

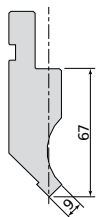
Radius 1.5 mm

Length	Order number	Weight
835 mm (Long)	ES9048151	25.05 kg
415 mm (Short)	ES9048152	12.60 kg
800 mm (Sectionalized)	ES9048153	22.35 kg

Radius 3.0 mm

Length	Order number	Weight
835 mm (Long)	ES9048301	25.10 kg
415 mm (Short)	ES9048302	12.60 kg
800 mm (Sectionalized)	ES9048303	22.40 kg

88° Standard Punch - 604



Angle	88°
Height	67 mm
Pressure	1000 kN/m
Hing	450 kN/m
Material	42CrMo4
Hardness	45 - 50 HRC Through hardened

Radius 0.2 mm

Length	Order number	Weight
415 mm (Short)	ES6047022	5.50 kg
835 mm (Long)	ES6047021	11.00 kg
800 mm (Sectionalized)	ES6047023	9.70 kg

Radius 0.6 mm

Length	Order number	Weight
835 mm (Long)	ES6047061	11.00 kg
415 mm (Short)	ES6047062	5.50 kg
800 mm (Sectionalized)	ES6047063	9.70 kg

Radius 0.8 mm

Length	Order number	Weight
835 mm (Long)	ES6047081	11.00 kg
415 mm (Short)	ES6047082	5.50 kg
800 mm (Sectionalized)	ES6047083	9.70 kg

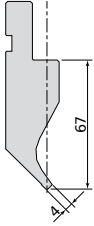
Radius 1.5 mm

Length	Order number	Weight
835 mm (Long)	ES6047151	11.00 kg
415 mm (Short)	ES6047152	5.50 kg
800 mm (Sectionalized)	ES6047153	9.70 kg

Radius 3.0 mm

Length	Order number	Weight
835 mm (Long)	ES6047301	11.00 kg
415 mm (Short)	ES6047302	5.50 kg
800 mm (Sectionalized)	ES6047303	9.70 kg

88° Thin Sheet Punch - 617



Angle	88°
Height	67 mm
Pressure	300 kN/m
Hing	150 kN/m
Material	42CrMo4
Hardness	45 - 50 HRC Through hardened

Radius 0.2 mm

Length	Order number	Weight
415 mm (Short)	ES6177022	5.10 kg
835 mm (Long)	ES6177021	10.20 kg
800 mm (Sectionalized)	ES6177023	9.50 kg

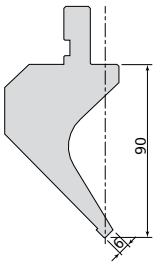
Radius 0.6 mm

Length	Order number	Weight
415 mm (Short)	ES6177062	5.10 kg
835 mm (Long)	ES6177061	10.20 kg
800 mm (Sectionalized)	ES6177063	9.50 kg

Radius 0.8 mm

Length	Order number	Weight
835 mm (Long)	ES6177081	10.20 kg
415 mm (Short)	ES6177082	5.10 kg
800 mm (Sectionalized)	ES6177083	9.50 kg

88° Gooseneck Punch - 746

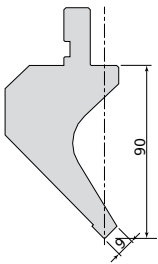


Angle	88°
Height	90 mm
Pressure	550 kN/m
Hing	350 kN/m
Material	42CrMo4
Hardness	45 - 50 HRC Through hardened

Radius 0.6 mm

Length	Order number	Weight
835 mm (Long)	ES7467061	18.60 kg
415 mm (Short)	ES7467062	9.35 kg
800 mm (Sectionalized)	ES7467063	17.30 kg

88° Gooseneck Punch - 747

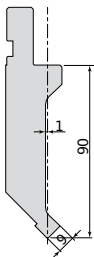


Angle	88°
Height	90 mm
Pressure	800 kN/m
Hing	450 kN/m
Material	42CrMo4
Hardness	45 - 50 HRC Through hardened

Radius 0.6 mm

Length	Order number	Weight
835 mm (Long)	ES7477061	19.65 kg
415 mm (Short)	ES7477062	9.30 kg
800 mm (Sectionalized)	ES7477063	18.25 kg

88° Standard Punch - 704

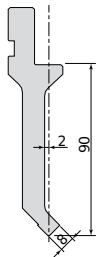


Angle	88°
Height	90 mm
Pressure	1000 kN/m
Hing	450 kN/m
Material	42CrMo4
Hardness	45 - 50 HRC Through hardened

Radius 0.6 mm

Length	Order number	Weight
835 mm (Long)	ES7047061	13.60 kg
415 mm (Short)	ES7047062	6.80 kg
800 mm (Sectionalized)	ES7047063	12.95 kg

88° Sword Punch - 720

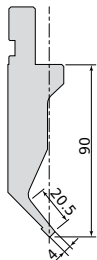


Angle	88°
Height	90 mm
Pressure	500 kN/m
Hing	200 kN/m
Material	42CrMo4
Hardness	45 - 50 HRC Through hardened

Radius 0.6 mm

Length	Order number	Weight
835 mm (Long)	ES7207061	9.35 kg
415 mm (Short)	ES7207062	4.70 kg
800 mm (Sectionalized)	ES7207063	9.40 kg

88° Thin Sheet Punch - 717

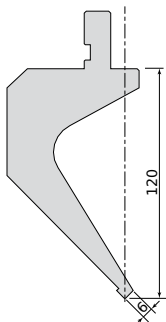


Angle	88°
Height	90 mm
Pressure	200 kN/m
Hing	150 kN/m
Material	42CrMo4
Hardness	45 - 50 HRC Through hardened

Radius 0.6 mm

Length	Order number	Weight
835 mm (Long)	ES7177061	12.05 kg
415 mm (Short)	ES7177062	6.00 kg
800 mm (Sectionalized)	ES7177063	12.15 kg

88° Gooseneck Punch - 846

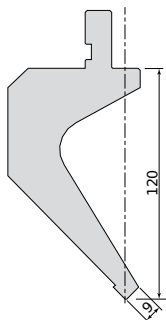


Angle	88°
Height	120 mm
Pressure	450 kN/m
Hing	350 kN/m
Material	42CrMo4
Hardness	45 - 50 HRC Through hardened

Radius 0.6 mm

Length	Order number	Weight
415 mm (Short)	ES8467062	11.90 kg
835 mm (Long)	ES8467061	23.70 kg
800 mm (Sectionalized)	ES8467063	21.90 kg

88° Gooseneck Punch - 847

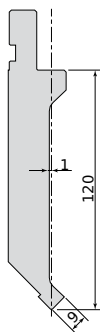


Angle	88°
Height	120 mm
Pressure	500 kN/m
Hing	450 kN/m
Material	42CrMo4
Hardness	45 - 50 HRC Through hardened

Radius 0.6 mm

Length	Order number	Weight
415 mm (Short)	ES8477062	12.15 kg
835 mm (Long)	ES8477061	25.50 kg
800 mm (Sectionalized)	ES8477063	23.30 kg

88° Standard Punch - 804

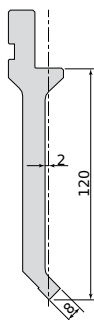


Angle	88°
Height	120 mm
Pressure	1000 kN/m
Hing	450 kN/m
Material	42CrMo4
Hardness	45 - 50 HRC Through hardened

Radius 0.6 mm

Length	Order number	Weight
835 mm (Long)	ES8047061	17.35 kg
415 mm (Short)	ES8047062	8.70 kg
800 mm (Sectionalized)	ES8047063	16.25 kg

88° Sword Punch - 820

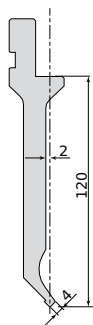


Angle	88°
Height	120 mm
Pressure	500 kN/m
Hing	200 kN/m
Material	42CrMo4
Hardness	45 - 50 HRC Through hardened

Radius 0.6 mm

Length	Order number	Weight
415 mm (Short)	ES8207062	5.95 kg
835 mm (Long)	ES8207061	11.85 kg
800 mm (Sectionalized)	ES8207063	11.65 kg

88° Thin Sheet Punch - 817

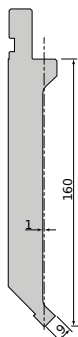


Angle	88°
Height	120 mm
Pressure	300 kN/m
Hing	150 kN/m
Material	42CrMo4
Hardness	45 - 50 HRC Through hardened

Radius 0.6 mm

Length	Order number	Weight
415 mm (Short)	ES8177062	5.00 kg
835 mm (Long)	ES8177061	11.35 kg
800 mm (Sectionalized)	ES8177063	11.55 kg

88° Standard Punch - 904

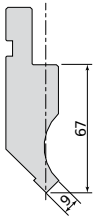


Angle	88°
Height	160 mm
Pressure	1000 kN/m
Hing	450 kN/m
Material	42CrMo4
Hardness	45 - 50 HRC Through hardened

Radius 0.6 mm

Length	Order number	Weight
835 mm (Long)	ES9047061	24.95 kg
415 mm (Short)	ES9047062	12.65 kg
800 mm (Sectionalized)	ES9047063	22.35 kg

90° Standard Punch - 604



Angle	90°
Height	67 mm
Pressure	1000 kN/m
Hing	450 kN/m
Material	42CrMo4
Hardness	45 - 50 HRC Through hardened

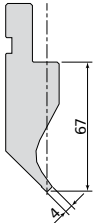
Radius 0.2 mm

Length	Order number	Weight
835 mm (Long)	ES6049021	11.00 kg
415 mm (Short)	ES6049022	5.50 kg
800 mm (Sectionalized)	ES6049023	9.70 kg

Radius 0.6 mm

Length	Order number	Weight
835 mm (Long)	ES6049061	11.15 kg
415 mm (Short)	ES6049062	5.60 kg
800 mm (Sectionalized)	ES6049063	10.60 kg

90° Thin Sheet Punch - 617



Angle	90°
Height	67 mm
Pressure	300 kN/m
Hing	150 kN/m
Material	42CrMo4
Hardness	45 - 50 HRC Through hardened

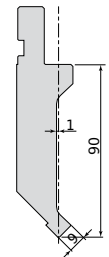
Radius 0.2 mm

Length	Order number	Weight
835 mm (Long)	ES6179021	10.35 kg
415 mm (Short)	ES6179022	5.20 kg
800 mm (Sectionalized)	ES6179023	10.30 kg

Radius 0.6 mm

Length	Order number	Weight
835 mm (Long)	ES6179061	10.40 kg
415 mm (Short)	ES6179062	5.15 kg
800 mm (Sectionalized)	ES6179063	10.30 kg

90° Standard Punch - 704

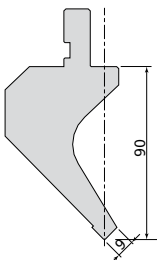


Angle	90°
Height	90 mm
Pressure	1000 kN/m
Hing	450 kN/m
Material	42CrMo4
Hardness	45 - 50 HRC Through hardened

Radius 0.6 mm

Length	Order number	Weight
835 mm (Long)	ES7049061	15.00 kg
415 mm (Short)	ES7049062	7.50 kg
800 mm (Sectionalized)	ES7049063	13.60 kg

90° Standard Punch - 747

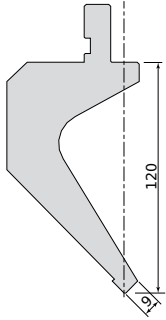


Angle	90°
Height	90 mm
Pressure	800 kN/m
Hing	450 kN/m
Material	42CrMo4
Hardness	45 - 50 HRC Through hardened

Radius 0.6 mm

Length	Order number	Weight
835 mm (Long)	ES7479061	19.70 kg
415 mm (Short)	ES7479062	9.85 kg
800 mm (Sectionalized)	ES7479063	18.03 kg

90° Gooseneck Punch - 847

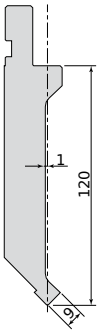


Angle	90°
Height	120 mm
Pressure	500 kN/m
Hing	450 kN/m
Material	42CrMo4
Hardness	45 - 50 HRC Through hardened

Radius 0.6 mm

Length	Order number	Weight
415 mm (Short)	ES8479062	12.75 kg
835 mm (Long)	ES8479061	25.45 kg
800 mm (Sectionalized)	ES8479063	23.40 kg

90° Standard Punch - 804

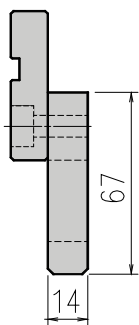


Angle	90°
Height	120 mm
Pressure	1000 kN/m
Hing	450 kN/m
Material	42CrMo4
Hardness	45 - 50 HRC Through hardened

Radius 0.6 mm

Length	Order number	Weight
835 mm (Long)	ES8049061	17.40 kg
415 mm (Short)	ES8049062	8.70 kg
800 mm (Sectionalized)	ES8049063	16.25 kg

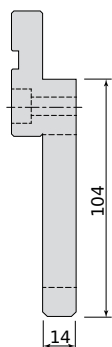
Radiuspunch holder - 0150



Height	67.0 mm
Width	14.0 mm
Pressure	1000 kN/m

Length	Order number	Weight
830 mm	EH0150001	9.8 kg
412 mm	EH0150002	4.9 kg

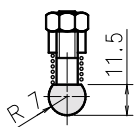
Radiuspunch holder - 0160



Height	104.0 mm
Width	14.0 mm
Pressure	1000 kN/m

Length	Order number	Weight
830 mm	EH0160001	12.9 kg
412 mm	EH0160002	6.4 kg

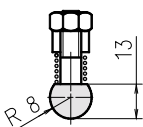
Radius tool - R7



Height	11.5 mm
Width	14.0 mm
Pressure	1000 kN/m

Length	Order number	Weight
835 mm	ES0170071	1.0 kg
415 mm	ES0170072	0.6 kg

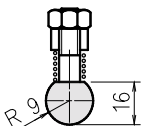
Radius tool - R8



Height	13.0 mm
Width	16.0 mm
Pressure	1000 kN/m

Length	Order number	Weight
835 mm	ES0170081	1.5 kg
415 mm	ES0170082	0.8 kg

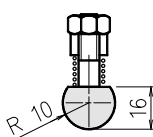
Radius tool - R9



Height	16.0 mm
Width	18.0 mm
Pressure	1000 kN/m

Length	Order number	Weight
835 mm	ES0170091	1.9 kg
415 mm	ES0170092	0.9 kg

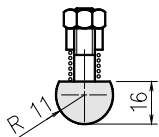
Radius tool - R10



Height	16.0 mm
Width	20.0 mm
Pressure	1000 kN/m

Length	Order number	Weight
835 mm	ES0170101	2.1 kg
415 mm	ES0170102	1.1 kg

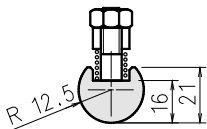
Radius tool - R11



Height	16.0 mm
Width	22.0 mm
Pressure	1000 kN/m

Length	Order number	Weight
835 mm	ES0170111	2.3 kg
415 mm	ES0170112	1.2 kg

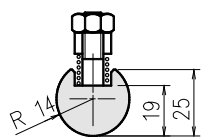
Radius tool - R12.5



Height	16.0 mm
Width	25.0 mm
Pressure	1000 kN/m

Length	Order number	Weight
835 mm	ES0170121	2.7 kg
415 mm	ES0170122	1.4 kg

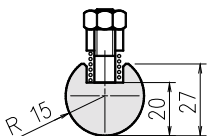
Radius tool - R14



Height	19.0 mm
Width	28.0 mm
Pressure	1000 kN/m

Length	Order number	Weight
835 mm	ES0170141	3.6 kg
415 mm	ES0170142	1.8 kg

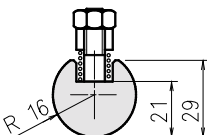
Radius tool - R15



Height	20.0 mm
Width	30.0 mm
Pressure	1000 kN/m

Length	Order number	Weight
835 mm	ES0170151	4.1 kg
415 mm	ES0170152	2.0 kg

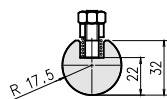
Radius tool - R16



Height	21.0 mm
Width	32.0 mm
Pressure	1000 kN/m

Length	Order number	Weight
835 mm	ES0170161	4.6 kg
415 mm	ES0170162	2.3 kg

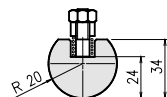
Radius tool - R17.5



Height	22.0 mm
Width	35.0 mm
Pressure	1000 kN/m

Length	Order number	Weight
835 mm	ES0170171	5.2 kg
415 mm	ES0170172	2.8 kg

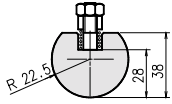
Radius tool - R20



Height	24.0 mm
Width	40.0 mm
Pressure	1000 kN/m

Length	Order number	Weight
835 mm	ES0170201	6.8 kg
415 mm	ES0170202	3.4 kg

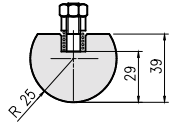
Radius tool - R22.5



Height	28.0 mm
Width	45.0 mm
Pressure	1000 kN/m

Length	Order number	Weight
835 mm	ES0170221	8.8 kg
415 mm	ES0170222	4.4 kg

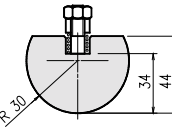
Radius tool - R25



Height	29.0 mm
Width	50.0 mm
Pressure	1000 kN/m

Length	Order number	Weight
835 mm	ES0170251	10.2 kg
415 mm	ES0170252	5.1 kg

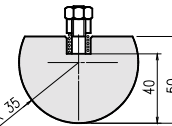
Radius tool - R30



Height	34.0 mm
Width	60.0 mm
Pressure	1000 kN/m

Length	Order number	Weight
835 mm	ES0170301	14.0 kg
415 mm	ES0170302	7.0 kg

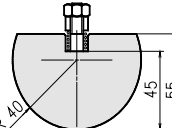
Radius tool - R35



Height	40.0 mm
Width	70.0 mm
Pressure	1000 kN/m

Length	Order number	Weight
835 mm	ES0170351	18.9 kg
415 mm	ES0170352	14.2 kg

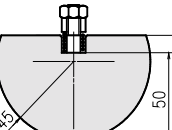
Radius tool - R40



Height	45.0 mm
Width	80.0 mm
Pressure	1000 kN/m

Length	Order number	Weight
835 mm	ES0170401	23.7 kg
415 mm	ES0170402	11.7 kg

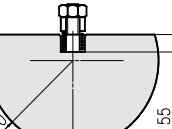
Radius tool - R45



Height	50.0 mm
Width	90.0 mm
Pressure	1000 kN/m

Length	Order number	Weight
835 mm	ES0170451	29.1 kg
415 mm	ES0170452	14.5 kg

Radius tool - R50



Height	55.0 mm
Width	100.0 mm
Pressure	1000 kN/m

Length	Order number	Weight
835 mm	ES0170501	35.0 kg
415 mm	ES0170502	17.5 kg

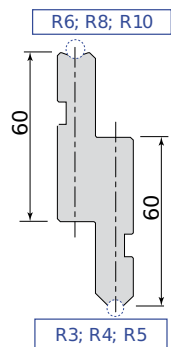
Radius tool - CR-30

□

Height	103.0 mm
Width	60.0 mm
Pressure	250 kN/m

Length	Order number	Weight
835 mm	10030001	13.0 kg
415 mm	10030002	6.4 kg
800 mm (Sectionalized)	10030801	13.0 kg

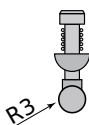
Holder for radius ruler



Height	0.0 mm
Width	0.0 mm
Pressure	-
Material	-
Hardness	-

Length	Order number	Weight
835 mm	0	0.0 kg
415 mm	0	0.0 kg
800 mm (Sectionalized)	0	0.0 kg

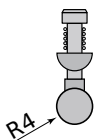
Radius Ruler - R3



Height	31.5 mm
Width	6.0 mm
Pressure	1000 kN/m

Length	Order number	Weight
835 mm	10090301	0.2 kg
415 mm	10090302	0.1 kg
800 mm (Sectionalized)	10090831	0.2 kg

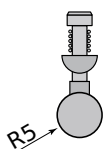
Radius Ruler - R4



Height	33.7 mm
Width	8.0 mm
Pressure	1000 kN/m

Length	Order number	Weight
835 mm	10090401	0.3 kg
415 mm	10090402	0.1 kg
800 mm (Sectionalized)	10090841	0.3 kg

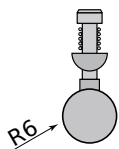
Radius Ruler - R5



Height	35.7 mm
Width	10.0 mm
Pressure	1000 kN/m

Length	Order number	Weight
835 mm	10090501	0.5 kg
415 mm	10090502	0.5 kg
800 mm (Sectionalized)	10090851	0.5 kg

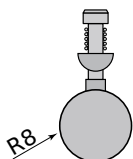
Radius Ruler - R6



Height	33.6 mm
Width	12.0 mm
Pressure	1000 kN/m

Length	Order number	Weight
835 mm	10090601	0.7 kg
415 mm	10090602	0.3 kg
800 mm (Sectionalized)	10090861	12.0 kg

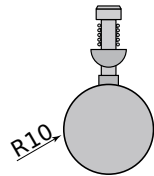
Radius Ruler - R8



Height	37.8 mm
Width	16.0 mm
Pressure	1000 kN/m

Length	Order number	Weight
835 mm	10090801	1.3 kg
415 mm	10090802	0.6 kg
800 mm (Sectionalized)	10090881	1.3 kg

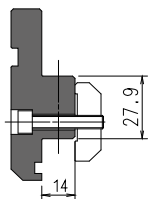
Radius Ruler - R10



Height	42.0 mm
Width	20.0 mm
Pressure	1000 kN/m

Length	Order number	Weight
835 mm	10090101	2.1 kg
415 mm	10090102	1.0 kg
800 mm (Sectionalized)	10090811	2.1 kg

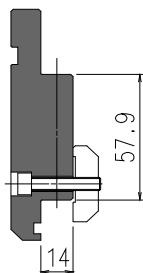
Punch holder for bending tools - 282



Height	90.0000 mm
Pressure	1000 kN/m
Material	42CrMo4

Length	Order number	Weight
420.0000 mm	EH0282002	5.3500 kg

Punch holder for bending tools - 582



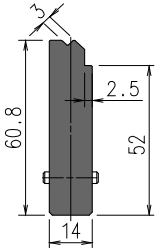
Height	120.0000 mm
Pressure	1000 kN/m
Material	42CrMo4

Length	Order number	Weight
420.0000 mm	EH0582002	8.0000 kg

Note

- Staged offset tools are reversible and can be mounted on a punch or die holder
- Use with holder 0282 for H=90mm and with 0582 for H=120mm punch height
- Two of each code are required when ordering a punch and die set

Offset Bending tool - Z3

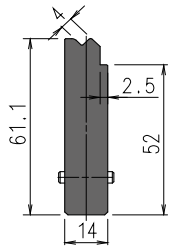


Height	60.8 mm
Width	14.0 mm
Pressure	1000 kN/m
Material	42CrMo4
Hardness	60.0000 - 65 HRC Through hardened

Can be used as upper and lower tool

Length	Order number	Weight
835 mm	ED1630061	5.4 kg
415 mm	ED1630062	2.7 kg
800 mm (Sectionalized)	ED1630063	5.2 kg

Offset Bending tool - Z4

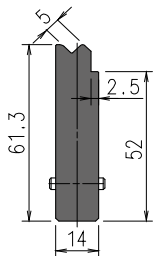


Height	61.1 mm
Width	14.0 mm
Pressure	1000 kN/m
Material	42CrMo4
Hardness	60.0000 - 65 HRC Through hardened

Can be used as upper and lower tool

Length	Order number	Weight
835 mm	ED1640081	5.4 kg
415 mm	ED1640082	2.7 kg
800 mm (Sectionalized)	ED1640083	5.2 kg

Offset Bending tool - Z5

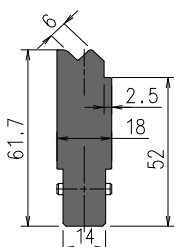


Height	61.3 mm
Width	14.0 mm
Pressure	1000 kN/m
Material	42CrMo4
Hardness	60.0000 - 65 HRC Through hardened

Can be used as upper and lower tool

Length	Order number	Weight
835 mm	ED1650101	5.4 kg
415 mm	ED1650102	2.7 kg
800 mm (Sectionalized)	ED1650103	5.2 kg

Offset Bending tool - Z6

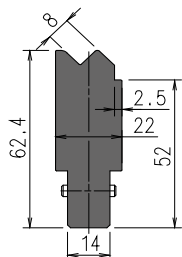


Height	61.7 mm
Width	18.0 mm
Pressure	1000 kN/m
Material	42CrMo4
Hardness	60.0000 - 65 HRC Through hardened

Can be used as upper and lower tool

Length	Order number	Weight
835 mm	ED1660101	6.4 kg
415 mm	ED1660102	3.2 kg
800 mm (Sectionalized)	ED1660103	6.1 kg

Offset Bending tool - Z8

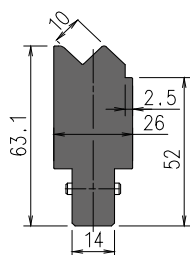


Height	62.4 mm
Width	22.0 mm
Pressure	1000 kN/m
Material	42CrMo4
Hardness	60.0000 - 65 HRC Through hardened

Can be used as upper and lower tool

Length	Order number	Weight
835 mm	ED1680101	7.5 kg
415 mm	ED1680102	3.7 kg
800 mm (Sectionalized)	ED1680103	7.2 kg

Offset Bending tool - Z10



Height	63.1 mm
Width	26.0 mm
Pressure	1000 kN/m
Material	42CrMo4
Hardness	60.0000 - 65 HRC Through hardened

Can be used as upper and lower tool

Length	Order number	Weight
835 mm	ED1610101	8.6 kg
415 mm	ED1610102	4.3 kg
800 mm (Sectionalized)	ED1610103	8.2 kg

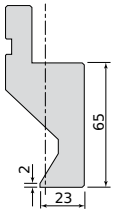
Hemming punch - 20

□

Height	28.0 mm
Width	30.0 mm
Pressure	1000 kN/m
Material	42CrMo4
Hardness	45.0000 - 50 HRC Through hardened

Length	Order number	Weight	
835 mm	-	ES0200001	4.5 kg
415 mm	-	ES0200002	2.2 kg

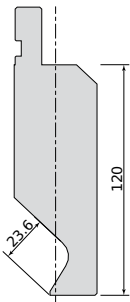
Hemming punch - 622



Height	65.0 mm
Width	23.0 mm
Pressure	1000 kN/m
Material	42CrMo4
Hardness	45.0000 - 50 HRC Through hardened

Length	Order number	Weight	
835 mm	-	ES6220001	13.6 kg
415 mm	-	ES6220002	6.8 kg

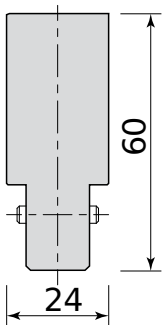
Hemming punch - 822



Height	120.0 mm
Width	23.0 mm
Pressure	1000 kN/m
Material	42CrMo4
Hardness	45.0000 - 50 HRC Through hardened

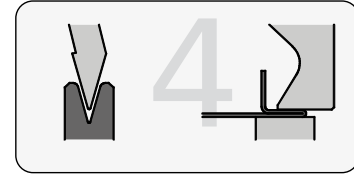
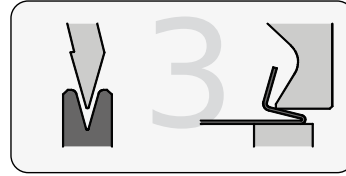
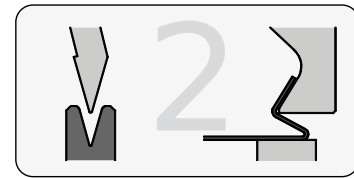
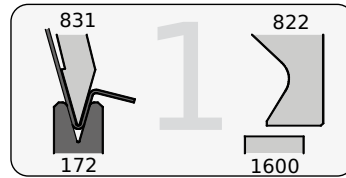
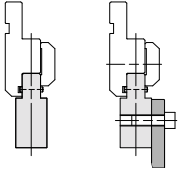
Length	Order number	Weight	
835 mm	-	ES8220001	28.3 kg
415 mm	-	ES8220002	14.1 kg
800 mm (Sectionalized)	-	ES8220003	27.0 kg

Hemming die 160

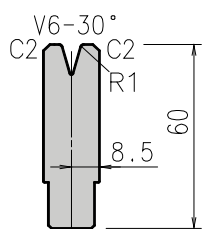


Height	60.0 mm
Width	24.0 mm
Pressure	1000 kN/m
Material	42CrMo4
Hardness	60.0000 - 65 HRC Through hardened

Length	Order number	Weight	
835 mm	ED1600001		8.0 kg
415 mm	ED1600002		4.0 kg
800 mm (Sectionalized)	ED1600003		7.7 kg



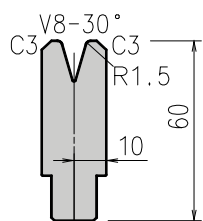
1V die - (V6 / 30°)



Shoulder Radius	R1
Height	60.0 mm
Width	17.0 mm
Pressure	500 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Drop in system

Length	Order number	CAM File	Weight
835 mm	ED0703101	070310	6.3 kg
415 mm	ED0703102	070310	3.2 kg
800 mm (Sectionalized)	ED0703103	070310	6.0 kg

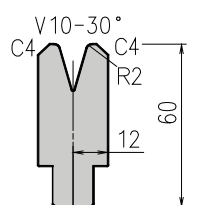
1V die - (V8 / 30°)



Shoulder Radius	R1.5
Height	60.0 mm
Width	20.0 mm
Pressure	600 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Drop in system

Length	Order number	CAM File	Weight
835 mm	ED0713151	071315	6.9 kg
415 mm	ED0713152	071315	3.6 kg
800 mm (Sectionalized)	ED0713153	071315	6.7 kg

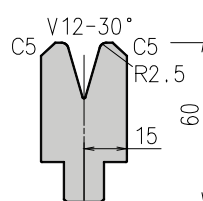
1V die - (V10 / 30°)



Shoulder Radius	R2
Height	60.0 mm
Width	24.0 mm
Pressure	700 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Drop in system

Length	Order number	CAM File	Weight
835 mm	ED0723201	072320	7.8 kg
415 mm	ED0723202	072320	4.5 kg
800 mm (Sectionalized)	ED0723203	072320	7.5 kg

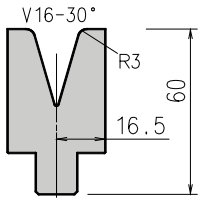
1V die - (V12 / 30°)



Shoulder Radius	R2.5
Height	60.0 mm
Width	30.0 mm
Pressure	800 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Drop in system

Length	Order number	CAM File	Weight
835 mm	ED0743251	074325	9.3 kg
415 mm	ED0743252	074325	4.7 kg
800 mm (Sectionalized)	ED0743253	074325	8.9 kg

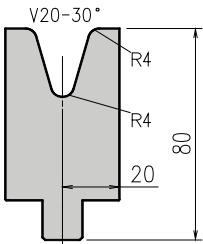
1V die - (V16 / 30°)



Shoulder Radius	R3
Height	60.0 mm
Width	33.0 mm
Pressure	600 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Drop in system

Length	Order number	CAM File	Weight
835 mm	ED0773301	077330	9.8 kg
415 mm	ED0773302	077330	4.8 kg
800 mm (Sectionalized)	ED0773303	077330	9.4 kg

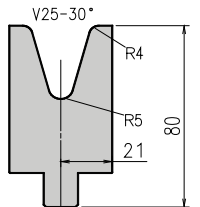
1V die - (V20 / 30°)



Shoulder Radius	R4
Height	80.0 mm
Width	40.0 mm
Pressure	600 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Drop in system

Length	Order number	CAM File	Weight
835 mm	ED0793401	079340	16.4 kg
415 mm	ED0793402	079340	8.2 kg
800 mm (Sectionalized)	ED0793403	079340	15.7 kg

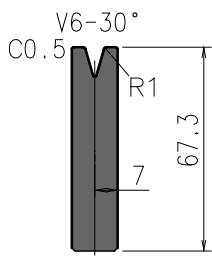
1V die - (V25 / 30°)



Shoulder Radius	R4
Height	80.0 mm
Width	42.0 mm
Pressure	600 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Drop in system

Length	Order number	CAM File	Weight
835 mm	ED0823401	082340	16.0 kg
415 mm	ED0823402	082340	8.0 kg
800 mm (Sectionalized)	ED0823403	082340	15.4 kg

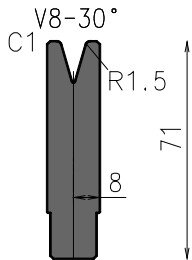
1V die - (V6 / 30°)



Shoulder Radius	R1
Height	67.3 mm
Width	14.0 mm
Pressure	400 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Drop in system

Length	Order number	CAM File	Weight
835 mm	ED1703101	170310	6.5 kg
415 mm	ED1703102	170310	3.1 kg
800 mm (Sectionalized)	ED1703103	170310	5.9 kg

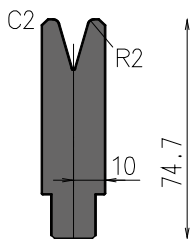
1V die - (V8 / 30°)



Shoulder Radius	R1.5
Height	71.0 mm
Width	16.0 mm
Pressure	500 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Drop in system

Length	Order number	CAM File	Weight
835 mm	ED1713151	171315	7.0 kg
415 mm	ED1713152	171315	3.7 kg
800 mm (Sectionalized)	ED1713153	171315	6.5 kg

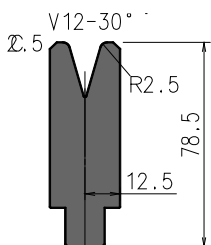
1V die - (V10 / 30°)



Shoulder Radius	R2
Height	74.7 mm
Width	20.0 mm
Pressure	600 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Drop in system

Length	Order number	CAM File	Weight
835 mm	ED1723201	172320	8.5 kg
415 mm	ED1723202	172320	4.3 kg
800 mm (Sectionalized)	ED1723203	172320	8.2 kg

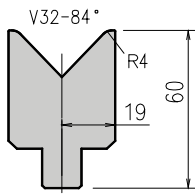
1V die - (V12 / 30°)



Shoulder Radius	R2.5
Height	78.5 mm
Width	25.0 mm
Pressure	700 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Drop in system

Length	Order number	CAM File	Weight
835 mm	ED1743251	174325	10.6 kg
415 mm	ED1743252	174325	5.3 kg
800 mm (Sectionalized)	ED1743253	174325	10.2 kg

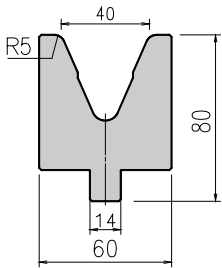
1V die - (V32 / 45°)



Shoulder Radius	R5
Height	80.0 mm
Width	50.0 mm
Pressure	1000 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Drop in system

Length	Order number	CAM File	Weight
835 mm	ED0871501	087150	18.2 kg
415 mm	ED0871502	087150	9.1 kg
800 mm (Sectionalized)	ED0871503	087150	17.4 kg

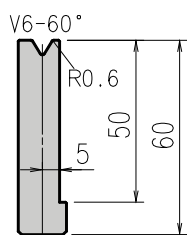
1V die - (V40 / 45°)



Shoulder Radius	R5
Height	80.0 mm
Width	60.0 mm
Pressure	1000 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Drop in system

Length	Order number	CAM File	Weight
835 mm	ED0881501	088150	20.1 kg
415 mm	ED0881502	088150	10.0 kg
800 mm (Sectionalized)	ED0881503	088150	19.3 kg

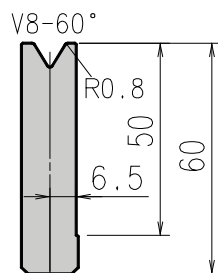
1V die - (V6 / 60°)



Shoulder Radius	R0.6
Height	60.0 mm
Width	12.0 mm
Pressure	380 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Drop in system

Length	Order number	CAM File	Weight
835 mm	ED0706061	070606	4.9 kg
415 mm	ED0706062	070606	2.5 kg
800 mm (Sectionalized)	ED0706063	070606	4.7 kg

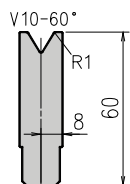
1V die - (V8 / 60°)



Shoulder Radius	R0.8
Height	60.0 mm
Width	13.5 mm
Pressure	450 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Drop in system

Length	Order number	CAM File	Weight
835 mm	ED0716081	071608	5.3 kg
415 mm	ED0716082	071608	2.7 kg
800 mm (Sectionalized)	ED0716083	071608	5.1 kg

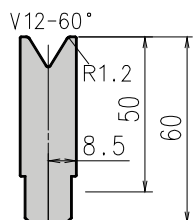
1V die - (V10 / 60°)



Shoulder Radius	R1
Height	60.0 mm
Width	16.0 mm
Pressure	550 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Drop in system

Length	Order number	CAM File	Weight
835 mm	ED0726101	072610	6.2 kg
415 mm	ED0726102	072610	3.1 kg
800 mm (Sectionalized)	ED0726103	072610	5.7 kg

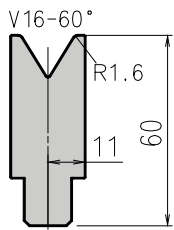
1V die - (V12 / 60°)



Shoulder Radius	R1.2
Height	60.0 mm
Width	17.0 mm
Pressure	550 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Drop in system

Length	Order number	CAM File	Weight
835 mm	ED0746121	074612	6.1 kg
415 mm	ED0746122	074612	3.1 kg
800 mm (Sectionalized)	ED0746123	074612	5.9 kg

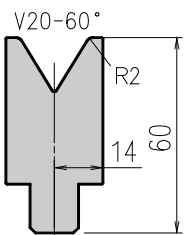
1V die - (V16 / 60°)



Shoulder Radius	R1.6
Height	60.0 mm
Width	22.0 mm
Pressure	650 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Drop in system

Length	Order number	CAM File	Weight
835 mm	ED0776161	077616	7.3 kg
415 mm	ED0776162	077616	3.6 kg
800 mm (Sectionalized)	ED0776163	077616	7.0 kg

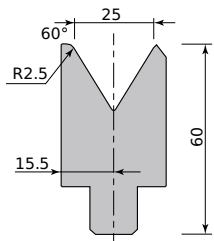
1V die - (V20 / 60°)



Shoulder Radius	R2
Height	60.0 mm
Width	28.0 mm
Pressure	850 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Drop in system

Length	Order number	CAM File	Weight
835 mm	ED0796201	079620	8.6 kg
415 mm	ED0796202	079620	4.3 kg
800 mm (Sectionalized)	ED0796203	079620	8.3 kg

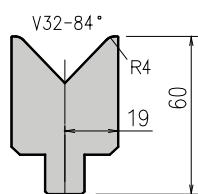
1V die - (V25 / 60°)



Shoulder Radius	R2.5
Height	60.0 mm
Width	31.0 mm
Pressure	850 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Drop in system

Length	Order number	CAM File	Weight
835 mm	ED0826251	082625	8.9 kg
415 mm	ED0826252	082625	4.5 kg
800 mm (Sectionalized)	ED0826253	082625	8.5 kg

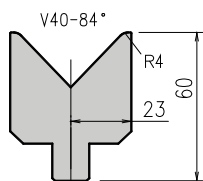
1V die - (V32 / 84°)



Shoulder Radius	R4
Height	60.0 mm
Width	38.0 mm
Pressure	1000 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Drop in system

Length	Order number	CAM File	Weight
835 mm	ED0874401	087440	10.8 kg
415 mm	ED0874402	087440	5.4 kg
800 mm (Sectionalized)	ED0874403	087440	10.8 kg

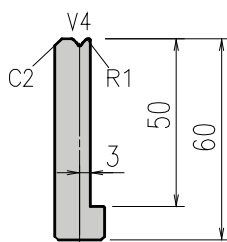
1V die - (V40 / 84°)



Shoulder Radius	R4
Height	60.0 mm
Width	46.0 mm
Pressure	1000 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Drop in system

Length	Order number	CAM File	Weight
835 mm	ED0884401	088440	12.0 kg
415 mm	ED0884402	088440	6.0 kg
800 mm (Sectionalized)	ED0884403	088440	11.8 kg

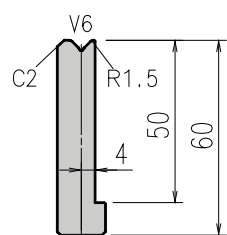
1V die - (V4 / 86°)



Shoulder Radius	R1
Height	60.0 mm
Width	10.0 mm
Pressure	750 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Drop in system

Length	Order number	CAM File	Weight
835 mm	ED0848101	084810	4.3 kg
415 mm	ED0848102	084810	2.1 kg
800 mm (Sectionalized)	ED0848103	084810	4.1 kg

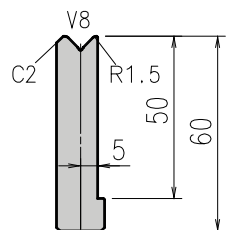
1V die - (V6 / 86°)



Shoulder Radius	R1.5
Height	60.0 mm
Width	11.0 mm
Pressure	800 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Drop in system

Length	Order number	CAM File	Weight
835 mm	ED0708151	070815	4.6 kg
415 mm	ED0708152	070815	2.3 kg
800 mm (Sectionalized)	ED0708153	070815	4.4 kg

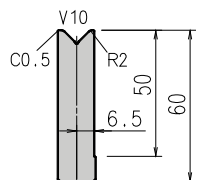
1V die - (V8 / 86°)



Shoulder Radius	R1.5
Height	60.0 mm
Width	12.0 mm
Pressure	900 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Drop in system

Length	Order number	CAM File	Weight
835 mm	ED0718151	071815	4.9 kg
415 mm	ED0718152	071815	2.4 kg
800 mm (Sectionalized)	ED0718153	071815	4.7 kg

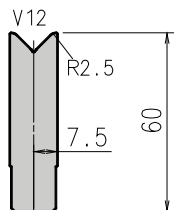
1V die - (V10 / 86°)



Shoulder Radius	R2
Height	60.0 mm
Width	13.5 mm
Pressure	1000 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Drop in system

Length	Order number	CAM File	Weight
835 mm	ED0728201	072820	5.3 kg
415 mm	ED0728202	072820	2.7 kg
800 mm (Sectionalized)	ED0728203	072820	5.1 kg

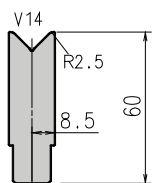
1V die - (V12 / 86°)



Shoulder Radius	R2.5
Height	60.0 mm
Width	15.0 mm
Pressure	1000 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Drop in system

Length	Order number	CAM File	Weight
835 mm	ED0748251	074825	5.7 kg
415 mm	ED0748252	074825	2.8 kg
800 mm (Sectionalized)	ED0748253	074825	5.4 kg

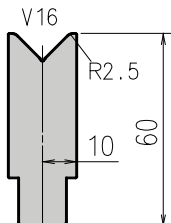
1V die - (V14 / 86°)



Shoulder Radius	R2.5
Height	60.0 mm
Width	17.0 mm
Pressure	1000 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Drop in system

Length	Order number	CAM File	Weight
835 mm	ED0768251	076825	6.2 kg
415 mm	ED0768252	076825	3.1 kg
800 mm (Sectionalized)	ED0768253	076825	5.9 kg

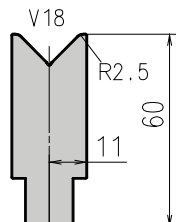
1V die - (V16 / 86°)



Shoulder Radius	R2.5
Height	60.0 mm
Width	20.0 mm
Pressure	1000 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Drop in system

Length	Order number	CAM File	Weight
835 mm	ED0778251	077825	7.0 kg
415 mm	ED0778252	077825	3.5 kg
800 mm (Sectionalized)	ED0778253	077825	6.7 kg

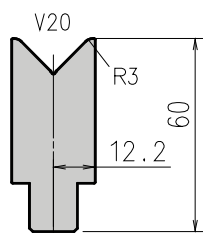
1V die - (V18 / 86°)



Shoulder Radius	R2.5
Height	60.0 mm
Width	22.0 mm
Pressure	1000 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Drop in system

Length	Order number	CAM File	Weight
835 mm	ED0788251	078825	7.4 kg
415 mm	ED0788252	078825	3.7 kg
800 mm (Sectionalized)	ED0788253	078825	7.5 kg

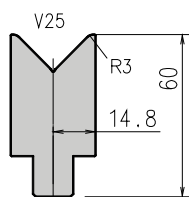
1V die - (V20 / 86°)



Shoulder Radius	R3
Height	60.0 mm
Width	24.4 mm
Pressure	1000 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Drop in system

Length	Order number	CAM File	Weight
835 mm	ED0798301	079830	8.0 kg
415 mm	ED0798302	079830	4.0 kg
800 mm (Sectionalized)	ED0798303	079830	7.7 kg

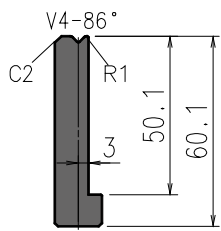
1V die - (V25 / 86°)



Shoulder Radius	R3
Height	60.0 mm
Width	29.6 mm
Pressure	1000 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Drop in system

Length	Order number	CAM File	Weight
835 mm	ED0828301	082830	9.1 kg
415 mm	ED0828302	082830	4.6 kg
800 mm (Sectionalized)	ED0828303	082830	8.8 kg

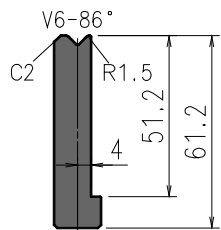
1V die - (V4 / 86°)



Shoulder Radius	R1
Height	60.1 mm
Width	10.0 mm
Pressure	750 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Drop in system

Length	Order number	CAM File	Weight
835 mm	ED1848101	184810	4.5 kg
415 mm	ED1848102	184810	2.2 kg
800 mm (Sectionalized)	ED1848103	184810	4.2 kg

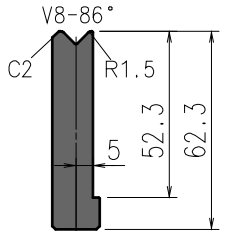
1V die - (V6 / 86°)



Shoulder Radius	R1.5
Height	61.2 mm
Width	11.0 mm
Pressure	800 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Drop in system

Length	Order number	CAM File	Weight
835 mm	ED1708151	170815	4.7 kg
415 mm	ED1708152	170815	2.4 kg
800 mm (Sectionalized)	ED1708153	170815	4.5 kg

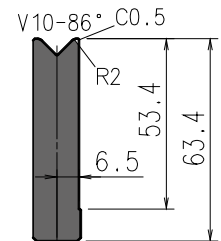
1V die - (V8 / 86°)



Shoulder Radius	R1.5
Height	62.3 mm
Width	12.0 mm
Pressure	900 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Drop in system

Length	Order number	CAM File	Weight
835 mm	ED1718151	171815	5.0 kg
415 mm	ED1718152	171815	2.5 kg
800 mm (Sectionalized)	ED1718153	171815	4.8 kg

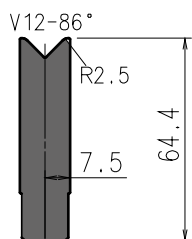
1V die - (V10 / 86°)



Shoulder Radius	R2
Height	63.4 mm
Width	13.5 mm
Pressure	1000 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Drop in system

Length	Order number	CAM File	Weight
835 mm	ED1728201	172820	5.6 kg
415 mm	ED1728202	172820	2.8 kg
800 mm (Sectionalized)	ED1728203	172820	5.4 kg

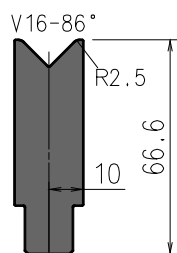
1V die - (V12 / 86°)



Shoulder Radius	R2.5
Height	64.4 mm
Width	15.0 mm
Pressure	1000 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Drop in system

Length	Order number	CAM File	Weight
835 mm	ED1748251	174825	7.9 kg
415 mm	ED1748252	174825	4.0 kg
800 mm (Sectionalized)	ED1748253	174825	7.6 kg

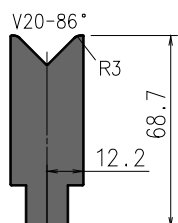
1V die - (V16 / 86°)



Shoulder Radius	R2.5
Height	66.6 mm
Width	20.0 mm
Pressure	1000 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Drop in system

Length	Order number	CAM File	Weight
835 mm	ED1778251	177825	7.4 kg
415 mm	ED1778252	177825	3.7 kg
800 mm (Sectionalized)	ED1778253	177825	7.1 kg

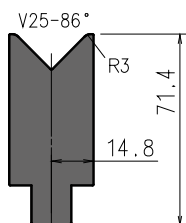
1V die - (V20 / 86°)



Shoulder Radius	R3
Height	68.7 mm
Width	24.4 mm
Pressure	1000 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Drop in system

Length	Order number	CAM File	Weight
835 mm	ED1798301	179830	9.2 kg
415 mm	ED1798302	179830	4.6 kg
800 mm (Sectionalized)	ED1798303	179830	8.8 kg

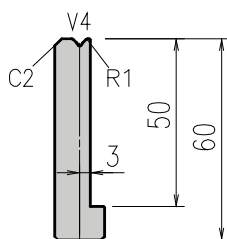
1V die - (V25 / 86°)



Shoulder Radius	R3
Height	71.4 mm
Width	29.6 mm
Pressure	1000 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Drop in system

Length	Order number	CAM File	Weight
835 mm	ED1828301	182830	11.0 kg
415 mm	ED1828302	182830	5.5 kg
800 mm (Sectionalized)	ED1828303	182830	10.5 kg

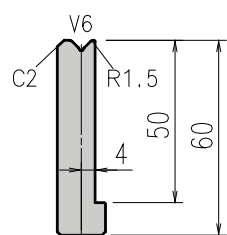
1V die - (V4 / 88°)



Shoulder Radius	R1
Height	60.0 mm
Width	10.0 mm
Pressure	750 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Drop in system

Length	Order number	CAM File	Weight
835 mm	ED0847101	084710	4.3 kg
415 mm	ED0847102	084710	2.1 kg
800 mm (Sectionalized)	ED0847103	084710	4.1 kg

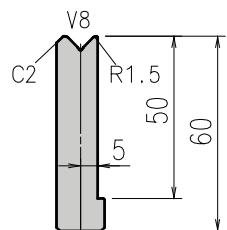
1V die - (V6 / 88°)



Shoulder Radius	R1.5
Height	60.0 mm
Width	11.0 mm
Pressure	800 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Drop in system

Length	Order number	CAM File	Weight
835 mm	ED0707151	070715	4.6 kg
415 mm	ED0707152	070715	2.3 kg
800 mm (Sectionalized)	ED0707153	070715	4.4 kg

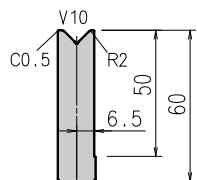
1V die - (V8 / 88°)



Shoulder Radius	R1.5
Height	60.0 mm
Width	12.0 mm
Pressure	900 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Drop in system

Length	Order number	CAM File	Weight
835 mm	ED0717151	071715	4.9 kg
415 mm	ED0717152	071715	2.3 kg
800 mm (Sectionalized)	ED0717153	071715	4.5 kg

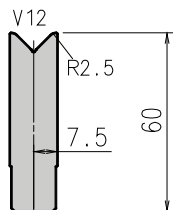
1V die - (V10 / 88°)



Shoulder Radius	R2
Height	60.0 mm
Width	13.5 mm
Pressure	1000 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Drop in system

Length	Order number	CAM File	Weight
835 mm	ED0727201	072720	5.5 kg
415 mm	ED0727202	072720	2.7 kg
800 mm (Sectionalized)	ED0727203	072720	5.1 kg

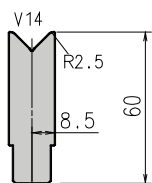
1V die - (V12 / 88°)



Shoulder Radius	R2.5
Height	60.0 mm
Width	15.0 mm
Pressure	1000 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Drop in system

Length	Order number	CAM File	Weight
835 mm	ED0747251	074725	5.7 kg
415 mm	ED0747252	074725	2.9 kg
800 mm (Sectionalized)	ED0747253	074725	5.4 kg

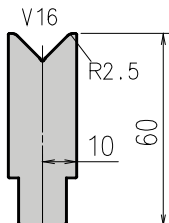
1V die - (V14 / 88°)



Shoulder Radius	R2.5
Height	60.0 mm
Width	17.0 mm
Pressure	1000 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Drop in system

Length	Order number	CAM File	Weight
835 mm	ED0767251	076725	6.2 kg
415 mm	ED0767252	076725	3.1 kg
800 mm (Sectionalized)	ED0767253	076725	5.9 kg

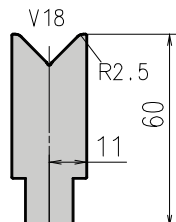
1V die - (V16 / 88°)



Shoulder Radius	R2.5
Height	60.0 mm
Width	20.0 mm
Pressure	1000 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Drop in system

Length	Order number	CAM File	Weight
835 mm	ED0777251	077725	6.9 kg
415 mm	ED0777252	077725	3.5 kg
800 mm (Sectionalized)	ED0777253	077725	6.7 kg

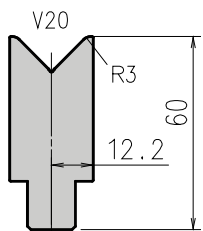
1V die - (V18 / 88°)



Shoulder Radius	R2.5
Height	60.0 mm
Width	22.0 mm
Pressure	1000 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Drop in system

Length	Order number	CAM File	Weight
835 mm	ED0787251	078725	7.4 kg
415 mm	ED0787252	078725	3.7 kg
800 mm (Sectionalized)	ED0787253	078725	7.1 kg

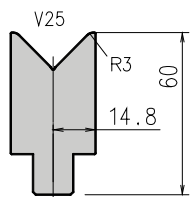
1V die - (V20 / 88°)



Shoulder Radius	R3
Height	60.0 mm
Width	24.4 mm
Pressure	1000 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Drop in system

Length	Order number	CAM File	Weight
835 mm	ED0797301	079730	8.0 kg
415 mm	ED0797302	079730	4.0 kg
800 mm (Sectionalized)	ED0797303	079730	7.7 kg

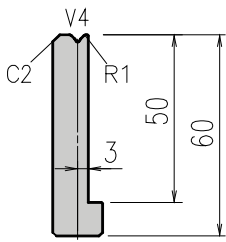
1V die - (V25 / 88°)



Shoulder Radius	R3
Height	60.0 mm
Width	29.6 mm
Pressure	1000 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Drop in system

Length	Order number	CAM File	Weight
835 mm	ED0827301	082730	9.7 kg
415 mm	ED0827302	082730	4.6 kg
800 mm (Sectionalized)	ED0827303	082730	8.8 kg

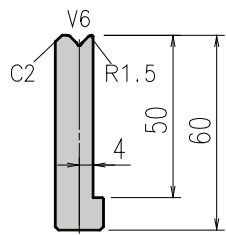
1V die - (V4 / 90°)



Shoulder Radius	R1
Height	60.0 mm
Width	10.0 mm
Pressure	750 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Drop in system

Length	Order number	CAM File	Weight
835 mm	ED0849101	084910	4.3 kg
415 mm	ED0849102	084910	2.2 kg
800 mm (Sectionalized)	ED0849103	084910	4.1 kg

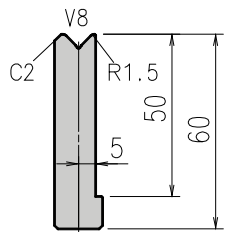
1V die - (V6 / 90°)



Shoulder Radius	R1.5
Height	60.0 mm
Width	11.0 mm
Pressure	800 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Drop in system

Length	Order number	CAM File	Weight
835 mm	ED0709151	070915	4.6 kg
415 mm	ED0709152	070915	2.3 kg
800 mm (Sectionalized)	ED0709153	070915	4.4 kg

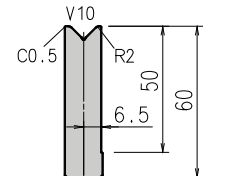
1V die - (V8 / 90°)



Shoulder Radius	R1.5
Height	60.0 mm
Width	12.0 mm
Pressure	900 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Drop in system

Length	Order number	CAM File	Weight
835 mm	ED0719151	071915	4.9 kg
415 mm	ED0719152	071915	2.5 kg
800 mm (Sectionalized)	ED0719153	071915	4.7 kg

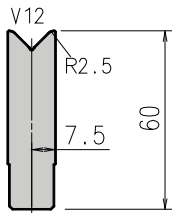
1V die - (V10 / 90°)



Shoulder Radius	R2
Height	60.0 mm
Width	13.5 mm
Pressure	1000 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Drop in system

Length	Order number	CAM File	Weight
835 mm	ED0729201	072920	5.3 kg
415 mm	ED0729202	072920	2.7 kg
800 mm (Sectionalized)	ED0729203	072920	5.1 kg

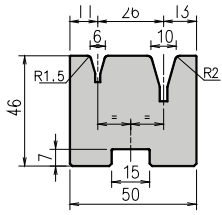
1V die - (V12 / 90°)



Shoulder Radius	R2.5
Height	60.0 mm
Width	15.0 mm
Pressure	1000 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Drop in system

Length	Order number	CAM File	Weight
835 mm	ED0749251	074925	5.7 kg
415 mm	ED0749252	074925	2.9 kg
800 mm (Sectionalized)	ED0749253	074925	5.5 kg

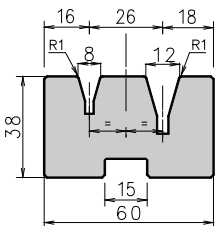
2V die - (V6 x V10 / 30°)



V1	V6 x 30° (Radius 1.50 mm)
V2	V10 x 30° (Radius 2.00 mm)
Height	46.0 mm
Width	50.0 mm
Pressure	260 kN/m
Material	42CrMo4
Hardness	60.0000 - 65 HRC Through hardened AMANIT® quality
Installation	Central

Length	Order number	Weight
835 mm	ED3373151	15.5 kg
415 mm	ED3373152	6.7 kg
800 mm (Sectionalized)	ED3373153	12.9 kg

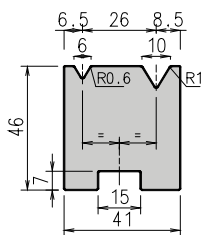
2V die - (V8 x V12 / 30°)



V1	V8 x 30° (Radius 1.00 mm)
V2	V12 x 30° (Radius 1.00 mm)
Height	38.0 mm
Width	60.0 mm
Pressure	400 kN/m
Material	42CrMo4
Hardness	60.0000 - 65 HRC Through hardened AMANIT® quality
Installation	Central

Length	Order number	Weight
835 mm	ED3393101	12.9 kg
415 mm	ED3393102	6.4 kg
800 mm (Sectionalized)	ED3393103	12.4 kg

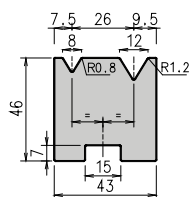
2V die - (V6 x V10 / 60°)



V1	V6 x 60° (Radius 0.60 mm)
V2	V10 x 60° (Radius 1.00 mm)
Height	46.0 mm
Width	41.0 mm
Pressure	600 kN/m
Material	42CrMo4
Hardness	60.0000 - 65 HRC Through hardened AMANIT® quality
Installation	Centrical

Length	Order number	Weight
835 mm	ED5026061	11.3 kg
415 mm	ED5026062	5.6 kg
800 mm (Sectionalized)	ED5026063	10.8 kg

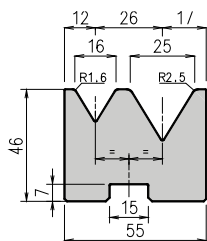
2V die - (V8 x V12 / 60°)



V1	V8 x 60° (Radius 0.80 mm)
V2	V12 x 60° (Radius 1.20 mm)
Height	46.0 mm
Width	43.0 mm
Pressure	600 kN/m
Material	42CrMo4
Hardness	60.0000 - 65 HRC Through hardened AMANIT® quality
Installation	Centrical

Length	Order number	Weight
835 mm	ED5036081	11.7 kg
415 mm	ED5036082	5.8 kg
800 mm (Sectionalized)	ED5036083	11.2 kg

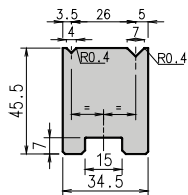
2V die - (V16 x V25 / 60°)



V1	V16 x 60° (Radius 1.60 mm)
V2	V25 x 60° (Radius 2.50 mm)
Height	46.0 mm
Width	55.0 mm
Pressure	600 kN/m
Material	42CrMo4
Hardness	60.0000 - 65 HRC Through hardened AMANIT® quality
Installation	Centrical

Length	Order number	Weight
835 mm	ED5066161	13.4 kg
415 mm	ED5066162	6.7 kg
800 mm (Sectionalized)	ED5066163	12.8 kg

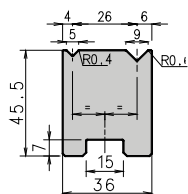
2V die - (V4 x V7 / 88°)



V1	V4 x 88° (Radius 0.40 mm)
V2	V7 x 88° (Radius 0.40 mm)
Height	45.5 mm
Width	34.5 mm
Pressure	600 kN/m
Material	42CrMo4
Hardness	60.0000 - 65 HRC Through hardened AMANIT® quality
Installation	Centrical

Length	Order number	Weight
835 mm	ED5017041	9.5 kg
415 mm	ED5017042	4.7 kg
800 mm (Sectionalized)	ED5017043	9.1 kg

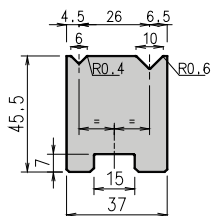
2V die - (V5 x V9 / 88°)



V1	V5 x 88° (Radius 0.40 mm)
V2	V9 x 88° (Radius 0.60 mm)
Height	45.5 mm
Width	36.0 mm
Pressure	650 kN/m
Material	42CrMo4
Hardness	60.0000 - 65 HRC Through hardened AMANIT® quality
Installation	Centrical

Length	Order number	Weight
835 mm	ED5077041	9.9 kg
415 mm	ED5077042	4.9 kg
800 mm (Sectionalized)	ED5077043	9.5 kg

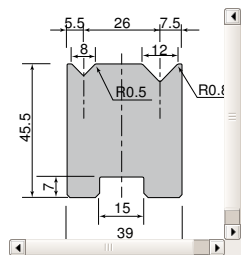
2V die - (V6 x V10 / 88°)



V1	V6 x 88° (Radius 0.40 mm)
V2	V10 x 88° (Radius 0.60 mm)
Height	45.5 mm
Width	37.0 mm
Pressure	700 kN/m
Material	42CrMo4
Hardness	60.0000 - 65 HRC Through hardened AMANIT® quality
Installation	Centrical

Length	Order number	Weight
835 mm	ED5027041	10.2 kg
415 mm	ED5027042	5.1 kg
800 mm (Sectionalized)	ED5027043	9.8 kg

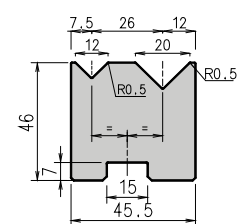
2V die - (V8 x V12 / 88°)



V1	V8 x 88° (Radius 0.50 mm)
V2	V12 x 88° (Radius 0.80 mm)
Height	45.5 mm
Width	39.0 mm
Pressure	700 kN/m
Material	42CrMo4
Hardness	60.0000 - 65 HRC Through hardened AMANIT® quality
Installation	Central

Length	Order number	Weight
835 mm	ED5037051	10.6 kg
415 mm	ED5037052	5.3 kg
800 mm (Sectionalized)	ED5037053	10.2 kg

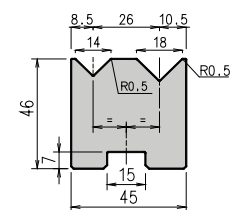
2V die - (V12 x V20 / 88°)



V1	V12 x 88° (Radius 0.50 mm)
V2	V20 x 88° (Radius 0.50 mm)
Height	46.0 mm
Width	45.5 mm
Pressure	1000 kN/m
Material	42CrMo4
Hardness	60.0000 - 65 HRC Through hardened AMANIT® quality
Installation	Central

Length	Order number	Weight
835 mm	ED5057051	12.1 kg
415 mm	ED5057052	6.0 kg
800 mm (Sectionalized)	ED5057053	11.6 kg

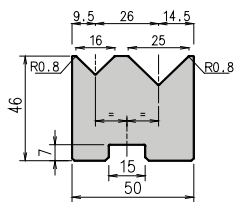
2V die - (V14 x V18 / 88°)



V1	V14 x 88° (Radius 0.50 mm)
V2	V18 x 88° (Radius 0.50 mm)
Height	46.0 mm
Width	45.0 mm
Pressure	1000 kN/m
Material	42CrMo4
Hardness	60.0000 - 65 HRC Through hardened AMANIT® quality
Installation	Central

Length	Order number	Weight
835 mm	ED5047051	12.0 kg
415 mm	ED5047052	6.0 kg
800 mm (Sectionalized)	ED5047053	11.5 kg

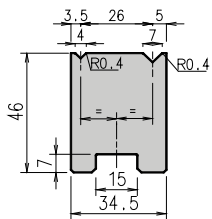
2V die - (V16 x V25 / 88°)



V1	V16 x 88° (Radius 0.80 mm)
V2	V25 x 88° (Radius 0.80 mm)
Height	46.0 mm
Width	50.0 mm
Pressure	1000 kN/m
Material	42CrMo4
Hardness	60.0000 - 65 HRC Through hardened AMANIT® quality
Installation	Central

Length	Order number	Weight
835 mm	ED5067081	12.9 kg
415 mm	ED5067082	6.4 kg
800 mm (Sectionalized)	ED5067083	12.4 kg

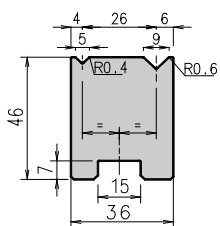
2V die - (V4 x V7 / 90°)



V1	V4 x 90° (Radius 0.40 mm)
V2	V7 x 90° (Radius 0.40 mm)
Height	46.0 mm
Width	34.5 mm
Pressure	600 kN/m
Material	42CrMo4
Hardness	60.0000 - 65 HRC Through hardened AMANIT® quality
Installation	Centrical

Length	Order number	Weight
835 mm	ED5019041	9.6 kg
415 mm	ED5019042	4.8 kg
800 mm (Sectionalized)	ED5019043	9.2 kg

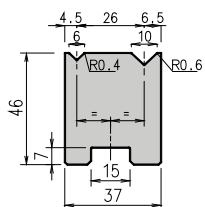
2V die - (V5 x V9 / 90°)



V1	V5 x 90° (Radius 0.40 mm)
V2	V9 x 90° (Radius 0.60 mm)
Height	46.0 mm
Width	36.0 mm
Pressure	650 kN/m
Material	42CrMo4
Hardness	60.0000 - 65 HRC Through hardened AMANIT® quality
Installation	Centrical

Length	Order number	Weight
835 mm	ED5079041	10.0 kg
415 mm	ED5079042	5.0 kg
800 mm (Sectionalized)	ED5079043	9.6 kg

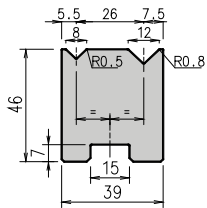
2V die - (V6 x V10 / 90°)



V1	V6 x 90° (Radius 0.40 mm)
V2	V10 x 90° (Radius 0.60 mm)
Height	46.0 mm
Width	37.0 mm
Pressure	700 kN/m
Material	42CrMo4
Hardness	60.0000 - 65 HRC Through hardened AMANIT® quality
Installation	Centrical

Length	Order number	Weight
835 mm	ED5029041	10.3 kg
415 mm	ED5029042	5.1 kg
800 mm (Sectionalized)	ED5029043	9.9 kg

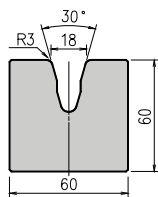
2V die - (V8 x V12 / 90°)



V1	V8 x 90° (Radius 0.50 mm)
V2	V12 x 90° (Radius 0.80 mm)
Height	46.0 mm
Width	39.0 mm
Pressure	700 kN/m
Material	42CrMo4
Hardness	60.0000 - 65 HRC Through hardened AMANIT® quality
Installation	Central

Length	Order number	Weight
835 mm	ED5039051	10.7 kg
415 mm	ED5039052	5.3 kg
800 mm (Sectionalized)	ED5039053	10.3 kg

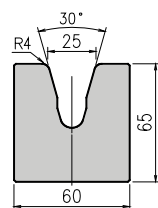
1V die - (V18 / 30°)



Shoulder Radius	R3
Height	60.0 mm
Width	60.0 mm
Pressure	1000 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened untreated
Installation	Clamping system

Length	Order number	CAM File	Weight
835 mm	ED3403301	340330	21.6 kg
415 mm	ED3403302	340330	10.8 kg
800 mm (Sectionalized)	ED3403303	340330	21.0 kg

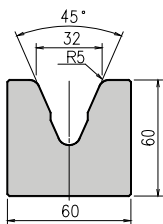
1V die - (V25 / 30°)



Shoulder Radius	R4
Height	65.0 mm
Width	60.0 mm
Pressure	1000 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Clamping system

Length	Order number	CAM File	Weight
835 mm	ED3413401	341340	21.9 kg
415 mm	ED3413402	341340	10.9 kg
800 mm (Sectionalized)	ED3413403	341340	21.3 kg

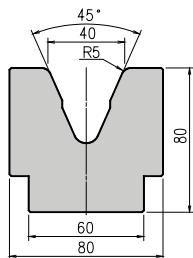
1V die - (V32 / 45°)



Shoulder Radius	R5
Height	60.0 mm
Width	60.0 mm
Pressure	1000 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Clamping system

Length	Order number	CAM File	Weight
835 mm	ED3421501	342150	19.4 kg
415 mm	ED3421502	342150	9.7 kg
800 mm (Sectionalized)	ED3421503	342150	19.0 kg

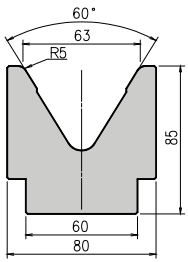
1V die - (V40 / 45°)



Shoulder Radius	R5
Height	80.0 mm
Width	80.0 mm
Pressure	700 kN/m
Material	c45
Hardness	52 - 56 HRC Induction hardened untreated
Installation	Clamping system

Length	Order number	CAM File	Weight
835 mm	ED3431501	343150	33.0 kg
415 mm	ED3431502	343150	16.5 kg
800 mm (Sectionalized)	ED3431503	343150	31.9 kg

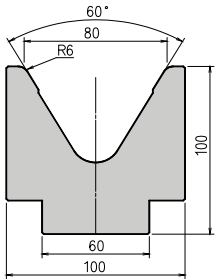
1V die - (V63 / 60°)



Shoulder Radius	R5
Height	85.0 mm
Width	80.0 mm
Pressure	1000 kN/m
Material	c45
Hardness	52 - 56 HRC Induction hardened untreated
Installation	Clamping system

Length	Order number	CAM File	Weight
835 mm	ED0386501	038650	30.6 kg
415 mm	ED0386502	038650	15.3 kg

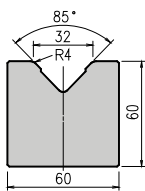
1V die - (V80 / 60°)



Shoulder Radius	R6
Height	100.0 mm
Width	100.0 mm
Pressure	1000 kN/m
Material	c45
Hardness	52 - 56 HRC Induction hardened untreated
Installation	Clamping system

Length	Order number	CAM File	Weight
835 mm	ED0136601	013660	45.9 kg
415 mm	ED0136602	013660	23.6 kg

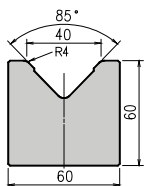
1V die - (V32 / 85°)



Shoulder Radius	R4
Height	60.0 mm
Width	60.0 mm
Pressure	1000 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Clamping system

Length	Order number	CAM File	Weight
835 mm	ED0355401	035540	21.7 kg
415 mm	ED0355402	035540	10.8 kg
800 mm (Sectionalized)	ED0355403	035540	21.2 kg

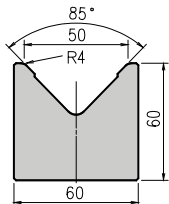
1V die - (V40 / 85°)



Shoulder Radius	R4
Height	60.0 mm
Width	60.0 mm
Pressure	1000 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Clamping system

Length	Order number	CAM File	Weight
835 mm	ED0365401	036540	20.6 kg
415 mm	ED0365402	036540	10.3 kg
800 mm (Sectionalized)	ED0365403	036540	20.1 kg

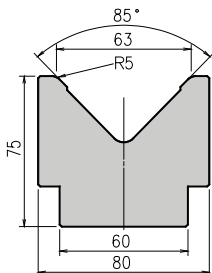
1V die - (V50 / 85°)



Shoulder Radius	R4
Height	60.0 mm
Width	60.0 mm
Pressure	1000 kN/m
Material	42CrMo4
Hardness	60 - 65 HRC Through hardened AMANIT® quality
Installation	Clamping system

Length	Order number	CAM File	Weight
835 mm	ED0375401	037540	18.9 kg
415 mm	ED0375402	037540	9.4 kg
800 mm (Sectionalized)	ED0375403	037540	18.5 kg

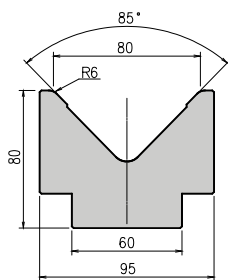
1V die - (V63 / 85°)



Shoulder Radius	R5
Height	75.0 mm
Width	80.0 mm
Pressure	1000 kN/m
Material	c45
Hardness	52 - 56 HRC Induction hardened untreated
Installation	Clamping system

Length	Order number	CAM File	Weight
835 mm	ED0385501	038550	29.4 kg
415 mm	ED0385502	038550	14.6 kg
800 mm (Sectionalized)	ED0385503	038550	28.1 kg

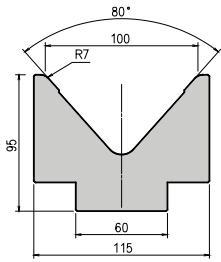
1V die - (V80 / 85°)



Shoulder Radius	R6
Height	80.0 mm
Width	95.0 mm
Pressure	1000 kN/m
Material	c45
Hardness	52 - 56 HRC Induction hardened untreated
Installation	Clamping system

Length	Order number	CAM File	Weight
835 mm	ED0135601	013560	36.6 kg
415 mm	ED0135602	013560	18.5 kg

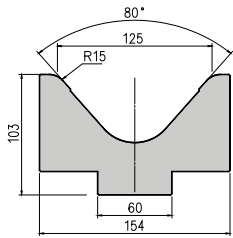
1V die - (V100 / 80°)



Shoulder Radius	R7
Height	95.0 mm
Width	115.0 mm
Pressure	1000 kN/m
Material	c45
Hardness	52 - 56 HRC Induction hardened untreated
Installation	Clamping system

Length	Order number	CAM File	Weight
835 mm	ED0180701	018070	48.4 kg
415 mm	ED0180702	018070	24.5 kg

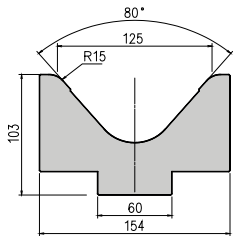
1V die - (V125 / 80°)



Shoulder Radius	R15
Height	103.0 mm
Width	154.0 mm
Pressure	1000 kN/m
Material	c45
Hardness	52 - 56 HRC Induction hardened untreated
Installation	Clamping system

Length	Order number	CAM File	Weight
835 mm	ED0390151	039015	66.8 kg
415 mm	ED0390152	039015	33.9 kg

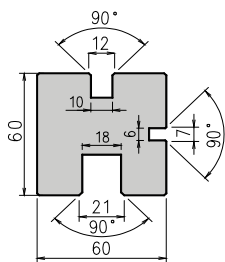
1V die - (V160 / 80°)



Shoulder Radius	R11
Height	130.0 mm
Width	185.0 mm
Pressure	1000 kN/m
Material	c45
Hardness	52 - 56 HRC Induction hardened untreated
Installation	Clamping system

Length	Order number	CAM File	Weight
835 mm	ED0140111	014011	98.2 kg
415 mm	ED0140112	014011	49.5 kg

3U Die - (V6, V10, V18 / 90°)



U1	V6 x 90° (Radius 0.50 mm)
U2	V10 x 90° (Radius 1.00 mm)
U3	V18 x 90° (Radius 1.50 mm)
Height	60.0 mm
Width	60.0 mm
Pressure	1000 kN/m
Material	c45
Hardness	52.0000 - 56 HRC Induction hardened
Installation	Clamping system

Length	Order number	Weight
415 mm (Short)	ED0129002	10.1 kg
835 mm (Long)	ED0129001	20.2 kg

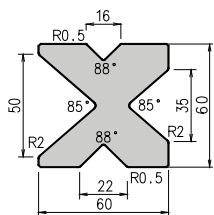
4V die - (V10, V16, V22, V35 / 60°)

□

V1	V10 x 60° (Radius 1.50 mm)
V2	V16 x 60° (Radius 2.00 mm)
V3	V22 x 60° (Radius 2.50 mm)
V4	V35 x 60° (Radius 3.00 mm)
Height	60.0 mm
Width	60.0 mm
Pressure	900 kN/m
Material	c45
Hardness	52.0000 - 56 HRC Induction hardened
Installation	Clamping system

Length	Order number	CAM File	Weight
835 mm	ED1296001		16.4 kg
415 mm	ED1296002		8.2 kg

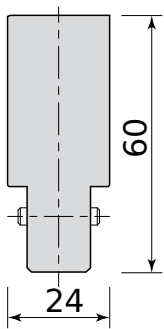
4V die - (V16, V22, V35, V50 / 88°)



V1	V16 x 88° (Radius 0.50 mm)
V2	V22 x 88° (Radius 0.50 mm)
V3	V35 x 85° (Radius 2.00 mm)
V4	V50 x 85° (Radius 2.00 mm)
Height	60.0 mm
Width	60.0 mm
Pressure	1000 kN/m
Material	c45
Hardness	52.0000 - 56 HRC Induction hardened
Installation	Clamping system

Length	Order number	CAM File	Weight
835 mm	ED1290001	129000	18.0 kg
415 mm	ED1290002	129000	9.0 kg

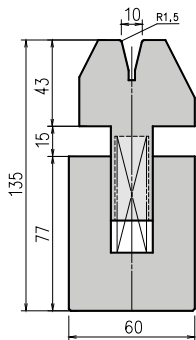
Hemming die 160



Height	60.0 mm
Width	24.0 mm
Pressure	1000 kN/m
Material	42CrMo4
Hardness	60.0000 - 65 HRC Through hardened

Length	Order number	Weight
835 mm	ED1600001	8.0 kg
415 mm	ED1600002	4.0 kg
800 mm (Sectionalized)	ED1600003	7.7 kg

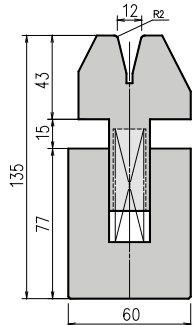
Hemming die V10



Height	135.0 mm
Width	60.0 mm
Pressure	1000 kN/m
Material	c45
Hardness	52.0000 - 56 HRC Induction hardened

Length	Order number	Weight
835 mm	ED1102151	42.0 kg
415 mm	ED1102152	20.9 kg

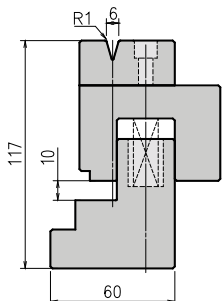
Hemming die V12



Height	135.0 mm
Width	60.0 mm
Pressure	1000 kN/m
Material	c45
Hardness	52.0000 - 56 HRC Induction hardened

Length	Order number	Weight
835 mm	ED1122201	41.8 kg
415 mm	ED1122202	20.8 kg

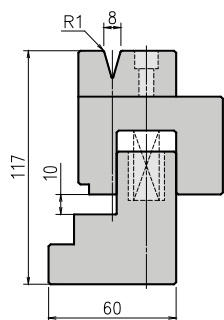
Hemming die V6



Height	117.0 mm
Width	60.0 mm
Pressure	650 kN/m
Material	42CrMo4
Hardness	60.0000 - 65 HRC Through hardened

Length	Order number	Weight
835 mm	ED1063101	40.4 kg
415 mm	ED1063102	20.1 kg

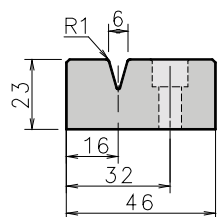
Hemming die V8



Height	117.0 mm
Width	60.0 mm
Pressure	650 kN/m
Material	42CrMo4
Hardness	60.0000 - 65 HRC Through hardened

Length	Order number	Weight
835 mm	ED1083101	40.2 kg
415 mm	ED1083102	20.0 kg

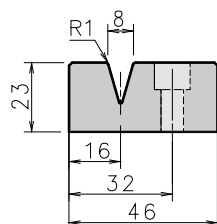
Die unit for hemming die - V6



Height	23 mm
Width	46 mm
Pressure	-
Material	42CrMo4
Hardness	- Through hardened

	Length	Order number	Weight
835 mm	835 mm	ED0063101	7 kg
415 mm	415 mm	ED0063102	3 kg

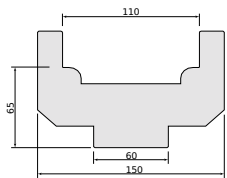
Die unit for hemming die - V8



Height	23 mm
Width	46 mm
Pressure	-
Material	42CrMo4
Hardness	- Through hardened

	Length	Order number	Weight
835 mm	835 mm	ED0083101	7 kg
415 mm	415 mm	ED0083102	3 kg

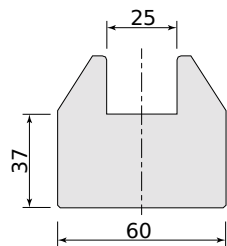
Pad holder - 110



Height	65.0 mm
Width	150.0 mm
Pressure	1000 kN/m
Material	c45
Hardness	23.0000 - 28 HRC not hardened

Length	Order number	Weight
835 mm	10060051	62.0 kg
415 mm	10060052	31.0 kg

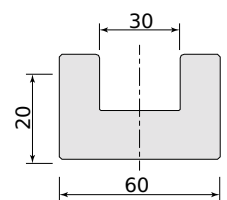
Pad holder - 25



Height	37.0 mm
Width	60.0 mm
Pressure	1000 kN/m
Material	c45
Hardness	23.0000 - 28 HRC not hardened

Length	Order number	Weight
835 mm	10060011	21.0 kg
415 mm	10060012	10.5 kg

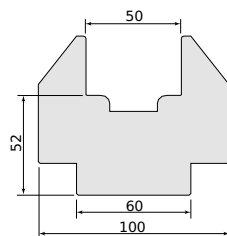
Pad holder - 30



Height	20.0 mm
Width	60.0 mm
Pressure	1000 kN/m
Material	c45
Hardness	23.0000 - 28 HRC not hardened

Length	Order number	Weight
835 mm	10060021	15.0 kg
415 mm	10060022	7.5 kg

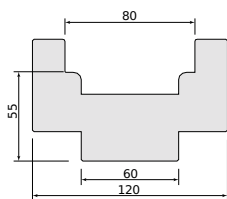
Pad holder - 50



Height	52.0 mm
Width	100.0 mm
Pressure	1000 kN/m
Material	c45
Hardness	23.0000 - 28 HRC not hardened

Length	Order number	Weight
835 mm	DX060031	45.0 kg
415 mm	DX060032	22.5 kg

Pad holder - 80



Height	55.0 mm
Width	120.0 mm
Pressure	1000 kN/m
Material	c45
Hardness	23.0000 - 28 HRC not hardened

Length	Order number	Weight
835 mm	10060041	55.0 kg
415 mm	10060042	27.5 kg

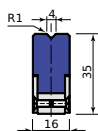
Adapter for PU die

□

Height	30.0 mm
Width	14.0 mm
Pressure	1000 kN/m
Material	c45
Hardness	-

	Length	Order number	Weight
835 mm	-	EH3300011	2.5 kg
414 mm	-	EH3300012	1.2 kg

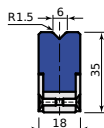
Polyurethan die - (V4 / 90°)



Shoulder Radius	R1
Height	35.0 mm
Width	16.0 mm
Pressure	320 kN/m
Material	Polyurethan
Installation	Bold system

Length	Order number	CAM File	Weight
835 mm	331001	33100	1.2 kg
415 mm	331002	33100	0.6 kg

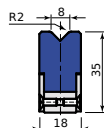
Polyurethan die - (V6 / 90°)



Shoulder Radius	R1.5
Height	35.0 mm
Width	18.0 mm
Pressure	320 kN/m
Material	Polyurethan
Installation	Bold system

Length	Order number	CAM File	Weight
835 mm	10332001	33200	1.4 kg
415 mm	10332002	33200	0.7 kg

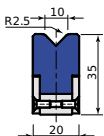
Polyurethan die - (V8 / 88°)



Shoulder Radius	R2
Height	35.0 mm
Width	18.0 mm
Pressure	320 kN/m
Material	Polyurethan
Installation	Bold system

Length	Order number	CAM File	Weight
835 mm	DX333001	33300	1.4 kg
415 mm	DX333002	33300	0.7 kg

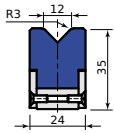
Polyurethan die - (V10 / 88°)



Shoulder Radius	R2.5
Height	35.0 mm
Width	20.0 mm
Pressure	320 kN/m
Material	Polyurethan
Installation	Bold system

Length	Order number	CAM File	Weight
835 mm	DX334001	33400	1.6 kg
415 mm	DX334002	33400	0.8 kg

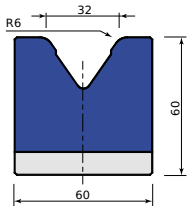
Polyurethan die - (V12 / 88°)



Shoulder Radius	R3
Height	35.0 mm
Width	24.0 mm
Pressure	320 kN/m
Material	Polyurethan
Installation	Bold system

Length	Order number	CAM File	Weight
835 mm	335001	33500	2.0 kg
415 mm	335002	33500	1.0 kg

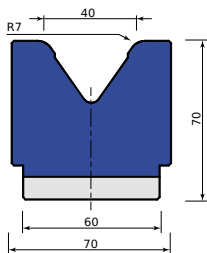
Polyurethan die - (V32 / 70°)



Shoulder Radius	R6
Height	60.0 mm
Width	60.0 mm
Pressure	500 kN/m
Material	Polyurethan
Installation	Clamping system

Length	Order number	CAM File	Weight
835 mm	DX351001	35100	8.4 kg
415 mm	DX351002	35100	4.2 kg

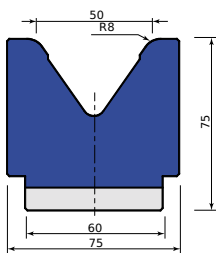
Polyurethan die - (V40 / 70°)



Shoulder Radius	R7
Height	70.0 mm
Width	70.0 mm
Pressure	500 kN/m
Material	Polyurethan
Installation	Clamping system

Length	Order number	CAM File	Weight
835 mm	10361001	36100	9.2 kg
415 mm	10361002	36100	4.6 kg

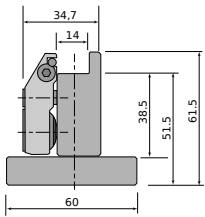
Polyurethan die - (V50 / 70°)



Shoulder Radius	R8
Height	75.0 mm
Width	75.0 mm
Pressure	500 kN/m
Material	Polyurethan
Installation	Clamping system

Length	Order number	CAM File	Weight
835 mm	10371001	37100	9.5 kg
415 mm	10371002	37100	4.7 kg

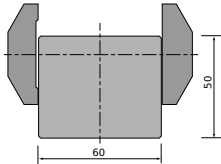
Die holder - "FEAT 825



Height	51.5 mm
Width	60.0 mm
Pressure	1000 kN/m
Material	c45
Hardness	23.0000 - 28 HRC
	-

Length	Order number	Weight
850 mm	10082501	13.5 kg
510 mm	10082502	8.0 kg

Die holder - 50



Height	50.0 mm
Width	60.0 mm
Pressure	1000 kN/m
Material	c45
Hardness	23.0000 - 28 HRC
	-

Length	Order number	Weight
835 mm	EH0500001	26.0 kg
415 mm	EH0500002	13.0 kg

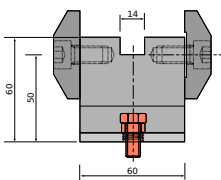
Die holder - 532

□

Height	70.0 mm
Width	60.0 mm
Pressure	1000 kN/m
Material	c45
Hardness	-
	-

Length	Order number	Weight
630 mm	EH5320003	0.0 kg

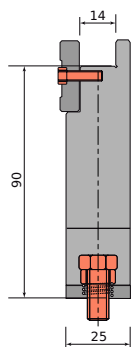
Die holder - 533



Height	50.0 mm
Width	60.0 mm
Pressure	1000 kN/m
Material	c45
Hardness	23.0000 - 28 HRC
	-

Length	Order number	Weight
450 mm	EH5330002	15.2 kg
1050 mm	EH5330001	35.8 kg

Die holder - 534



Height	90.0 mm
Width	25.0 mm
Pressure	1000 kN/m
Material	c45
Hardness	23.0000 - 28 HRC
	-

Length	Order number	Weight
630 mm	EH5340003	0.0 kg
450 mm	EH5340002	9.4 kg
1050 mm	EH5340001	21.7 kg

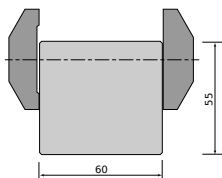
Die holder - 535

□

Height	60.0 mm
Width	25.0 mm
Pressure	-
Material	-
Hardness	-

Length	Order number	Weight
630 mm	EH5350003	0.0 kg

Die holder - 55



Height	55.0 mm
Width	60.0 mm
Pressure	1000 kN/m
Material	c45
Hardness	23.0000 - 28 HRC

Length	Order number	Weight
835 mm	EH0550001	28.0 kg
415 mm	EH0550002	14.0 kg

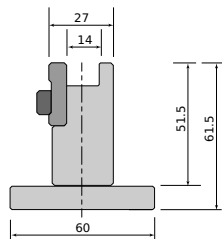
Die holder - 8150

□

Height	136.0 mm
Width	27.0 mm
Pressure	1000 kN/m
Material	c45
Hardness	23.0000 - 28 HRC

Length	Order number	Weight
835 mm	6H001765	0.0 kg
415 mm	6H001764	0.0 kg

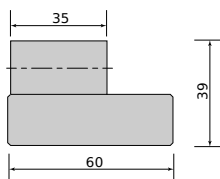
Die holder - 8150



Height	51.5 mm
Width	27.0 mm
Pressure	1000 kN/m
Material	c45
Hardness	23.0000 - 28 HRC

Length	Order number	Weight
630 mm	EH0815003	9.3 kg
840 mm	EH0815001	12.4 kg
420 mm	EH0815002	6.2 kg

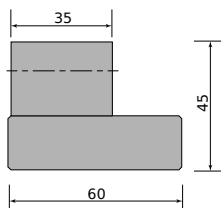
Die holder - 39



Height	39.0 mm
Width	60.0 mm
Pressure	1000 kN/m
Material	c45
Hardness	23.0000 - 28 HRC
	-

Length	Order number	Weight
830 mm	EH2900001	10.8 kg
412 mm	EH2900002	5.4 kg

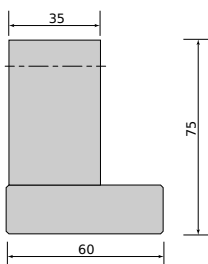
Die holder - 45



Height	45.0 mm
Width	60.0 mm
Pressure	1000 kN/m
Material	c45
Hardness	23.0000 - 28 HRC
	-

Length	Order number	Weight
830 mm	EH2930001	13.8 kg
412 mm	EH2930002	6.9 kg

Die holder - 75



Height	75.0 mm
Width	35.0 mm
Pressure	1000 kN/m
Material	c45
Hardness	23.0000 - 28 HRC
	-

Length	Order number	Weight
830 mm	EH2910001	17.6 kg
412 mm	EH2910002	8.8 kg

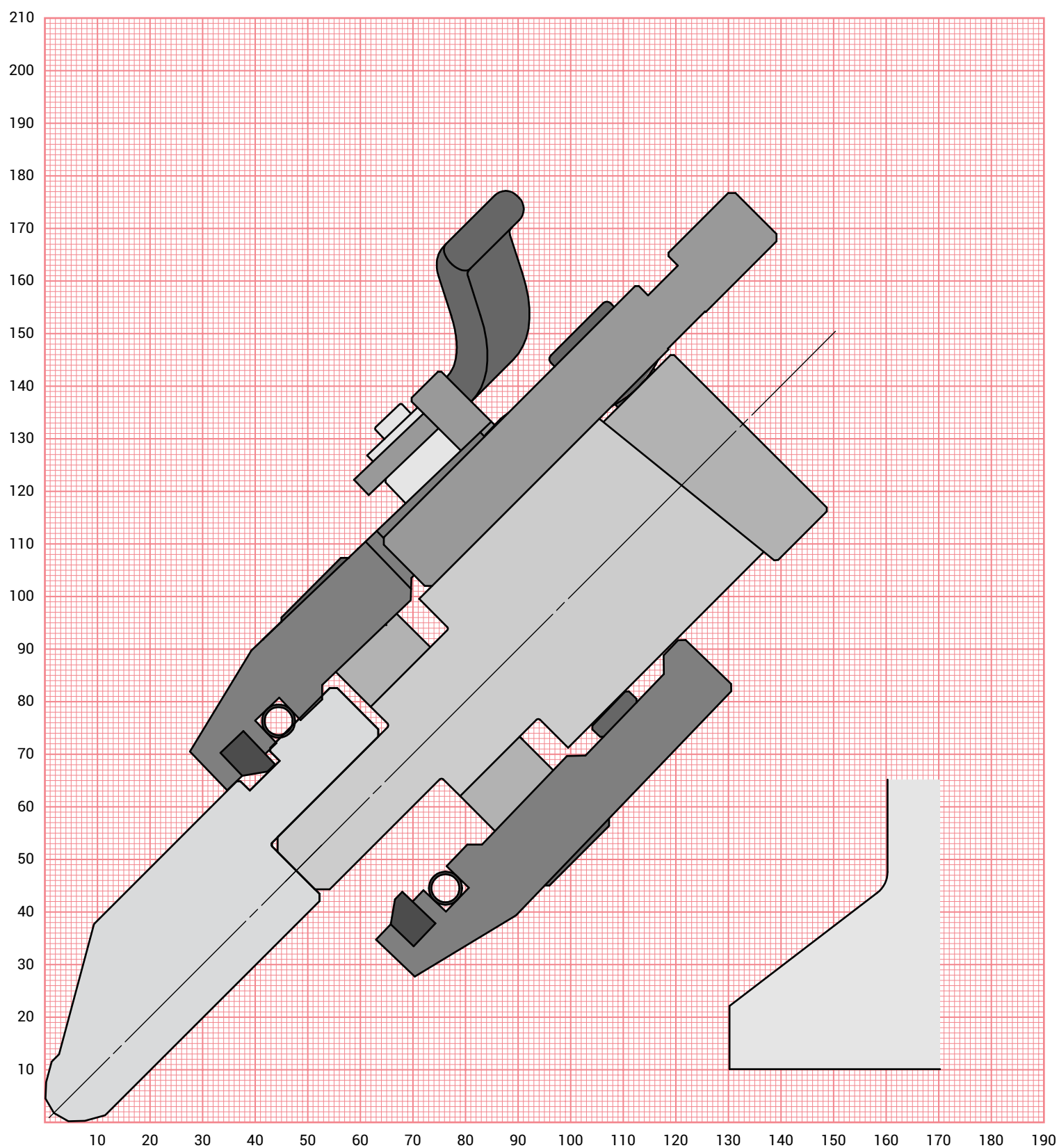
Die opening V		4	6	7	8	10	12	14	16	18	20	25	32	40	50	63	80	100	125	160	200
Minimum flange length b_{min}		2.8	4	5	5.5	7	8.5	10	11	13.5	14	17.5	22	28	35	45	55	71	89	113	
Bending radius ir		0.7	1.0	1.1	1.3	1.6	2.0	2.3	2.6	3.0	3.3	4.0	5.0	6.5	8.0	10	13	16	20	26	
Thickness (t) →	0.5 mm	40	30																		
	0.6 mm	60	40	40	40																
	0.8 mm		70	70	50	40															
	1.0 mm		110	100	80	70															
	1.2 mm			140	120	100	80	70	60												
	1.5 mm				170	150	130	110	90	80											
	2.0 mm					220	190	170	150	130	110										
	2.5 mm							280	250	220	180	140									
	3.0 mm								340	300	240	190	150								
	3.5 mm										330	260	200	160	130						
	4.0 mm										430	340	270	210	170						
	4.5 mm											440	340	270	210						
	5.0 mm											520	420	330	260	210					
	6.0 mm											750	600	480	380	300	240				
	7.0 mm														520	410	330	260			
	8.0 mm														850	680	530	430			
	9.0 mm															670	540	430			
	10 mm																850	670	530	420	
	12 mm																	960	780	600	550
	15 mm																			950	750

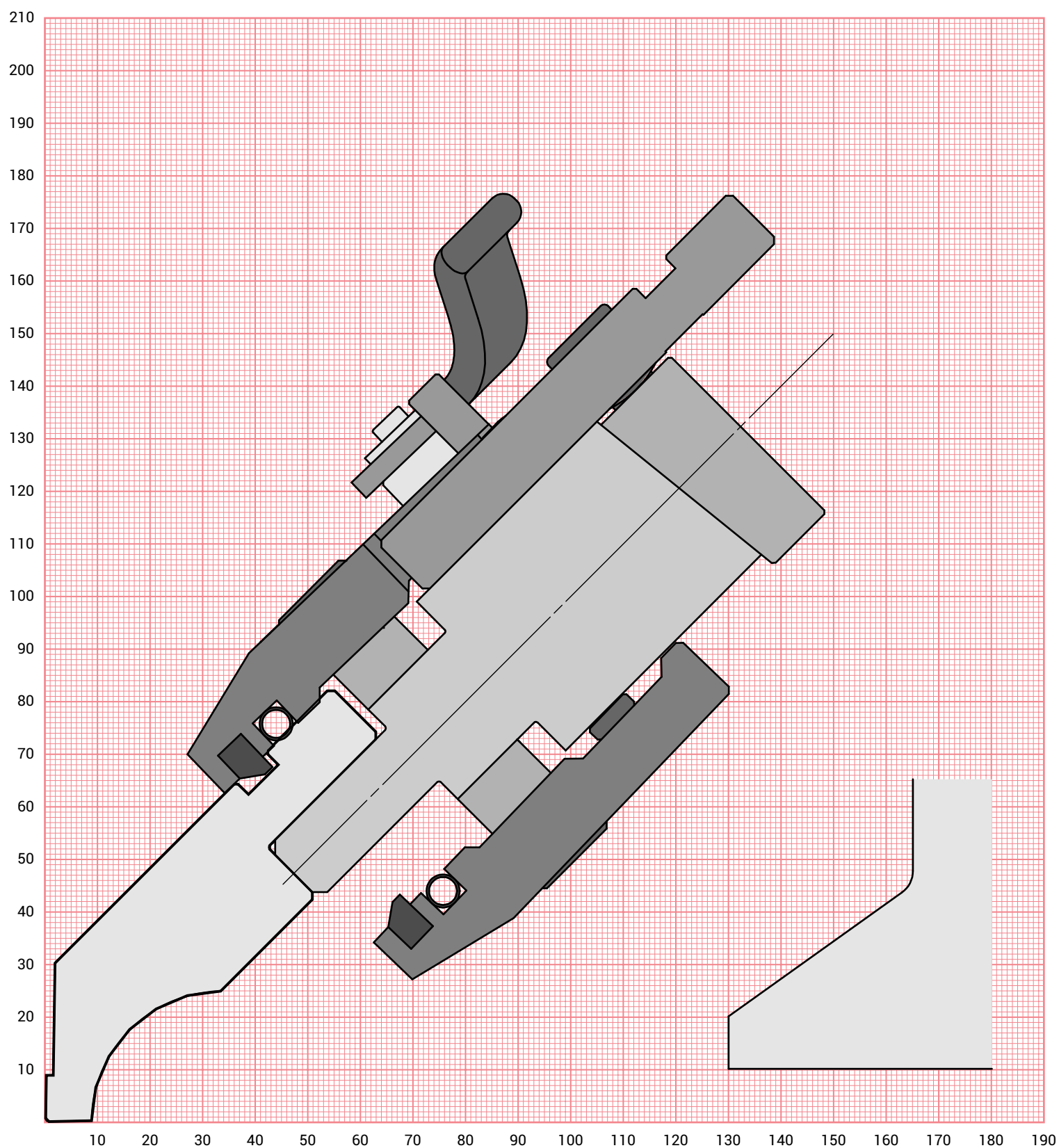
Air bending force chart for mild steel ($R_m \approx 450 \text{ N/mm}^2$)

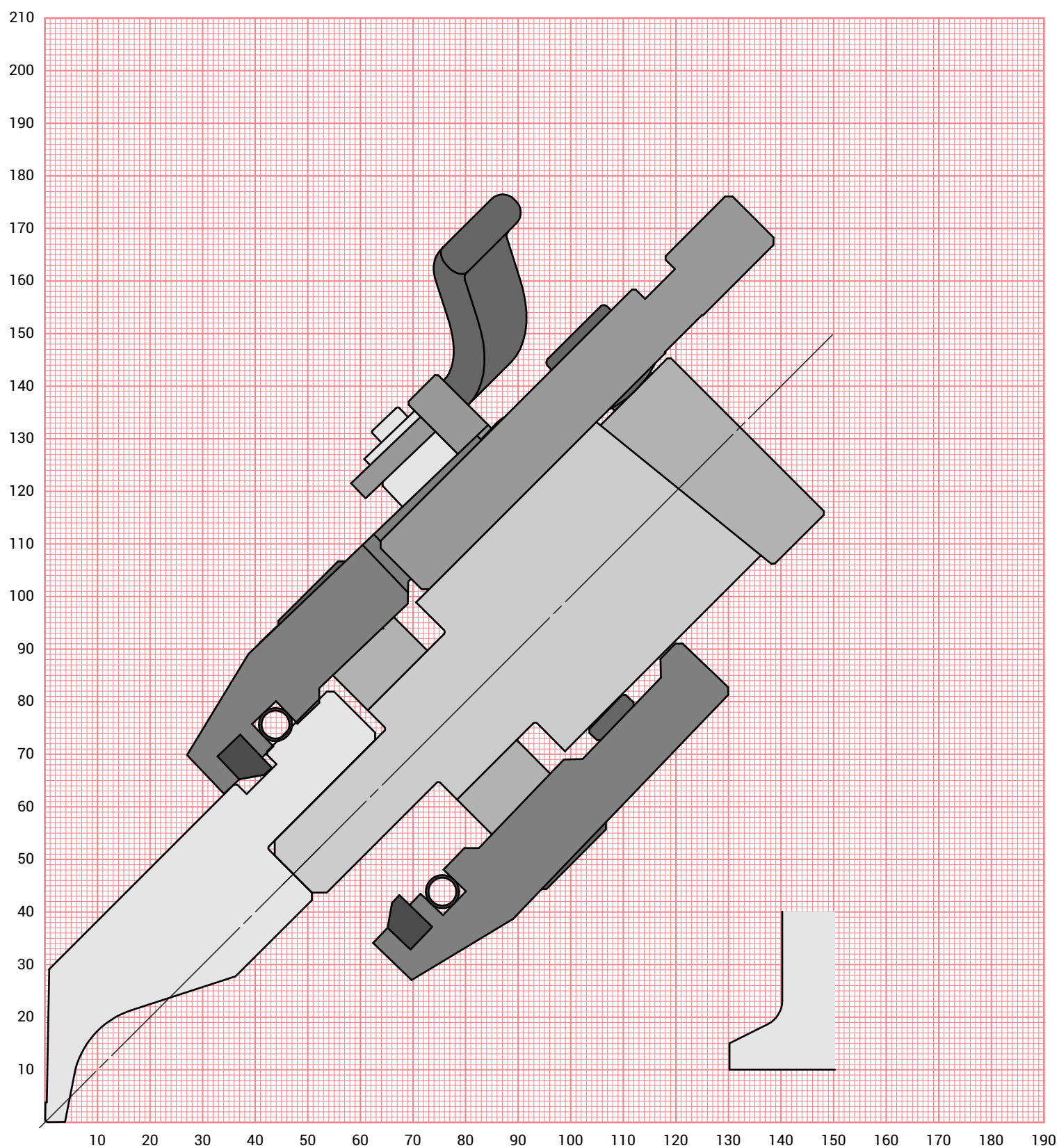
Die opening V		4	6	7	8	10	12	14	16	18	20	25	32	40	50	63	80	100	125	160	200	250
Minimum flange length b_{min}		2.8	4	5	5.5	7	8.5	10	11	13.5	14	17.5	22	28	35	45	55	71	89	113	140	175
Bending radius ir		0.7	1.0	1.1	1.3	1.6	2.0	2.3	2.6	3.0	3.3	4.0	5.0	6.5	8.0	10	13	16	20	26	33	41
Thickness (t) →	0.5 mm	60	50																			
	0.6 mm	90	60	60	60																	
	0.7 mm	120	80	80	60	60																
	0.8 mm		110	110	80	70																
	0.9 mm		130	120	100	80	70															
	1.0 mm		170	150	120	110	80															
	1.2 mm			210	180	150	120	110	90													
	1.5 mm						200	170	150	130	120											
	2.0 mm						330	290	260	230	200	170										
	2.5 mm								390	350	300	250	190									
	3.0 mm									510	450	360	290	230								
	4.0 mm											650	510	410	320	260						
	5.0 mm												780	630	500	390	320					
	6.0 mm													900	720	570	450	360				
	8.0 mm															1020	810	650	510			
	10 mm																1280	1010	800	630		
	12 mm																	1440	1170	900	830	
	15 mm																		1800	1410	1140	
	20 mm																			2500	2080	1670
	25 mm																				3150	2550
	30 mm																					3600

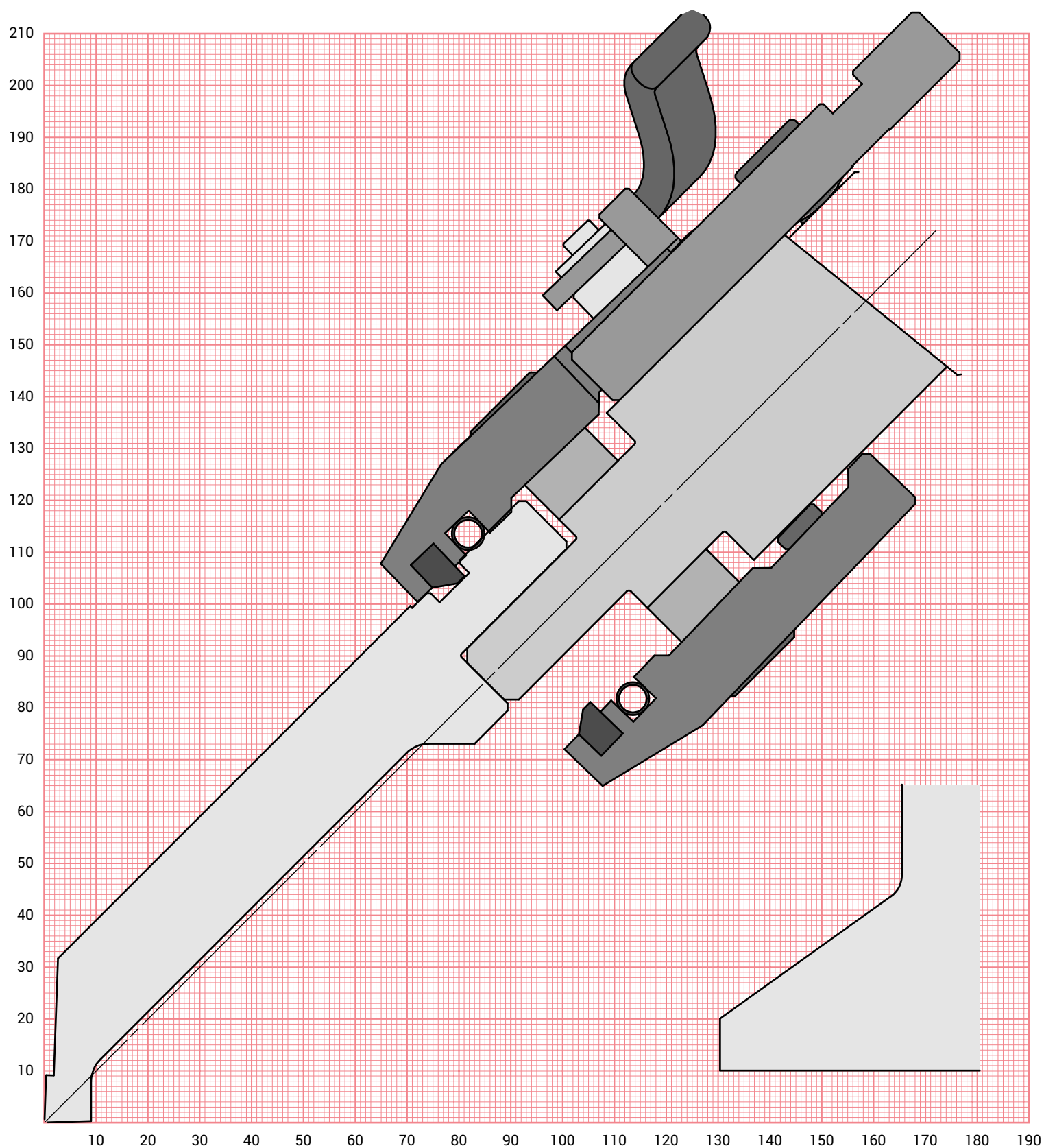
Air bending force chart for stainless steel ($R_m \approx 700 \text{ N/mm}^2$)

603

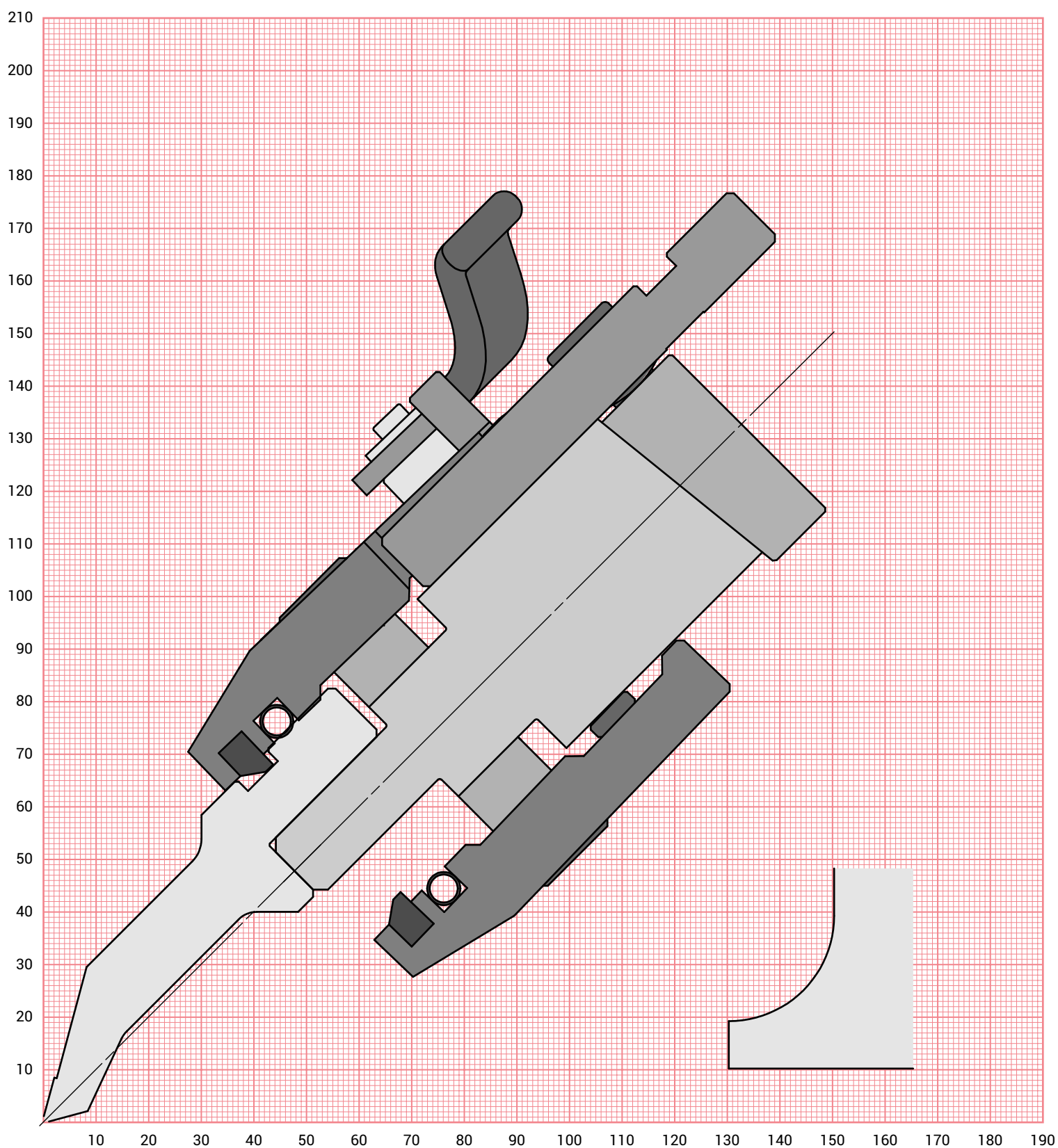




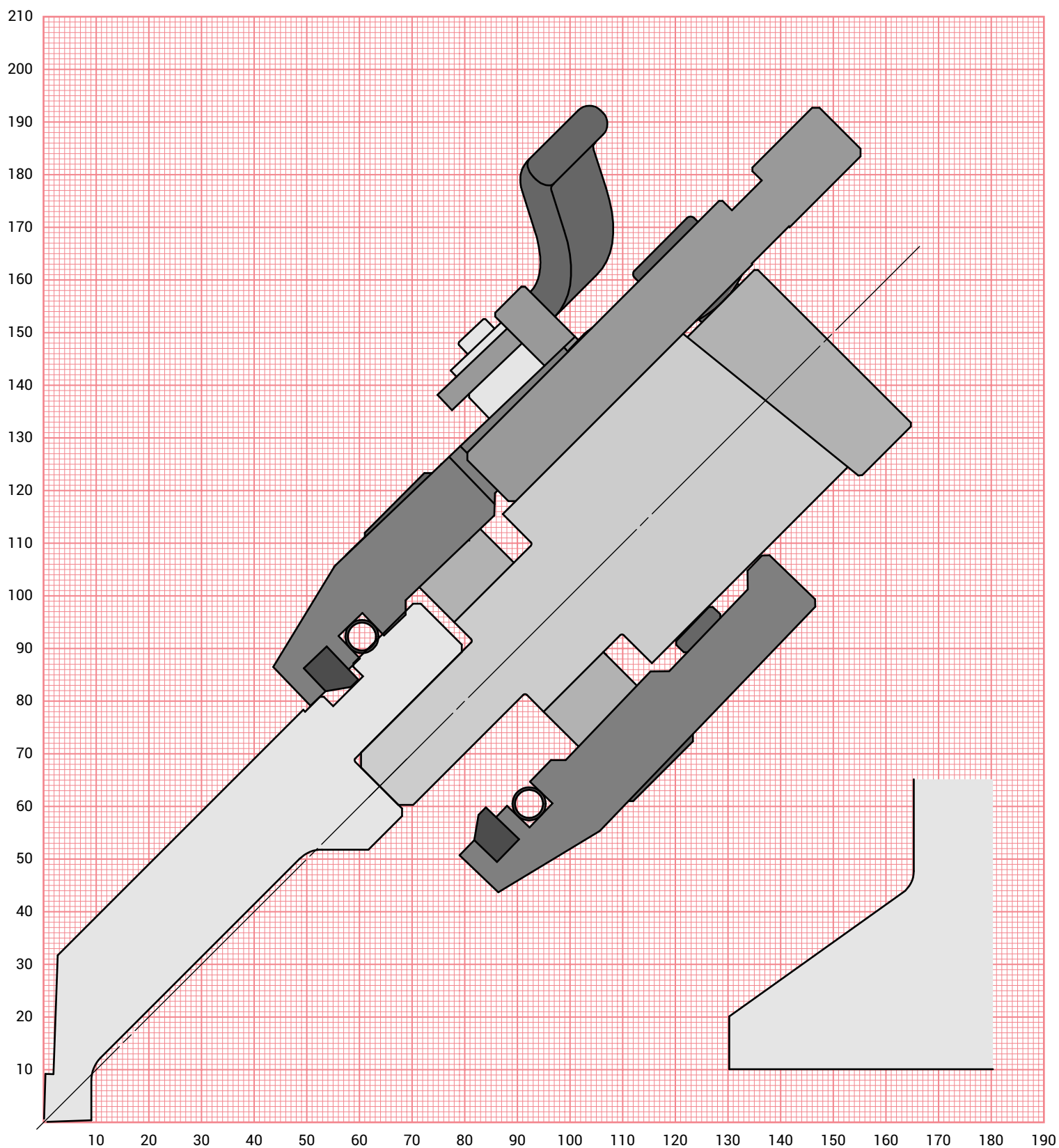




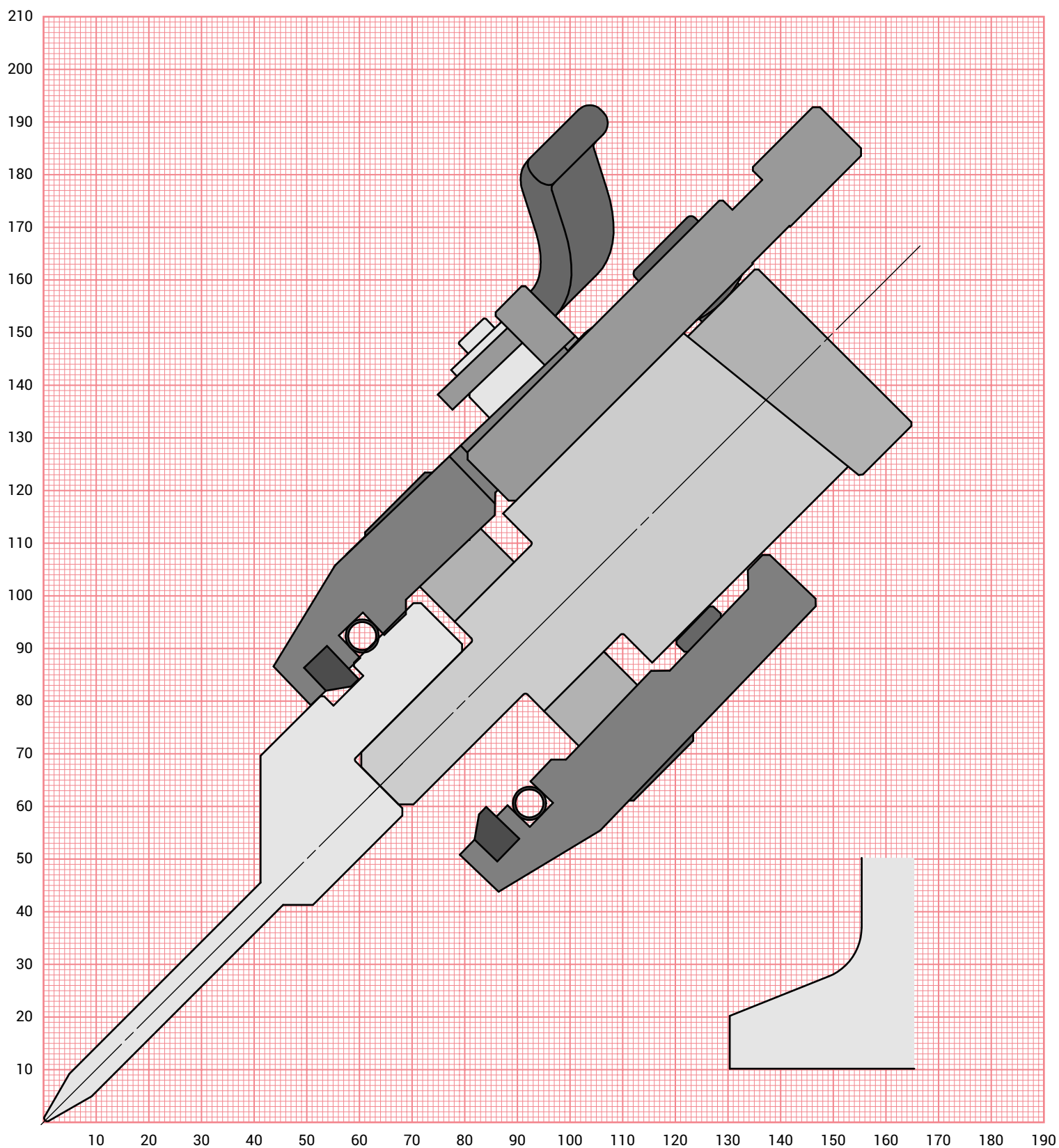
640



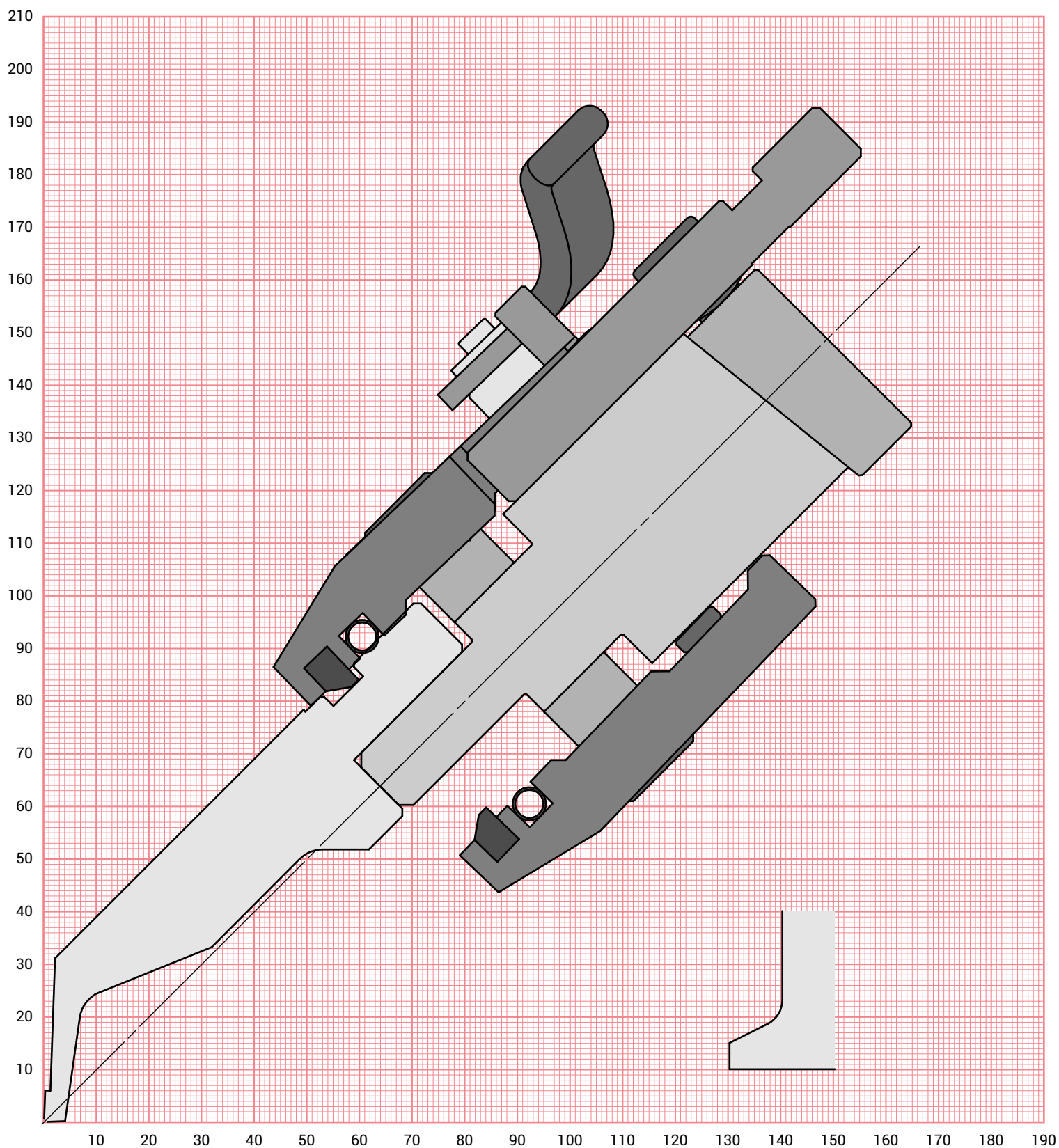
704



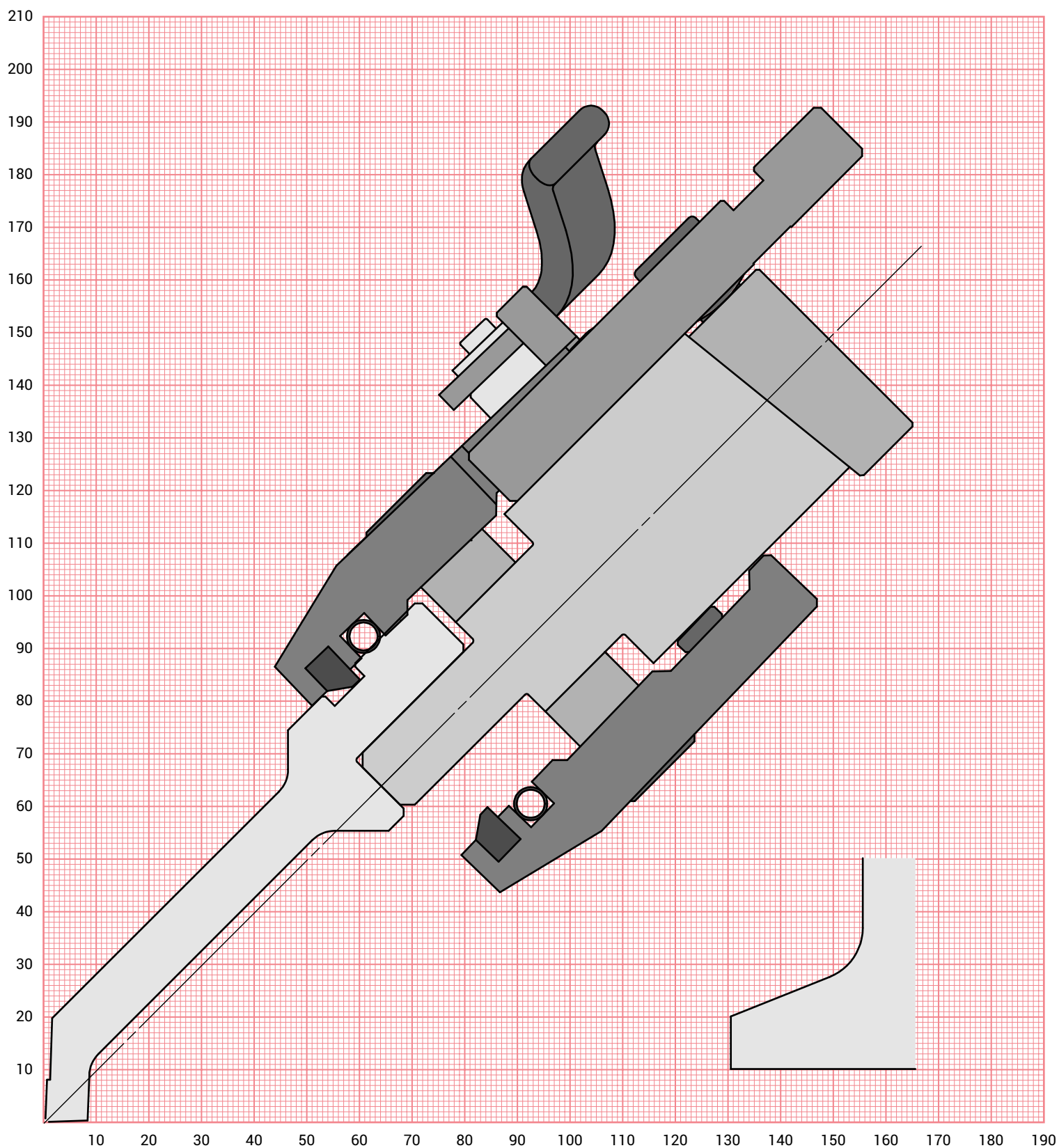
713



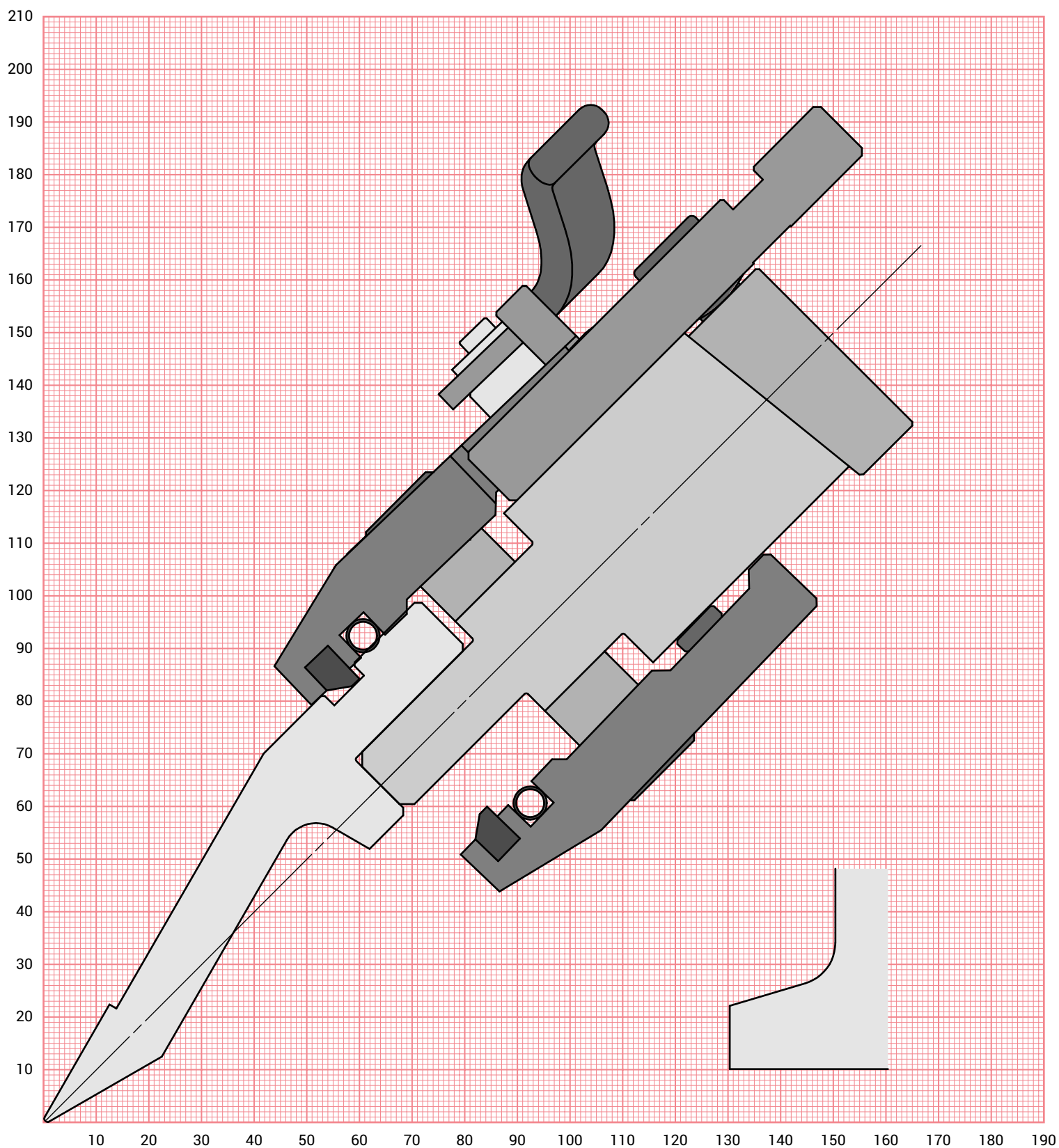
717

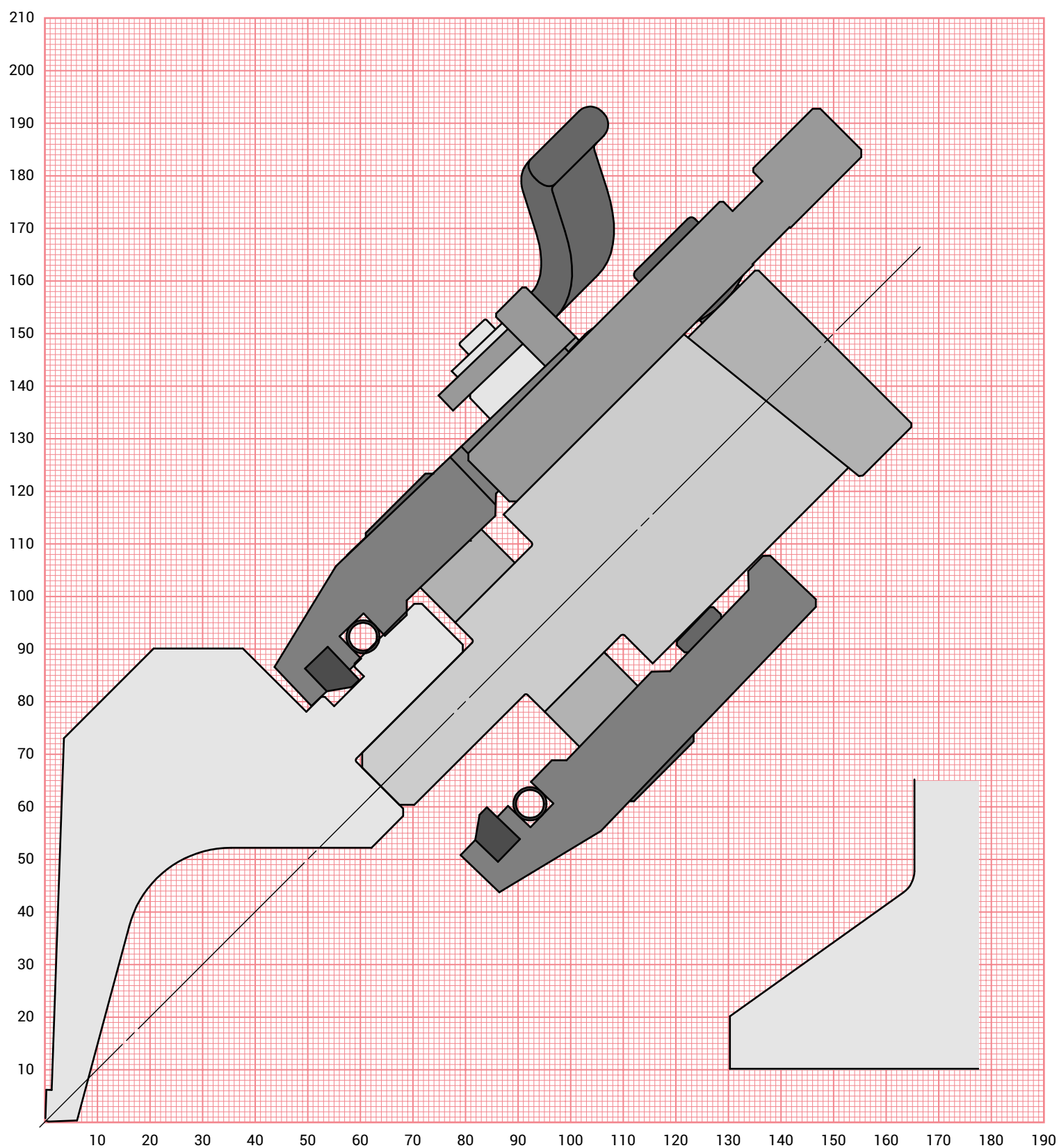


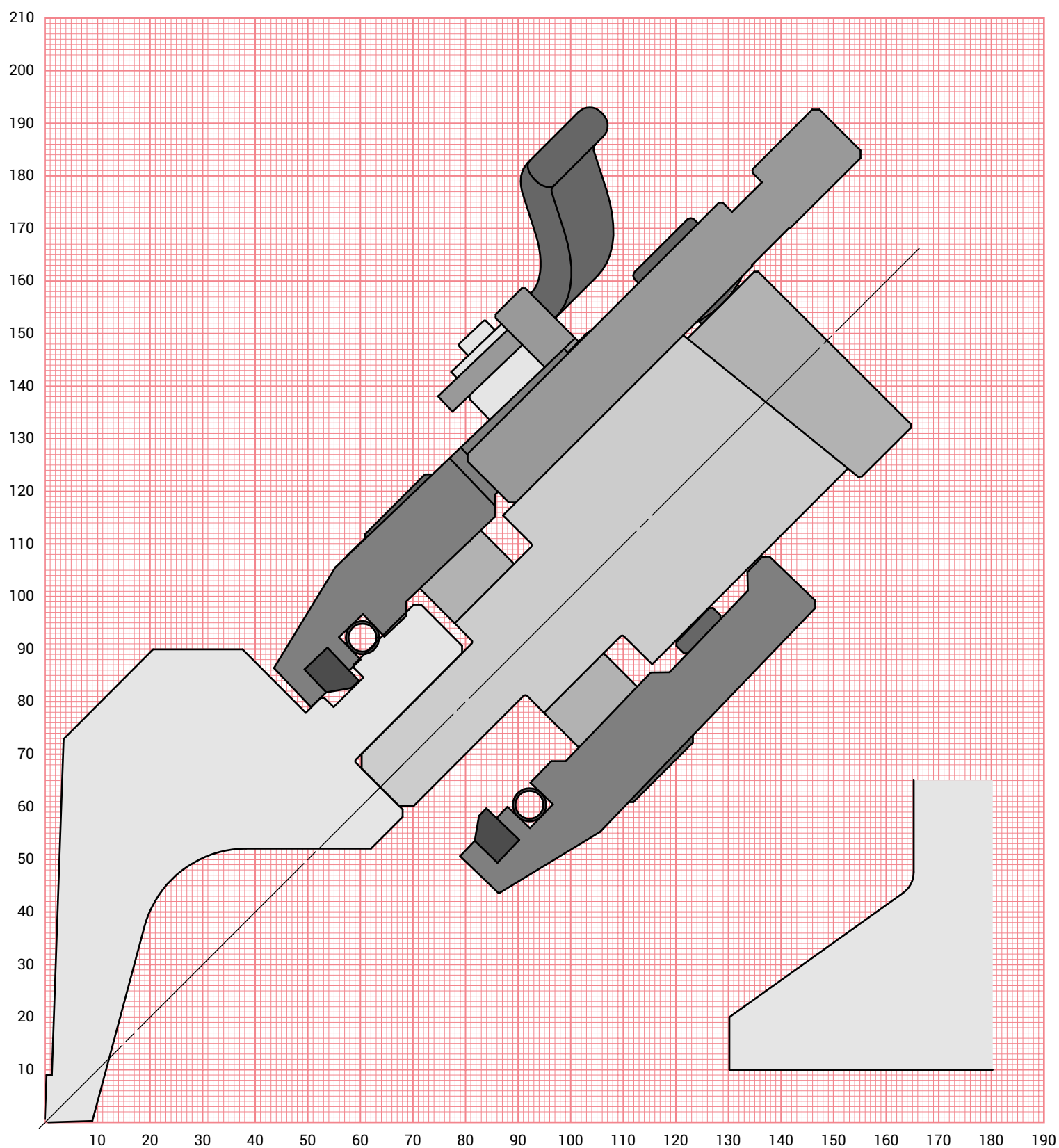
720



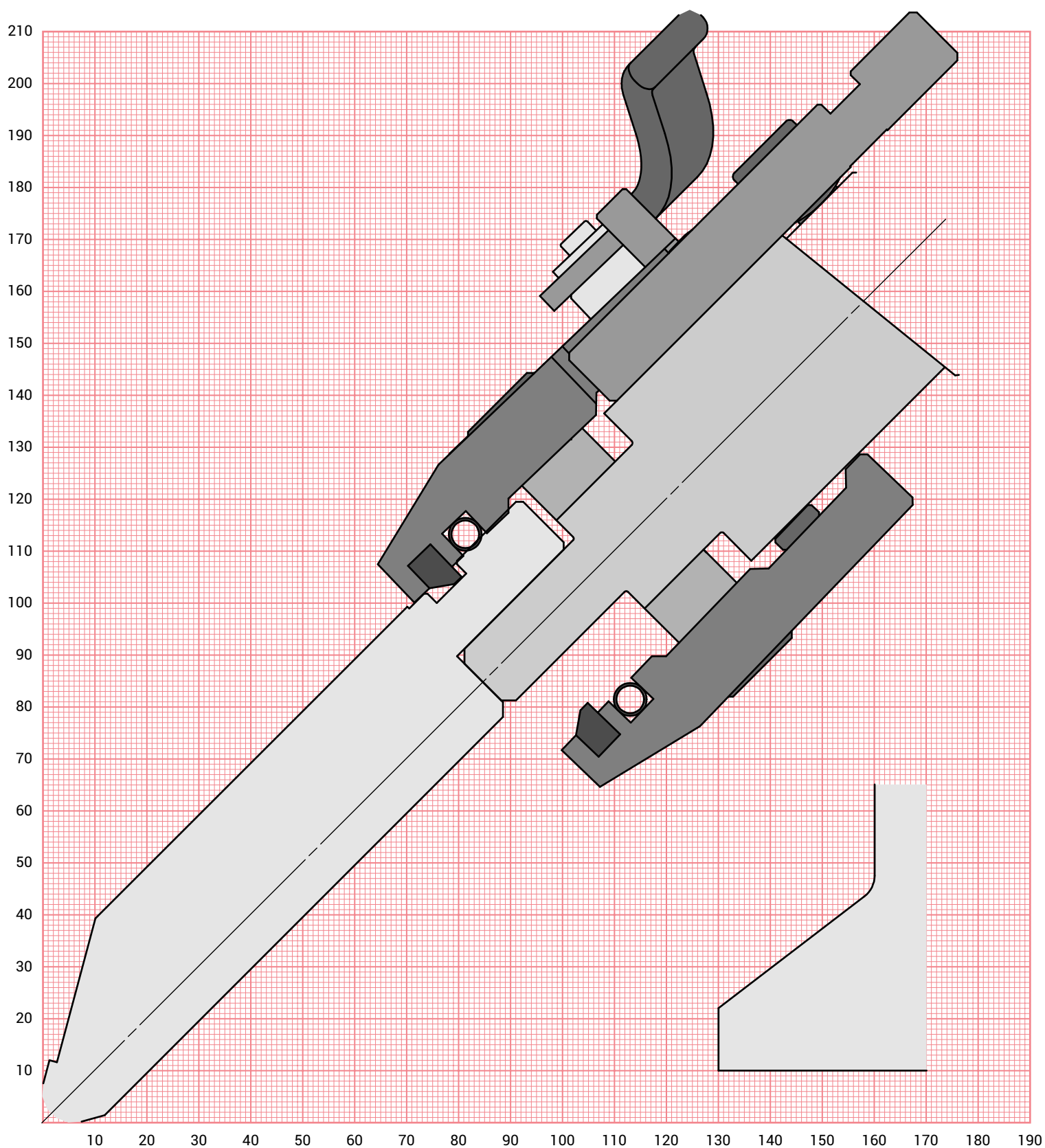
731

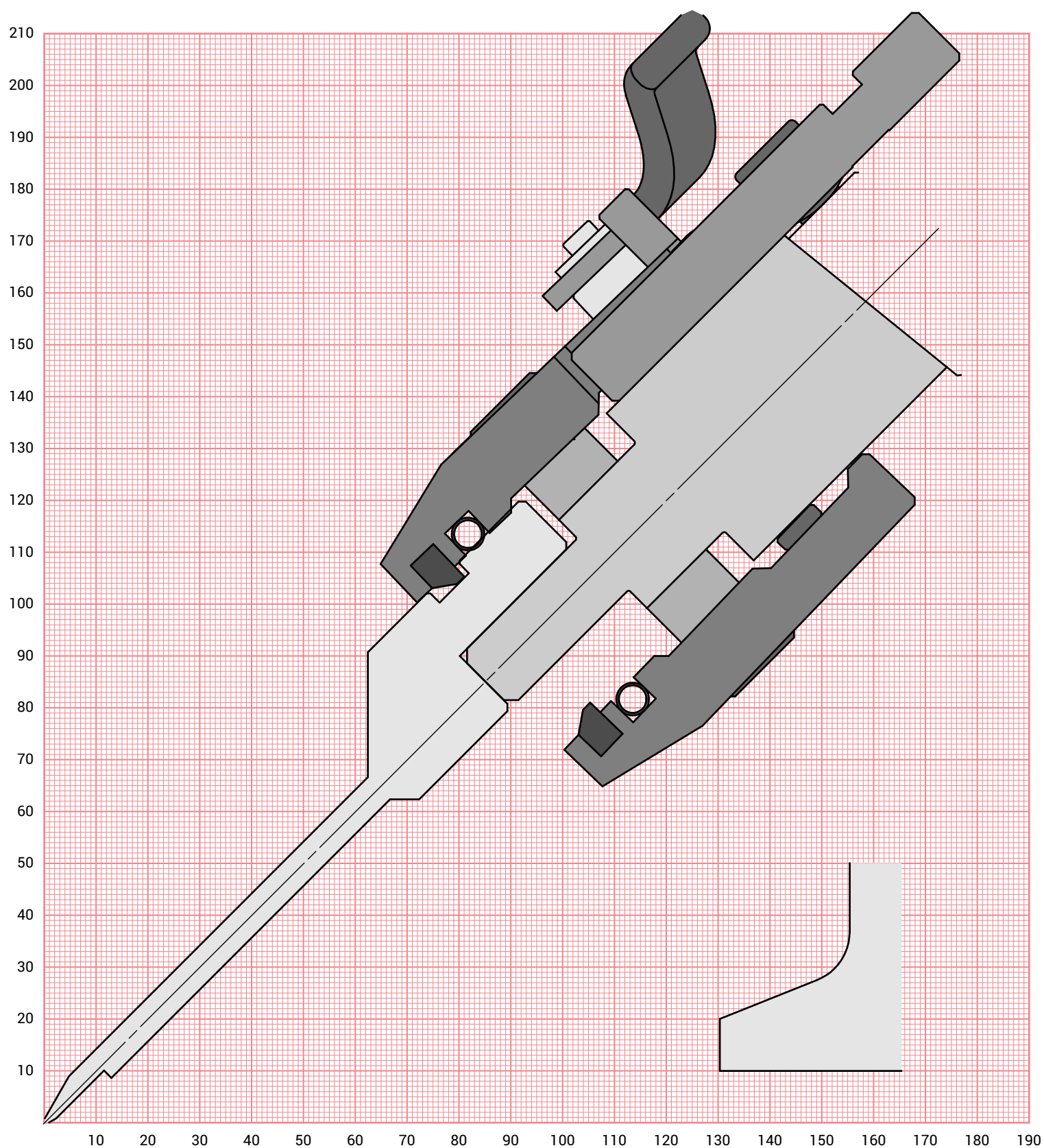




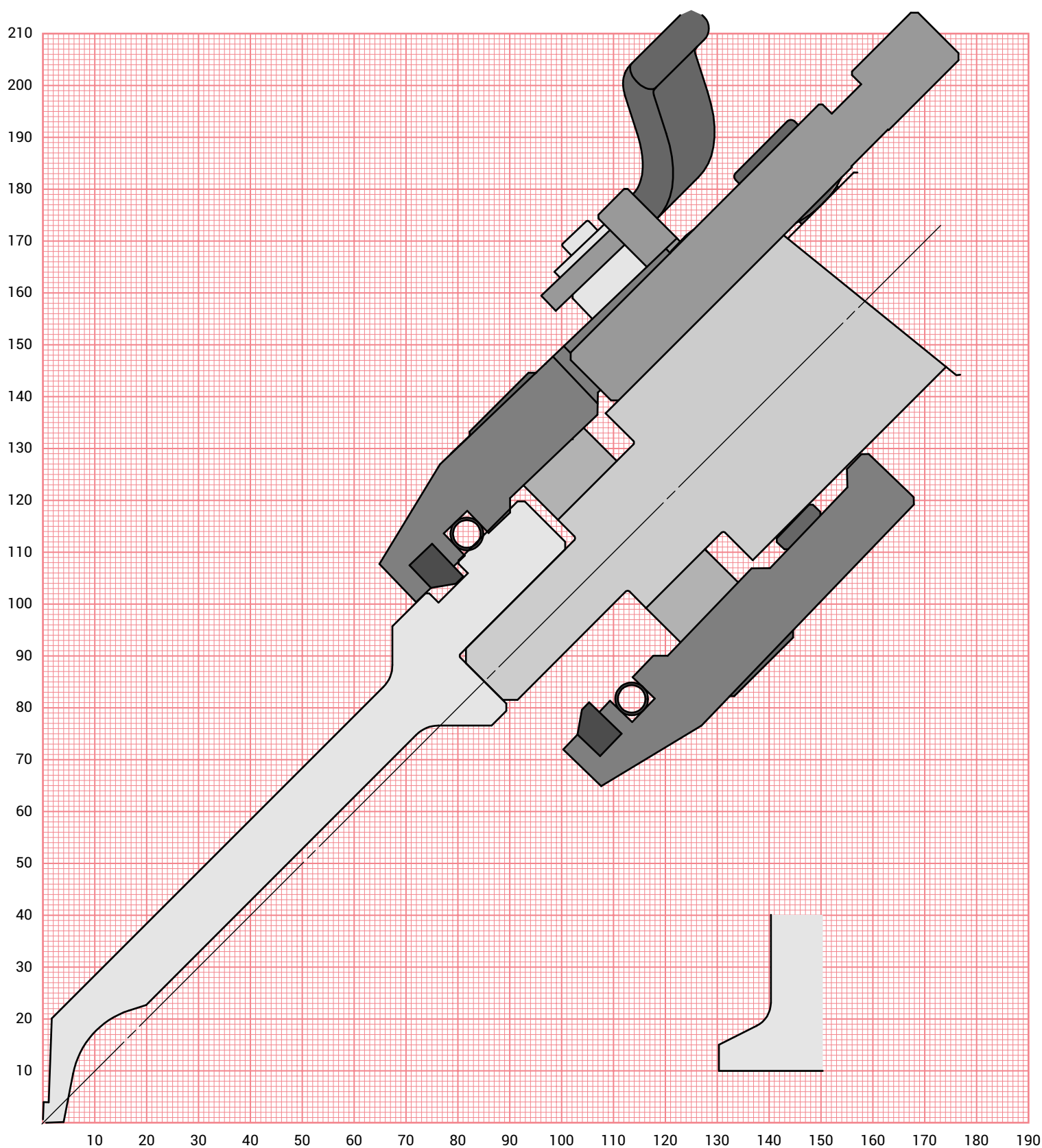


803

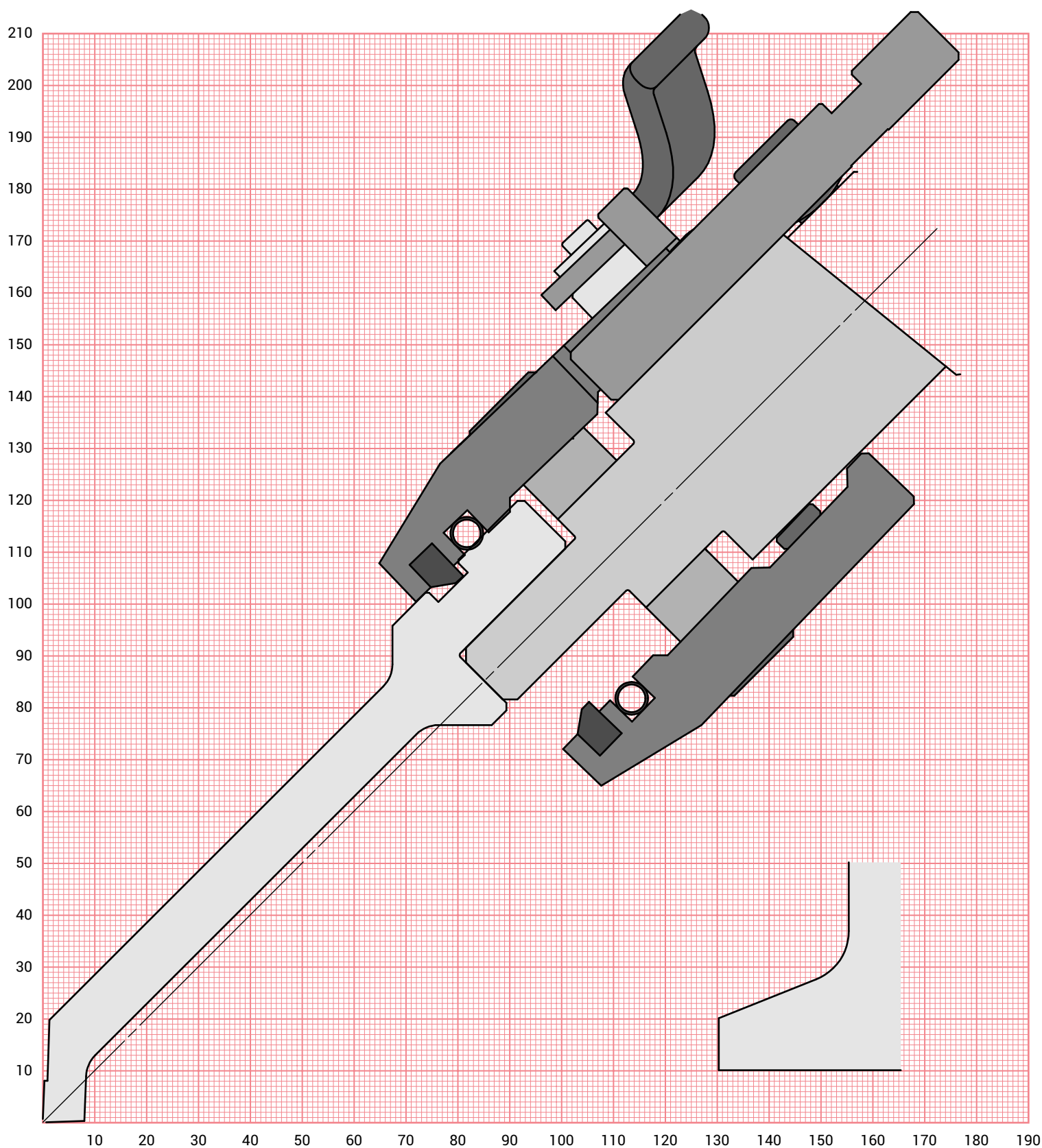




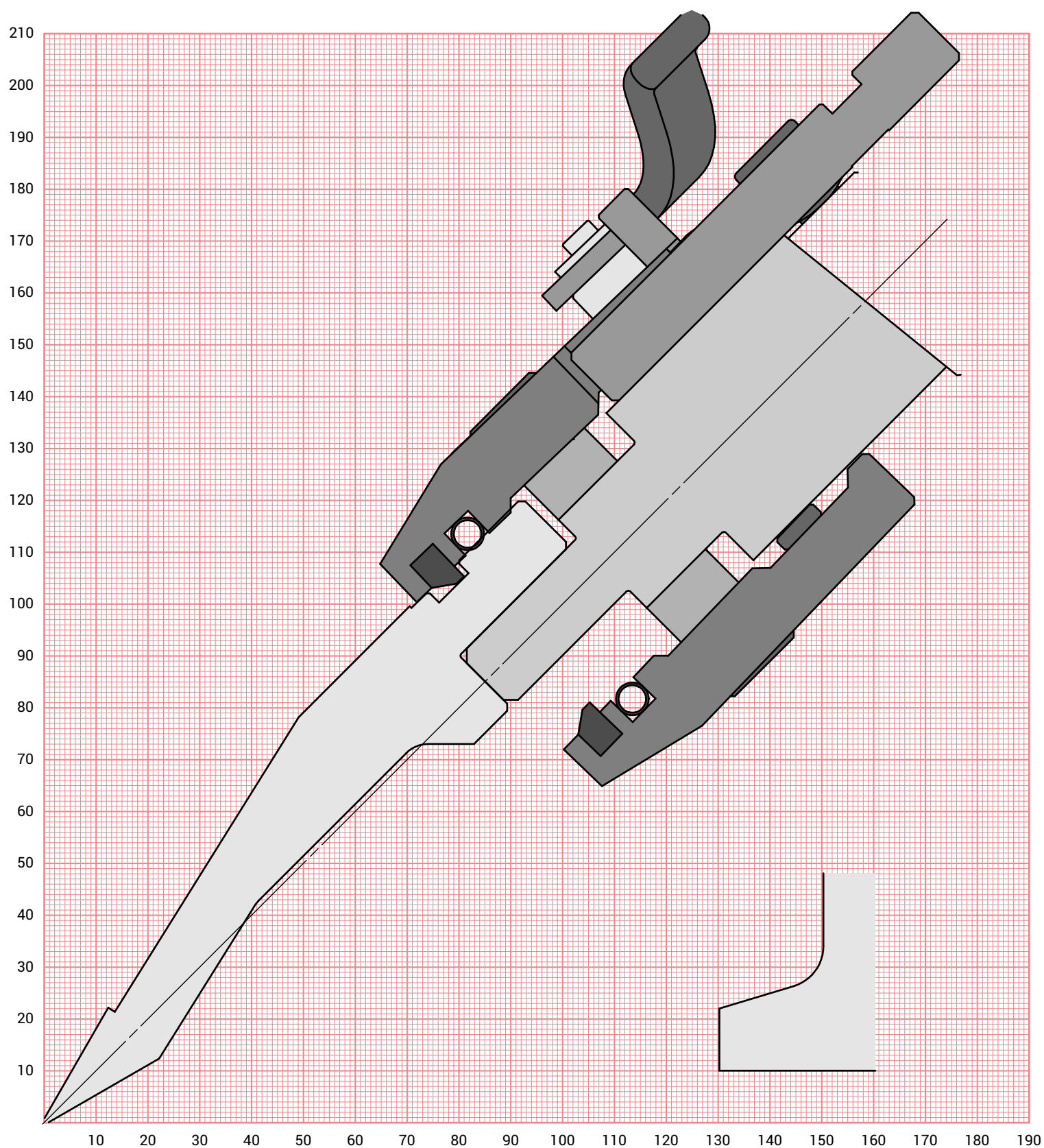
817



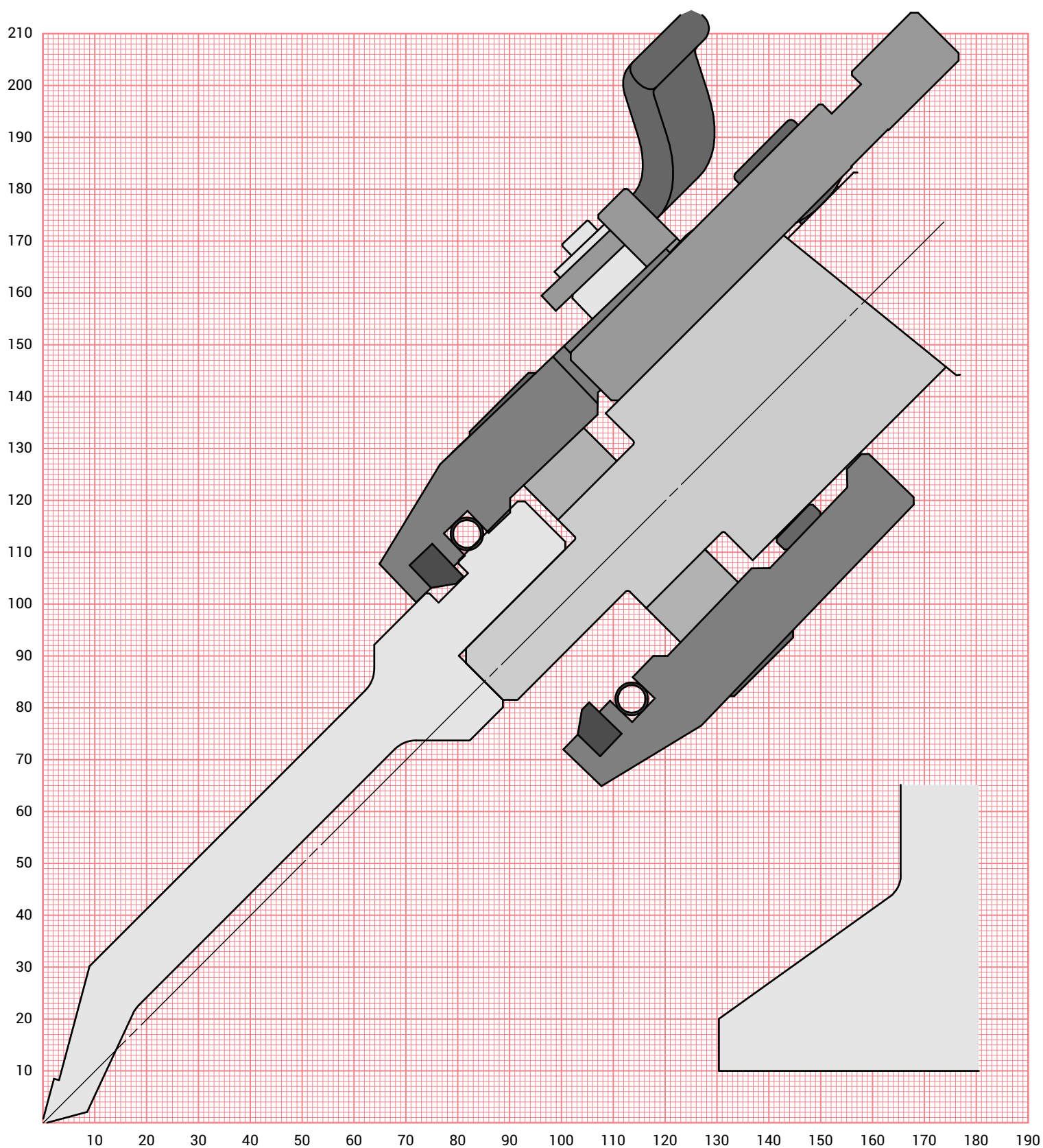
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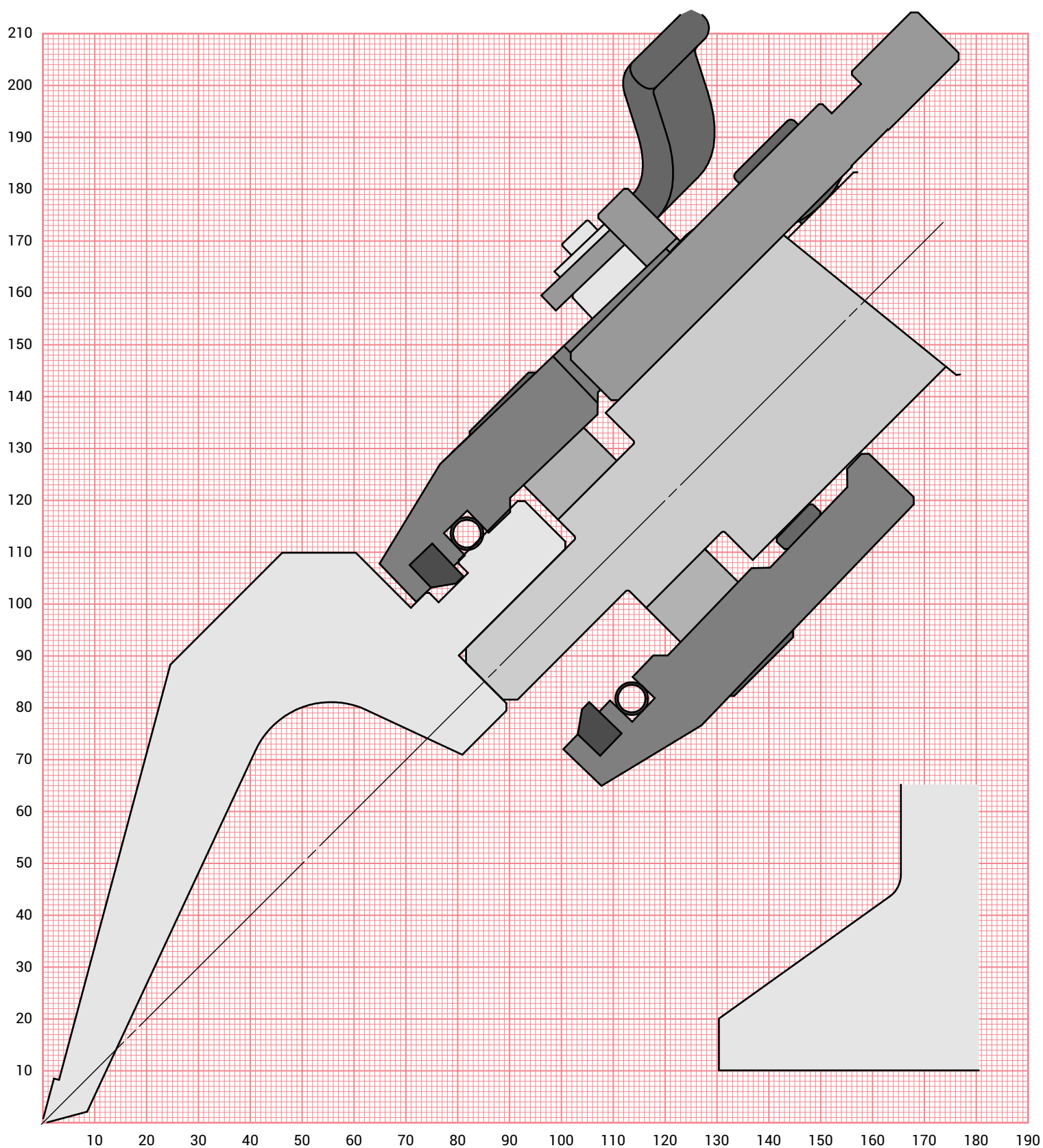
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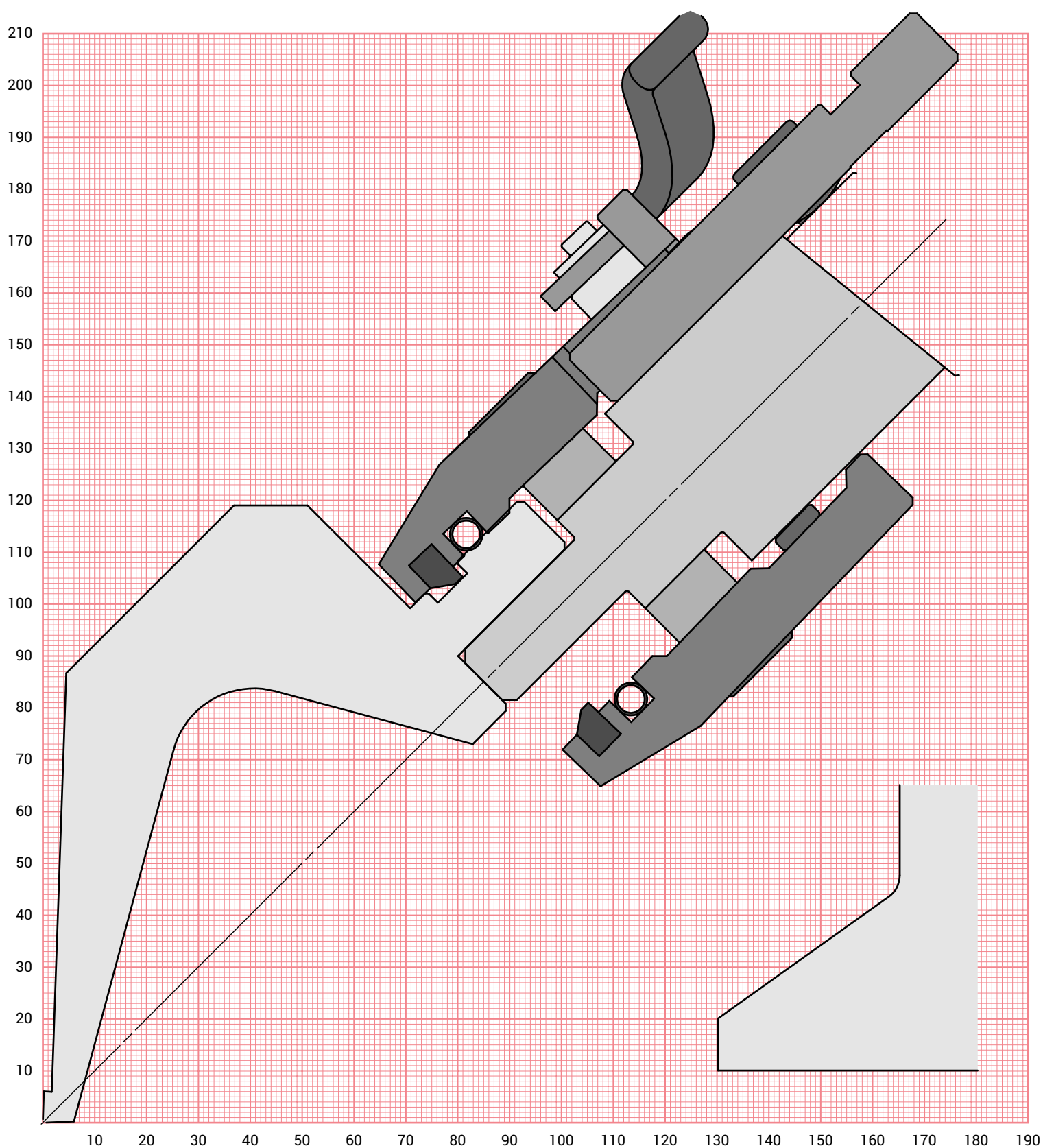
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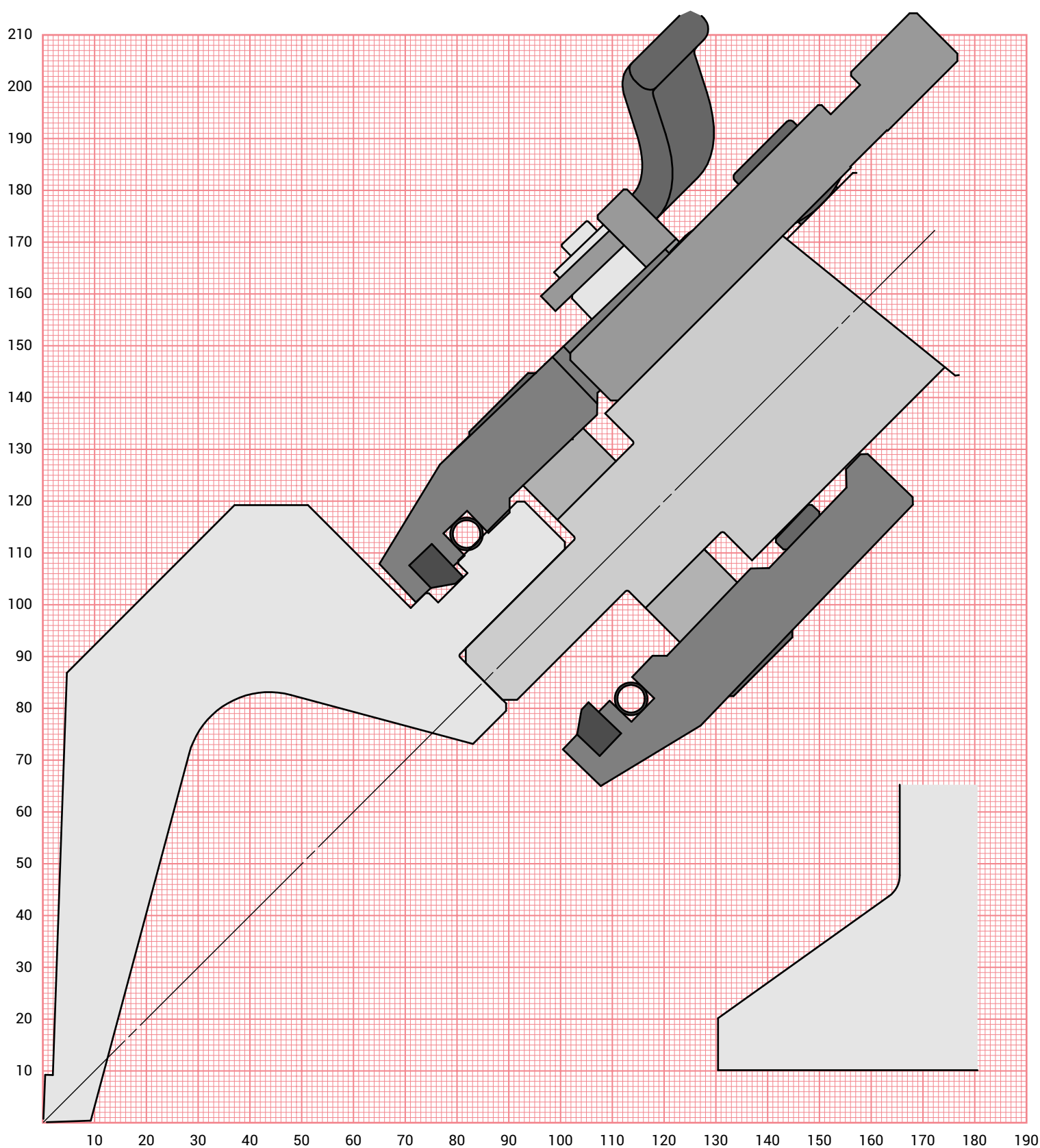
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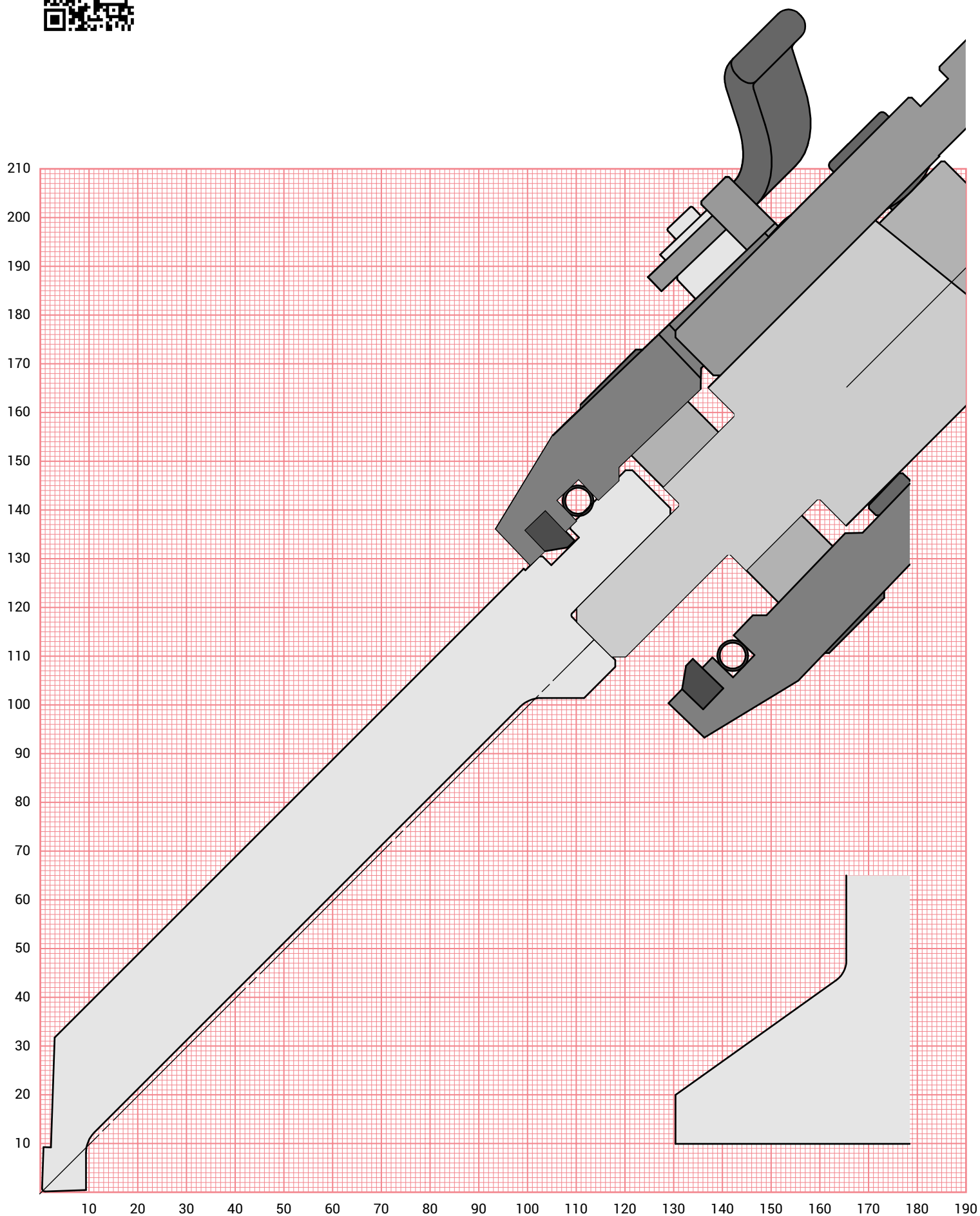
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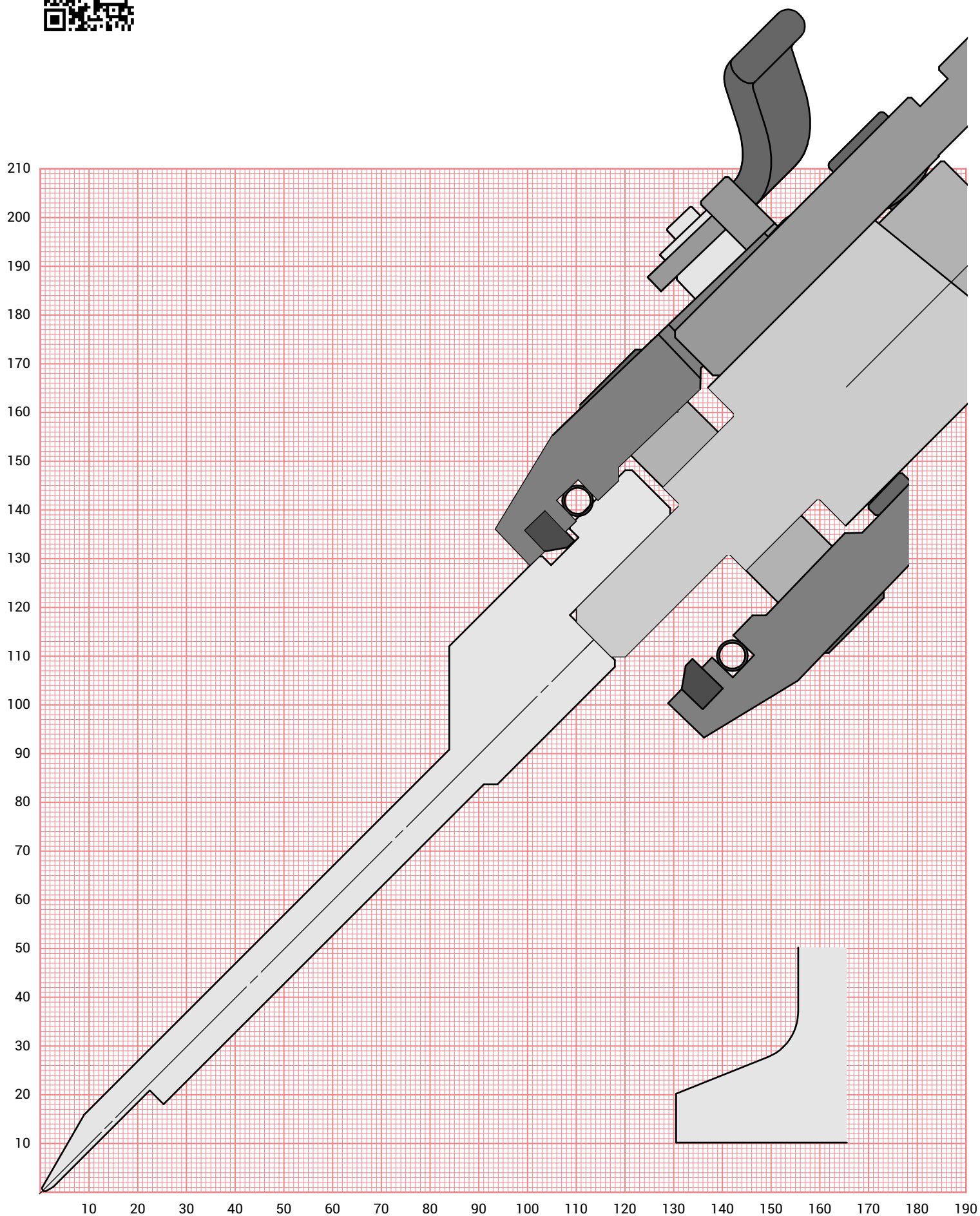
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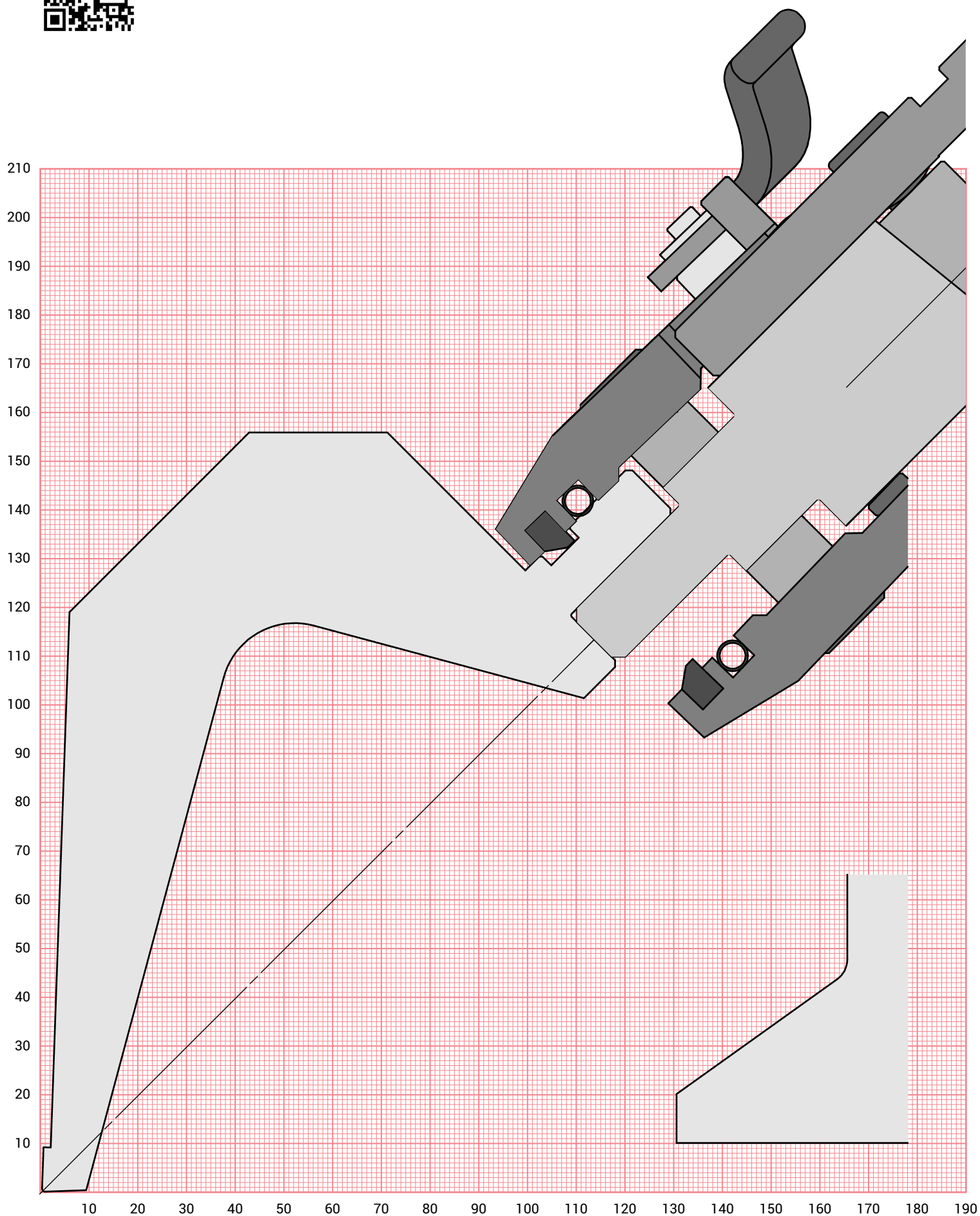
904



914



947



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