

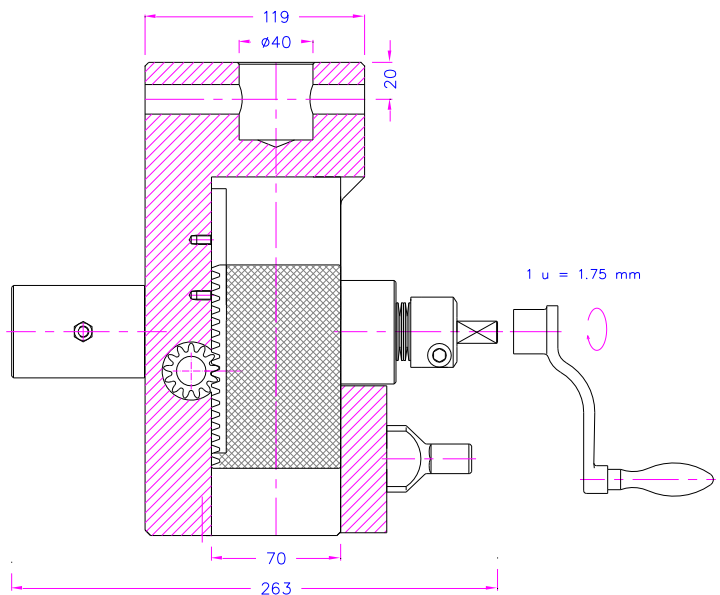
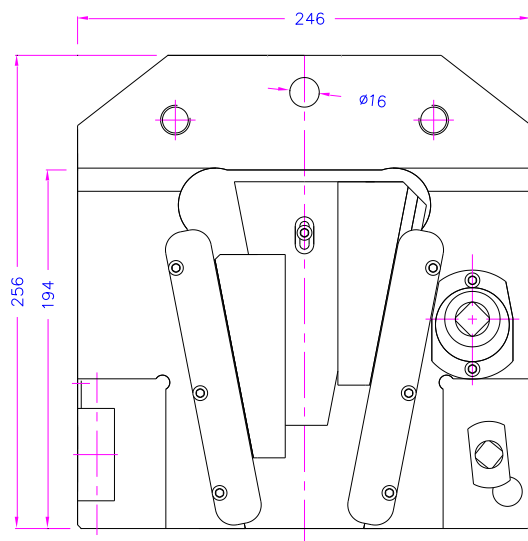
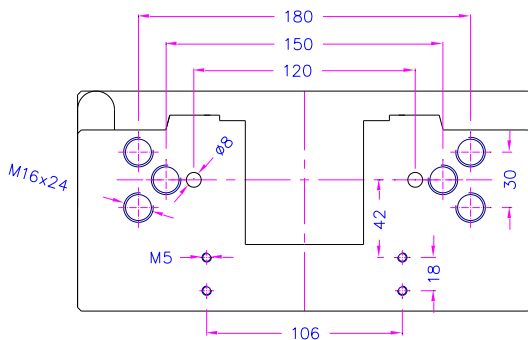
## WEDGE GRIPS 100, 150, 250, 300, 500 KN

Universal grips with lower wedge angle (11°) for many kinds of materials such as aluminium, copper, weak steel till 30 HRC – round and flat.

Simple to use with a crank handle (or a cordless electric screwdriver).

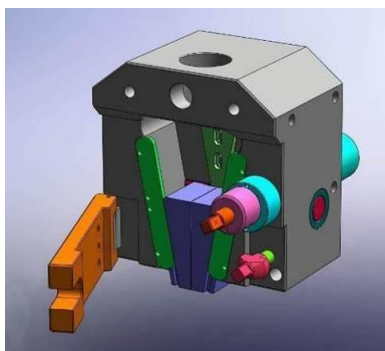
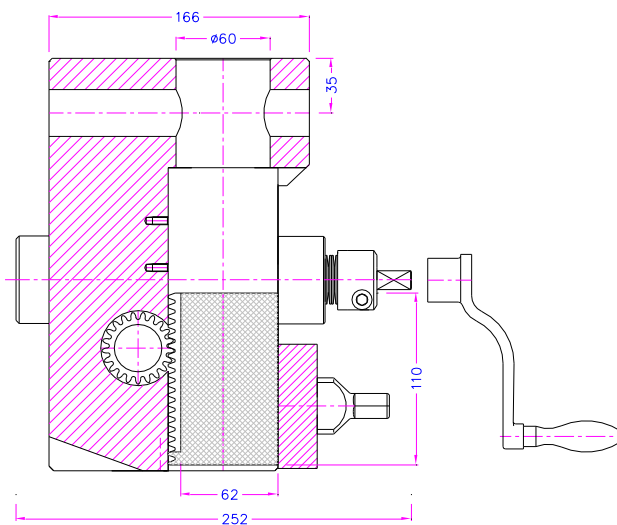
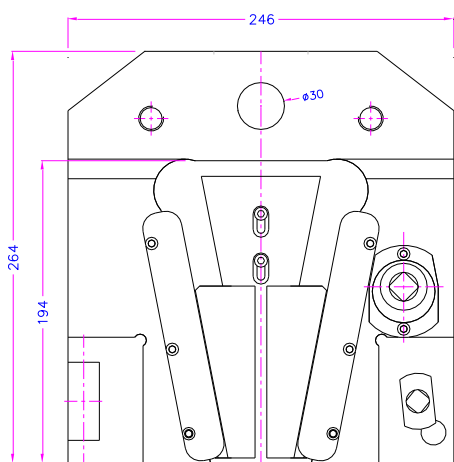
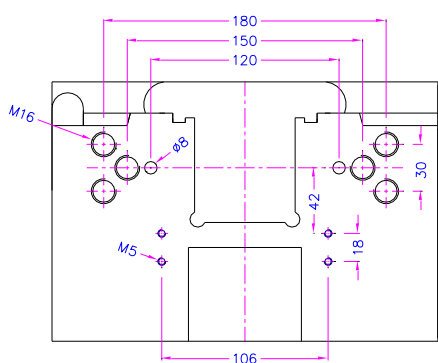
Rear side gear, can be also inserted in short machines.

<b>Item no.:</b>	<b>TH109-100</b>
Max load:	100 kN
Jaw opening:	0-50 mm depending on jaw type
Standard coupling:	Af318 or Af40. Further couplings on request
Body:	Steel, nickel-plated
Temperature range:	0 ... +70°C Further temperature ranges on request
Weight:	46 kg per grip without jaws
Scope of supply:	1 pair of grips without jaws incl. 1 crank

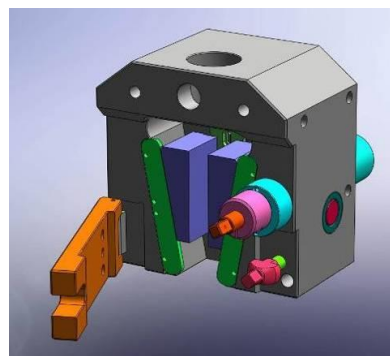


**Item no.:** TH109-250

Max load:	250 kN
Jaw opening:	0-50 mm depending on jaw type
Standard coupling:	Af60. Further couplings on request
Body:	Steel, nickel-plated
Temperature range:	0 ... +70°C Further temperature ranges on request
Weight:	70 kg per grip without jaws
Scope of supply:	1 pair of grips without jaws incl. 1 crank



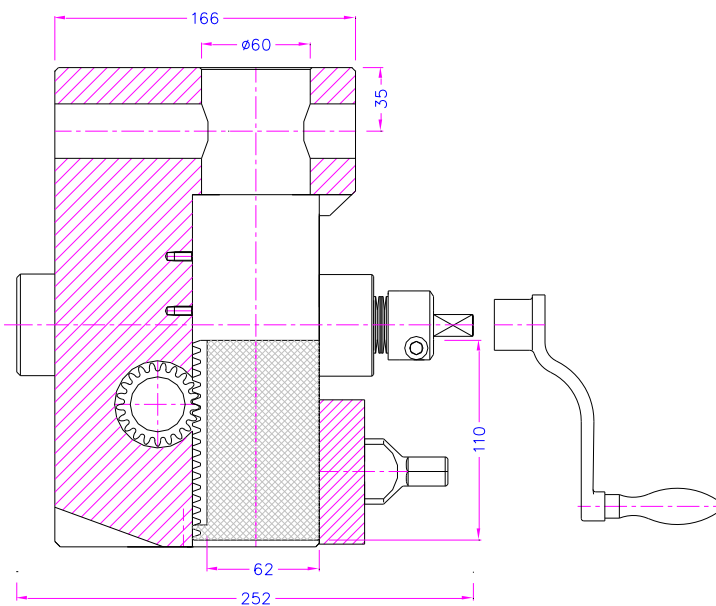
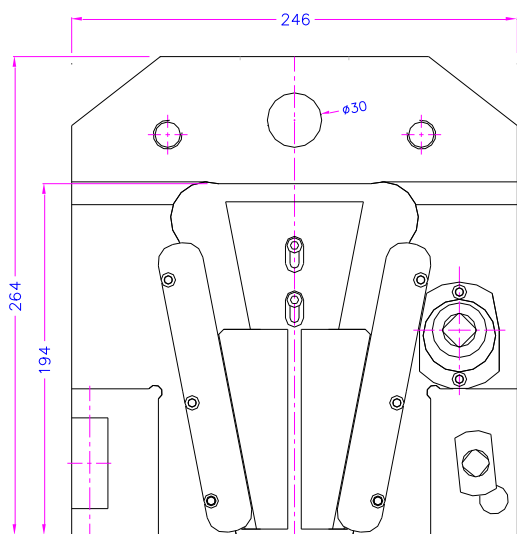
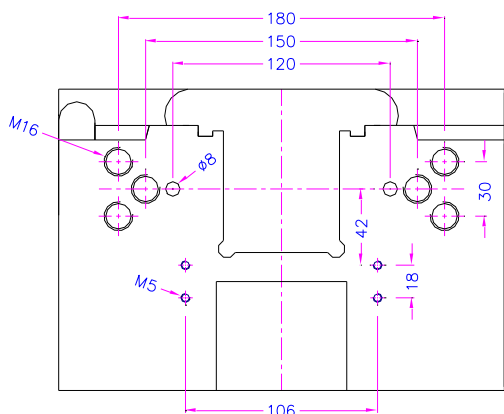
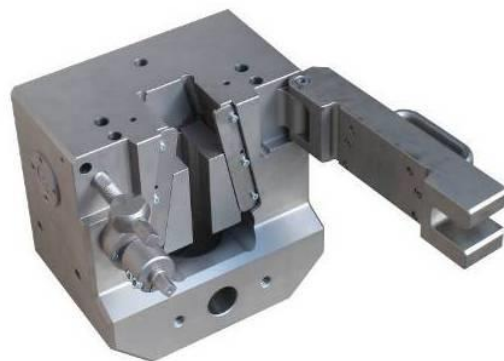
TH109-250 with open flap, closed jaws



flap opened, open jaws

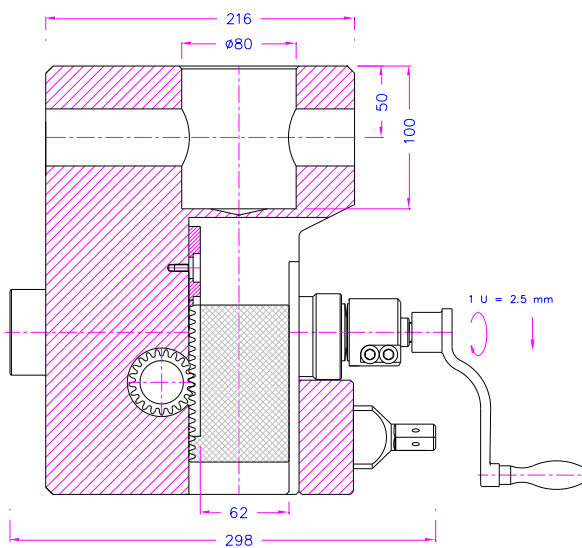
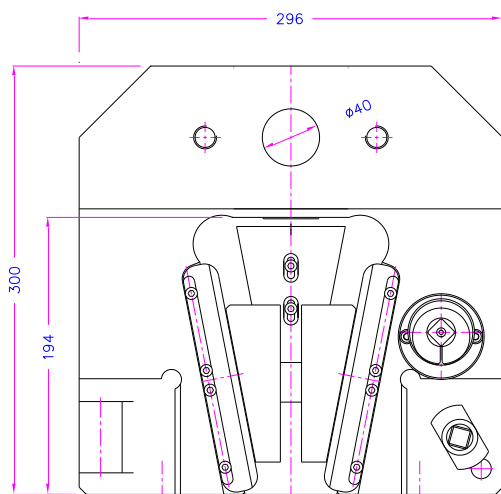
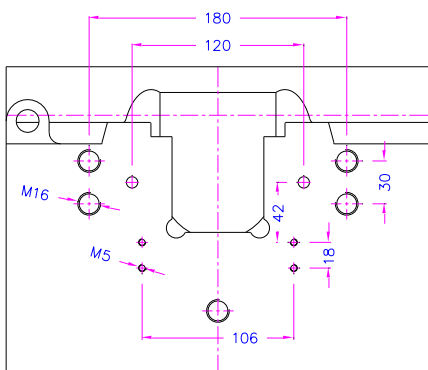
**Item no.: TH109-300**

Max load:	300 kN
Jaw opening:	0-50 mm depending on jaw type
Standard coupling:	Af60. Further couplings on request
Body:	Steel, nickel-plated
Temperature range:	0 ... +70°C Further temperature ranges on request
Weight:	75 kg per grip without jaws
Scope of supply:	1 pair of grips without jaws incl. 1 crank



**Item no.: TH109-500**

- Max load: 500 kN
- Jaw opening: 0-50 mm depending on jaw type
- Standard coupling: Af80. Further couplings on request
- Body: Steel, nickel-plated
- Temperature range: 0 ... +70°C.  
Further temperature ranges on request
- Weight: 100 kg per grip without jaws
- Scope of supply: 1 pair of grips without jaws  
incl. 1 crank



## Jaws for TH109 grips:

Scope of delivery: 1 set = 4 jaws

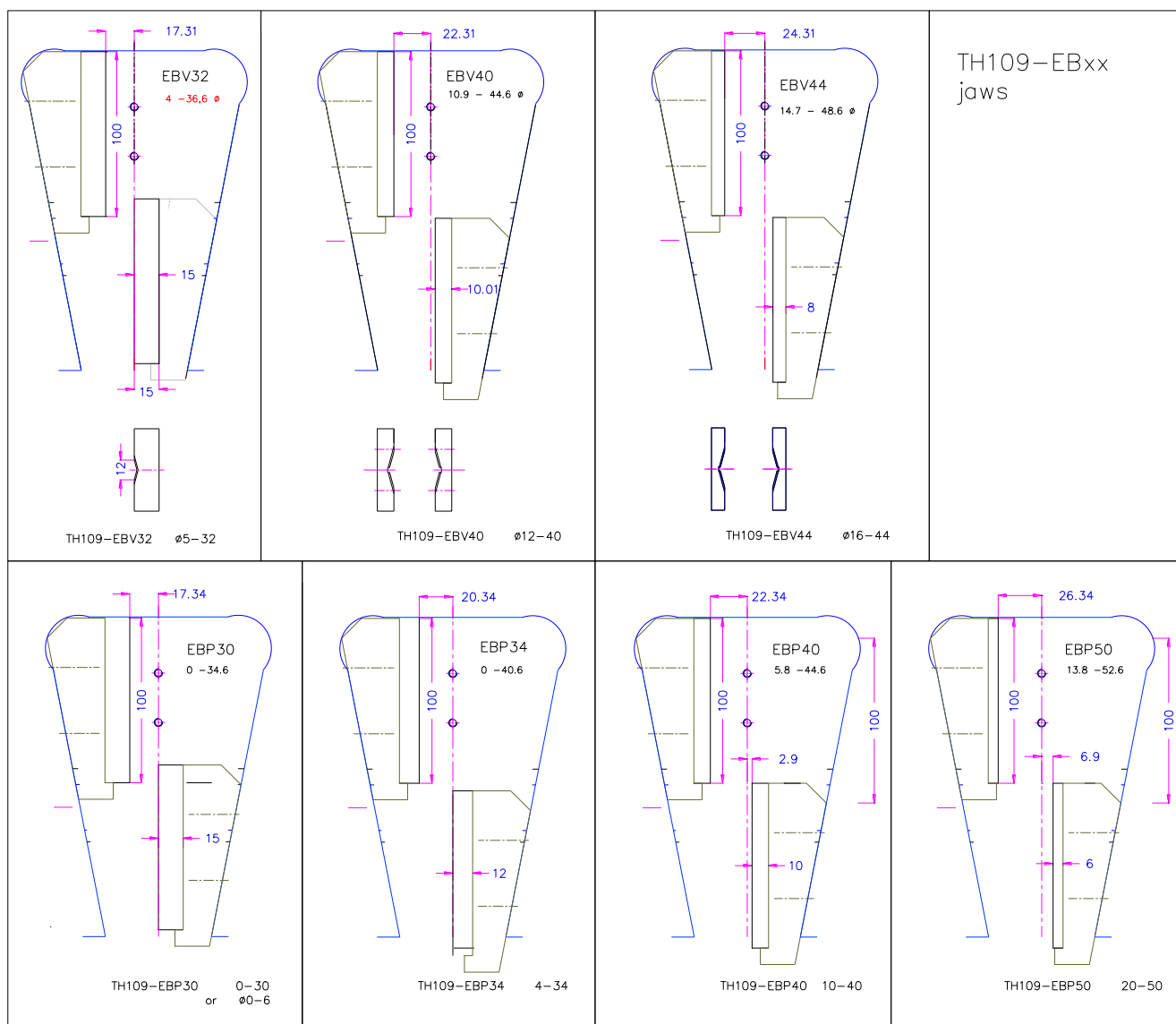
Item no.	Surface	Clamping surface H x W	Jaw opening	Weight per pair
TH109-BP30	Pyramid jaws	110x60 mm	0-30 mm	4.28 kg
TH109-BP50	Pyramid jaws	110x60 mm	26-50 mm	3.32 kg
TH109-BV30	V-jaws	Height 110 mm	Ø 6-30 mm	4.28 kg
TH109-BV50	V-jaws	Height 110 mm	Ø 30-50 mm	3.28 kg
TH109-BVP30	Serrated V-jaws	Height 110 mm	Ø 6-30 mm	4.30 mm
TH109-BVP50	Serrated V-jaws	Height 110 mm	Ø 30-50 mm	3.30 mm

## Insert jaws for TH109

Scope of delivery 1 set = 4 jaws. For a quick change of jaws, insert jaws require carriers (TH109-GT).  
Max.load for insert jaws is 250 kN!

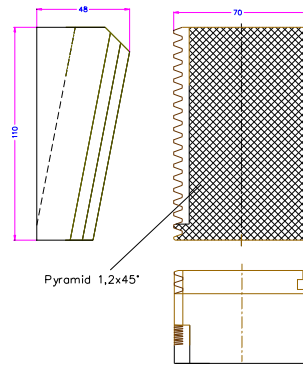
Item no.	Surface	Clamping surface H x W	Jaw opening	Weight per pair
TH109-GT	Carrier	-	-	2.93 kg
TH109-EBP30	Pyramid (serrated)	100x50 mm	0-30 mm	1.12 kg
TH109-EBP34	Pyramid (serrated)	100x50 mm	4-34 mm	0.87 kg
TH109-EBP40	Pyramid (serrated)	100x50 mm	10-40 mm	0.74 kg
TH109-EBP50	Pyramid (serrated)	100x50 mm	20-50 mm	0.21 kg
TH109-EBV32	V-jaws	100x50 mm	Ø 5-32 mm	1.13 kg
TH109-EBV40	V-jaws	100x50 mm	Ø 12-40 mm	0.35 kg
TH109-EBV44	V-jaws	100x50 mm	Ø 16-44 mm	0.27 kg

Jaws with other dimensions and surface coatings on request





TH109-BP for flat samples



TH109-BV for round samples



TH109-BVP serrated V-jaws for better grip for medium-hard specimens



TH109-GT carrier, TH109-EBP and TH109-EBV

**Examples for customized jaws:**



TH109-EBV Insert jaws for round samples



TH109-EBVD24 Diamond-coated V-insert jaws

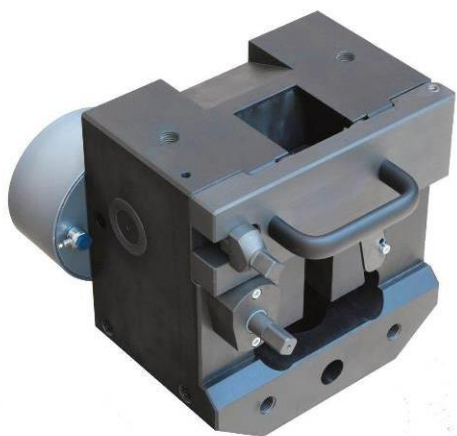


TH109-EBP15-TiNi Titanium nitride coating



TH109-BW35-A28 Jaws for toothed belt

**Accessories:**



**TH109-...+Ko**

Pneumatic grip with double-acting cylinder  
 Optionally available

Max. clamping force at 100% tensile force:

TH109-100+Ko: 170 kN

TH109-250+Ko: 425 kN

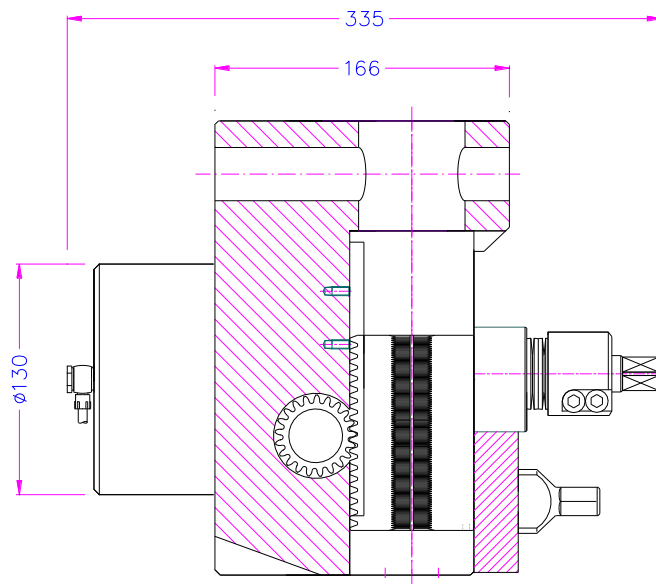
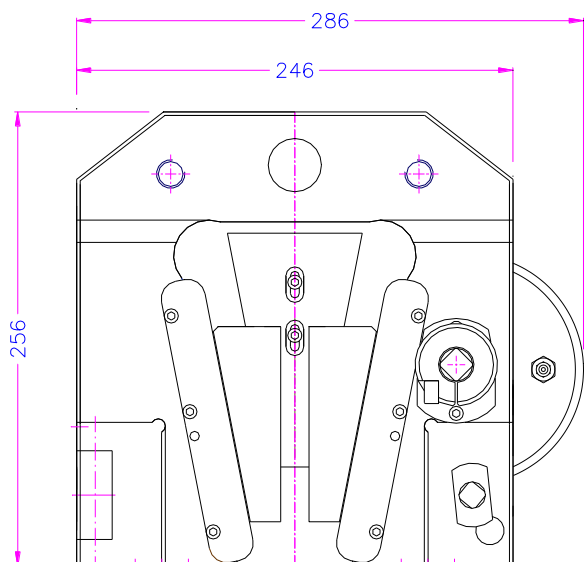
TH109-300+Ko: 510 kN

Pre-clamping force

at 7 bar:  $F_c = 13$  kN

at 15 bar:  $F_c = 27$  kN

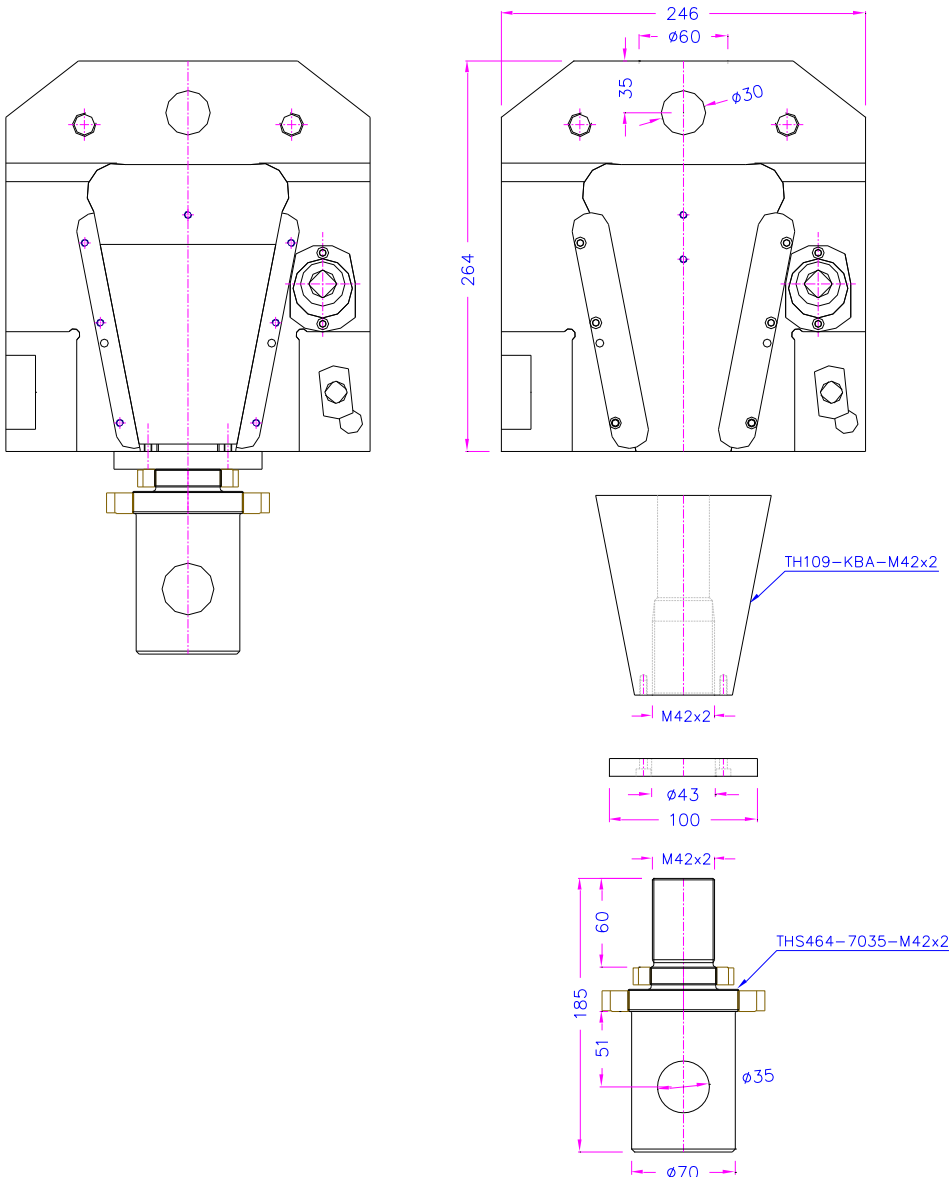
Compressor: [TH216](#)



**TH109-KBA-M42x2 + THS464-7035-M42x2**

Wedge adapter to connect other grips without disassembling TH109 grip.

Available in different coupling sizes.





**TH109-Ans1**

Stopper for TH109, adjustable





TH109-250 + compression platen TH23-P156



TH109 + bending fixture TH22St-360

**Test videos:**

<https://youtu.be/HLgOiL9DDWw>

Copper tube 14.5 mm Ø

<https://youtu.be/dacmJ8ddgXk>

Steel tube 40 mm Ø

<https://youtu.be/qPhYPj8RXwU>

Brass tube 23 mm Ø

<https://youtu.be/IVE2LhJ6FS8>

Rubber with fiber

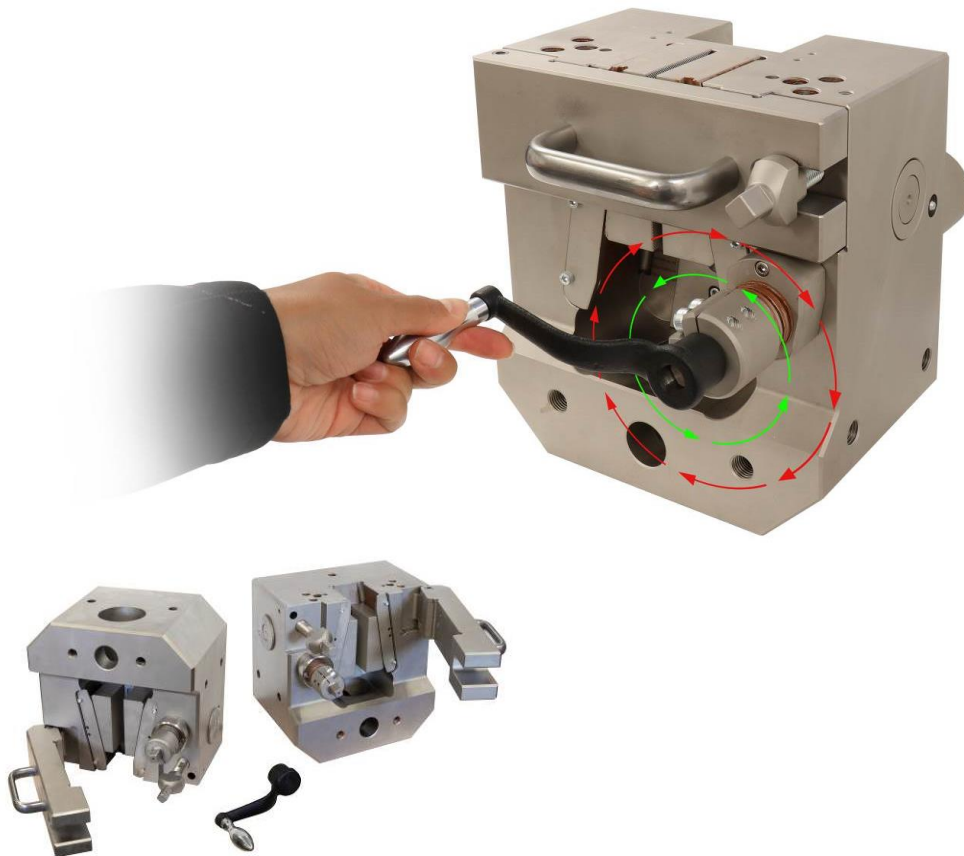
<https://youtu.be/4dc4QVeKYx4>

Copper tube 19x1

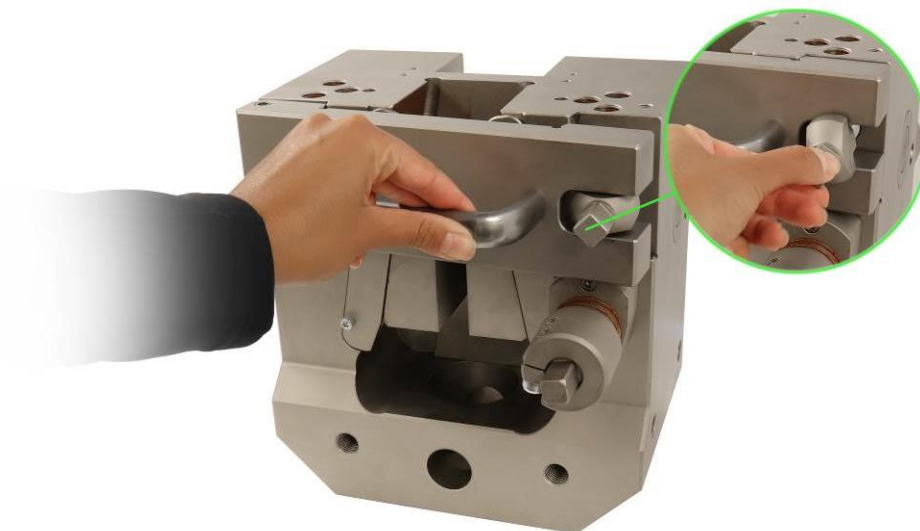
[https://youtu.be/InOTd1\\_-sVA](https://youtu.be/InOTd1_-sVA)

How to remove a specimen

**Closing and opening the jaws with a crank:**



**Securing the lateral door with a locking screw:**



**Examples for customized solutions:**



TH109-250k short version



TH109-300 with a special adapter for temperature chambers