

# Scissor grips 2, 5, 20 and 50 kN

Self-tightening and self-aligning grips

The initial grip is provided by spring tension. The ratio of clamping force to tensile force changes according to the opening width. The larger the opening width the stronger the grips tightens the specimen. The jaws tighten themselves during force application.

**Ordering information**

TH11 grips are supplied as a pair, but can also be ordered separately (0.5 pair). Grips and jaws need to be ordered separately.

## TH11-5 Scissor grips

<b>Item no.:</b>	TH11-5
<b>Tensile force:</b>	5 kN
<b>Coupling:</b>	Af159 or Af20
<b>Opening:</b>	0 - 19 mm
<b>Sample width:</b>	50 mm
<b>Body:</b>	Stainless steel
<b>Temperature range:</b>	-70 up to +130°C Other temperature ranges on request
<b>Weight:</b>	980 gram each grip (without jaws)



**Jaws for TH11-5**

Item number	Surface	Clamping surface H x W	Weight per pair
TH11-5-B	Blank (smooth) jaws	20x50 mm	0.24 kg
TH11-5-BP	Pyramid (serrated) jaws	20x50 mm	0.24 kg

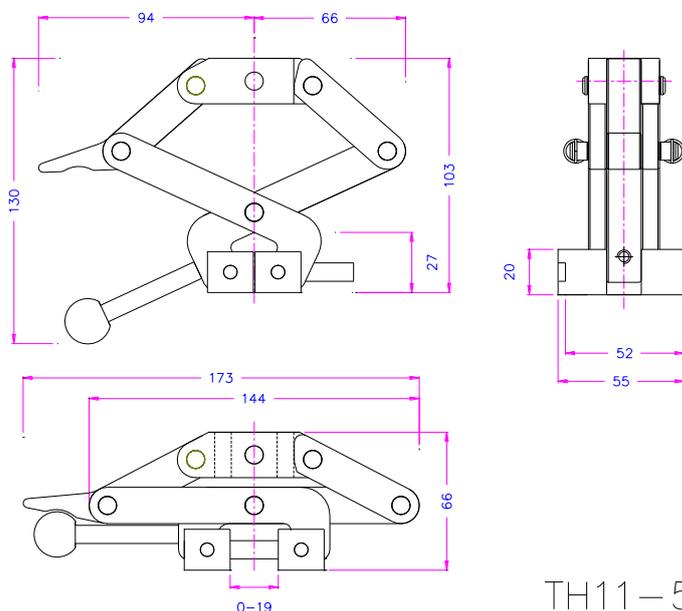
Other surfaces on request



Blank jaws (smooth)  
- Suitable for own further treatments  
- Steel blanks without coating



BP -multi-purpose application range  
- Pyramid (serrated) jaws 1.2x45°  
- Hardened steel 58HRC, nickel plated



TH11-5



TH11-5 grips have a locking function to facilitate insertion or removal of the specimen:

<https://youtu.be/N5FMG9BC8sQ>

<https://youtu.be/Ya2ajWsq-0o>

## TH11-20 Scissor grips

With locking function (snap in): the grip locks in the opened position.  
(Not by use of round jaws)

**Item no.:** TH11-20  
**Tensile force:** 20 kN  
**Coupling:** Af159 or Af20  
**Opening:** Flat jaws 0 – 25 mm  
 Round jaws 0 – 20 mm  
 V-jaws for round specimen: 4 – 16 mm Ø  
**Sample width:** 50 mm and 100 mm  
**Body:** Stainless steel  
**Temperature range:** -70 up to +130°C  
 Other temperature ranges on request  
**Weight:** 2 kg each grip (without jaws)



TH11-20 with TH11-20-BW100 jaws

### Jaws for TH11-20

Item number	Surface	Clamping surface H x W	Weight per pair
TH11-20-B	Blank (smooth) jaws	25x50 mm	0.34 kg
TH11-20-BP	Pyramid (serrated) flat jaws	25x50 mm	0.33 kg
TH11-20-BR*	Pyramid (serrated) round jaws	Ø 25 mm x 50 mm	0.31 kg
TH11-20-BV	V-jaws for round specimen	Samples 4-15 mm Ø	0.45 kg
TH11-20-BW	Wave jaws	25x50 mm	0.32 kg
TH11-20-B100**	Blank (smooth) jaws	25x 100 mm	0.74 kg
TH11-20-BP100**	Pyramid (serrated) flat jaws	25x100 mm	0.72 kg
TH11-20-BW100**	Wave jaws	25x100 mm	0.69 kg

Other surfaces on request

\*Round jaws are applicable for dumbbell-shaped specimen (bone shaped samples).  
 \*\*By use of 100 mm width jaws tensile force is reduced to 10kN.



**B - Blank (smooth) jaws**  
 - Suitable for own further treatments  
 - Steel blanks without coating



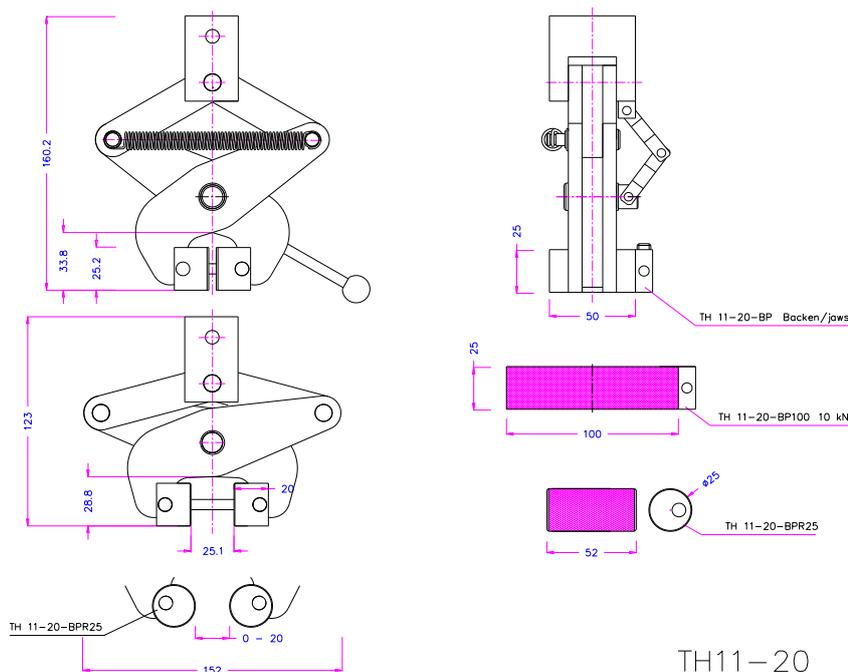
**BP - Multi purpose application range**  
 - Pyramid (serrated) jaws 1.2x45°  
 - Hardened steel 58HRC, nickel plated



**BV-jaws- for all kinds of round samples**  
 - Tooth pitch 1.2 mm  
 - Hardened steel 58 HRC, nickel plated



**BW Wave jaws - For textile specimen**  
 - Wave 5 mm  
 - Hardened steel 58 HRC, nickel plated



TH11-20



TH11-20 with TH11-20-BR jaws

## TH11-50 Scissor grips

With locking function (snap in): the grip locks in the opened position.

<b>Item No.:</b>	TH11-50
<b>Tensile force:</b>	50 kN
<b>Coupling:</b>	Af318
<b>Opening:</b>	Flat jaws 0 – 48 mm V-jaws for round specimen: 10 - 48 mm Ø
<b>Sample width:</b>	100 mm
<b>Body:</b>	Steel, manganese phosphate coating
<b>Temperature range:</b>	0 up to +130°C Other temperature ranges on request
<b>Weight:</b>	9.1 kg each grip (without jaws)

### Jaws for TH11-50

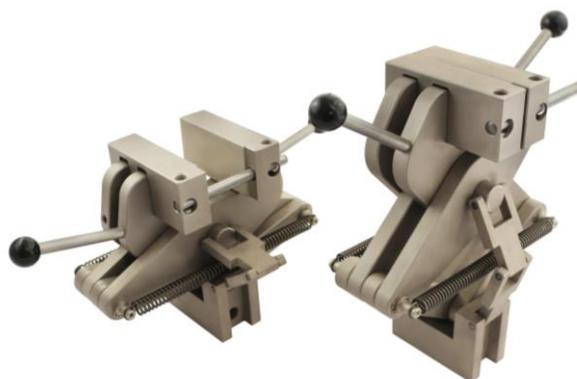
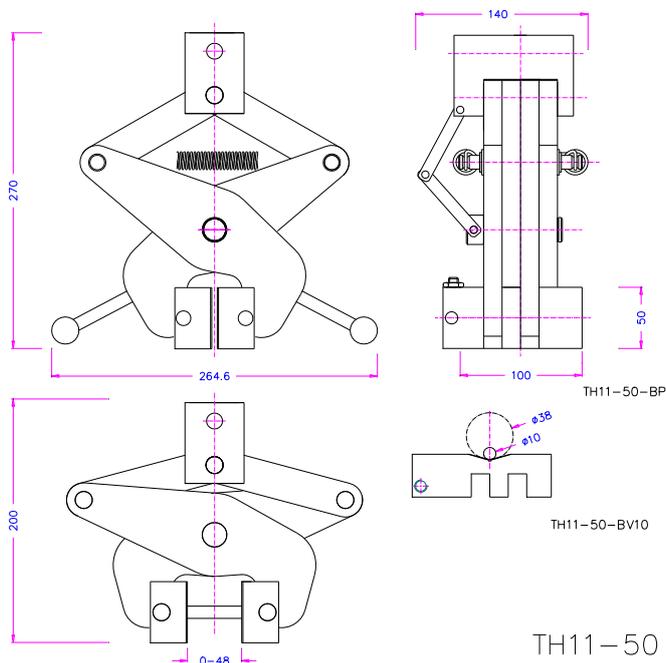
Item number	Surface	Clamping surface H x B	Weight per pair
TH11-50-BP	Pyramid (serrated) jaws	50x100 mm	1.9 kg
TH11-50-BV	V-jaws	Samples 10-48 mm Ø	2.0 kg
Other surfaces on request			



BP Pyramid jaws  
- Pyramid (serrated) jaws 1.2x45°  
- Hardened steel 58 HRC, nickel plated



BV-jaws- for all kinds of round samples  
- Tooth pitch 1.2 mm  
- Hardened steel 58 HRC, nickel plated



TH11-50 with TH11-50-BP jaws

### Test videos:

Felt sample:

<https://youtu.be/1hCdznCmzG8>

Felt sample, double layer:

<https://youtu.be/OvizCjGV-YI>

Jaws for TH11-20



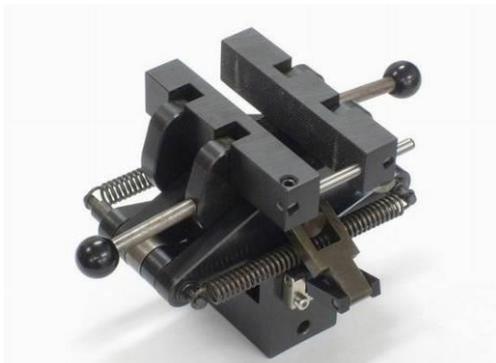
TH11-20+BP + BR + BV + BW



BR BV BW BP BD

BW100 BP100 BD100

Special versions



TH11-30+BP



TH11-75-Am70 + BP



TH11-50-BN3x4  
Special needle jaws



See also [TH230 Datasheet.pdf](#) small version

Tensile force 2 kN [www.grip.de/G05](http://www.grip.de/G05)