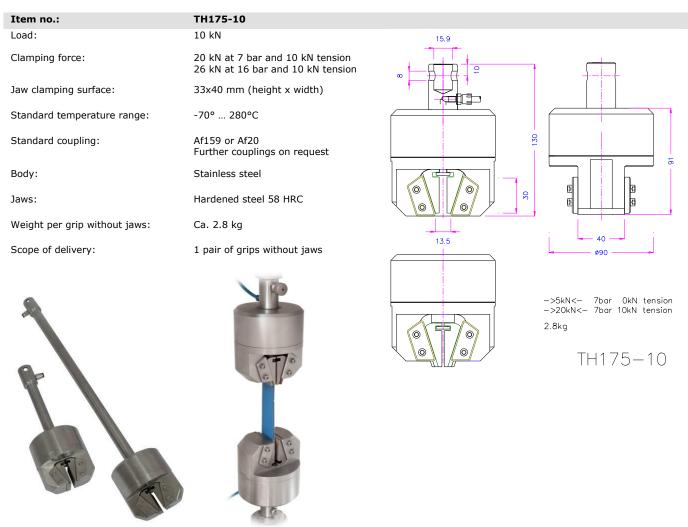
Pneumatic Wedge Grips 10, 20, 50, 100 and 300 kN

- Self-aligning centric jaw movement
- · Self-intensifying clamping system to hold a sample securely in place, very high clamping load
- · Ideal for complicated samples with low coefficient of friction such as hard steel foils, Plastic or rubber with fibers etc.
- Can be supplied with pull rods of different length for use in temperature chambers*



TH175-10

Jaws for TH175-10

Item-No.	Surface	Opening	Clamping surface (hxw)	Weight per pair		
Pyramid (serrated) jaws for flat samples:						
TH175-10-BP6	Pyramid (serrated)	0-6 mm	33x40 mm	0.3 kg		
TH175-10-BP12	Pyramid (serrated)	6-12 mm	33x40 mm	0.2 kg		
TH175-10-BP16	Pyramid (serrated)	10-16 mm	33x40 mm	0.2 kg	Pyramids 1x45°	
V jaws for round samples:						
TH175-10-BV6	V jaws	2-6 mm	Clamping height 33 mm	0.3 kg		
TH175-10-BV12	V jaws	6-12 mm	Clamping height 33 mm	0.2 kg		

Scope of delivery: 1 set = 4 jaws.

Jaws with other surface coatings and openings are possible on request

^{*}Pull rods of different lengths are available on request (not included in price). Item no.: THS521.

Item no.: TH175-20

20 kN Load:

Clamping force: 43 kN at 7 bar and 20 kN load

Jaw clamping surface: 50x60 mm (height x width)

0° ... +180°C Standard temperature range:

Further ranges on request

Standard coupling: Af159 or Af20

Further couplings on request

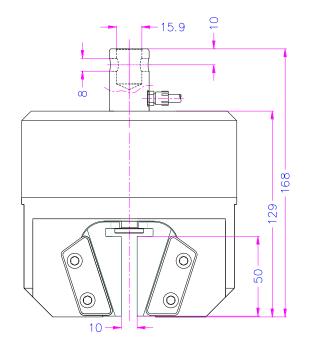
Body: Steel, nickel-plated

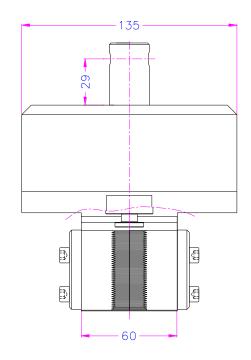
Hardened steel 58HRC Jaws:

Ca. 8.9 kg Weight per grip without jaws:

Scope of delivery: 1 pair of grips without jaws







Jaws for TH175-20

Item-No.	Surface	Clamping surface (hxw)	Opening	Weight per pair	
TH175-20-BP8	Pyramid (serrated)	50x60 mm	0-8 mm	1 kg	
TH175-20-BP14	Pyramid (serrated)	50x60 mm	5-14 mm	0.9 kg	
TH175-20-BP20	Pyramid (serrated)	50x60 mm	12-20 mm	0.8 kg	Pyramids 1x45°
TH175-20-BV8	V-jaws for round samples	Clamping height 50 mm	3-8 mm	1 kg	
TH175-20-BV14	V-jaws for round samples	Clamping height 50 mm	8-14 mm	0.9 kg	1
TH175-20-BV20	V-jaws for round samples	Clamping height 50 mm	13-20 mm	0.8 kg	V-jaws

 Item no.:
 TH175-50

 Load:
 50 kN

Clamping force: 103 kN at 7 bar and 50 kN load Jaw clamping surface: 67x60 mm (height x width)

Standard temperature range: -30° ... +180°C

Further ranges on request

Standard coupling: Af318

Further couplings on request

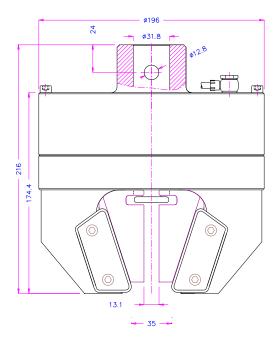
Body: Steel, nickel-plated

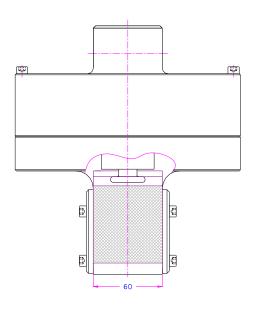
Jaws: Hardened steel 58 HRC

Weight per grip without jaws: Ca. 20.5 kg

Scope of delivery: 1 pair of grips without jaws







Jaws for TH175-50

Jaws 101 111175-30					
Item-No.	Surface	Clamping surface (hxw)	Opening	Weight per pair	
TH175-50-BP12	Pyramid (serrated)	67x60 mm	0-12 mm	2.2 kg	
TH175-50-BP22	Pyramid (serrated)	67x60 mm	10-22 mm	1.9 kg	
TH175-50-BP32	Pyramid (serrated)	67x60 mm	20-32 mm	1.5 kg	Pyramids
TH175-50-BP42+SG+RN48*	Pyramid (serrated)	67x60 mm	30-42 mm	1.4 kg	1x45°
TH175-50-BV12	V-jaws for round samples	Clamping height 67 mm	5-12 mm	2.2 kg	
TH175-50-BV22	V-jaws for round samples	Clamping height 67 mm	12-22 mm	1.9 kg	1
TH175-50-BV32	V-jaws for round samples	Clamping height 67 mm	22-32 mm	1.5 kg	
TH175-50-BV42+SG+RN48*	V-jaws for round samples	Clamping height 67 mm	32-42 mm	1.4 kg	V-jaws

^{*}supplied with special guides and retracting nose (included in the price)

Scope of delivery: 1 set = 4 jaws

 $\ensuremath{\mathsf{Jaws}}$ with other surface coatings and openings are possible on request

See <u>test video</u>

Testing of composite specimen



Item no.: TH175-100

Load: 100 kN

Clamping force: 210 kN (7 bar 100 kN) 274 kN (15 bar 100 kN)

Jaw clamping surface: 67x100 mm (height x width)

Standard temperature range: -30° ... +180°C

Further ranges on request

Standard coupling: Af40

Further couplings on request

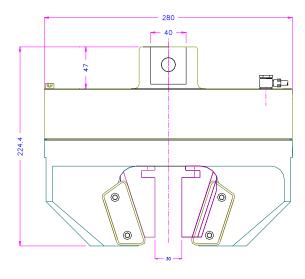
Body: Steel, nickel-plated

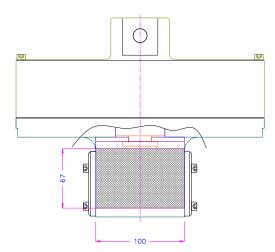
Jaws: Hardened steel 58 HRC

Weight per grip without jaws: 42 kg

Scope of delivery: 1 pair of grips without jaws







Jaws for TH175-100

I	tem-No.	Surface	Clamping surface (hxw)	Opening	Weight per pair
Т	H175-100-BP12	Pyramid (serrated)	67x100 mm	0-12 mm	3.8 kg
Т	H175-100-BP22	Pyramid (serrated)	67x100 mm	10-22 mm	3.3 kg
Т	H175-100-BP32	Pyramid (serrated)	67x100 mm	20-32 mm	2.7 kg
Т	H175-100-BV13	V-jaws for round samples	Clamping height 67 mm	4-13 mm	3.7 kg
Т	H175-100-BV22	V-jaws for round samples	Clamping height 67 mm	13-22 mm	3.2 kg
Т	H175-100-BV32	V-jaws for round samples	Clamping height 67 mm	22-32 mm	2.9 kg



Pyramids 1x45°

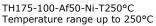


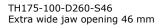
Scope of delivery: 1 set = 4 jaws

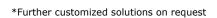
Jaws with other surface coatings and openings are possible on request

Examples for customized solutions*:









Item no.: TH175-300

Load: 300 kN

517 kN at 7 bar and 300 kN load Clamping force:

Jaw clamping surface: 84x120 mm (height x width)

Standard temperature range: -30° ... +180°C

Further ranges on request

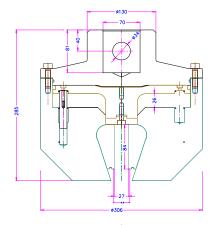
Body: Steel, nickel-plated

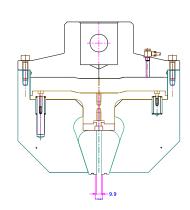
Hardened steel 58 HRC Jaws:

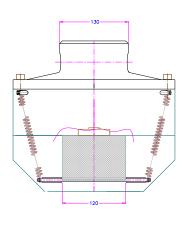
Weight per grip without jaws: Ca. 100 kg

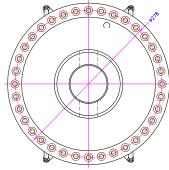
Scope of delivery: 1 pair of grips without jaws

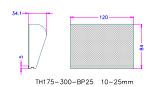














Jaws for TH175-300

	**** *** *****					
Item-No.	Surface	Clamping surface (hxw)	Opening	Weight per pair		
TH175-300-B25	Blank jaws	84x120 mm	10-25 mm	Ca. 3.9 kg		
TH175-300-BP25	Pyramid (serrated) jaws	84x120 mm	10-25 mm	Ca. 3.9 kg		
TH175-300-BW25	Wave jaws	84x120 mm	10-25 mm	Ca. 3.8 kg		
TH175-300-BD25	Diamond jaws	84x120 mm	10-25 mm	Ca. 3.9 kg		
TH175-300-BV15	V-jaws for round samples	Clamping height 84 mm	5-15 mm	Ca. 4.4 kg		

Scope of delivery: 1 set = 4 jaws
Jaws with other surface coatings and openings are possible on request

Jaw surfaces:











Blank jaws

Pyramids 1x45°

Diamond jaws

V-jaws

Accessories:



TH205-1 Foot pedals

None-locking: The grip jaws open by pressing the foot pedal and close after removing the foot from

Scope of delivery: 1 pair of foot switches including tubes and fittings



TH205-2 Foot pedals

 $\underline{\text{With locking function}}\text{: The grip jaws open by pressing the foot pedal and remain opened after}$ removing the foot from the pedal. The jaws close by pressing the pedal one more time.

Scope of delivery: 1 pair of foot switches including tubes and fittings



TH205-PR16 Pressure regulator

Optional for TH205-1 or TH205-2 To adjust air pressure: 1-16 bar



TH205-3 Hand switches

<u>With locking function:</u> The jaws of the grip close by pulling the handle and remain closed. The jaws open by pushing the handle back.

Scope of delivery: 1 unit of hand switches including tubes and fittings



TH216 Silent compressor for laboratories, oil-lubricated, with pressure reducer

Max pressure 16 bar; 230 V/50 HZ; noise level: 38 dB(A) Motor: 0.13 kW; displacement: 17 l/min; tank size 3.5 l Dimensions: 340x290x340 mm (L x W x H); weight 18 kg

See also our homepage:

www.grip.de/G12/TH175/

www.grip.de/G12 - further pneumatic grips