**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
- 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*

<table>
<thead>
<tr>
<th>Item no.:</th>
<th>TH175-10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Load:</td>
<td>10 kN</td>
</tr>
<tr>
<td>Clamping force:</td>
<td>20 kN at 7 bar and 10 kN load</td>
</tr>
<tr>
<td>Jaw clamping surface:</td>
<td>30x40 mm (height x width)</td>
</tr>
<tr>
<td>Standard temperature range:</td>
<td>-70° ... 280°C</td>
</tr>
<tr>
<td>Standard coupling:</td>
<td>A1159 or A120</td>
</tr>
<tr>
<td>Body:</td>
<td>Stainless steel</td>
</tr>
<tr>
<td>Jaws:</td>
<td>Hardened steel 58HRC</td>
</tr>
<tr>
<td>Weight per grip without jaws:</td>
<td>Ca. 2.8 kg</td>
</tr>
<tr>
<td>Scope of delivery:</td>
<td>1 grip without jaws</td>
</tr>
</tbody>
</table>

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

**Jaws for TH175-10**

<table>
<thead>
<tr>
<th>Item-No.</th>
<th>Surface</th>
<th>Opening</th>
<th>Clamping surface (hxw)</th>
<th>Weight per pair</th>
</tr>
</thead>
<tbody>
<tr>
<td>TH175-10-BP6</td>
<td>Pyramid (serrated)</td>
<td>0-6 mm</td>
<td>30x40 mm</td>
<td>0.3 kg</td>
</tr>
<tr>
<td>TH175-10-BP12</td>
<td>Pyramid (serrated)</td>
<td>6-12 mm</td>
<td>30x40 mm</td>
<td>0.2 kg</td>
</tr>
<tr>
<td>TH175-10-BP16</td>
<td>Pyramid (serrated)</td>
<td>10-16 mm</td>
<td>30x40 mm</td>
<td>0.2 kg</td>
</tr>
</tbody>
</table>

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

**Examples for customized solutions**:  
- Extra wide pyramid jaws
- Diamond jaws – covered with synthetic diamonds
- V-jaws for round samples

**Further customized solutions on request**
Item no.: **TH175-20**

- **Load:** 20 kN
- **Clamping force:** 43 kN at 7 bar and 20 kN load
- **Jaw clamping surface:** 50x60 mm (height x width)
- **Standard temperature range:** 0° ... +70°C
- **Standard coupling:** Af159 or Af20
- **Body:** Steel
- **Jaws:** Hardened steel 58HRC
- **Weight per grip without jaws:** Ca. 8.9 kg
- **Scope of delivery:** 1 grip without jaws

### Jaws for TH175-20

<table>
<thead>
<tr>
<th>Item-No.</th>
<th>Surface</th>
<th>Clamping surface (hxw)</th>
<th>Opening</th>
<th>Weight per pair</th>
</tr>
</thead>
<tbody>
<tr>
<td>TH175-20-BP8</td>
<td>Pyramid (serrated)</td>
<td>50x60 mm</td>
<td>0-8 mm</td>
<td>1 kg</td>
</tr>
<tr>
<td>TH175-20-BP14</td>
<td>Pyramid (serrated)</td>
<td>50x60 mm</td>
<td>5-14 mm</td>
<td>0.9 kg</td>
</tr>
<tr>
<td>TH175-20-BP20</td>
<td>Pyramid (serrated)</td>
<td>50x60 mm</td>
<td>12-20 mm</td>
<td>0.8 kg</td>
</tr>
<tr>
<td>TH175-20-BV8</td>
<td>V-jaws for round samples</td>
<td>50x60 mm</td>
<td>3-8 mm</td>
<td>1 kg</td>
</tr>
<tr>
<td>TH175-20-BV15</td>
<td>V-jaws for round samples</td>
<td>50x60 mm</td>
<td>8-15 mm</td>
<td>0.9 kg</td>
</tr>
<tr>
<td>TH175-20-BV20</td>
<td>V-jaws for round samples</td>
<td>50x60 mm</td>
<td>13-20 mm</td>
<td>0.8 kg</td>
</tr>
</tbody>
</table>

Scope of delivery: 1 set = 4 jaws

Jaws with other surface coatings and openings are possible on request.

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All specifications subject to change without prior notice
**TH175**

**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:** 0° ... +70°C

**Further ranges on request**

**Standard coupling:** AF318

**Further couplings on request**

**Body:** Steel

**Jaws:** Hardened steel 58HRC

**Weight per grip without jaws:** Ca. 20.5 kg

**Scope of delivery:** 1 grip without jaws

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### Jaws for TH175-50

<table>
<thead>
<tr>
<th>Item-No.</th>
<th>Surface</th>
<th>Clamping surface (hxw)</th>
<th>Opening</th>
<th>Weight per pair</th>
</tr>
</thead>
<tbody>
<tr>
<td>TH175-50-BP12</td>
<td>Pyramid (serrated)</td>
<td>67x60 mm</td>
<td>0-12 mm</td>
<td>2.2 kg</td>
</tr>
<tr>
<td>TH175-50-BP22</td>
<td>Pyramid (serrated)</td>
<td>67x60 mm</td>
<td>10-22 mm</td>
<td>1.9 kg</td>
</tr>
<tr>
<td>TH175-50-BP32</td>
<td>Pyramid (serrated)</td>
<td>67x60 mm</td>
<td>20-32 mm</td>
<td>1.5 kg</td>
</tr>
<tr>
<td>TH175-50-BP42+SG+RN48*</td>
<td>Pyramid (serrated)</td>
<td>67x60 mm</td>
<td>30-42 mm</td>
<td>1.4 kg</td>
</tr>
<tr>
<td>TH175-50-BV12</td>
<td>V-jaws for round samples</td>
<td>67x60 mm</td>
<td>5-12 mm</td>
<td>2.2 kg</td>
</tr>
<tr>
<td>TH175-50-BV22</td>
<td>V-jaws for round samples</td>
<td>67x60 mm</td>
<td>12-22 mm</td>
<td>1.9 kg</td>
</tr>
<tr>
<td>TH175-50-BV32</td>
<td>V-jaws for round samples</td>
<td>67x60 mm</td>
<td>22-32 mm</td>
<td>1.5 kg</td>
</tr>
<tr>
<td>TH175-50-BV42+SG+RN48*</td>
<td>V-jaws for round samples</td>
<td>67x60 mm</td>
<td>32-42 mm</td>
<td>1.4 kg</td>
</tr>
</tbody>
</table>

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

**Scope of delivery:** 1 set = 4 jaws

Jaws with other surface coatings and openings are possible on request
Item no.: TH175-100

Load: 100 kN
Clamping force: 210 kN at 7 bar and 100 kN load
Jaw clamping surface: 67x100 mm (height x width)
Standard temperature range: 0° ... +70°C
Further ranges on request
Standard coupling: AF40
Further couplings on request
Body: Steel
Jaws: Hardened steel 58HRC
Weight per grip without jaws: Ca. 42 kg
Scope of delivery: 1 grip without jaws

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

Examples for customized solutions*:

TH175-100-AF50-Ni-T250°C
Temperature range up to 250°C
TH175-100-D260-S46
Extra wide jaw opening 46 mm

*Further customized solutions on request
Item no.: TH175-300
Load: 300 kN
Clamping force: 517 kN at 7 bar and 300 kN load
Jaw clamping surface: 84x120 mm (height x width)
Standard temperature range: 0° ... +70°C
Further ranges on request
Body: Nickel-plated steel 1.2711
Jaws: Hardened steel 58HRC
Weight per grip without jaws: Ca. 100 kg
Scope of delivery: 1 grip without jaws

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

Jaws surfaces:
- Blank jaws
- Pyramids 1x45°
- Wave jaws
- Diamond jaws
- V-jaws

100 kg 1.4 kg
Accessories:

TH205-1  Foot pedals
None-locking: The grip jaws open by pressing the foot pedal and close after removing the foot from the pedal.
Scope of delivery: 1 pair of foot switches including tubes and fittings

TH205-2  Foot pedals
With locking function: 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
With locking function: 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