PNEUMATIC GRIPS, 1 kN and 2 kN

**Item no.: TH229**

- **Clamping force:** 1 kN at 7 bar
- **Body:** Aluminium, anodized
- **Temperature range:** 0°C ... +70°C (depending on jaws). Further temperature ranges on request
- **Pneumatic piston:** 20 mm Ø
- **Pneumatic connection:** Internal thread M5
- **Weight:** 0,26 kg per grip without jaws
- **Scope of delivery:** 1 pair without jaws

**Item no.: TH229+Ko30**

- **Clamping force:** 2 kN at 7 bar
- **Body:** Aluminium, anodized
- **Temperature range:** 0°C ... +70°C (depending on jaws). Further temperature ranges on request
- **Pneumatic piston:** 30 mm Ø
- **Pneumatic connection:** Internal thread M5
- **Weight:** 0,4 kg per grip without jaws
- **Scope of delivery:** 1 pair without jaws
### Jaws for TH229: Scope of delivery 1 set = 4 jaws

<table>
<thead>
<tr>
<th>Item number</th>
<th>Surface</th>
<th>Clamping surface H x W</th>
<th>Opening</th>
<th>Weight per pair</th>
</tr>
</thead>
<tbody>
<tr>
<td>TH229-B25</td>
<td>Blank jaws</td>
<td>10 x 25 mm</td>
<td>0 – 8 mm*</td>
<td>18 gram</td>
</tr>
<tr>
<td>TH229-BG25</td>
<td>Rubber jaws</td>
<td>10 x 25 mm</td>
<td>0 – 6 mm</td>
<td>19 gram</td>
</tr>
<tr>
<td>TH229-BP25</td>
<td>Pyramid jaws</td>
<td>10 x 25 mm</td>
<td>0 – 8 mm*</td>
<td>17 gram</td>
</tr>
<tr>
<td>TH229-BW25x25</td>
<td>Wave jaws</td>
<td>25 x 25 mm</td>
<td>0 – 6 mm</td>
<td>48 gram</td>
</tr>
<tr>
<td>TH229-BD25</td>
<td>Diamond jaws</td>
<td>10 x 25 mm</td>
<td>0 – 8 mm*</td>
<td>18 gram</td>
</tr>
<tr>
<td>TH229-B50</td>
<td>Blank jaws</td>
<td>10 x 50 mm</td>
<td>0 – 6 mm</td>
<td>46 gram</td>
</tr>
<tr>
<td>TH229-BG50</td>
<td>Rubber jaws</td>
<td>10 x 50 mm</td>
<td>0 – 4 mm</td>
<td>48 gram</td>
</tr>
<tr>
<td>TH229-BP50</td>
<td>Pyramid jaws</td>
<td>10 x 50 mm</td>
<td>0 – 6 mm</td>
<td>43 gram</td>
</tr>
<tr>
<td>TH229-BW25x50</td>
<td>Wave jaws</td>
<td>25 x 50 mm</td>
<td>0 – 6 mm</td>
<td>100 gram</td>
</tr>
<tr>
<td>TH229-BD50</td>
<td>Diamond jaws</td>
<td>10 x 50 mm</td>
<td>0 – 6 mm</td>
<td>46 gram</td>
</tr>
<tr>
<td>TH229-B100</td>
<td>Blank jaws</td>
<td>10 x 100 mm</td>
<td>0 – 6 mm</td>
<td>92 gram</td>
</tr>
<tr>
<td>TH229-BG100</td>
<td>Rubber jaws</td>
<td>10 x 100 mm</td>
<td>0 – 4 mm</td>
<td>95 gram</td>
</tr>
<tr>
<td>TH229-BP100</td>
<td>Pyramid jaws</td>
<td>10 x 100 mm</td>
<td>0 – 6 mm</td>
<td>86 gram</td>
</tr>
<tr>
<td>TH229-BD100</td>
<td>Diamond jaws</td>
<td>10 x 100 mm</td>
<td>0 – 6 mm</td>
<td>92 gram</td>
</tr>
</tbody>
</table>

*Special pins to change the opening to 2 – 10 mm are included in price of the grips. Grip reassemble is necessary to change the pins.

Jaws with other dimensions and surfaces on request:

- **Blank jaws**
  - Applicable for own further treatment
  - Steel blanks without coating
- **Rubber jaws**
  - 1mm rubber coating (NBR)
  - Nickel plated
- **Pyramid jaws**
  - Pyramids 0.8x45°
  - Hardened steel 58 HRC
  - Nickel plated
- **Wave jaws**
  - For flexible materials
  - Wave 5 mm
  - Hardened steel 58 HRC
  - Nickel plated
- **Diamond jaws**
  - Clamping surface coated with synthetic diamonds
  - Nickel plated

### Examples for other versions and custom-built solutions:

- TH229-BW25 25x25 mm
- TH229-BLC-R5 - Radius 5 mm
Pneumatic accessories:

TH205-1  Foot pedals
None locking: The jaws of the grip 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 jaws of the grip 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-PR 16bar  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

TH205-4-M5  Pneumatic micro hand switches
Pneumatic micro hand switches with M5 connection, tubes and fittings
With locking function (see TH205-3)
The hand switches are directly mounted at the grips. 3/2 directional valve
Scope of supply: 2 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
www.grip.de/G12
www.grip.de/G12/TH229
www.grip.de/G06/TH227 (TH229 and TH227 use the same jaws)