**TH232 Pneumatic grip**

Clamping force: 16 kN / 7 bar (32 kN / 16 bar)

Adjustable jaw opening: 0-10 mm, 10-20 mm, 20-30 mm

Coupling: AF159 (5/8"). Further couplings on request

Pneumatic connection: inner thread 1/8"

Body: anodized aluminum

Standard temperature range: 0 °C ... +70°C

Further temperature ranges on request

Weight: 4.5 kg each grip without jaws

Scope of delivery: 1 pair of grips

The jaw opening can be adjusted by using rods of different lengths:
Jaws for TH232: Scope of delivery: 1 Set = 4 jaws

TH232-B Blank (smooth) jaws
- Suitable for own further treatments
- Steel-blanks without coating

TH232-BG Rubber coated jaws
- 1 mm rubber coating (NBR)
- Nickel-plated

TH232-BP Pyramid jaws (serrated)
- Pyramids 1.2x45
- Hardened steel 58HRC
- Nickel-plated*

TH232-BV V-jaws
- For all kinds of round samples
- Tooth pitch 1.2 mm
- Hardened steel 58HRC
- Nickel-plated

TH232-BW Wave jaws (corrugated)
- For flexible materials
- Wave 5 mm
- Hardened steel 58HRC
- Nickel-plated

TH232-BD Diamond coated jaws
- Clamping surface coated with synthetic diamonds D91 (170/200 mesh)
- Nickel-plated

<table>
<thead>
<tr>
<th>Item number</th>
<th>Surface</th>
<th>Clamping surface H x W</th>
<th>Opening*</th>
<th>Weight 1 pair</th>
</tr>
</thead>
<tbody>
<tr>
<td>TH232-B</td>
<td>Blank jaws</td>
<td>40 x 60 mm</td>
<td>0–10 mm</td>
<td>0.35 kg</td>
</tr>
<tr>
<td>TH232-BG</td>
<td>Rubber-coated jaws</td>
<td>40 x 60 mm</td>
<td>0–10 mm</td>
<td>0.36 kg</td>
</tr>
<tr>
<td>TH232-BP</td>
<td>Pyramid jaws</td>
<td>40 x 60 mm</td>
<td>0–10 mm</td>
<td>0.33 kg</td>
</tr>
<tr>
<td>TH232-BV4</td>
<td>V-jaws</td>
<td>40 x 60 mm</td>
<td>4–10 mm Ø</td>
<td>0.35 kg</td>
</tr>
<tr>
<td>TH232-BV6</td>
<td>V-jaws</td>
<td>40 x 60 mm</td>
<td>6–10 mm Ø</td>
<td>0.35 kg</td>
</tr>
<tr>
<td>TH232-BW</td>
<td>Wave jaws</td>
<td>40 x 60 mm</td>
<td>0–10 mm</td>
<td>0.40 kg</td>
</tr>
<tr>
<td>TH232-BD</td>
<td>Diamond-coated jaws</td>
<td>40 x 60 mm</td>
<td>0–10 mm</td>
<td>0.35 kg</td>
</tr>
<tr>
<td>TH232-B100</td>
<td>Blank jaws</td>
<td>40 x 100 mm</td>
<td>0–10 mm</td>
<td>0.72 kg</td>
</tr>
<tr>
<td>TH232-BG100</td>
<td>Rubber-coated jaws</td>
<td>40 x 100 mm</td>
<td>0–10 mm</td>
<td>0.74 kg</td>
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<tr>
<td>TH232-BP100</td>
<td>Pyramid jaws</td>
<td>40 x 100 mm</td>
<td>0–10 mm</td>
<td>0.69 kg</td>
</tr>
<tr>
<td>TH232-BW100</td>
<td>Wave jaws</td>
<td>40 x 100 mm</td>
<td>0–10 mm</td>
<td>0.66 kg</td>
</tr>
<tr>
<td>TH232-BD100</td>
<td>Diamond-coated jaws</td>
<td>40 x 100 mm</td>
<td>0–10 mm</td>
<td>0.72 kg</td>
</tr>
<tr>
<td>TH232-BP200</td>
<td>Pyramid jaws</td>
<td>60 x 200 mm</td>
<td>0–10 mm</td>
<td>3.00 kg</td>
</tr>
<tr>
<td>TH232-BG200</td>
<td>Rubber-coated jaws</td>
<td>60 x 200 mm</td>
<td>0–10 mm</td>
<td>3.06 kg</td>
</tr>
<tr>
<td>TH232-BW200</td>
<td>Wave jaws</td>
<td>60 x 200 mm</td>
<td>0–10 mm</td>
<td>3.00 kg</td>
</tr>
</tbody>
</table>

*Rods for openings 10-20 mm and 20-30 mm are included in the scope of delivery of the grips

Insert jaws for TH232:
Jaw quick-change system. Insert jaws require a carrier (TH232-GT)

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 1 pair</th>
</tr>
</thead>
<tbody>
<tr>
<td>TH232-GT</td>
<td>Carrier</td>
<td>-</td>
<td>-</td>
<td>0.33 kg</td>
</tr>
<tr>
<td>TH232-EB</td>
<td>Blank insert jaws</td>
<td>50 x 60 mm</td>
<td>0–9 mm</td>
<td>0.29 kg</td>
</tr>
<tr>
<td>TH232-EBG</td>
<td>Rubber coated insert jaws</td>
<td>50 x 60 mm</td>
<td>0–9 mm</td>
<td>0.30 kg</td>
</tr>
<tr>
<td>TH232-EBP</td>
<td>Pyramid insert jaws</td>
<td>50 x 60 mm</td>
<td>0–9 mm</td>
<td>0.28 kg</td>
</tr>
<tr>
<td>TH232-EBW</td>
<td>Wave insert jaws</td>
<td>50 x 60 mm</td>
<td>0–9 mm</td>
<td>0.26 kg</td>
</tr>
<tr>
<td>TH232-EBD</td>
<td>Diamond coated insert jaws</td>
<td>50 x 60 mm</td>
<td>0–9 mm</td>
<td>0.29 kg</td>
</tr>
<tr>
<td>TH232-GT100</td>
<td>Carrier</td>
<td>-</td>
<td>-</td>
<td>0.69 kg</td>
</tr>
<tr>
<td>TH232-EB100</td>
<td>Blank insert jaws</td>
<td>50 x 100 mm</td>
<td>0–9 mm</td>
<td>0.63 kg</td>
</tr>
<tr>
<td>TH232-EB100</td>
<td>Rubber coated insert jaws</td>
<td>50 x 100 mm</td>
<td>0–9 mm</td>
<td>0.65 kg</td>
</tr>
<tr>
<td>TH232-EB100</td>
<td>Pyramid insert jaws</td>
<td>50 x 100 mm</td>
<td>0–9 mm</td>
<td>0.60 kg</td>
</tr>
<tr>
<td>TH232-EB200</td>
<td>Wave insert jaws</td>
<td>50 x 100 mm</td>
<td>0–9 mm</td>
<td>0.57 kg</td>
</tr>
<tr>
<td>TH232-EBD100</td>
<td>Diamond coated insert jaws</td>
<td>50 x 100 mm</td>
<td>0–9 mm</td>
<td>0.63 kg</td>
</tr>
</tbody>
</table>

*On request: opening 9–19 mm
Jaws with other dimensions and surface coatings on request
**TH232+2Ko**

Pneumatic grip with 2 rods

Clamping force: 16 kN /7 bar (32 kN /16 bar)

Adjustable jaw opening: 0-14 mm, 10-24 mm, 20-34 mm

Coupling: Af159 (5/8"). Further couplings on request

Pneumatic connection: inner thread 1/8"

Body: anodized aluminum

Standard temperature range: 0 °C ... +70°C

Further temperature ranges on request

Weight: 5.18 kg each grip without jaws

Scope of delivery: 1 pair of grips
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-PR16bar 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

**TH205-4-1/8” Micro hand switches**
Pneumatic micro hand switches with 1/8” 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 test videos

www.grip.de/G12/TH232
http://youtu.be/cCtC0Gd1ZAs + wave jaws textile 2 bar
http://youtu.be/hrGdfGIjFjo with diamond jaws thin foil
http://youtu.be/wD16Uqq-fxw with pyramid jaws 8 bar plastic sample
http://youtu.be/IlO3mh-KQK94 BP glued sample
http://www.youtube.com/watch?v=olkEL5AqrAM TH232+2Ko + special jaws

Similar grips: TH83, TH126, manual TH154