**HYDRAULIC GRIP**

<table>
<thead>
<tr>
<th>Item no.</th>
<th>THS872-100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. clamping force:</td>
<td>200 kN at 350 bar</td>
</tr>
<tr>
<td>Max. tensile force:</td>
<td>100 kN</td>
</tr>
<tr>
<td>Possible couplings:</td>
<td>Af318 and Af40 Further couplings on request</td>
</tr>
<tr>
<td>Body:</td>
<td>Steel, nickel-plated</td>
</tr>
<tr>
<td>Jaws:</td>
<td>Steel, 58 HRC hardened</td>
</tr>
<tr>
<td>Temperature range:</td>
<td>0 ... +70°C Further temperature ranges on request</td>
</tr>
<tr>
<td>Weight:</td>
<td>24.5 kg per grip</td>
</tr>
<tr>
<td>Scope of supply:</td>
<td>1 pair of grips without jaws</td>
</tr>
</tbody>
</table>

Further versions:

**THS872-100+2Ko**
- With 2 rods
- Back side throttle to adjust speed
  - It is possible to block one rod completely
- Symmetric or single jaw movement
Jaws for THS872:

Scope of supply: 1 set = 4 jaws

<table>
<thead>
<tr>
<th>Item no.</th>
<th>Surface</th>
<th>Clamping surface H x W</th>
<th>Opening</th>
<th>Weight per pair</th>
</tr>
</thead>
<tbody>
<tr>
<td>THS872-100-B</td>
<td>Blank (smooth) jaws</td>
<td>60 x 66 mm</td>
<td>0 – 30 mm</td>
<td>1.2 kg</td>
</tr>
<tr>
<td>THS872-100-BP</td>
<td>Pyramid (serrated) jaws</td>
<td>60 x 66 mm</td>
<td>0 – 30 mm</td>
<td>1.1 kg</td>
</tr>
<tr>
<td>THS872-100-BV</td>
<td>V-jaws for round samples</td>
<td>Clamping height 60 mm</td>
<td>Ø 6 – 30 mm</td>
<td>1.2 kg</td>
</tr>
<tr>
<td>THS872-100-BW</td>
<td>Wave jaws</td>
<td>60 x 66 mm</td>
<td>0 – 30 mm</td>
<td>1.1 kg</td>
</tr>
<tr>
<td>THS872-100-BD</td>
<td>Diamond-coated jaws</td>
<td>60 x 66 mm</td>
<td>0 – 30 mm</td>
<td>1.2 kg</td>
</tr>
<tr>
<td>THS872-100-BDV</td>
<td>Diamond-coated V-jaws</td>
<td>Clamping height 60 mm</td>
<td>Ø 6 – 30 mm</td>
<td>1.2 kg</td>
</tr>
<tr>
<td>THS872-100-BG</td>
<td>Rubber-coated jaws</td>
<td>60 x 66 mm</td>
<td>0 – 28 mm</td>
<td>1.2 kg</td>
</tr>
</tbody>
</table>

Further dimensions and surface coatings available on request

Jaw surfaces:

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

- **Pyramid (serrated, cross-cut) jaws**
  - Pyramids 1.2x45°
  - Hardened steel 58 HRC
  - Nickel coating

- **V-jaws**
  - For all kinds of round samples
  - Tooth pitch 1.2 mm
  - Hardened steel 58 HRC
  - Nickel coating

- **Wave jaws (corrugated)**
  - Wave 5 mm
  - Hardened steel 58 HRC
  - Nickel coating

- **Diamond-coated jaws**
  - Clamping surface coated with synthetic diamonds D91 (170/200 mesh)
  - Nickel coating

- **Diamond-coated V-jaws**
  - Clamping surface coated with synthetic diamonds D91 (170/200 mesh)
  - For notch-sensitive round samples
  - Hardened steel 58 HRC, nickel coating

- **Rubber-coated jaws**
  - 1 mm thick rubber coating (NBR)
  - Nickel coating

Example for special jaws:

- THS872-100-BP-R59, -R60, -R62
  - Jaws to test tube cut-outs
Adapter platen

to mount further grips on THS872-100 without dismounting the grip

Item no.: THS872-100-KA

Air hydraulic pumps for THS872-100:

TH135-P2-2-350
Air hydraulic pump with 2 valves for independent switching of the grips (open – close);
Remote control with ON / OFF switches;
Capacity: 2.75 l/min, 350 bar, 1:61 air pressure : oil pressure
Dimensions: 350 x 250 x 400 mm. Weight 27.5 kg; 220 V 0.1 A. Noise level 60 dBA.
Max. temperature range 125°C.
Incl. 2 tubes 3 m and 5 m long

TH135-P2-2-G-a-400
Same as TH135-P2-2-350, but
- incl. housing for noise reduction, noise level closed in the box 50 dBA
- with analogue pressure transducer:
  clamping pressure can be adjusted through analogue signal 1-10 Volt -> 40-400 bar
Dimensions (LxWxH): 723 x 350 x 617 mm; weight: 70 kg

TH135-P4-2-G-a-400
Air hydraulic pump similar to TH135-P2-2-G-a-400 but with
4 hydraulic valves to lock the jaws at any required position (open – stop – close)
Weight: 70 kg

Accessories for the pumps:
TH135-PT8-3
Hydraulic hose, 3 m long, 8 mm, 1/4" fittings, 400 bar, 125°C,
union nuts M16x1.5

TH135-PT8-5
Hydraulic hose, 5 m long, 8 mm, 1/4" fittings, 400 bar, 125°C,
union nuts M16x1.5