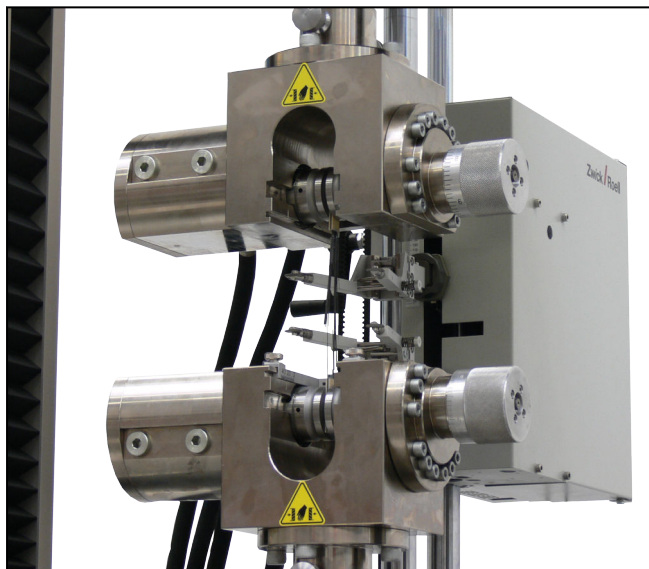


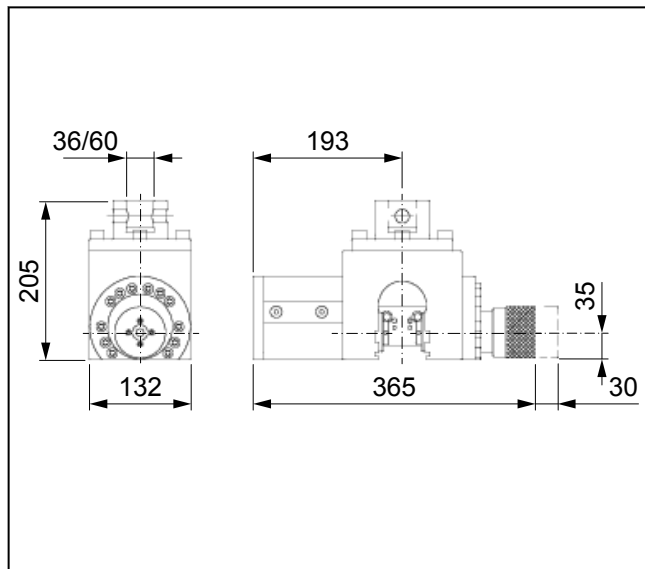
## Product Information

### Type 8801 hydraulic grips, Fmax 50 kN

CTA: 39739 39704



Hydraulic grips Type 8801, Fmax 50 kN



Hydraulic grips Type 8801, Fmax 50 kN, overview

#### Applications

- Specimen material  
Metals, wood
- Specimen shape  
Round and flat specimens
- Type of loading  
Tensile, compression, alternating load

#### Function description

Hydraulic grips are single-sided closing and can be used for symmetrical and asymmetrical gripping.

The opposing jaw can be steplessly adjusted.

The closing and gripping pressure of the specimen grip can be set steplessly and reproducibly via a hydraulic power pack. The specimen is held securely and jaw breaks are prevented during the test.

Two horizontal T-slot pairs are found in the specimen grip. The larger slot is for insertion of the T-slotted system to accommodate smaller load cells and specimen grips. The smaller slot is for inserting/guiding additional accessories.

You can insert the specimen vertically and in the center using the specimen gripper. The slot of the specimen

grips is used as a guide. Using a specimen gripper helps minimize the risk of injury when inserting and removing specimens from the specimen grips. Such risks are the pinching of body parts between the jaws or the burning of body parts on hot specimens.

#### Advantages and features

- If the application changes, the jaws can be easily switched.
- Accurate test results along with a high cycle rate that is made possible by central insertion of the sample with the aid of an easily adjustable centering stop.
- The constant gripping force allows for repeatable test results.
- Short specimen can also be gripped due to the special design of the specimen grip.
- Reliable testing results are guaranteed with the optimal interaction between the hydraulic power pack, the electronics, and the testing software. The force-zero control prevents unwanted forces on the specimen during the gripping process.
- The prism jaws ensure flexibility. They can be rotated and have two-fold use:
  - Round and flat specimens
  - Round specimens with varying diameters

## Product Information

Type 8801 hydraulic grips, F<sub>max</sub> 50 kN

### Technical data

Item No.	317176 <sup>1)</sup>	
Type	8801	
Test load F <sub>max</sub>	50	kN
Adjustment of opposing jaw	Stepless	
Pressure, min.	12	bar
Pressure, max.	300	bar
Closing force at max. pressure	100	kN
Dimensions		
Height	205	mm
Width	365	mm
Width with screw unit, open all the way	395	mm
Depth	132	mm
Gripping travel	35	mm
Opening width, max./specimen thickness	See table of jaws (specimen thickness)	
Gripping of the specimen	The specimen must be gripped above at least 2/3 of the jaw height.	
Connection, stud	Ø 36/60 <sup>2)</sup>	mm
Ambient temperature	+10 to +35	°C
Weight per specimen grip, approx.	37	kg
Scope of delivery	2	pieces

1) Recommended and approved for strain rate control in accordance with standards DIN EN ISO 6892-1:2009 and ASTM E8 – 09.

2) These specimen grips can be offered with a 36 mm or 60 mm connection (selection made using parts list alternatives).

### Accessories required

#### Hydraulic power pack

#### Flat jaws

Scope of delivery: 2 pieces

Applications	Version	Specimen thickness [mm]	Gripping surface (H x W) [mm]	Ambient temperature [°C]	Hardness	Item No.
Fabric strips, fabric-elastomer composite	Steel, concentric grooves	0 to 40	80 x 110	+0 to +100	56 HRC	313644
	Steel, smooth	0 to 59	Ø 50	+10 to +100	56 HRC	314128
Metal, reinforced plastics	Steel, concentric grooves <sup>1)</sup>	0 to 59	Ø 50	0 to +100	56 HRC	313638

1) Concentric grooves = circular grooves in ripple pattern at 1 mm spacing

## Product Information

### Type 8801 hydraulic grips, Fmax 50 kN

#### Prism jaws

Scope of delivery: 2 pieces

Applications	Version	Specimen diameter [mm]	Gripping surface (H x W) [mm]	Ambient temperature [°C]	Hardness	Item No.
Round specimens made of metal/plastic	Steel, concentric grooves <sup>1)</sup> With two V-slots <sup>2)</sup>	Ø 3 ... 15, Ø 6 to 15 <sup>3)</sup>	Ø 50	+0 to +100	56 HRC	313640

- 1) Concentric grooves = circular grooves in ripple pattern at 1 mm spacing  
 2) These prism jaws have V-slots that are arranged crosswise for various specimen diameters.  
 3) The specimen diameter for Type 8801 is 3 to 15 mm, and for Type 8494, 6 to 15 mm

#### Optional accessories

Description	Item number
Specimen gripper	<b>325118</b>
T-slotted shoe-connector with <ul style="list-style-type: none"> <li>• M28 x 1.5 thread for connecting Ø8, 20, 36 mm mounting studs or load cells</li> <li>• centering spigot, Ø 30 H7, for connecting mounting unit, mounting flange or Ø 60 mm mounting stud</li> </ul> Scope of delivery: 2 pieces	<b>314054</b>
T-slotted shoe connector for load cell calibration, Fmax 250 kN, with hole Ø 64/48 mm, Scope of delivery: 2 pieces	<b>314056</b>
Mounting stud, Ø 60 mm, Fmax 250 kN Scope of delivery: 1 piece	<b>314062</b>
Mounting unit for attaching compression test kits (Fmax 250 kN <sup>1)</sup> ), rigid upper anvil holder (Fmax 250 kN <sup>1)</sup> ), rocking upper anvil holder (Fmax 20 kN <sup>1)</sup> ), Type A/B flexure table (20 kN <sup>1)</sup> ) Scope of delivery: 1 piece	<b>314058</b>
Mounting flange for attaching flexure tables, Fmax 250 kN <sup>1)</sup> , preferably for installation in lower grip Scope of delivery: 1 piece	<b>314060</b>

- 1) Fmax may be restricted due to a lower test kit/device Fmax