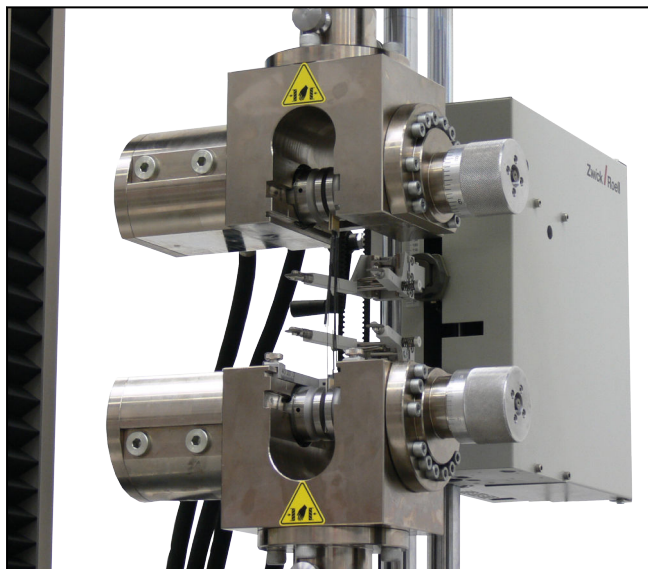


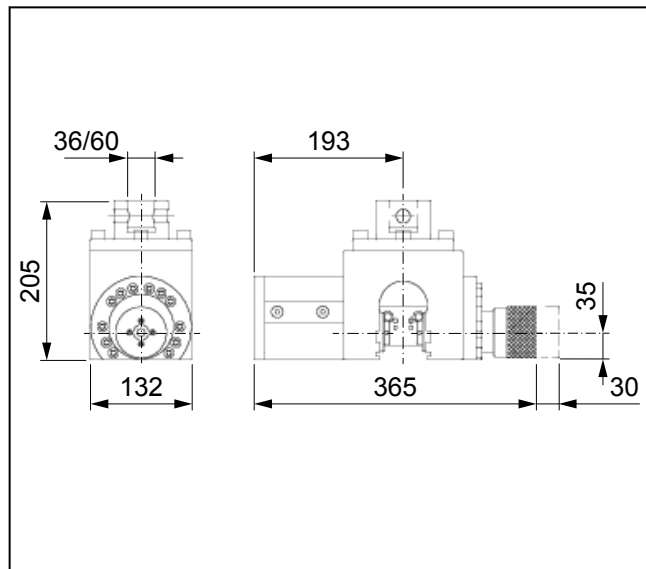
## Product Information

### Hydraulic grips type 8801 , 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.
- An adjustable centering stop ensures precise test results, even with high specimen throughput rates.
- The constant gripping force allows for repeatable test results.
- Short specimens can also be gripped due to the special design of the specimen grip.
- Reliable test 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

Hydraulic grips type 8801 , Fmax 50 kN

### Technical data

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

1) Recommended and approved for strain rate control to standards DIN EN ISO6892-1:2009 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

## Product Information

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#### Flat jaws

Scope of delivery: 2 piece

Application	Version	Specimen dimensions Type 8801, F <sub>max</sub> 50 kN Flat specimen, thickness [mm]	Clamping surface [mm]			Ambient temperature [°C]	Hardness
			Height [mm]	Width [mm]	Diameter [mm]		
Fabric strips, wood, fabric-elastomer composite	Steel, concentric grooves	0 ... 40	80	110	-	+0 ... +100	56 HRC
Thin metal strips, CFRP/GFRP strip specimens	Steel, smooth	0 ... 59	-	-	50	+0 ... +100	56 HRC
Metal, reinforced plastics	Steel, concentric grooves <sup>1)</sup>	0 ... 59	-	-	50	0 ... +100	56 HRC

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

#### Prism jaws

Scope of delivery: 2 piece

Application	Version	Specimen dimensions Type 8801, F <sub>max</sub> 50 kN Round specimen, Ø [mm]	Clamping surface Diameter [mm]	Ambient temperature [°C]	Hardness	Item No.

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

2) These prism jaws have V-notches that are arranged crosswise for various specimen diameters

#### Optional accessories

Description	ArticleNumber
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>

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Description	ArticleNumber
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