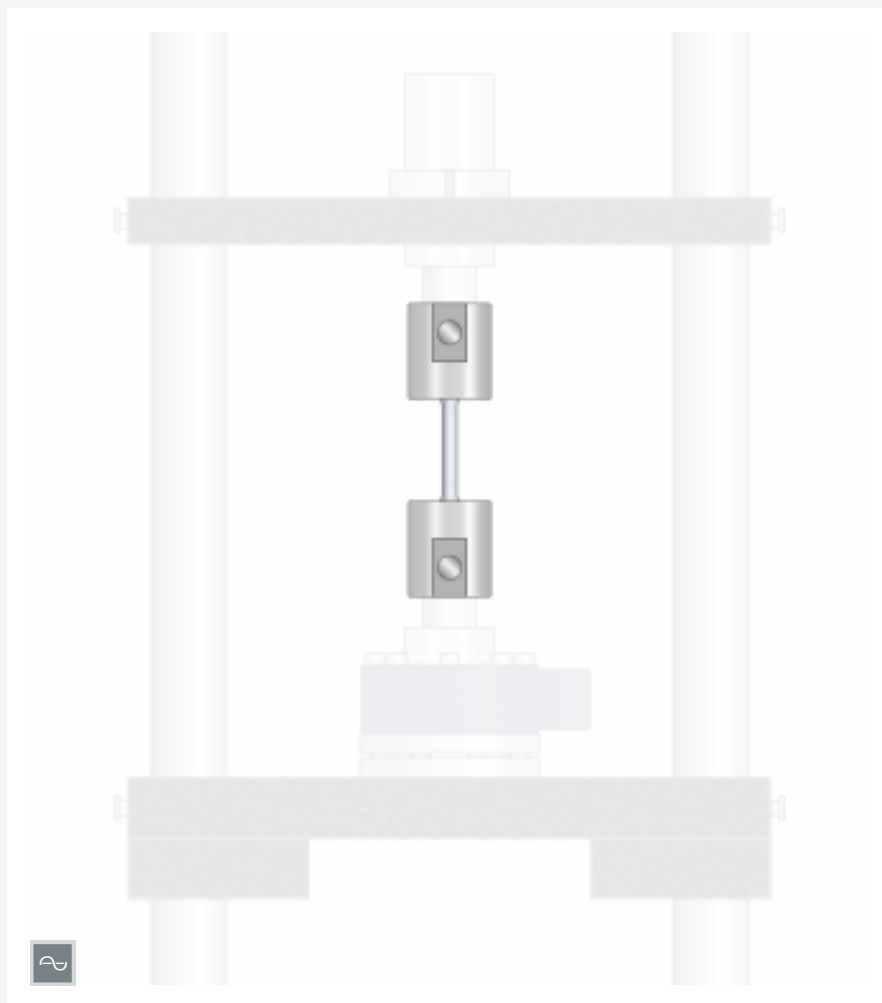


WP 310.06

Clamping device for tensile specimens, threaded end



The illustration shows the accessory WP 310.06 mounted into the operating area of WP 310.

Description

- tensile test in accordance with DIN 50125
- easy to install clamping device
- tensile specimens according to DIN 50125 with threaded ends included
- accessory for WP 310

This accessory for WP 310 makes it possible to carry out tensile experiments on round specimens. The tensile strength is determined as an important characteristic of a material. Additionally, the fracture strain can be determined as a measure for the material's toughness. The specimens meet the requirements of DIN 50125, B10x50 and have threaded ends.

The accessory contains two clamping heads with threads for holding the round specimens. Both clamping heads are secured to the crossbars of WP 310.

In the tensile test, a uniaxial state of stress is produced in a standardised specimen. This state of stress is produced by an external load on the specimen in the longitudinal direction via a tensile force. Then a uniform normal stress distribution prevails in the test cross-section of the specimen. In order to determine the strength of the material, the load on the specimen is slowly and steadily increased, until the specimen breaks.

A set of round specimens made of steel is included to carry out experiments.

Learning objectives/experiments

- tensile experiments with round specimens on the WP 310 experimental unit

Specification

- [1] 2 clamping heads for fastening tensile round specimens on the WP 310 experimental unit
- [2] 5 steel specimens
- [3] accessory for WP 310

Technical data

- 2 clamping heads
- DxH: 55x65mm
 - thread: M16
- 5 round specimens B10x50 according to DIN 50125
- specimen \varnothing 10mm
 - specimen length: 50mm
 - specimen total length: 90mm
 - thread insert: M16
 - material: St

Dxh: 2x 55x65mm
Total weight: approx. 3kg

Scope of delivery

- 2 clamping heads
- 1 set of specimens (5 pieces)

WP 310.06

Clamping device for tensile specimens, threaded end

Required accessories

WP 310 Materials testing, 50kN

Optional accessories

WP 310.11 Set of 10 tensile specimens B10x50, St