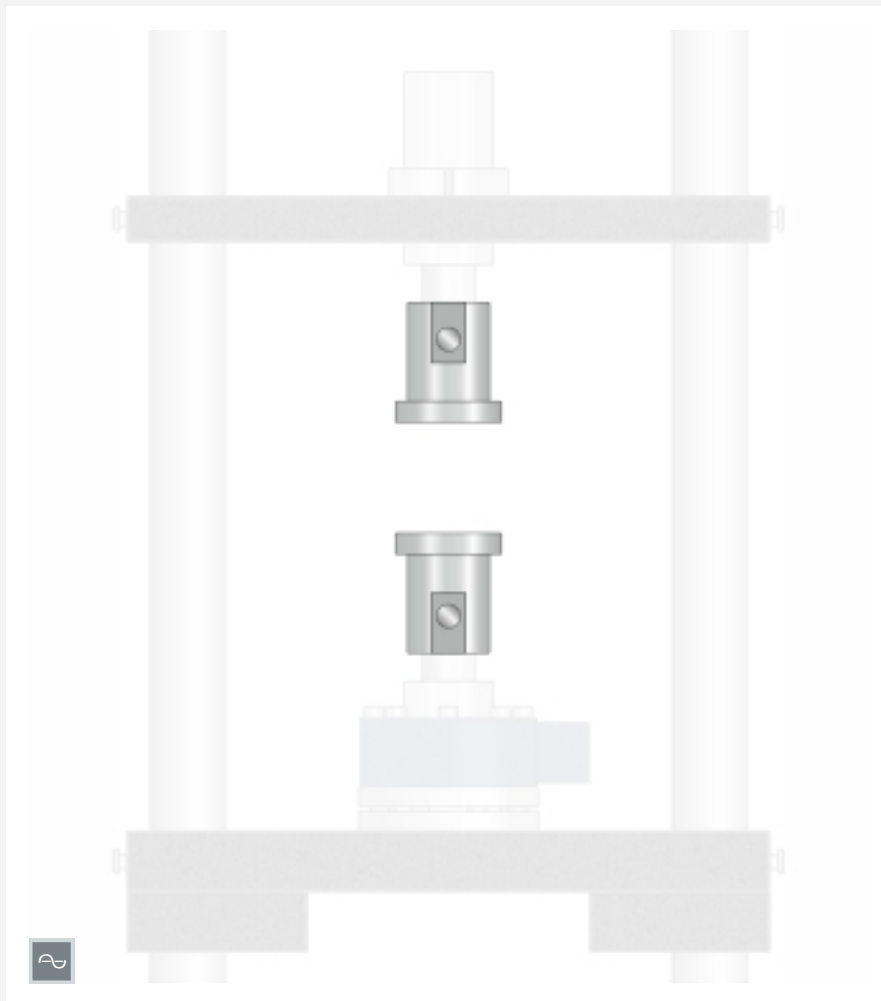


WP 310.04

Compression plates for compression tests



The illustration shows the accessory WP 310.04 mounted into the operating area of WP 310.

Description

■ **easy to install sample holder for pressure testing of round specimens on the WP 310 experimental unit**

This accessory for WP 310 makes it possible to carry out pressure experiments. The compressive strength is determined as an important characteristic of a material. Furthermore, the compression yield point can be determined as the onset of plastic deformation of a material, at which no compressive strength can be determined.

The accessory contains two pressure plates between which a specimen is positioned. The assembled compression mechanism is installed in the pressure section of the WP 310 experimental unit. Circle lines are provided to help in positioning the specimens at the centre.

In experiments, a uniaxial state of stress is produced in a geometrically defined specimen. This state of stress is produced by an external load on the specimen in the longitudinal direction via a compressive 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 ruptures.

Specimens of wood or plastic are studied, which are available as accessory WP 310.15.

Learning objectives/experiments

- pressure experiments on the WP 310 experimental unit with round specimens WP 310.15

Specification

- [1] accessory set of pressure plates for holding round pressure specimens on the WP 310 experimental unit

Technical data

- 2 pressure plates
 ■ Ø 70mm

Dxh: 2x 70x80mm
 Weight: approx. 2kg

Scope of delivery

- 2 pressure plates
 1 set of accessories

WP 310.04

Compression plates for compression tests

Required accessories

WP 310 Materials testing, 50kN

Optional accessories

WP 310.15 Set of compression specimens, 4x plastic, 1x wood