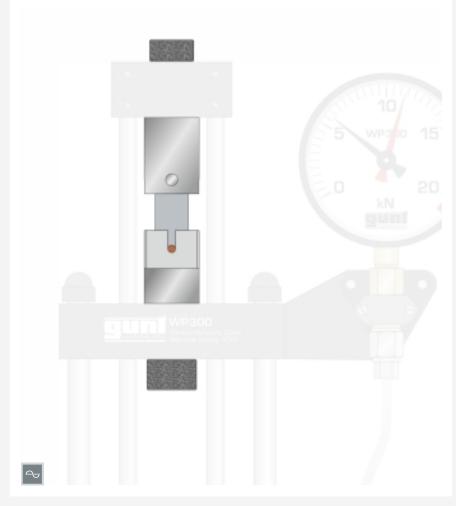


# WP 300.13

Device for shear tests, single-shear



## Description

- single-shear method based on DIN 50141
- type of stress as with rivets and pins

This accessory for WP 300 allows you to conduct shear tests using the single-shear method.

The shear device consists of one hardened shearing anvil that hold the specimen and a pull strap with a hardened shear tongue. The resulting shear device is installed in the compression area of the WP 300 experimental unit, between bottom crossbar and crosshead. External shear forces acting on the specimen produce shear stress in the shear specimen and the resistance of the material to shear stress is determined.

The shear strength determined in the shear test is important in the design of bolts, rivets and pins, as well as for calculating the force required for shears and presses.

A set of round copper specimens is included to carry out the experiments.

## Learning objectives/experiments

- shear tests with metallic specimens on the WP 300 experimental unit
- calculate shear strength

## Specification

- [1] single-shear method based on DIN 50141 for determining shear strength
- [2] 5 copper specimens
  - [3] hardened steel shearing anvils and pull strap
  - [4] accessory for WP 300

### Technical data

- 5 shear specimens, copper
- specimen diameter: Ø 6mm
- specimen length: 26mm

LxWxH: 50x50x170mm Weight: approx. 2,5kg

### Scope of delivery

- 1 shear device
- 1 set of specimens (5 pieces)
- 1 set of accessories



## WP 300.13 Device for shear tests, single-shear

Required accessories

WP 300 Materials testing, 20kN

Optional accessories

WP 300.52 Set of 5 shear specimens, Cu

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