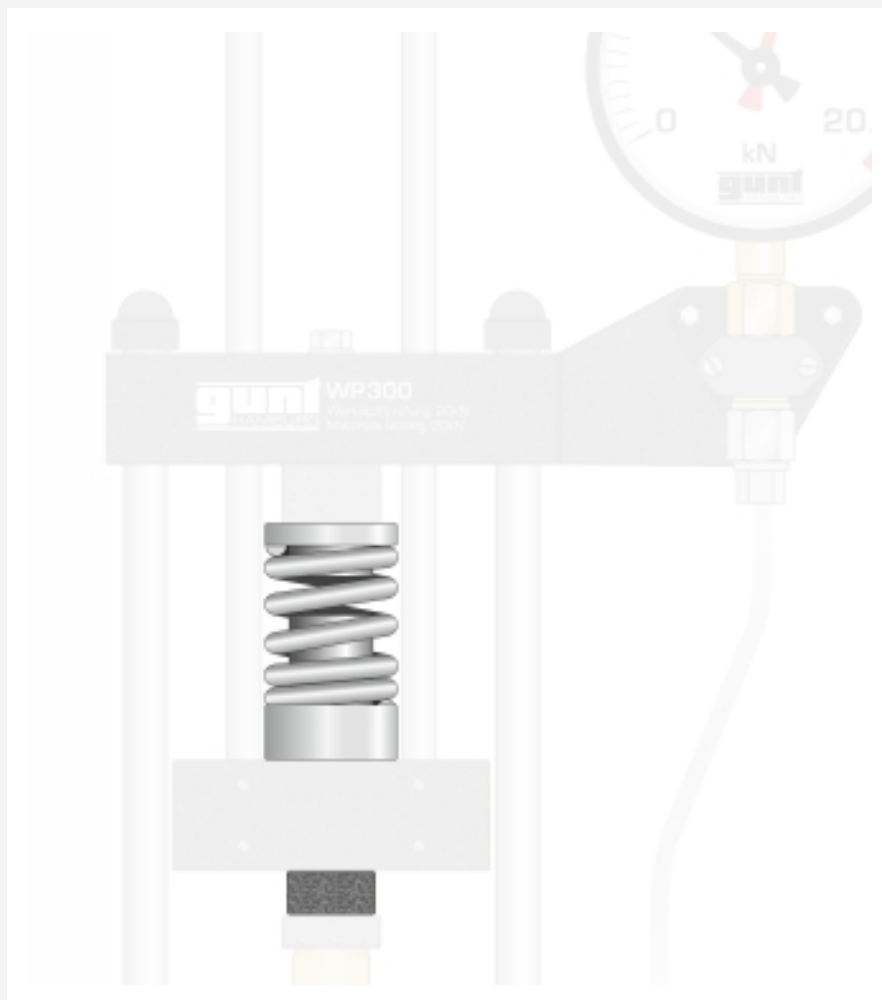


## WP 300.06

### Experimental setup for spring test, helical spring, 2 sets



#### Learning objectives/experiments

- spring tests on the WP 300 experimental unit
  - ▶ linear relationship between spring force and spring travel
  - ▶ determine the spring constants  $k$

#### Specification

- [1] accessory set for spring tests on the WP 300 experimental unit
- [2] 2 different helical springs with matching holders

#### Technical data

##### Helical spring 1

- wire diameter:  $\varnothing$  10mm
- outer coil diameter:  $\varnothing$  46mm
- unloaded length: 67mm
- pitch: 22,8mm
- spring constant: 873,4N/mm
- material: spring steel wire to DIN 2076-C

##### Helical spring 2

- wire diameter:  $\varnothing$  10mm
- outer coil diameter:  $\varnothing$  60mm
- unloaded length: 75mm
- pitch: 1857mm
- spring constant: 232,9N/mm
- material: spring steel wire to DIN 2076-C

Dxh: 1x 60x95mm, 1x 50x87mm

#### Description

- easy to install test device for spring tests on the WP 300 experimental unit
- two different helical springs with matching holders included

This accessory for WP 300 allows you to carry out spring tests on two different springs. The spring constant of a spring is often required in practice, since it indicates the ratio between the spring force and the deformation, also known as the spring travel.

This accessory contains two spring holders and two pressure pieces as well as two different helical springs. The assembled test device is installed in the compression area of the WP 300 experimental unit, between bottom crossbar and crosshead. The helical spring is loaded via a pressure plate in WP 300.

#### Scope of delivery

- 2 holders
- 2 helical springs
- 2 set of accessories

## **WP 300.06**

### **Experimental setup for spring test, helical spring, 2 sets**

Required accessories

WP 300                    Materials testing, 20kN