

WP 310.08

Experimental setup for spring test, helical spring



The illustration shows the accessory WP 310.08 mounted into the operating area of WP 310.

Description

- **easy to install test device for spring tests on the WP 310 experimental unit**
- **one helical spring included**

This accessory for WP 310 allows you to carry out spring tests.

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 one helical spring. The assembled test device is installed in the compression area of the WP 310 experimental unit, between bottom crossbar and crosshead.

Learning objectives/experiments

- spring tests on the WP 310 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 310 experimental unit

Technical data

Helical spring

- wire diameter: \varnothing 11 mm
- outer coil diameter: \varnothing 60 mm
- unloaded length: 85 mm
- material: spring steel wire to DIN 2076-C

Dxh: 2x 60x86 mm

Scope of delivery

- 2 holders
- 1 helical spring
- 1 set of accessories

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Required accessories

WP 310 Materials testing, 50kN