

WP 310.09

Experimental setup for spring test, disk spring



The illustration shows the accessory WP 310.09 mounted into the operating area of WP 310.

Description

- **easy to install test device for spring test on the WP 310 experimental unit**
- **spring set with four disk springs**

This accessory for WP 310 allows you to carry out a spring test on a disk spring set.

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 a set of four disk springs, one pressure piece and one spring holder. 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
- [2] spring set comprising 4 disk springs

Technical data

- 4 disk springs DIN 2093
- outer diameter: \varnothing 50mm
 - inner diameter: \varnothing 25,4mm
 - thickness: 3mm
 - material: 50CrV4

Dxh: 1x 50x96mm; 1x 50x10mm

Scope of delivery

- 1 holder
- 1 pressure piece
- 4 disk springs

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Required accessories

WP 310 Materials testing, 50kN