

WP 500.90

Torsiometer



Learning objectives/experiments

- in conjunction with the experimental unit WP 500
 - ▶ measurement of the exact angle of deflection
 - ▶ plotting the diagram of twisting moment over twisting angle
 - ▶ determination of shear modulus

Specification

- [1] measure the exact torsion angle in a twisted specimen
- [2] measure the clockwise and counter-clockwise deflection
- [3] accessory for WP 500

Technical data

Specimen diameter: up to 6mm
Clamp spacing: 50mm

Measuring ranges
angle of twist: 0...360°
resolution: 0,1°

Dxh: 120x62mm

Scope of delivery

- 1 torsiometer

Description

- torsiometer to measure the exact torsion angle
- accessory for the WP 500 experimental unit

This torsiometer is available as an accessory for the WP 500 experimental unit.

The torsiometer allows you to measure the exact angle of deflection of a twisted specimen. The torsion moment is plotted over the torsion angle in order to analyse the torsion test. The torsional deformation is described by the torsion angle.

The torsion specimen used is simply clamped in place in the torsiometer by means of two clamping screws. The torsiometer has two scales: for clockwise and counter-clockwise deflection. The vernier scale enables measurements with a resolution of 0,1°.

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Required accessories

WP 500 Torsion test, 30Nm