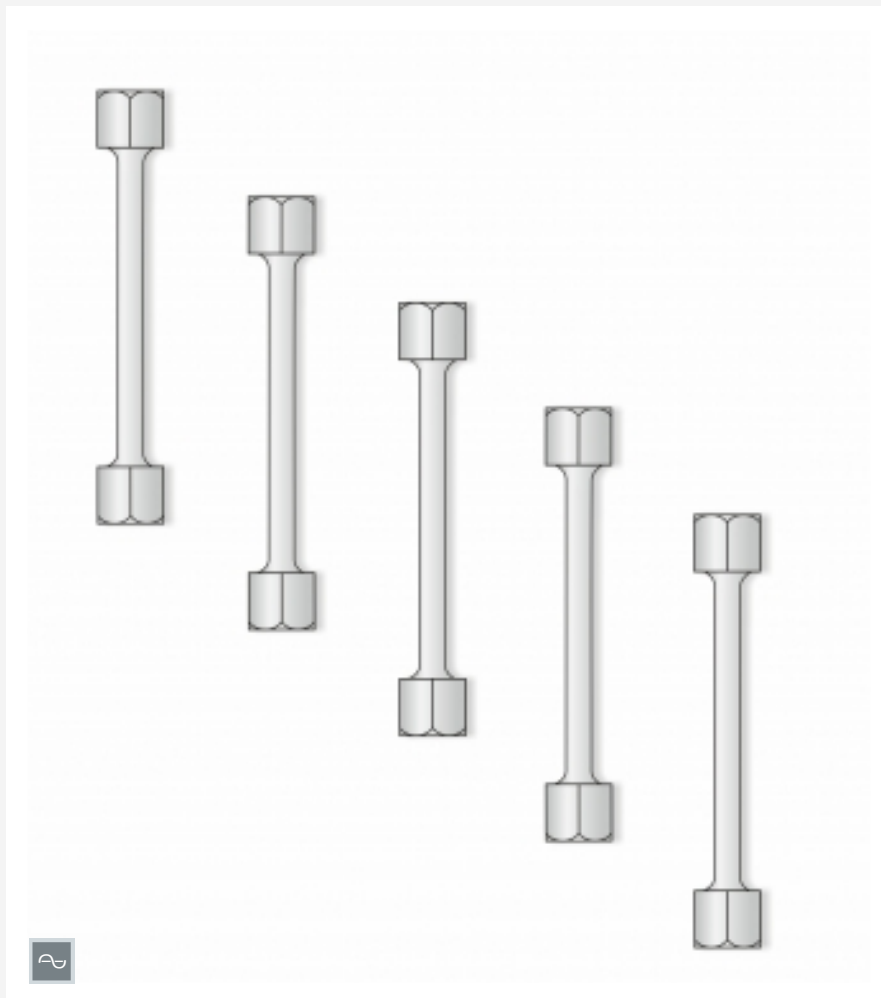


## WP 510.03

### Set of 5 torsion specimens, Al



#### Learning objectives/experiments

- torsion tests on the WP 510 experimental unit

#### Specification

- [1] torsion specimens for torsion tests
- [2] 5 specimens made of aluminium
- [3] accessory for WP 510 Torsion test 200Nm, motor drive

#### Technical data

Specimens, aluminium

- length: 146mm
- clamping length: 100mm
- specimen diameter in measuring cross-section: 9mm
- clamp fixing: SW19

Weight: approx. 250g

#### Scope of delivery

- 1 set of specimens (5 pieces)

#### Description

##### ■ torsion specimens of round cross-section as accessories for the WP 510 experimental unit

This set of specimens is available as an accessory for the WP 510 experimental unit.

The specimen is installed in the experimental area of WP 510. The ends of the specimens have 19 mm hexagons for attachment.

In the experiment, metallic specimens are twisted until they are destroyed by a typical shear fracture. In contrast to the tensile and bending tests, the torsion causes a two-axis stress state. Shear stresses are produced in the specimen which deform it. The deformation is expressed as twisting of the two ends of the specimen towards each other.

The set contains five specimens made of aluminium.

# **WP 510.03**

## **Set of 5 torsion specimens, Al**

Required accessories

020.51000      WP 510      Torsion test 200Nm, motor drive