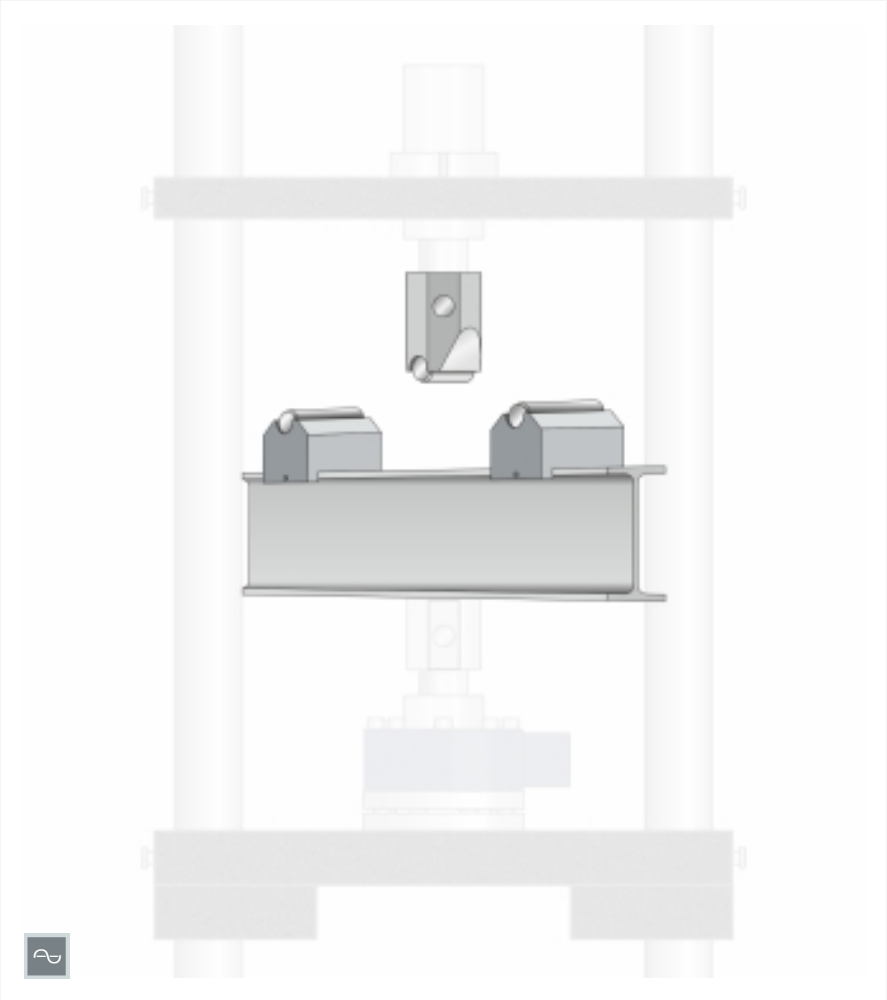
WP 310.03
Bending test device



The illustration shows the accessory WP 310.03 mounted into the operating area of WP 310.

Description

- **deformation of a bending beam by a point force**
- **support distance and point of application of force can be chosen**
- **accessory for WP 310**

This accessory for WP 310 allows the investigation of a bending beam. The relationship between load and elastic deformation can be demonstrated. The influence of the modulus of elasticity and second moment of area is also demonstrated.

The bending beam is mounted on two supports and loaded with a point force generated by the test device. By sliding the bearing it is possible to apply the force in different positions and change the support width.

An I-section steel beam is bolted to the lower cross-member on the WP 310 and is used as the base.

A set of specimens made of steel is available as accessory WP 310.81.

Learning objectives/experiments

- loading of a bending beam by a point force
- influence of modulus of elasticity and second moment of area on deformation

Specification

[1] deformation of bending beams subject to a point force
[2] I-section steel beam as bearing base
[3] support distance adjustable
[4] accessory for WP 310

Technical data

Support distance: 50...350mm

LxWxH: 400x80x200mm
Weight: approx. 4,5kg

Scope of delivery

1 bending test device
1 set of accessories
1 set of tools

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Required accessories

WP 310	Materials testing, 50kN

Optional accessories

WP 310.81	Set of 25 bending specimens, St