



Features

- Table unit for the demonstration of the relationship between load and deformation on a bending bar

Tesca Eccentrically Loaded Tie Apparatus This table unit is used to observe the deformation of a bar under constant bending moment. The brass bending bar is positioned on two bearings that are fitted to a base plate. At the ends of the bending bar are struts using which the bending moment can be applied. The bending moments are generated using a set of weights and a cord. The resulting bar deformation is measured using a position measurement gauge mounted on a movable stand. It is possible to measure the deformation at any point between the bar bearings. The unit is suitable both for laboratory use for student experiment, and for demonstrations performed by the lecturer.

Specifications

- Table unit for the demonstration of the relationship between load and deformation on a bending bar.
- Bent bar length 490mm
- Bar cross-section 10x10mm
- Bar material brass
- Weight set up to 20N
- Position measurement gauge 0...10mm, graduations 0.01mm
 - ♦ Brass bar, bent length: 490mm
 - ♦ Cross-section: 10x10mm
 - ♦ Modulus of elasticity: 95000N/mm²
 - ♦ Dial gauge: 10mm, graduations 0.01mm
 - ♦ Set of weights: up to 20N
 - ♦ 1 exp. app., complete,
 - ♦ 1 bending bar,
 - ♦ 1 dial gauge,

Note: Specifications are subject to change.

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- ♦ 1 set of weights,
- ♦ 1 instruction manual

Experiments

- Loading of a bending bar with different constant moments
- Measurement of the deflection that occurs

Essential Services

- Bench space needed:
- - 1500 mm x 550 mm

Operating Conditions

- Operating environment:
 - * Laboratory
- Storage temperature range:
 - * -25°C to +55°C (when packed for transport)
- Operating temperature range:
 - * +5°C to +40°C
- Operating relative humidity range:
 - * 80% at temperatures < 31°C decreasing linearly to 50% at 40°C