

Product Name :
Bending Test, Plastic Deformation

Product Code :
TN766



Description :

Bending Test, Plastic Deformation

Technical Specification :

Bending Test, Plastic Deformation

The unit is perform the following experiments and investigations:

Learning Objectives / Experiments:

- Load on a beam with a point load including mounting frame
- Plot a load–extension diagram and determine the nonlinear behaviour
- Compare the load and relief curves
- Demonstrate the invalidity of the superposition principle in the plastic region

Specifications:

- Study a beam until plastic deformation
- Load on the beam from point load
- Fixed and movable support for supporting the beam
- Beams of different materials and profiles
- Dial gauge for recording the deformation
- Storage system for parts
- Experimental setup in the mounting frame

Technical Data:

Beams

1x 1000x15x3mm, steel
1x 1000x15x3mm, aluminium
1x H-profile, 1000x15x15x2mm, aluminium
Load application device
Load: $\pm 5000\text{N}$
Travel: 100mm
Measuring ranges
Travel: 0...50mm
Dimensions and Weight
Length x Width x Height: 1170x480x178mm
Weight: 30kg

Mounting Frame

Specification:

Frame for mounting of experiments in statics, strength of materials and dynamics
Sturdy sectional steel double frame, welded
Easy, exact mounting of all components by precision clamp fixings
Stable on laboratory desktops or workbenches
Frame supplied disassembled

Technical Data:

Mounting frame made of steel sections
Frame opening Width x Height: 1250x900mm
Section groove width: 40mm
Dimensions and Weight
Length x Width x Height: 1400x400x1130mm (assembled)
Length x Width x Height: 1400x400x200mm (without mountings)
Weight: 32kg.

Naugralabequipments

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