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Product Name :	**Product Code :**
Methods To Determine The Elastic Line	TN954

Description :

Methods To Determine The Elastic Line

Technical Specification :

Methods To Determine The Elastic Line
The unit is perform the following experiments and investigations:

Learning Objectives / Experiments:
Elastic lines for statically determinate or indeterminate beams under load
Determination of the elastic line of a beam by the principle of virtual work (calculation)
Mohrâ€™s analogy (area moment method devised by mohr; graphical representation)
Application of the principle of superposition
Determination of the deflection of the beam
Angle of inclination of the beam comparison between calculated and measured values for angle of inclination and deflection

Specifications:
Comparison of different methods to determine the elastic line
Statically determinate or indeterminate beam
2 supports with clamp fixing, optionally as articulated support with measurement of angle of inclination or clamp fixing
1 articulated support with force gauge
Device to generate a bending moment
Dial gauge with generation of moment to measure the angle of inclination

Dial gauge to record the deformations of the beam
Weights to subject the beam to point loads or moment
Weights to determine the clamping moments on the supports with clamp fixings
Storage system to house the components
Experimental setup in the included mounting frame

Technical Data:
Beam
Length: 1000mm
Cross-section: 20x4mm
Material: steel
Weights
7x 1N (hanger)
28x 1N
21x 5N
Measuring ranges
Force: Â±50N, graduation: 1N
Travel: 0...20mm, graduation: 0,01mm
Dimensions and Weight
Length x Width x Height: 1170x480x178mm (storage system)
Weight: 42kg (total)

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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