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Product Name :	**Product Code :**
Deformation of Bars Under Bending or Torsion	TN915

Description :

Deformation of Bars Under Bending or Torsion

Technical Specification :

Deformation Of Bars Under Bending Or Torsion
The unit is perform the following experiments and investigations:

Learning Objectives / Experiments:
Bending tests
Determination of the modulus of elasticity
Statically determinate systems (beam mounted on two supports; cantilever beam)
Statically indeterminate systems (dual-span beam)
Deformation of a beam dependent on material, geometry (section width, height and length), type of support and length of span
Formulation of proportional relationships for the deformation
Torsion tests
Determination of the shear modulus of various materials
Angle of twist dependent on clamping length, bar diameter
Formulation of proportional relationships for the angle of twist

Specifications:
Elastic deformation of bars under bending or torsion
Bending tests with statically determinate and indeterminate systems
Torsion tests with a statically determinate system

Supports in the bending test may be clamped or free
2 adjustable blocks with clamping chuck for torsion tests and supports for bending tests
Weights to generate the bending or twisting moment
Dial gauge with bracket
Storage system to house the components

Technical Data:
17 bars for bending tests
Material: aluminium, steel, brass, copper
Height with Length x Width 510x20mm: h=3...10mm
Width with Length x Height 510x5mm: w=10...30mm
Length with Width x Height 20x4mm: l=210...510mm
Length x Width x Height: 20x4x510mm (Al, St, brass, Cu)
Length x Width x Height: 10x10x510mm (aluminium)
22 torsion bars
Material: aluminium, steel, brass, copper
Length with Ã˜ 10mm: 50...640mm (aluminium)
Ã˜ x L: 10x50mm/10x340mm (aluminium, steel, copper, brass)
Diameter with L=50/340mm: Ã˜ 5...12mm (steel)
Dial gauge
0...10mm, graduation: 0,01mm
Tape measure
Graduation: 0,01m
Weights
1x 1N (hanger)
1x 1N, 1x 4N, 1X 5N, 1x 9N
Dimensions and Weight
Length x Width x Height: 1000x250x200mm
Weight: 18kg
Length x Width x Height: 1170x480x207mm (storage system)
Weight: 12kg (storage system).

Naugralabequipments

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