

Product Name :
Beam On Two Supports Shear Force Diagram

Product Code :
TN871



Description :

Beam On Two Supports Shear Force Diagram

Technical Specification :

Beam On Two Supports: Shear Force Diagram

The unit is perform the following experiments and investigations:

Learning Objectives / Experiments:

Calculation of the reactions arising from the static conditions of equilibrium

Application of the method of sections to calculate the internal forces

Under a point load

Under multiple point loads

Calculation of the shear force diagram

Comparison of calculated and measured shear force values

Specifications:

- [1] investigation of shear force on beam mounted on 2 supports
- [2] measurement of shear force in beam by low-friction hinge with 1 degree of freedom
- [3] position of hinge at 1/3 span
- [4] 2 bearing supports
- [5] loading of beam by 1 to 3 point loads
- [6] force gauge to indicate shear force
- [7] adjuster nut for horizontal alignment of beam
- [8] storage system to house the components

Technical Data:

Beam

Total length: 1000mm

Span: 800mm

Shear force measuring range: $\pm 50\text{N}$

Weights

3x 1N (hanger), 12x 1N, 9x 5N

Weight per hanger: 20N

Dimensions and Weight

Length x Width x Height: 1400x320x600mm

Weight: 35kg

Length x Width x Height: 1170x480x178mm (storage system)

Weight: 12kg (storage system)

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