

Product Name :
Beam On Two Supports: Bending Moment Diagram

Product Code :
TN176



Description :

Beam On Two Supports: Bending Moment Diagram

Technical Specification :

Beam On Two Supports: Bending Moment 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 moments

Under a point load

Under multiple point loads

Calculation of the bending moment curve

Comparison of calculated and measured bending moment values

Specifications:

[1] investigation of bending moment on beam mounted on 2 supports

[2] indication of bending moment 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 and lever arm to indicate bending moment

[7] adjuster nut for horizontal alignment of beam

[8] storage system to house the components

Technical Data:

Beam

Total length: 1000mm

Span: 800mm

Bending moment measuring range: $\pm 10\text{Nm}$

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).

Naugralabequipments

Website: www.naugralabequipments.com, **Email:** sales@naugralabequipments.com

Address: 6148/6, Guru Nanak Marg, Ambala Cantt, Haryana, India. **Phone:** +91-9896600003