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Product Name : Deformation of Straight Beam		Product Code : ALABS-A167-026	
	ALTE	CTM	
Description : Deformation of Straight Beam			
which the dimensions of the cro length and which is subjected to longitudinal axis. The load perp causes a deformation of the be the beam is viewed as a one-di strength of materials deals with application of load to a compon strength of materials can be illu- beam under investigation can be produces statically determinate placed under load by up to four points are movable. Three dial Three articulated supports with support reactions directly. The height-adjustable, so as to com- weight of the beam under investigation in the support in the support investigation in the support in the	A beam is a bar-shaped comp oss-section are much smaller that to load along and perpendicular to bendicular to the longitudinal axis am - that is, bending. Based on imensional model. The science of stress and strain resulting from tent. Many fundamental principle istrated well by a straight beam. be supported in different ways. The and indeterminate systems whith sets of weights. The load applied gauges record the resulting defor integral force gauges indicate the	an the to its sits size, of the the es of the The this ch are cation ormation. he dead- s the beam	

materials demonstrate the influence of the geometry and of the modulus

of elasticity on the deformation of the beam under load. The various elements of the experiment are clearly laid-out and housed securely in a storage system. The complete experiment setup is arranged in the frame. The well-structured instructional material sets out the fundamentals and provides a step-by-step guide through the experiments.

Specification:

- 1. Elastic lines of statically determinate and indeterminate beams under various clamping conditions
- 2. 3 steel beams with different cross-sections
- 3. 1 brass and 1 aluminium beam
- 4. 3 articulated, height-adjustable supports with force gauge
- 5. 1 support with clamp fixing
- 6. Force gauges can be zeroed
- 7. 3 dial gauges to record deformations
- 8. 4 sets of weights with adjustable hooks
- 9. Anodised aluminium section frame housing the experiment
- 10. Storage system to house the components

Technical Data:

Beam

- length: 1000mm
- cross-sections
- 3x20mm (steel)
- 4x20mm (steel)
- 6x20mm (steel, brass, aluminium)
- Frame opening: 1320x480mm

Measuring ranges

- force: -50..+50N, graduations: 1N
- travel: 0...20mm, graduations: 0,01mm

Weights

- 4x 2,5N (hanger)

- 4x 2,5N

- 16x 5N

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Equipments Exporters

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