

Product Name : Deformation of Straight Beam		Product Code : ALABS-A169-027	
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Description :			
Deformation of Straight Bean Beams are key structural eleme engineering and in construction	ents in mechanical	ponent in	
which the dimensions of the cro length and which is subjected to longitudinal axis. The load perp causes a deformation of the be	oss-section are much smaller the load along and perpendicular endicular to the longitudinal ax	han the to its is	
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 b produces statically determinate	mensional model. The science stress and strain resulting fron ent. Many fundamental principl strated well by a straight beam e supported in different ways. and indeterminate systems wh	of the n the les of the . The This nich are	
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 inves in place. Five beams of different	gauges record the resulting def integral force gauges indicate articulated supports are pensate for the influence of the tigation. A fourth bearing clamp	formation. the e dead- os 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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