



THE LAB EQUIPMENT

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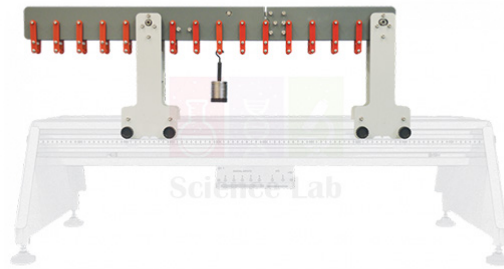
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Product Name :

Bending Moments In a Beam

Product Code :

SLE/EG/11



Description :

- Students apply loads to hangers suspended along the beam, held between two supports.
- One support allows rotational movement only, acting as a pinned support.
- The other support allows translational movement, acting as roller support.
- A load cell at the cut at mid-span of the beam measures the bending moment due to the load.
- Includes pointers that work with the scale on the platform for accurate positioning.
- This product includes a uniformly distributed load (UDL) that may be applied across the span of the beam for comparison of results with a single point load.
- The beam has a central span with an overhanging end, so that students can create both positive and negative bending moments.
- The load cell connects to the USB interface hub of the Structures platform for computer display and data acquisition.
- Students use textbook equations to predict the bending moments due to the load, comparing them with measured results, and learn how to create the influence line and bending moment diagrams.

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