



THE LAB EQUIPMENT

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**Product Name :**

Plastic Bending Of Beams

**Product Code :**

SLE/EG/10



## Description :

- Students fit the specimen beam between two supports with a choice of fixing methods; simply supported, fixed or propped cantilever.
- One support includes roller bearings to allow horizontal translation.
- A load cell assembly measures and applies force at the mid span of the beam.
- A precision indicator measures the beam deformation.
- It explains how a structural element may fail, but still withstand loads to allow people to safely leave the structure or building.
- The different fixings allow students to predict the position of hinge formation and the loads that will cause failure.
- Students use textbook beam equations and bending moment diagrams to predict the results, comparing them to measured results.
- This helps confirm the reliability of the textbook equations and the accuracy of the experiment results.
- This allows them to appreciate the ratio between yield moment and the fully plastic moment (form or shape factor), showing how this ratio provides an additional safety factor.

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