

**Product Name :**  
Plastic Bending Of Beams**Product Code :**  
GENP0010**Description :**

Plastic Bending Of Beams

**Technical Specification :**

- 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.



## Equipments Exporters

**Website:** [www.equipmentsexporters.com](http://www.equipmentsexporters.com), **Email:** [sales@equipmentsexporters.com](mailto:sales@equipmentsexporters.com)

**Address:** 75, Lajpat Nagar-IV, New Delhi-110024 **Phone:** +91-9311469084