

Product Name :

Deflection of Beams and Cantilevers

Product Code :

SLE/EG/17

**Description :**

- Students apply loads to any position along the beam and measure the resulting deflection, also at any point along the beam.
- They may choose to fit the beams to one support only, forming a cantilever.
- Each support includes pointers that work with the scale on the platform for accurate positioning.
- This product includes a set of beam 'specimens' of different metals and cross-section for comparison of the elastic properties and 'I' value.
- It also allows the student to vary the effective length of the beam to see how this affects the magnitude of deflection for any given load.
- The deflection indicator has its own display, but it can connect to the USB interface hub of the Structures platform for computer display and data acquisition.
- They use textbook beam equations to predict the deflection for any given load and compare the calculated results with the measured results.