



Picture is only for ref. purpose

Features:

- Part of a range of experiment modules for teaching structural principles
- Fits to the **Structures platform** for ergonomic use and space-saving storage
- **Selectable beam fixing conditions** with fully adjustable load and deflection measurement positions
- Includes beams of various **materials and cross-sections** for comparing Young's modulus and Second Moment of Area ('I' value)
- **High-resolution digital deflection indicator** for accurate measurements
- Includes **Vernier caliper** for cross-section measurements
- Supplied with a **storage tray** to keep smaller items safe
- Compatible with **user-friendly VDAS® software**

Learning Outcomes:

- Application of the **beam bending formula** and understanding structural stiffness
- Deflection due to **point loads** and **uniformly distributed loads (UDLs)**
- Influence of beam fixings on deflection:
 - Simply supported beams
 - Fixed or 'encastre' beams
 - Cantilever beams
 - Propped cantilevers
- **Shape of a deflected beam**
- Influence of **beam length, material, and cross-section** on deflection
- **Elastic (Young's) modulus** comparison
- **Second Moment of Area ('I' value)** analysis
- **Pure bending** in a beam

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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- **Reciprocal theorem (Maxwell-Betti)**

TECHNICAL SPECIFICATION

- **Nett dimensions & weight:** 850 mm (L) x 108 mm (D) x 413 mm (H), 8 kg
- **Approximate packed weight:** 10 kg
- **Measurement Tolerance:**
 - ± 10 mm for length (structure platform, bench top, and beam)
 - ± 3 kg for package weight

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