



Picture is only for ref. purpose

Features:

- Part of a range of experiment modules that teach **structural engineering principles**
- Fits to the **Structures platform** for ergonomic use and space-saving storage
- Includes **two portal frames**: one with a **uniform cross-section**, and one with a **non-uniform cross-section**
- Comes with a **Vernier caliper** for cross-section measurement
- Supplied with a **storage tray** to keep smaller components safe
- **Direct reading** of horizontal reaction and fixing moment for simple and fast experimentation
- Compatible with **user-friendly VDAS® software**

Learning Outcomes:

- Measurement of **horizontal reaction and fixing moment** from a varying single point load
- Comparison of **uniform and non-uniform cross-section** portal frames
- **Prediction of sway direction** through shear force analysis
- Application of the **moment distribution method (Hardy Cross)** to calculate:
 - Bending moments
 - Sway magnitude
 - Horizontal support reactions

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



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- Observation of **deflection (sway)** due to:
 - Load asymmetry
 - Structural asymmetry in vertical members
- **Plotting bending moment diagrams**

TECHNICAL SPECIFICATION

- **Nett dimensions & weight:** 660 mm (L) x 100 mm (D) x 320 mm (H), 6 kg
- **Approximate packed weight:** 8 kg
- **Measurement Tolerance:**
 - ± 10 mm for lengths (structure platform, bench top, and beam)
 - ± 3 kg for package weight

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