



THE LAB EQUIPMENT

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Product Name :

Frame Deflections And Reactions

Product Code :

SLE/EG/05



Description :

- Students fit one of a choice of two frames between two supports and apply vertical loads to the beam member.
- Students apply loads to the portal frame.
- They compare predictions to measured and observed results.
- A precision indicator measures any horizontal deflection (sway) at the junction of the beam and the upright.
- Each support includes pointers that work with the scale on the platform for accurate positioning.
- Both frame beams can be loaded anywhere along their length.
- This allows the students to understand the two causes of frame sway other than direct loads.
- This helps confirm the reliability of the textbook equations and the accuracy of the experiment results.
- This product includes a Vernier caliper for accurate measurement of the frame cross-section.
- They use textbook equations and analysis to predict the reaction forces and fixing moments due to the load and whether or not the frame will sway and its magnitude.
- Load cells in the supports measure the bending moment and horizontal reaction at the base of the uprights due to the load.

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