



THE LAB EQUIPMENT

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Product Name :

Unsymmetrical Bending and Shear Centre

Product Code :

SLE/EG/14



Description :

- For shear centre tests, a chuck clamps the 'U' section beam.
- A plate clamped to the free end allows various off set loads to twist the beam.
- For the symmetrical and non-symmetrical tests, a chuck clamps a beam while allowing rotation on its axis and allowing loads to be applied at various angles.
- This product includes a Vernier caliper for accurate measurements of the beam cross-sections.
- Load applied at the free end produce resulting deflections, measured by a pair of precision indicators.
- These may be compared to those for the arbitrary section axes and the values calculated by textbook beam equations.
- This helps to confirm the reliability of the textbook equations and the accuracy of the experiment results.
- Students plot their results on a Mohr's circle which allows them to find the experimental Principal Second Moments of Area and position of the principal axes.
- The deflection indicators have their own displays, but they can connect to the USB interface hub of the Structures platform for computer display and data acquisition.

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