



THE LAB EQUIPMENT

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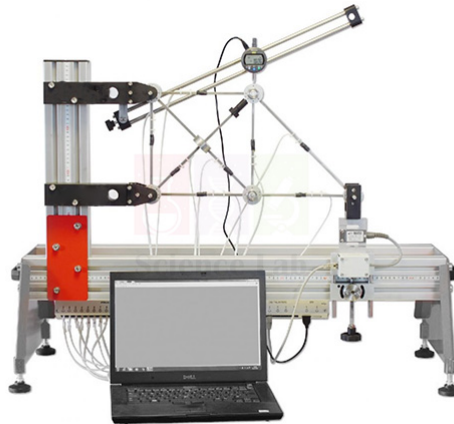
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Product Name :

Redundant Truss Next Generation Structures

Product Code :

SLE/EG/04



Description :

- Two supports hold the truss.
- One support allows rotation only and the other allows rotation and translation.
- Students apply a load to the truss at the free end Joint Boss.
- Strain gauges on each truss member measure the forces due to the load.
- A precision indicator measures the framework deflection due to the load.
- Hand-operated load cell assembly applies and measures the load.
- A simple thumbscrew engages and disengages an extra 'redundant' member.
- Students apply loads to the truss initially without the extra 'redundant' member engaged.
- Students may measure the deflection of the frame for both cases and compare.
- This helps confirm the reliability of the textbook equations and the accuracy of the experiment results.
- They then engage an extra 'redundant' member, making the frame statically indeterminate, requiring a more advanced analysis such as the strain-energy method.
- The strain gauges connect to a strain gauge amplifier, which connects to the interface hub of the Structures platform for computer display and data acquisition.

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