



THE LAB EQUIPMENT

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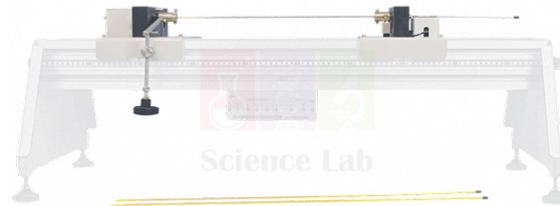
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Product Name :

Torsion of Circular Sections

Product Code :

SLE/EG/15



Description :

- The other chuck connects to a load cell to measure the resulting torque.
- Students apply angular deflection to the specimen using a chuck which includes a precision potentiometer to measure the angular deflection.
- This helps confirm the reliability of the textbook equations and the accuracy of the experiment results.
- It also allows the student to vary the effective length of the rods to see how this affects the magnitude of deflection for a given torque.
- Students use textbook beam equations to predict the deflection and torque relationship and compare the calculated results with the measured results.
- The potentiometer and load cell connect to the USB interface hub of the Structures platform for computer display and data acquisition.
- This product includes a set of rods of different metals and a tube for comparison of the elastic properties, dimensions and polar second moment of area ('J' value).

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