

Product Name :
Twist and Bend Testing Machine

Product Code :
NLAB-TECHNICALAB30029



Description :

Twist and Bend Testing Machine

Technical Specification :

A wide variety of options is available for this bench-top equipment, offering many experiments in strength and resistance of materials.

The test bench has become the standard for a manually operated bench-top tensile-testing machine.

Teaching Objectives of Twist And Bend Testing Machine

The test bench allows a wide range of demonstrations and experiments, including :

Study of stretching :

Measurement of Young's Modulus of Elasticity for three materials.

Effect of cross-section using a light alloy specimen.

Study of bending.

Effect of distance between supports.

Effect of Second Moment of Area.

Effect of choice of material (steel and light alloy).

Technical Specifications of Twist And Bend Testing Machine

The system consists of a bench mounted rigid triangular frame. It allows the determination of tensile performance for 400 mm specimens and of bending performance of beams between 400 and 500 mm centres. The specimens can be deformed up to 25 mm. The applied load is given by the deflection of a loading beam, calibrated at the factory. Extension and deflection of the specimens is measured on dial gauges.

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