

Torsion Testing Machine Apparatus (EDC-SM-125)

EXPERIMENTAL DATA:

- Torsion tests with unlike materials and load until specimen break.
- Limit the bending strength.
- Plot the diagram of twisting moment over twisting angle
- Impact of:
 - specimen material.
 - specimen cross-section.
 - specimen length.



DESCRIPTION:

Apparatus contains a motor driven shaft to twist the specimen until it breaks. A digital display for the measurement of torque applied by the motor.

Torsion testing involves the twisting of a sample along an axis and is a useful test for acquiring information like torsional shear stress, maximum torque, shear modulus, and breaking angle of a material.

Optional Software is available for Data Acquisition and Control Function.

SPECIFICATIONS:

- Torsion test for different material.
- Long and short specimen of brass, steel and aluminium.
- Twisting angle measure by the encoder.
- LCD display for angle and torque.

DIMENSIONS AND WEIGHT:

- L x W x H (mm): 1200 X 600 X 500 approx.
- Weight: 65 kg approx.

SCOPE OF DELIVERY:

- 1 x EDC-SM-125.
- 1 x Instructional Manual.

TECHNICAL DATA:

- Maximum torque 200Nm.
- Specimens:
 - diameter: 6mm.
 - 4x 75mm, brass.
 - 4x 75mm, steel.
 - 4x 75mm, aluminium.
 - 2x 175mm, steel.
 - 2x 350mm, steel.
 - 2x 700mm, steel.
- 230V, 50Hz, 1 phase.

