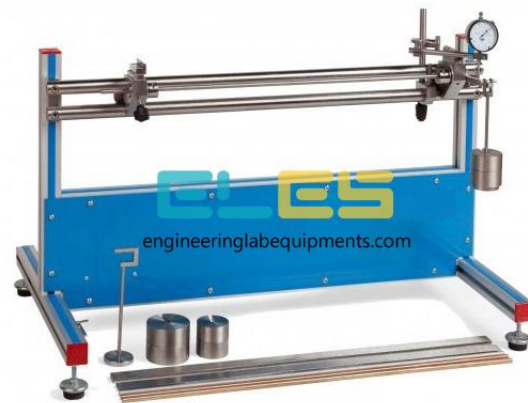


**Product Name :**  
Torsional Vibrational Apparatus

**Product Code :**  
ENGLABINGCAG2900025



**Description :**

Torsional Vibrational Apparatus

**Technical Specification :**

Vibrations are transmitted into the torsion specimen by means of an exciter, which is electronically speed controlled from the main control unit.

To change the end conditions of the apparatus a fifth chuck houses a chuck which rigidly clamps the end of the torsion specimen to achieve a fixed end.

Also supplied with the apparatus is a manual torsion arrangement, which allows a known angular twist to be applied to the specimen.

A cord is wrapped around one of the large discs and a load is applied via a hanger and weights set.

The angle of twist for incremental loading is recorded and the modulus of rigidity can be calculated.

Oscillations sensors are mounted integrally with each mass pillar and provide signals of the amplitude of vibration.

The control unit conditions these signals and makes them available to an oscilloscope (not supplied) for vibration analysis.

Unit for investigating torsional vibration and torsional stiffness.

Observation of resonance, phase change.

To be made from profiled aluminum with levelling feet at each corner.

To have steel torsion bar, corrosion-resistant, 1300mm long,  $\text{Ø}6\text{mm}$  with torsional mass discs of  $\text{Ø}150\text{mm}$  and  $\text{Ø}228\text{mm}$ .

To have speed-controlled exciter with drive crank.

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Angular movement of shaft recorded using oscillation sensors.

Electronic exciter control unit with digital display.

Torsion arrangement for modulus of rigidity experiments.

4 movable chuck pillars with integral bearings, the bearing units can be positioned as required.



## Engineering Lab Equipment India