

TOM-001 **VIBRATION SETUP**





RANGE OF EXPERIMENTS TO BE CARRIED OUT:

a. Pendulum Experiments:

- i. Simple Pendulum.
- ii. Compound Pendulum.
- iii. Bi-filler Suspension.

b. Longitudinal Vibration Experiment.

- i. Spring Mass System.
- ii. Equivalent Spring Mass system for study of undamped free vibration.

c. Torsional Vibration Experiment.

- i. Single Rotor System.
- ii. Two Rotor System.
- iii. Single Rotor with viscous damping.

d. Damped Vibration Experiment.

- i. Verification of Dukerleys Rule.
- ii. Forced rotor with viscous damping along With frictional HP Motor Strip chart recorder & control unit.

TECHNICAL DESCRIPTION :

The present equipment perform 11 no of experiments. All experiments are fixed on a single frame with all accessories. The strip chart recorder provided for graphical representation. An autotransformer is provided for motor producing vibration excitations. RPM Indicator provided for speed measurement.

DIMENSIONS AND WEIGHT :

Size :2.0 m.(L)x 1.5 m(W) X 1.5m (H)

Weight :Approx. 100 Kg

SERVICE REQUIRED :

230 v Ac Supply 50 Hz

SCOPE OF DELIVERY:

1. Experimental Setup
2. Instructional Manual

OPTIONAL FACILITY: Data logging Facility