

Universal Vibration Trainer Apparatus (EDC-TM-134)

EXPERIMENTAL DATA:

- Damped and undamped resonance.
- Absorber effect in multi-mass oscillators.
- Experiments with pendulums:
 - Kater's pendulum.
 - Reduced pendulum length.
 - Spring-mass system.
- Bar-type oscillator:
 - Undamped oscillation.
 - Damped oscillation.
 - Forced vibration.



DESCRIPTION:

Universal Vibration trainer cover many topics from the field of vibration theory through experimentation. Simple pendulum-swinging forced vibrations with resonance to vibration absorption topic can also studied using this trainer. Other accessories also available for more experimentation. A drum recorder is attached with the trainer to study the effect of vibration.

Optional Software is available for Data Acquisition and Control Function.

SPECIFICATIONS:

- Study of damping, resonance, dual mass system and vibration absorption.
- Pendulum oscillators, bar oscillators and spring mass oscillator.
- Adjustable oil damper.
- Electrically operated drum recorder.

TECHNICAL DATA:

- Rigid beam, Elastic beam.
- Tension pressure spring:
 - 0.75N/mm, 1.5N/mm, 3N/mm.
- Imbalance exciter:
 - 0 to 50Hz.
- Oil damper: 5 to 15Ns/m.
- Drum recorder: 20mm/s, width 1000mm.
- Absorber: adjustable 5 to 50Hz.
- Polar chart recorder: 100mm.
- 230V, 50Hz, 1 phase.

DIMENSIONS AND WEIGHT:

- L x W x H (mm): 450 X 1200 X 1200 approx.
- Weight: 35 kg approx.

SCOPE OF DELIVERY:

- 1 x EDC-TM-134.
- 1 x Instructional Manual.

