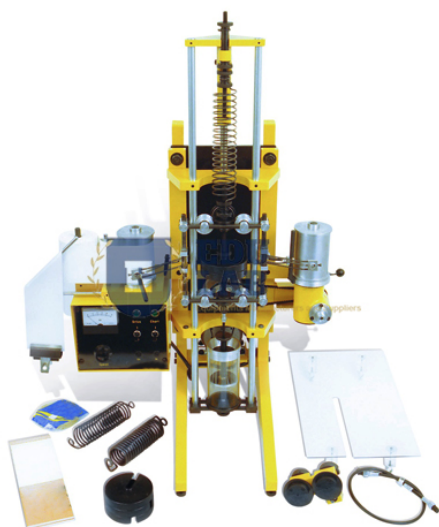


**Product Code . EL-EELE-11359**

## Free & Forced Vibration Apparatus



### Description

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#### Free & Forced Vibration Apparatus

Vibrations induced by a periodic displacement of the point of support of the spring. In this experiment a connecting rod, driven by an eccentric, imparts a such that on revolution of the eccentric is equal to one revolution of the phase recorder. Vibrations induced by applying a periodic disturbing force to the mass. In this experiment the exciter unit is driven from a gearbox via a flexible coupling such that one revolution of the contra rotating discs is equal to one revolution of the phase recorder. Vibrations induced by applying a periodic disturbing force to the mass.

#### Technical specifications:-

- Two methods of exciting forced vibration are adopted; either by oscillating the upper spring mounting with SHM at variable frequency or by applying a rotating out balance force at variable frequency to the vibrating mass.
- The use of so called “Black Boxes” has been avoided, a feature welcomed by most teachers.
- Simple adjustments can be made to the apparatus and the motion of the mass can be readily observed and recorded on the two pen recorders provided.
- Adopting the well tried features of the simple Vibration Apparatus, the mass carriage is constrained by rollers on vertical guide ways to provide minimum uncontrolled damping.
- Two pen recorders are provided, a continuous paper recorder for amplitude and frequency

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measurements and a rotating drum recorder for amplitude and phase measurements.

- Variable viscous damping is provided by an oil dashpot.
- Experiment manual.

#### Dimensions and weight

- 880 x 580 x 1240 mm.
- Net Weight : 75 kg.

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