

Product Name :
Universal Vibration System**Product Code :**
ALABS-A167-123**Description :****Universal Vibration System**

The trainer covers a wide range of topics in mechanical vibration technology. It is mounted on a sturdy, low-vibration frame which is installed on a laboratory trolley with braked wheels. Quick fastening elements for the formed grooves for quick and accurate experimental set-up. Forced vibration is generated with an electrical motor-driven imbalance exciter. The exciter frequency can be set precisely on a control unit with digital display. An oil damper is used for vibration abatement. A bar-type oscillator that can be adjusted with weights is included for absorber experiments. A mechanical drum and a polar diagram recorder record the vibration. The single parts are stored in the protective storage compartments of the laboratory trolley.

Specification:

1. Instructional and experimental vibration system, experiments on damping, resonance, two-weight system and vibration absorption
2. 6 pendulum oscillators, 2 bar-type oscillators, 1 spring-mass oscillator
3. Electrical imbalance exciter

4. Electronic exciter control unit with digital frequency display and TTL output for triggering external units
5. Adjustable absorber with leaf spring
6. Oil-filled damper

Technical Data:

- Bar, rigid: LxWxH: 700x25x12mm, 1,6kg
- Bar, flexible: LxWxH: 25x4x700mm, 0,6kg
- Tension / compression springs

- 0,75N/mm

- 1,5N/mm

- 3,0N/mm

Imbalance exciter

- 0...50Hz

- 100cmg

- Oil-filled damper: 5...15Ns/m

Absorber

- leaf spring, wxh: 20x1,5mm

- total weight: approx. 1,1kg

- adjustable 5...50Hz

- Groove width of frame: 10mm

- Drum recorder: 20mm/s, width 100mm

- Polar diagram recorder: D=100mm



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