

Product Name :
Free and Forced Vibration Apparatus

Product Code :
TM 155



Description :

Free and Forced Vibration Apparatus

- [1] Basics of mechanical vibration, natural damped and forced vibrations
- [2] Bar-type oscillator
- [3] Three helical springs
- [4] Unbalance exciter with DC motor, 0.77kg
- [5] Displacement exciter with DC motor
- [6] Electronic control unit with digital display, exciter frequency adjustable
- [7] Oil-filled damper
- [8] Electrically driven drum recorder
- [9] Amplitude meter with electric contact for triggering equipment
- [10] Storage system to house the components

Technical Data

Bar-type oscillator: l x w x h: 700x25x12mm, 1.6kg

Helical springs

- 0.75N/mm

- 1.5N/mm

- 3.0N/mm

Exciter frequency: 0...50Hz, electronically controlled

Unbalance of the unbalance exciter: 0...1000mmg

Stroke of the displacement exciter: 20mm

Damper constant: 5...15Ns/m, oil-filled

Mechanical chart recorder

- feed: 20mm/s

paper width: 100mm

Dimensions and Weight

l x w x h: 1000x420x900mm

Frame opening w x h: 870x650mm

Weight: approx. 52kg

Connections

230V, 50/60Hz, 1 phase or 120V, 60Hz/CSA, 1 phase (exciter control unit)

Scope of Delivery

1 frame

1 bar-type oscillator

3 helical springs

1 unbalance exciter

1 displacement exciter
1 exciter control unit
1 damper
1 amplitude meter
1 drum recorder
1 storage system
1 manual



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