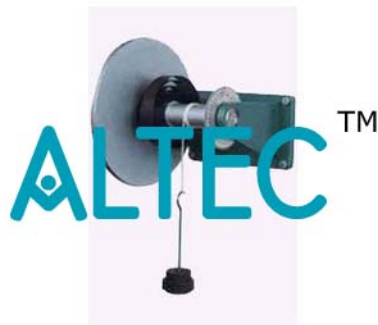


Product Name :
Vibration of Spiral Spring Apparatus**Product Code :**
ALABS-A167-131**Description :****Vibration of Spiral Spring Apparatus**

A spiral spring made of cold rolled steel is clamped between a ball bearing mounted shaft and a fixed bracket. Two levers are fitted to the shaft diametrically opposite each other. Two sliding weights of metal on the levers can be securely fixed in position using clamping screws. These form the rotating mass with an adjustable moment of inertia. The system is displaced by hand. The angle of rotation is read off on a 1° scale disc that is also attached to the shaft. The unit is intended for wall mounting.

Specification:

1. Investigation of vibrations on a spiral spring-rotating mass system
2. Axis mounted on ball bearings
3. 2 levers with sliding weights
4. Spiral spring

5. Integrated angle measuring scale mounted on axis

6. Wall mounting plate made of anodised aluminium

Technical Data:

Spiral spring

- stiffness: $c=238\text{Nmm}$

- cross-section: 10x1mm

- effective length: approx. 800mm

- inside radius: 10mm

- outside radius: 50mm

Weights made of stainless steel

- mass: 0.5kg

- diameter: 50mm

Levers made of stainless steel

- diameter: 8mm

- length: 154mm

- arm radius of the rotating mass: 36...150mm

Angle measuring scale

- 0...360°

- resolution: 1°

Base plate

- wxh: 200x250mm



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