

Product Name :
Vibration Of Spiral Spring Apparatus

Product Code :
APE-0027



Description :

Vibration Of Spiral Spring Apparatus

Technical Specification :

This unit is designed to determine the time period of spiral spring and its frequency. Spiral spring is a type of spring which is formed by a metallic strip wound around a rod at same point.

The apparatus consists of a shaft on which the spiral spring is attached. A metallic rod, containing masses at its edges, is used to deflect the shaft. The deflection can be measured through a protector

and the extent to which the spring was deflected initially can also be found.

Specifications:

- [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: $c=238\text{N/mm}$
- cross-section: $10\times 1\text{mm}$
- 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: $36\ldots 150\text{mm}$

Angle measuring scale

- $0\ldots 360^\circ$
- resolution: 1°

Base plate

- wxh: 200x250mm

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