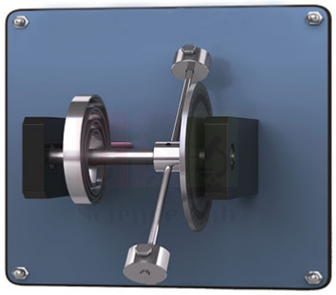
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Product Name :

Vibration Of Spiral Spring Apparatus

Product Code :

SLE/MCE/32



Email : sales@scilabexport.com
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Description :

Vibration Of Spiral Spring Apparatus (Product Code: SLE/MCE/32) is a wall-mounted torsional oscillator used to study the stiffness and free vibration of a flat spiral spring in theory of machines and mechanical engineering laboratories. Its spring has a listed stiffness of 238 Nmm and a 10 x1 mm cross-section, and two levers with sliding weights let students change the rotating masswhile an integrated 360° scale reads the deflection. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Spring stiffness	c = 238 Nmm
Spring cross-section	10 x 1 mm
Effective spring length	Approx. 800 mm
Inside radius	10 mm
Outside radius	50 mm
Mass	0.5 kg
Diameter	50 mm
Axis	Mounted on ball bearings
Levers	2 levers with sliding weights
Deflecting element	Metallic rod carrying masses at its ends
Angle measuring scale	Integrated on the axis, 360°, resolution 1°
Mounting	Wall mounting plate of anodised aluminium
Base plate (w x h)	200 x 250 mm
Product code	SLE/MCE/32
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Spiral Spring Vibration Apparatus Used For?

The practical runs in two stages. In the static stage, the metallic rod with its end masses applies a moment that turns the shaft against the spiral spring, and the angle scale shows the resulting deflection, so students can calculate the spring stiffness and read how far the spring was deflected initially. In the dynamic stage the rod is released, the spring-mass system oscillates freely, and the timed period is compared with the value predicted from stiffness and moment of inertia.

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