Product Name : Coil Spring Vibrations

Product Code : TN131



Description :

Coil Spring Vibrations

Technical Specification :

Coil Spring Vibrations

In helical springs, the spring force is generated by the elastic deformation of a metal band wound in an Archimedean spiral. If a mass is attached to the spring, we refer to it as a spring–mass system. The resistance that the spring presents opposite of the elastic deformation is known as spring stiffness. It is a characteristic variable of the spring.

The unit is perform the following experiments and investigations:

Learning Objectives / Experiments:

Determine the rigidity of a helical spring

Determine the natural frequency of a spring-mass system

Investigate the effect of mass and mass distribution

Specification:

Investigate vibrations on a spring-mass system Lever with sliding mass to deflect the helical spring Adjustable distance of the mass to the rotation axis Angle scale for reading the angle of deflection Stopwatch to measure the oscillation period Determine the natural frequency and the spring stiffness Bracket for wall mounting Technical Data: Helical spring Cross-section: 10x1mm Spring length: 800mm Inner radius: 10mm Outer radius: 50mm Winding distance: 8,5mm Sliding mass: 2x 0,5kg Distance from mass to rotation axis 36...150mm Deflection angle Max. 360° Graduation: 1° Stopwatch: 1/100s **Dimensions and Weight** Length x Width x Height: 250x200x360mm Weight: 6kg

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