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Product Name :
Extension Of Springs Apparatus

Product Code :
LBNY-0005-17600026



Description :

The Extension of Springs Apparatus is designed to be mounted to a rigid vertical support approximately 1.5 metres above floor level. It is used to test tension springs up to 200mm in length. The maximum spring diameter is 38mm. Applications of Extension of Springs Apparatus are found in spring balances which indicate loads by measuring spring deflections and in car suspensions where they absorb energy caused by wheel vertical movement due to potholes and bumps.

Experimental Capabilities:

Using the optionally available spring set Extension of Springs Apparatus the dependence of spring stiffness on the wire diameter, spring diameter, length, number of turns and material can be calculated
To test the relationship between the load applied and the change in length of a spring
To determine spring stiffness using measured spring data and load versus extension graphs.
Creating load versus extension graphs and extracting key elements.
Comparison with theoretical estimates and manufacturers data.
Working with springs.

Technical Specification :

Single coiled extension spring supplied, with looped ends
Integral Extension scale and indicator for accurate Extension measurements
Determination of spring stiffness through load/extension testing
Wall mounted compact unit to test springs up to 200mm long and 38mm diameter
Calibrated weights set and load hanger supplied.



Laboratory Instrument India