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Product Name :

Hook's Law And Spring Rate

Product Code :

SLE/ETP/04



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Description :

Hook's Law And Spring Rate (Product Code: SLE/ETP/04) is a spring testing apparatus used to verify Hooke's law and find the spring rate of extension springs in physics and engineering laboratories. A compact metal frame with adjustable feet carries a metric scale on each side ofthe slot where the test spring hangs, and a set of extension springs is supplied, making it apractical Hooke's law spring kit. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM technical educational equipment manufacturer, at its own factory in Ambala, India.

Key Details

Parameter	Detail
Frame	Compact metal frame with adjustable feet for levelling
Scales	Metric scale on each side of a large slot where the test spring hangs
Test method	Variable mass and scale measurement
Springs supplied	A set of extension (tension) springs
Storage	Storage area at the back of the frame for springs and masses
Typical uses	Teaching spring properties and basic physics laws; workshop checks of springs before or after use
Product code	SLE/ETP/04
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Spring Testing Apparatus Used For?

The method is deliberately simple. Level the frame with its feet, hang a spring in the slot and note its starting position on the scale, then add masses one at a time and read the new position after each. Plotting the load against the extension gives a straight line for as long as the spring behaves elastically — Hooke's law — and the slope of that line is the spring rate, the force needed for each unit of stretch.

Because several extension springs are supplied, students can compare spring rates across different spring sizes and work out the basic rules of spring design for themselves. The same frame earns its place in a workshop too, where a spring can be checked before it is fitted or after it has been in service to see whether it has lost stiffness. Return springs and masses to the storage area at the back after each class.

What to Specify When Ordering

- The number of apparatus sets, based on how many student groups work at once
- Whether you need a set of masses quoted with it — ask us to confirm what is packed
- Any additional springs you would like to discuss for comparison tests

OEM

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