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Product Name :

Youngs Modulus Apparatus

Product Code :

SLE/MCE/31



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Description :

Youngs Modulus Apparatus (Product Code: SLE/MCE/31) is a wire-extension apparatus used to find the relationship between the load on a wire and its resulting extension, and from it Young's modulus, in physics and engineering laboratories. Students read the extension on an engraved brass 0 to 30 mm scale with a movable vernier readable to 0.1 mm, while a ceiling clamp holds the wires from an overhead beam. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Purpose	Relationship between load applied to a wire and the resultingextension
Scale	Engraved brass scale plate, 0 to 30 mm
Vernier	Movable vernier, readable to 0.1 mm
Wire clamping	Scale plate and vernier each have bars with clamping screws for the wires
Hooks	For the tension weight and the loading masses
Tension weight	Mass about 1.3 kg, supplied with the apparatus
Ceiling clamp	Holds the upper ends of the wires; a pair of large wood screws fixes it to an overhead beam, door frame or similar
Product code	SLE/MCE/31
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Youngs Modulus Apparatus Used For?

Two wires hang side by side from the ceiling clamp, one carrying the scale plate and the other the vernier. The tension weight keeps the wires taut, and as loading masses are added to the test wire its end moves down against the scale, so the vernier gives the extension directly to 0.1 mm. Because both wires share the same support and surroundings, sagging of the support or temperature drift affects both equally and largely cancels out.

Add masses in equal steps, wait a moment for each reading to settle, and take readings again while unloading to check the wire stayed elastic. Measure the wire diameter at several points and its length from the clamp, then plot load against extension; the slope gives Young's modulus. It is a staple of physics lab equipment in India for both school and first-year engineering practicals.

What to Specify When Ordering

- Number of sets for your practical groups
- Test wires (material and diameter) you would like quoted, as wires are not listed with the
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