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Product Name :

Apparatus Bar & Gauge

Product Code :

SLE/PHY/05



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Description :

Apparatus Bar & Gauge (Product Code: SLE/PHY/05) is a heat-expansion demonstrator used to show that a solid grows when heated and shrinks when cooled, in school and college physics classes. An iron bar 108 mm long and 12.7 mm in diameter just fits the cut-out and hole of abrass gauge when cold, and stops fitting once heated. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Purpose	Illustrates expansion by heat and contraction by cooling
Overall length	Approx. 225 mm
Bar	Iron, 108 mm long × 12.7 mm diameter
Bar mounting	On a support rod fitted with a wooden handle
Gauge	Brass, 150 × 38 mm
Gauge openings	A cut-out that just admits the bar lengthways and a hole that passes the bar endways when cold
Product code	SLE/PHY/05
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Bar and Gauge Apparatus Used For?

The demonstration takes a few minutes and needs only a flame. At room temperature, students check that the bar slides lengthways into the cut-out and passes endways through the hole. The bar is then heated in a burner flame and tried again: it no longer enters either opening, showing that both its length and its diameter have increased. As it cools, or is dipped in cold water, it fits once more, proving the change is reversible.

Because a length gauge and a diameter gauge share one brass plate, the apparatus shows linear expansion and expansion in cross-section in the same lesson, a natural lead-in to the coefficient of linear expansion and to everyday cases such as gaps in railway lines. It is a staple of the physics practical equipment CBSE and state-board schools use when teaching thermal properties of matter. Hold the bar only by its wooden handle while heating, rest it on a heat-proof mat afterwards, and let students handle the gauge only once it has cooled.

OEM Manufacturer

The Apparatus Bar & Gauge comes from **Jain Scientific Equipments Private Limited**, trading as ScienceLab, which is the OEM (original equipment manufacturer) of this item. It is manufactured at the company's licensed factory at Saha, Ambala, Haryana, India, and reaches schoo s or a rep

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