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Product Name :

Bar & Gauge Apparatus

Product Code :

SLE/PHY/135



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Description :

Bar & Gauge Apparatus (Product Code: SLE/PHY/135) is a heat-expansion demonstrator used to test an iron bar against a brass gauge before and after heating, in school and college physics labs. The gauge has a cut-out that barely admits the cold bar lengthways and a hole that passesit endways only while cold, so a heated bar visibly fails both checks. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Key Details

Parameter	Detail
Bar	Iron, mounted on a support rod with a wooden handle
Gauge	Brass, with a lengthways cut-out and an endways hole
Fit when cold	Cut-out barely admits the bar lengthways; hole passes the bar endways
Fit after heating	The heated bar is compared with the gauge to show that it has expanded
Demonstrates	Expansion by heating and contraction by cooling
Product code	SLE/PHY/135
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Bar and Gauge Used For?

Because the gauge checks the bar in two directions, the bar and gauge shows students that heating makes a solid grow in length and in thickness at the same time. A typical sequence is to test both fits while the bar is cold, heat the bar in a Bunsen flame, show that it no longer enters the cut-out or the hole, and then cool it and show that it fits again.

Many schools group it with a ball and ring and a bimetallic strip as a simple heat energy science kit for the thermal-expansion lesson. Hold the apparatus only by the wooden handle, never force a hot bar into the gauge, and rest the heated iron on a heat-proof mat while the class discusses the result.

OEM Manufacturer

Jain Scientific Equipments Private Limited, which trades as ScienceLab, is the original equipment manufacturer (OEM) of the Bar & Gauge Apparatus. Each unit is built at the company's own licensed factory at Saha, Ambala, Haryana, India, so buyers deal with the maker directly instead of a reseller. Schools, colleges, institutions, dealers and importers can ask us about repeat orders and replacement gauges or bars. Company background is on the ScienceLab profile page.

Related Physics Lab Equipment

Pair the bar and gauge with these items for a complete expansion practical:

- and

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