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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:

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