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Product Name :

Expansion Apparatus

Product Code :

SLE/H/17



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Description :

Expansion Apparatus (Product Code: SLE/H/17) is a piece of physics lab equipment in Indiathat demonstrates the linear expansion of solids by turning a very small change in a bar's lengthinto a visible pointer movement. An expansion bar sits across the top of two cast-metal uprights:one end is fixed, the other rests beneath a friction pointer that moves along a scale reading 0 to90 as the bar lengthens. It is used in school and college heat lessons, and it is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, a physics instruments supplier toinstitutions in India and international markets.

Specifications

Parameter	Detail
Purpose	Demonstrates the linear expansion of solids
Frame	Two cast-metal uprights linked by a pair of parallel plated metal support rods
Expansion bar	Supported at the top; fixed to one upright and resting beneath a friction pointer on the other
Indicator	Friction pointer moving along a scale
Scale reading	0 to 90

Typical Use

With the pointer noted at its starting position, the teacher warms the expansion bar with a flame moved steadily along its length. Because one end of the bar is held fast, all of the lengthening appears at the free end, which drags the friction pointer across the 0 to 90 scale. Students record the pointer movement as heating continues and then watch it respond again as the bar cools and contracts. The demonstration makes a good starting point for discussing why railway lines, bridges and pipelines are designed with room to expand.

The cast uprights and paired support rods keep the bar steady during heating, so the reading reflects expansion rather than wobble. Heat evenly rather than at one spot, allow the bar to cool completely before handling it, and keep the scale area free of soot for clear readings. As a demonstration model for the physics lab it works well at the front bench, where the pointer can be seen by a group gathered around it.

Manufacturer

Jain Scientific Equipments Private Limited manufactures the Expansion Apparatus in Ambala, Haryana, and markets its equipment under the **ScienceLab** name to schools, colleges and distributors. Visit our company profile for an overview of the business.

Related Laboratory Equipment

Apparatus that extends a thermal-expansion lesson: