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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) demonstrates the linear expansion of solids by turning a very small change in a bar's length into 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 to 90 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 to institutions 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:

- [Bu](#)
- [Ex](#)
- [Ap](#)
- [Co](#)
- [diff](#)

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