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Product Name :

Lever

Product Code :

SCL-121/01h



Science Lab

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Description :

Lever (Product Code: SCL-121/01h) is a 400 mm graduated wooden bar that pivots on a central rotation axis, used to demonstrate the principle of moments and the conditions for equilibrium. A row of small holes along its centre line lets students hang loads at precise distances from the pivot, and adjusting nuts at each end let the empty bar be balanced first. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India, for the physics lab equipment India schools and colleges need for mechanics.

Specifications

Parameter	Detail
Material	Wooden bar
Length	400 mm
Cross-section	Minimum 30 x 4 mm
Rotation axis	Median (central) axis, minimum diameter 4 mm
Holes	2 mm diameter holes every 15 mm along the median line
Graduation	Every 5 mm
Balancing	Nuts at both ends for balancing the lever

Typical Use

Mount the lever on its axis, then turn the end nuts until the unloaded bar rests horizontal; this removes the bar's own weight from the calculation. Hang a mass from a hole on one side, balance it with masses on the other, and read both distances from the 5 mm graduations. Students quickly find that load times distance on the left equals load times distance on the right, and can go on to test first-, second- and third-class lever arrangements.

Used as a simple center of gravity apparatus India teachers can set up in minutes, the bar also shows what happens when the balancing nuts are deliberately moved off-centre: the bar tilts until a compensating load is added. Replacing one set of masses with a force meter lets classes measure an unknown force from its moment.

Manufacturer

From its base in Ambala, Haryana, Jain Scientific Equipments Private Limited manufactures the lever and sells it under its ScienceLab trade name to schools and laboratory suppliers. The company profile explains more about the business.

Related Lab Equipment

These items are needed, or useful, when running moments experiments with the lever:

- Set Of Marked Masses — hooked masses to hang from the lever's holes.
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