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Product Name :

Vernier Travelling Microscope

Product Code :

SLE/M/132



Description :

Vernier Travelling Microscope (Product Code: SLE/M/132) is a measuring microscope mounted on vernier-scaled horizontal and vertical slides, used to measure very small lengths in collegeand school physics practicals. Its heavy cast iron base with three levelling screws carries slideswith 180 mm horizontal and 140 mm vertical travel, read to 0.02 or 0.01 mm. This physics lab instrument is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Base	Heavy cast iron with a machined upper surface, fitted with threelevelling screws
Scales	Horizontal and vertical scales of brass steel
Vernier reading	0.02 mm or 0.01 mm
Slide travel	180 mm horizontal; 140 mm vertical
Carriages	Metal carriage sliding on the base; vertical slide of similar action on the horizontal carriage; each clamped at any position by a clamping screw
Microscope	Rack and pinion, achromatic lenses; mounted on the vertical carriage and can be clamped in a vertical or horizontal position
Stage	For placing objects for measurement, fitted with an acrylic (perspex) plate
Case	Polished wooden case
Product code	SLE/M/132
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Travelling Microscope Used For?

A travelling microscope measures lengths too small or delicate for a ruler or caliper: the bore of a capillary tube in surface-tension experiments, the diameters of Newton's rings, the real and apparent depth of a glass slab for refractive index, and the width of fine wires or slits. The microscope is focused on one edge of the feature and the scale is read, then it is traversed to the opposite edge and read again; the difference between the two readings is the length.

Level the base with the three levelling screws before starting, and lock each slide with its clamping screw once it is roughly in place so the reading cannot drift. Approach every final setting from the same direction to avoid backlash, and read the vernier with your eye square to the scale. Because the microscope can be clamped vertically or horizontally, one instrument covers both depth readings and horizontal width readings.

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