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Product Name :

Travelling Beam Device

Product Code :

SLE/CE/87



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Description :

Travelling Beam Device (Product Code: SLE/CE/87) is a wheeled 3 m profile beam used to detect surface irregularity of concrete and asphalt road pavements in construction checks and highway engineering practicals. A middle wheel measures vertical deviation from the linebetween the two end wheels, up to ±25 mm, and a recording unit draws a graph of the deviations.It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM supplying engineering educational equipment in India, at its own factory in Ambala.

Specifications

Parameter	Detail
Purpose	Detecting road surface irregularity on concrete or asphalt pavements
Construction	Beam with rigid wheels at both ends and a measuring wheel at the middle
Beam length	3 m
Measurement	Vertical deviation of the surface from the straight linebetween the end wheels
Scale	2 mm increments up to 10 mm; 5 mm increments from 10 to 25 mm
Maximum vertical deviation	±25 mm
Recording	Supplied complete with recording unit to obtain a graph of vertical deviations
Weight	Approx. 55 kg
Product code	SLE/CE/87
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Travelling Beam Device Used For?

How smoothly a road rides depends on how regular its surface is along the direction of travel. The travelling beam is pushed along a lane: its two end wheels set a 3 m reference line, while the middle wheel rises over bumps and drops into dips. The movement is shown on the scale and traced by the recording unit, so the graph reveals exactly where the surface departs from a true line and by how much.

Because it rolls continuously, the beam surveys a whole length of new pavement in one pass instead of one spot at a time. Use it on freshly laid layers before acceptance, and on existing roads for condition surveys. Keep the wheels clean of bitumen and grit, check the scale reading on a flat reference surface before starting, and move the approx. 55 kg beam with two people.

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