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Product Name :

Inclined Plane With Accessories

Product Code :

SCL-871/01g



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Description :

Inclined Plane With Accessories (Product Code: SCL-871/01g) is a polished woodentribometer board, 900 mm long, with a metal pulley at one end and a drilled wooden bar thatslides along it. Students use it to study friction, forces on a slope and the mechanical advantageof an inclined plane. Schools use this inclined plane apparatus in mechanics practicals. It is madeby a scientific instruments manufacturer in India, **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India.

Specifications

Parameter	Detail
Plane (tribometer)	Polished wood, coniferous species, without stubs (knots)
Plane dimensions	Length 900 mm, width 100 mm, thickness 25 mm
Mounting	Fixing element for attaching to a stand
Pulley	Metal pulley at one end, maximum diameter 40 mm, thickness 4 mm
Accessory bar	One wooden bar, minimum 30 x 40 x 120 mm
Bar holes	Three blind holes of 10 mm diameter, drilled to the middle of the body, symmetrically distributed on each of two adjacent sides
Bar hook	Hook in the middle of the small side

Typical Use

Laid flat on the bench, the board acts as a friction track: hook a force meter to the wooden bar and pull it along at a steady speed to measure sliding friction, then turn the bar onto its other face to compare contact areas, or add masses to see how friction grows with the normal force. Because the bar has holes on two adjacent sides, students can load it evenly in more than one orientation.

Raised on a stand through its fixing element, the board becomes an inclined plane. Tie a thread from the bar's hook over the end pulley to a hanger of masses and you have a simple pulley system lab India teachers use to show the force needed to hold or raise a load up a slope. Gradually tilting the plane until the bar just starts to slide is also a neat way to estimate the coefficient of static friction from the angle.

Manufacturer

Jain Scientific Equipments Private Limited, which trades as ScienceLab in Ambala, Haryana, manufactures the inclined plane and its accessory bar for school physics departments. The company is a registered MSME enterprise (Udyam UDYAM-HR-01-0003714) and handles export shipments under Importer-Exporter Code AAECJ8618A issued by the DGFT. See the company profile for more.

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