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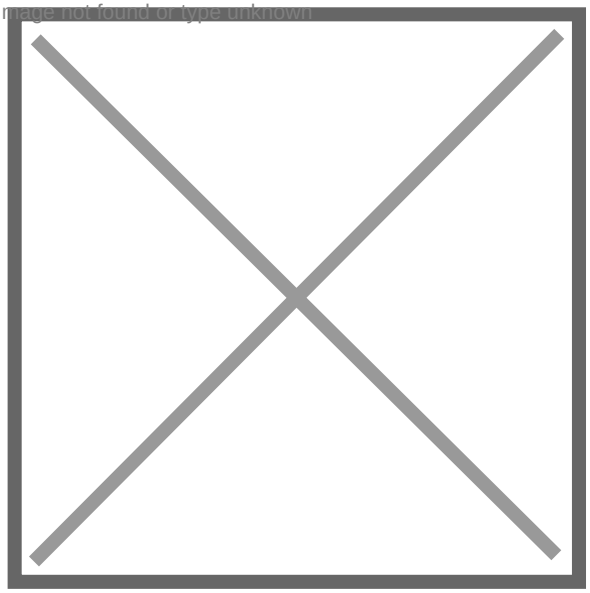
Product Name :

Inclined Plane with Roller & Pan

Product Code :

SCL220/010

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Description :

Inclined Plane with Roller & Pan (Product Code: SCL220/010) is a hinged inclined plane usedto study forces along a slope and find coefficients of friction between materials in physics labs. Its aluminium plane measures 600 x 100 mm, an arch scale sets the incline from 0° to 45° in 1° steps, and a cylindrical metal roller, scale pan with cord, trolley and pulley are included. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer of mechanics lab equipment in India, at its own factory in Ambala.

Specifications

Parameter	Detail
Inclined plane	Aluminium, 600 x 100 mm (L x W), hinged to the base board
Base board	600 x 100 mm (L x W); listed as aluminium, and a wooden base is also described — confirm when ordering
Angle scale	Arch scale mounted on the base board, 0° to 45° in 1° divisions
Accessories	Cylindrical metal roller, scale (weight) pan with cord, trolley, pulley
Purpose	Demonstrating the composition of a force; determining coefficients of friction between different materials
Product code	SCL220/010
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Inclined Plane Used For?

For the force experiment, the plane is raised to a chosen angle on the arch scale and the roller is placed on it. A cord from the roller runs over the pulley to the scale pan, and masses are added until the roller stays still; the load in the pan then balances the component of the roller's weight acting down the slope, which students compare with the value from W sin?.

For friction, a block of wood, metal or another material is placed on the plane and the angle is increased slowly until the block just starts to slide; the tangent of that angle gives the coefficient of static friction. This makes it a practical inclined plane apparatus for friction experiments in senior secondary physics. Keep the plane surface clean and dry between tests so results stay comparable.

What to Specify When Ordering

- Base type — confirm whether you need the aluminium base board or the wooden base described in the listing.
- Number of sets for your lab benches.
- Masses for the scale pan and blocks of different materials, if they should be quoted with the plane.

OEM

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