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Product Name :

Friction Slide Apparatus

Product Code :

SLE/MCE/24



Description :

Friction Slide Apparatus (Product Code: SLE/MCE/24) is a bench-top inclined-plane apparatus used to measure the coefficient of friction between pairs of materials in mechanics and theory of machines laboratories. Its ground steel plane locks at any angle within ±45° on a protractor scale, and two composite slider trays let students compare aluminium, steel, nylon and brass surfaces.It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at itsown factory in Ambala, India.

Specifications

Parameter	Detail
Construction	Compact bench-top unit with sturdy aluminium base plate, non-slip feet and central vertical pillar
Plane	Ground steel plane pivoting on the base
Angle range	Lockable at any angle between ±45°
Angle indication	Semi-circular protractor scale
Slider trays	Two composite trays: one with aluminium and steel faces, one with nylon and brass faces
Loading	Weight hanger with added weights; trays also accept additional weight
Cord guidance	Hanger cord passes over a pulley and bearing that reduce friction for accurate results
Product code	SLE/MCE/24
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Friction Slide Apparatus Used For?

Each slider tray is tied to a weight hanger by a cord that runs over the pulley, and weights are added until the tray just begins to slide up the steel plane. The hanging load at that moment, compared with the tray's weight and the plane angle, gives the coefficient of static friction for that material pair. Loading extra weight into the tray shows students that friction force rises in proportion to the normal force.

Because the plane locks anywhere within ±45°, the same set-up doubles as an exercise in equilibrium of forces on an inclined plane apparatus, resolving weight into components along and normal to the surface. Keep the steel plane and tray faces clean and dry, start each trial from the same position and repeat readings to average out scatter. It is compact mechanics lab equipment in India that suits both engineering and senior physics classes.

What to Specify When Ordering

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