Email : sales@scilabexport.com
Phone: +91-7082934803

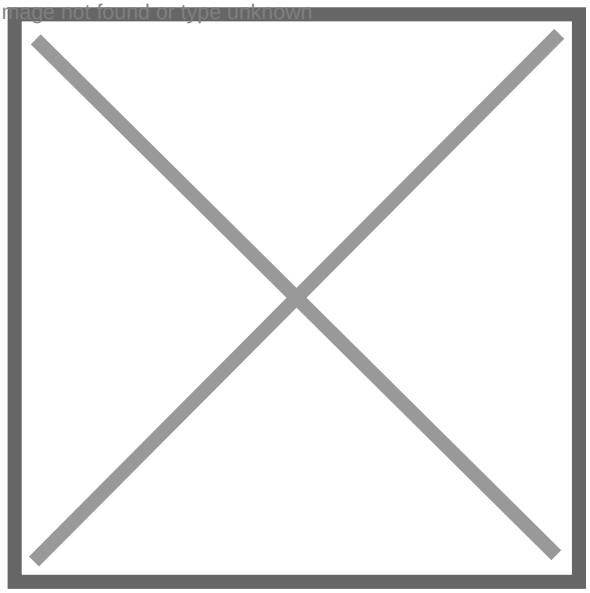
Product Name :

Friction Demonstration Device (Tribometer)

Product Code :

SCL-389/06

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Description :

Friction Demonstration Device (Tribometer) (Product Code: SCL-389/06) is an adjustable inclined-plane tribometer used to measure and compare friction between surfaces in school and college physics laboratories. Its 81.5 cm wooden plane rests at different angles from 0 to 45°, and a 200 g carriage with a small friction roller, a metal stand and weights of 10 to 100 g make it a complete friction experiment kit. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)** , an OEM manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Plane (wooden base)	81.5 x 10 x 2 cm
Carriage	10 x 8 x 4 cm, 200 g, with a small friction roller fixed at one end
Plane angle	Rests at different angles, 0–45°
Stand	Standard metal rack with a 50 cm base
Weights	Scales with weights of 10 g to 100 g
Holder	S-shaped holder
Product code	SCL-389/06
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Tribometer Used For?

On the level plane, students load the carriage with weights and pull it with a spring balance, noting the force needed to start it moving and to keep it sliding steadily. Dividing each force by the weight of the loaded carriage gives the coefficients of static and kinetic friction, and repeating with heavier loads shows that friction rises in proportion to the normal force.

Tilting the plane slowly until the carriage just begins to slide gives the same result another way: the coefficient of static friction equals the tangent of that angle, which students can compare with their pulling results. Keep the plane clean and dry, since dust or moisture changes the readings, and make sure the stand is steady before raising the plane towards 45°. The set brings the friction and inclined-plane activities of a school physics course together in one piece of equipment.

What to Specify When Ordering

- The number of tribometers for your laboratory or student groups.
- Whether you need extra weights beyond the 10 g to 100 g set.
- Any spring balance or force meter for reading the pulling force, which is a separate catalogue item.

OEM Manufacturer

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