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Product Name :

Force Table

Product Code :

SLE/PHY/175



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Description :

Force Table (Product Code: SLE/PHY/175) is a circular vector-addition apparatus used to balance three or four forces and verify equilibrium in school and college physics labs. It has a 40 cm diameter polymer tabletop with an angle scale in 0.5° divisions, a heavy cast base with levelling screws, and four clamp pulleys with slotted masses. It is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Tabletop	40 cm diameter, durable polymer
Angle scale	0.5° divisions, marked every 10° in both rotation directions
Support column	3 cm thick
Base	Heavy cast base with levelling screws
Table height	41 cm
Pulleys	4 table clamp pulleys, each with a circular cut-out and fiducial mark for accurate angle measurement
Masses	4 sets of slotted masses, each 150 g x 5 g including hangers; keyhole pattern secures them during adjustments
Cords	Cords with split rings for three-force and four-force equilibrium arrangements
Accessory	Spirit level included
Product code	SLE/PHY/175
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Force Table Used For?

Students hang known masses over two or three pulleys, work out the resultant by scale drawing or by components, then set the last pulley at the predicted angle with the balancing mass. If the prediction is right, the point where the cords meet settles over the centre of the table — vector addition made tangible. The split rings let groups switch between three-force and four-force equilibrium in moments, which suits any basic physics lab.

Level the tabletop with the spirit level and the base's levelling screws before each session so the masses pull horizontally across the scale. Line each cord up with the fiducial mark on its pulley to read angles to the nearest scale division. It is a standard item of mechanics lab equipment in India for vector topics in senior secondary and first-year college practicals.

What to Specify When Ordering

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