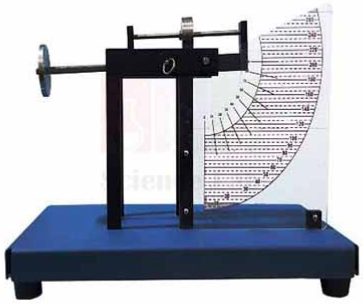
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Product Name :

Hydrostatic Pressure Apparatus

Product Code :

SLE/MCE/39



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Description :

Hydrostatic Pressure Apparatus (Product Code: SLE/MCE/39) is a fluid statics bench unit used to determine the resultant force and centre of pressure on a submerged plane surface in engineering and physics laboratories. Students hang masses from a swinging arm carrying a quadrant over a 5.5 litre acrylic tank, testing the face vertical or inclined and partly or fully under water. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Tank	Clear acrylic, 5.5 litre capacity, with graduated scale showing the water level
Levelling	Adjustable screwed feet and a circular spirit level on the tank base
Balance arm	Swinging arm with a tray and an adjustable counterbalance, mounted on top of the tank
Area of the section	0.007 m²
Total depth of submerged quadrant	160 mm
Height of support point on the quadrant	100 mm
Distance from suspended masses to support point	285 mm
Dimensions	600 x 400 x 400 mm
Weight	30 kg
Product code	SLE/MCE/39
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

Experiments listed for the apparatus:

- Centre of pressure and resultant force with the surface at 90°, partially submerged.
- Centre of pressure and resultant force with the surface at 90°, totally submerged.
- Centre of pressure, resultant force and equivalent force with the surface at angles other than 90°, partially and totally submerged.
- Balance of moments about the support point.

What Is the Hydrostatic Pressure Apparatus Used For?

Dams, lock gates, tank walls and sluices all have to resist water pressure that grows with depth, so th a into a e, stude from the g