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

Product Name :

Disc to Demonstrate Equilibrium (Balance)

Product Code :

SCL1213/05



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Description :

Disc to Demonstrate Equilibrium (Balance) (Product Code: SCL1213/05) is a 200 mm plastic disc that turns on a rotation axis and carries 18 attachment points – 2 mm holes or the same number of nails – laid out radially and symmetrically across its face. By hanging loads at different points, a teacher shows when a body that is free to rotate stays at rest: the turning effects on either side of the axis must cancel. Made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, it works as a circular alternative to a moment bar apparatus in school physics.

Specifications

Parameter	Detail
Type	Demonstration disc for the equilibrium of a body with a rotation axis
Material	Plastic disc
Diameter	200 mm
Rotation axis	Provided
Attachment points	18 holes of 2 mm diameter, or the same number of nails
Layout	Radially and symmetrically distributed on the surface of the disc

Typical Use

With the disc mounted on its axis, students hang masses from holes on opposite sides and adjust them until the disc stays still in any position they leave it. They then measure the perpendicular distance from the axis to the line along which each thread hangs and compare the sum of clockwise moments with the sum of anticlockwise moments. Because the attachment points lie on radial lines, the class quickly sees an important subtlety: a load hung from a point above or below the horizontal diameter has a shorter lever arm than one at the same radius on that diameter, so it is the perpendicular distance, not the distance along the radius, that counts.

Before loading, check that the empty disc turns freely and settles without a preferred position; otherwise friction or imbalance will mask the result. Light masses on fine thread give the cleanest readings. For teachers building a set of mechanics lab equipment in India, the disc complements straight levers by showing the same principle on a rotating body.

Manufacturer

The disc is manufactured by Jain Scientific Equipments Private Limited, the Ambala, Haryana company behind the ScienceLab name, which designs demonstration apparatus for teaching mechanics and other physics topics. The company is a registered MSME enterprise (Udyam UDYAM-HR-01-0003714) and handles overseas shipments under Importer-Exporter Code AAECJ8618A issued by the DGFT. Further background is on the ScienceLab profile page.

Related Lab Equipment

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