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

Product Name :

Deformable Parallelepiped

Product Code :

SCL1215/06

Description :

Deformable Parallelepiped (Product Code: SCL1215/06) is a hinged frame with a base – four vertical rods joining two bases, plus a median articulated support – that can be folded obliquely into a leaning box shape. As the frame leans further, students watch the moment a body standing on a base stops being stable and tips over, which makes the idea of centre of gravity and support base visible at a glance. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, a laboratory equipment supplier in India, for schools looking for a simple center of gravity apparatus.

Specifications

Parameter	Detail
Type	Parallelepiped frame with base that can be folded obliquely
Construction	Four vertical rods, two bases and a median articulated support
Dimensions	Not smaller than 140x200 mm
Purpose	Device to show the balance of bodies with a support base

Typical Use

Stand the frame upright on the bench, then tilt it step by step so that the rods lean and the upper base moves sideways over the lower one. A plumb line hung from the upper part of the frame marks the vertical through its centre of gravity. While that line still falls inside the lower base, the frame stays standing; once it passes beyond the edge, the frame overturns. Students can mark the tipping angle and relate it to everyday cases such as loaded vehicles, tall cupboards and why stable objects have wide, low bases.

Tilt slowly and keep a hand close so the frame does not fall off the bench, and do not force the joints past their natural travel. Used as a demonstration model in the physics lab, it pairs well with rotating-disc and lever experiments to give a complete lesson on equilibrium.

Manufacturer

ScienceLab apparatus such as this frame is made by Jain Scientific Equipments Private Limited, a company registered in Ambala, Haryana, that focuses on hands-on equipment for teaching science. See the company profile for more about its range and export activity to international markets.

Related Lab Equipment

Items that support the same stability and equilibrium lesson:

- Plumb Line Level — shows the vertical through the centre of gravity as the frame leans.
- Disc to Demonstrate Equilibrium (Balance) — covers equilibrium of a body turning about an axis.
- Metal Ruler — for measuring base width, height and sideways shift before tipping.
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