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Product Name :

Gyroscope Experiment Manual

Product Code :

SLE/MCE/78



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Description :

Gyroscope Experiment Manual (Product Code: SLE/MCE/78) is a hand-spun gyroscope apparatus used to demonstrate precession and the gyroscopic couple in theory of machines and physics laboratories. A 250 mm, 1500 g disc runs on dual ball bearings at one end of a tilting shaft, balanced by a movable 1400 g counterweight, and the shaft angle is read on a scale from -40° to +40°. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM engineering lab equipment manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Construction	Open design; shaft that can be tilted and rotated, attached to a stand rod
Disc	250 mm diameter, 1500 g, on dual ball bearings
Counterweight	1400 g, movable, for establishing equilibrium
Additional weight	50 g
Inclination scale	-40° to +40°, 1° divisions
Levelling	Spirit level for adjusting the gyroscope to the horizontal
Fine adjustment	Thumbscrew at the end of the shaft
Disc drive	By hand or by means of a cord
Dimensions	400 x 300 x 400 mm
Weight	15 kg
Product code	SLE/MCE/78
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Gyroscope Experiment Apparatus Used For?

With the disc at rest, students first use the movable counterweight, the spirit level and the thumbscrew to balance the shaft horizontally. They then spin the disc by hand or with the cord and apply the 50 g additional weight to unbalance the shaft: instead of simply dropping, the shaft swings slowly around the vertical axis. This precession is the classic gyroscopic effect, and timing it against the disc speed lets the class compare observed precession with the value predicted from the disc's angular momentum.

Because the dual ball bearings keep the rotation nearly frictionless, the disc keeps turning for long periods, leaving time for several readings from one spin. The open construction lets a whole group watch the shaft's motion, while the inclination scale records how far the shaft tilts. The apparatus links physics lab equipment in India for angular momentum with engineering cases such as the gyroscopic couple on ships, aircraft and vehicles taking a turn.

OEM