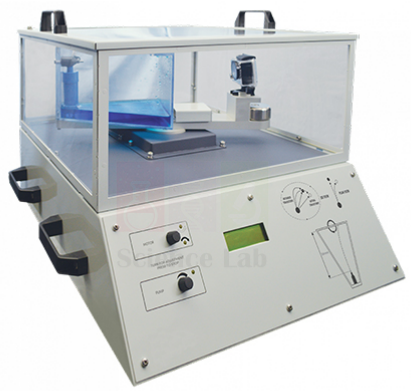
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Product Name :

Coriolis Force

Product Code :

SLE/ETM/15



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Description :

Coriolis Force (Product Code: SLE/ETM/15) is a benchtop apparatus used to show the Coriolis force by making a jet of water visibly deflect inside a rotating frame of reference, in physics and engineering laboratories. Students control the arm's speed and direction of rotation and the pump rate from dials and a digital display on the base unit. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM technical educational equipment manufacturer, at its own factory in Ambala, India.

Key Details

Parameter	Detail
Base	Benchtop base unit supporting a rotating arm
On the arm	Transparent water tank and counterbalance
Water jet	Produced by a submersible pump housed in the water tank
Controls	Dials and a digital display for speed and direction of rotation, and for pump rate
Observation	The jet of water deflects when the arm rotates
Principle	Coriolis force: a fictitious force that appears to act on objects moving within a rotating frame of reference
Product code	SLE/ETM/15
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Coriolis Force Apparatus Used For?

The Coriolis effect explains why winds curve across the Earth, why long-range projectiles drift and why fluids behave unexpectedly in rotating machinery, yet it is hard to picture from equations alone. Here the whole reference frame spins: the water tank rides on the rotating arm, the submersible pump fires a jet across it, and anyone watching sees the jet bend away from a straight line as soon as the arm turns.

Students can reverse the direction of rotation and watch the deflection swap sides, raise the speed to see a stronger effect, or change the pump rate to alter the jet velocity. Those three variables make it a memorable physics demonstration kit for dynamics and fluid mechanics lectures. Fill the tank to a sensible level and check that the counterbalance is in place before starting rotation.

OEM Manufacturer

This Coriolis Force apparatus is produced by Jain Scientific Equipments Private Limited, whose trading name is ScienceLab, as the OEM at its own licensed factory at Saha, Ambala, Haryana, India.

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