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Product Name :

Device for Demonstrating Magnetic Field Lines

Product Code :

SCL1577/025



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Description :

Device for Demonstrating Magnetic Field Lines (Product Code: SCL1577/025) makes the invisible field around a magnet visible without iron filings. It has six transparent plates arranged diametrically at equal spacing, each carrying many small ferromagnetic arrows that move easily and line up with the local field, so students see both the shape and the direction of the field lines. One plate is interchangeable, and an interchangeable plate with an arcuate notch lets the device sit on a U-shaped magnet model. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, as a clean, reusable demonstration model for the physics lab.

Specifications

Parameter	Detail
Plates	Six transparent plates, diametrically and equally spaced
Interchangeable plate	One of the plates is interchangeable
Field indicators	Many easily moving ferromagnetic arrows on the plates
U-magnet fitting	An interchangeable plate with an arcuate notch for installationon a U-shaped magnet model

Typical Use

Bring a bar magnet to the device and every arrow swings to point along the field at its own position. Because the plates are spaced evenly around the device, the arrows show the pattern in several planes at once, helping students understand that a magnetic field fills the space around a magnet rather than lying flat on a sheet of paper. The arrowheads also show direction, from the north pole round to the south pole, which iron filings cannot do.

Swapping in the notched plate and seating it on a U-shaped magnet model reveals the concentrated, nearly parallel field between the two poles, a useful comparison with the bar-magnet pattern. Teachers can also place the device near an energised electromagnet to show that a current-carrying coil produces the same kind of field. After use, keep strong magnets away from the device during storage and clean the plates with a soft dry cloth.

Manufacturer

ScienceLab is the trading name of Jain Scientific Equipments Private Limited, incorporated under CIN U29309HR2020PTC087597, with its base in Ambala, Haryana. The company manufactures at its licensed factory at 449, HSIIDC Industrial Area, Saha, Ambala (Factory Licence AMB-ONLINE-CHD-J-414); the company profile gives further background.

Related Lab Equipment

Magnets and detectors that work with this field-lines device in the same lesson:

- Horseshoe-Shaped Magnets — U-shaped magnets for the notched-plate demonstration.
- Bar Magnet (Plastic) — produces the classic bar-magnet field pattern.