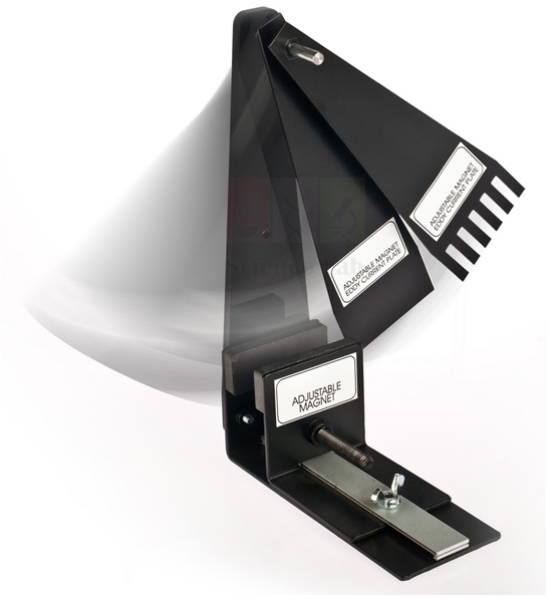
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Product Name :

Adjustable Magnet

Product Code :

SLE/EAM/34



Description :

The **Adjustable Magnet** (Product Code: SLE/EAM/34) is a variable-gap field source for bench work on magnetism and induction. A steel frame carries lockable, adjustable jaws that hold magnets on either side of a gap, so students can widen or narrow that gap and observe how the field between the poles changes. It is produced by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, a physics instruments supplier in India, for school and college physics laboratories, and works well as the central piece of a practical magnetism experiment kit in India or overseas.

Specifications

Parameter	Detail
Construction	Steel frame with lockable, adjustable jaws
Magnets accepted	50 x 20mm ferrite slab magnets or neodymium button magnets
Field adjustment	Field strength changed by adjusting the distance between the jaws
Supplied with	2 ferrite magnets, an eddy current pendulum demonstration and a universal accessory bracket
Measurement	Used with a coil to determine the flux density in the gap
Dimensions	120 x 50 x 50mm
Mass	0.25kg

Typical Use

A common exercise starts with the jaws opened wide: a coil is placed in the gap, a reading of flux density is taken, and the jaws are then closed in small steps with a fresh reading at each setting. Plotting gap against flux density gives students a clear picture of how quickly a magnetic field weakens with distance. Because the jaws lock, the chosen separation holds steady while the reading is recorded, which makes the results repeatable from one group to the next.

The eddy current pendulum demonstration supplied with the unit turns the same gap into a lesson on magnetic braking: a metal pendulum swinging through the field slows noticeably as the currents induced in it oppose its motion. This makes a natural bridge into electromagnetic induction kit topics such as Lenz’s law. Swapping the ferrite slabs for neodymium button magnets (not included) lets a class compare a weaker and a stronger field in the same frame. Keep the magnets away from watches, phones and moving-coil meters, and store them so they cannot snap together and chip.

Manufacturer

This magnet assembly is made by Jain Scientific Equipments Private Limited, the Ambala, Haryana company that sells under the ScienceLab name. The business is incorporated as a private limited company under CIN U29309HR2020PTC087597, and it manufactures at its licens E-
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