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Product Name :

Magnetic Repulsion

Product Code :

SLE/EAM/29



Description :

Magnetic Repulsion (Product Code: SLE/EAM/29) is a simple system for investigating the force of repulsion between two high strength neodymium magnets. Standard slotted masses placed on the top plate push the magnets closer together against their mutual repulsion, and a directreading ‘wedge’ gauge measures the separation that results. Designed for physics teachers whowant a clean, quantitative magnetism practical, it is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, a science apparatus manufacturer in India.

Specifications

Parameter	Detail
Magnets	Two high strength neodymium magnets
Separation measurement	Direct reading ‘wedge’ gauge
Applying force	Standard slotted masses placed on the top plate
Investigation	Force of repulsion between the magnets at different separations
Teaching links	Magnetic repulsion and balanced forces

Typical Use

With the top plate unloaded, the upper magnet floats at its largest separation. Students add slotted masses one at a time; each addition compresses the magnetic “cushion” a little more, and the wedge gauge is slid into the gap to read the new separation directly. When the plate settles, the total weight on it equals the repulsive force at that separation, so the data give a force–distance curve for like poles without any spring balance or sensor.

Running this unit alongside an attraction experiment lets a class compare how quickly attraction and repulsion change with distance. It also makes an effective demonstration of balanced forces, since the floating plate is visibly held up by an invisible push. Add masses gently and centrally so the plate does not tilt, and take each gauge reading only once the plate has stopped moving. Schools looking for a laboratory instruments supplier in India can order it individually or as part of a magnetism set.

Manufacturer

ScienceLab, the brand under which **Jain Scientific Equipments Private Limited** trades, makes this apparatus in Ambala, Haryana for schools, colleges and education distributors. Find out more on the company profile.

Related Electricity and Magnetism Equipment

Items that complement a repulsion investigation:

- Magnetic Attraction — measures the pull between unlike poles for a side-by-side comparison
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