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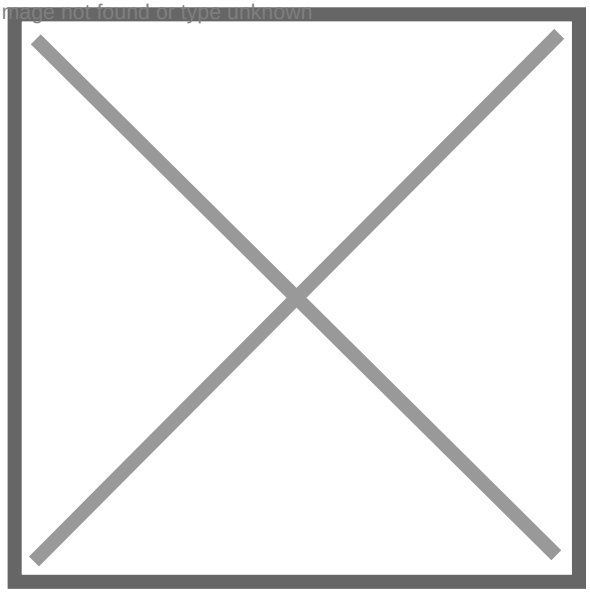
Product Name :

Eddy Current Unit 120 mm

Product Code :

SCI-1529/013

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Science Lab
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Description :

Eddy Current Unit 120 mm (Product Code: SCI-1529/013) is a physics demonstration apparatus used to show how eddy currents induced in a moving conductor oppose its motion in electromagnetism lessons. Its 120 mm aluminium disc has a 20 mm driving pulley for the hand-wheel driving unit, and powerful circular magnets on a pivoted arm swing over or away from the disc, giving a clear electromagnetic induction demonstration. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer and laboratory instruments supplierin India, at its own factory in Ambala.

Specifications

Parameter	Detail
Purpose	Demonstration of eddy currents
Disc	Aluminium, 120 mm diameter
Driving pulley on disc	20 mm
Magnets	Powerful circular magnets
Magnet mounting	Pivoted arm, so the magnets can be moved over or away from the disc as required
Drive	Used in conjunction with the hand-wheel driving unit
Product code	SCI-1529/013
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Eddy Current Unit Used For?

With the magnets swung away, a few turns of the hand wheel set the aluminium disc spinning and it coasts for a while. Swing the magnets over the disc and it slows down sharply: the changing magnetic field induces circulating (eddy) currents in the aluminium, and by Lenz's law those currents create a field that opposes the motion. Students can also feel the hand wheel become harder to turn when the magnets are in place, which links the effect to energy being converted into heat in the disc.

Because aluminium is not attracted to a magnet, the demonstration makes clear that the braking comes from induction, not ordinary magnetic attraction. Teachers use it to introduce real applications such as eddy current brakes, induction meters and the damping of moving-coil instruments. Keep the magnets away from phones, watches and cards, and check that the belt runs straight before each lesson.

What to Specify When Ordering

- Whether you also need the Hand-Wheel Driving Unit, which the unit is designed to be used
-
-

OEM

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