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Product Name :

Eddy Current Unit

Product Code :

SLE/PHY/97



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Description :

Eddy Current Unit (Product Code: SLE/PHY/97) is a copper-tube demonstration used to introduce eddy currents and electromagnetic braking in school and college physics. Two test masses, one of steel and one a neodymium magnet, are dropped down a 33 cm copper tube,and students see the magnet fall more slowly than the steel mass. It is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Tube	Copper, 33 cm
Test masses	Two, included: one steel, one neodymium magnet
Observation	The magnetic mass falls more slowly than the steel mass
Principle	Eddy currents induced in the tube oppose the falling magnet's motion
Product code	SLE/PHY/97
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Eddy Current Unit Used For?

As the neodymium magnet falls, its moving field induces circulating eddy currents in the copper walls, and these currents produce their own field that opposes the downward motion. The steel mass is not a magnet, so it induces no such currents and simply falls freely, which turns the two drops into a fair test with a striking difference. Teachers use the result to connect Lenz's law with real applications such as magnetic braking, making this one of the simplest physics demonstration kits for showing induction without meters.

Hold the tube upright over a soft surface or catch the masses at the bottom, and time each drop with a stopwatch if students are to compare results in numbers. Keep the neodymium magnet away from the steel mass, electronic devices and fingers, because strong magnets can snap together sharply.

What to Specify When Ordering

- Number of units, for a teacher demonstration or for several student groups.
- Whether spare test masses (steel or neodymium magnet) are needed.
- Delivery location for packing and freight.

OEM Manufacturer

Jain Scientific Equipments Private Limited, which trades as ScienceLab, is the OEM of this eddy current apparatus and makes it at its own factory at Saha, Ambala, Haryana. Physics depa… …nass goes … …is on the p…

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