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Product Name :

Apparatus Force of Conductor

Product Code :

SLE/PHY/11



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Description :

Apparatus Force of Conductor (Product Code: SLE/PHY/11) is a rolling-axle demonstration unit used to show Fleming's left-hand rule, the force on a current-carrying conductor in a magnetic field, in school physics labs. A brass axle with plastic discs rests on a pair of brass rails between the poles of a strong U-shaped magnet, and it rolls one way or the other depending on the direction of the current. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Principle shown	Fleming's law: a conductor carrying current in a magnetic field experiences a force whose direction depends on the direction of the current
Moving conductor	Brass axle with plastic discs, free to roll along the rails
Rails	Pair of brass rails
Terminals	4 mm socket terminals
Magnet	Strong U-shaped magnet
Product code	SLE/PHY/11
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Force of Conductor Apparatus Used For?

This is the classic "motor effect" demonstration. Current enters one brass rail through a 4 mm socket, crosses the brass axle and leaves by the other rail, so the axle itself becomes the conductor sitting in the field of the U-shaped magnet. As soon as current flows, the axle is pushed along the rails; reverse the supply leads, or turn the magnet over, and it rolls back the other way. Students can predict each result with Fleming's left-hand rule before switching on.

Use a low-voltage DC source and switch the current on only briefly, as a short circuit through the rails and axle warms the leads quickly. The plastic discs keep the axle rolling true on the rails, so the effect is easy to see from the back of the room. As an electromagnetic kit for school physics, it links neatly to lessons on electric motors and on current-carrying coils.

OEM Manufacturer

Jain Scientific Equipments Private Limited, which trades as ScienceLab, is the original equipment manufacturer (OEM) of the Apparatus Force of Conductor. The unit is built at the company's licensed factory at Saha, Ambala, Haryana, India, and goes out factory-direct to schools, teacher-training colleges, dealers and importers. If you later need a replacement axle, rails or magnet, or want to repeat an earlier order, ask the manufacturer directly. Read more on the company profile page

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