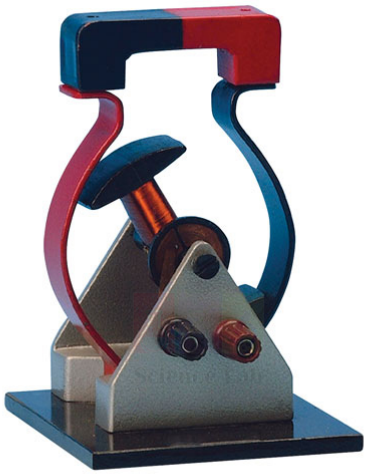
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Product Name :

Demonstration, Electric Motor

Product Code :

SLE/PHY/152



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Description :

Demonstration, Electric Motor (Product Code: SLE/PHY/152) is a simple DC electric motor used to show how a current-carrying armature turns in a magnetic field in school and college physics classes. Its 2-pole armature is wound with enamelled copper wire, the field comes from a removable bar magnet, and it runs on 6–8 V DC. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Motor type	Simple form of DC electric motor
Armature	2-pole, wound with enamelled copper wire
Magnetic field	Permanent field from a removable bar magnet
Commutator	Disc-type
Brushes	Phosphor-bronze
External connection	Pair of 4 mm sockets connected to the brushes
Operating supply	6–8 V DC
Product code	SLE/PHY/152
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Demonstration Electric Motor Used For?

Because every working part is on view, students can follow the current from the 4 mm sockets through the phosphor-bronze brushes and the disc-type commutator into the armature windings. The teacher can then explain how the commutator reverses the current in the 2-pole armature every half turn, so the turning force keeps acting in the same direction. It links directly to the motor effect and Fleming's left-hand rule in electromagnetism lessons.

The removable bar magnet makes simple investigations possible. Turning the magnet round, or swapping the supply leads, reverses the direction of rotation, and taking the magnet away shows that without a field there is no turning force. Keep the supply within 6–8 V DC and switch off before handling the armature. It is a dependable item for any physics demonstration kit in India or overseas.

What to Specify When Ordering

- Number of motors, for a single teacher demonstration or for several student groups.
- Whether you need a low-voltage supply that can provide 6–8 V DC.
- 4 mm connecting leads for the brush sockets.
- Whether the Demonstration Dynamo Model should be quoted as well, to teach motors and

OEM

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