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Product Name :

Demonstration Electric Motor

Product Code :

SLE/EAM/06



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Description :

Demonstration Electric Motor (Product Code: SLE/EAM/06) is a ready-built, fully working DC motor laid out so that a whole class can see every essential part of a simple motor: a single rectangular coil, the magnets that provide the field, and the commutator and brushes that keep it turning. Physics teachers use it as a demonstration model for the physics lab when introducingthe motor effect, and it runs from a low DC voltage. The unit is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)** of Ambala, India.

Key Details

Parameter	Detail
Type	Ready-built, fully functional demonstration DC motor
Armature	Single rectangular coil rotating in a linear magnetic field
Field magnets	Ferrite slab magnets, reversible to change the field direction
Commutation	Simple commutator and brush arrangement
Supply required	DC, 1.5 V to 6 V
Current reversal	By reversing the supply leads
Teaching level	Shows the essential features of a simple motor as taught in the KS4 syllabus

Typical Use

The motor is ideal for the lesson where students first link the force on a current-carrying wire to continuous rotation. With the coil turning, the teacher can reverse the leads to show that the rotation reverses, then turn the ferrite slab magnets round to show the same thing happening when the field is reversed; doing both at once returns the motor to its original direction, a neat check on Fleming's left-hand rule. Pausing the coil by hand lets the class see how the commutator swaps the current connection every half turn, which is the step many students find hardest to picture.

Start at the low end of the 1.5 V to 6 V range and raise the supply gradually so the class can see the speed respond. Like any single-coil motor, it may occasionally come to rest where the brushes sit on the commutator gap; a gentle flick of the coil sets it going again. Used alongside a simple physics demonstration kit on electromagnetism, it gives a concrete picture that diagrams alone cannot.

Manufacturer

Jain Scientific Equipments Private Limited, known to customers by its ScienceLab brand, produces physics demonstration apparatus from its base in Ambala, Haryana, and supplies teaching labs in India and international markets. The ScienceLab profile page gives more detail about the company.

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