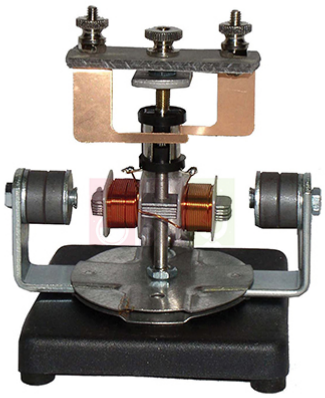
Email : sales@scilabexport.com
Phone: +91-7082934803

Product Name :

St. Louis Motor

Product Code :

SLE/EM/25



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Description :

St. Louis Motor (Product Code: SLE/EM/25) is a demonstration DC motor of open construction, so every working part — the 2-pole armature, the split commutator and the two permanent magnets — stays in plain view while it runs. Teachers use it to show how a current-carrying coil in a magnetic field is kept turning, and it is a long-standing demonstration model in physics labs at school and college level. It works on a 6V D.C. power source and is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India.

Specifications

Parameter	Detail
Armature	2-pole D.C. armature with coils
Armature mounting	Aluminium bracket with two binding posts and 4mm socketbinding post terminals
Bearings	Brass cone bearings
Commutator	Split commutator fitted on the shaft
Field magnets	Two permanent magnets in adjustable holders
Base	Bakelite, about 173 x 97mm (l x w)
Power source	6V D.C.

Typical Use

Connect a 6V D.C. supply to the terminals and, if the armature has stopped at a dead point, give it a light flick; it then keeps turning because the split commutator reverses the current in the coils every half-turn. The motor is used to explain the motor effect and Fleming's left-hand rule, and to show why a DC motor needs a commutator at all. Reversing the supply leads reverses the direction of rotation, and moving the magnets in their adjustable holders closer to or further from the armature shows how the strength of the field affects speed — a useful talking point in any electromagnetic kit for schools.

Before switching on, check that the armature turns freely on its brass cone bearings. Keep the commutator clean, switch off promptly if the armature stalls so the coils do not overheat, and use the 4mm sockets with plug leads for quick, secure connection during class demonstrations.

Manufacturer

Jain Scientific Equipments Private Limited trades as ScienceLab and makes motor demonstrators such as this one in Ambala, Haryana, for classrooms in India and international markets. Visit our company profile for the company background.

Related Laboratory Equipment

Items that pair well with a motor demonstration: