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Product Name :

Wimshurst Machine

Product Code :

SLE/EM/26



Description :

Wimshurst Machine (Product Code: SLE/EM/26) is a hand-cranked electrostatic generator. Two high-resistance plastic discs carrying equally spaced metal sectors turn in opposite directions,and a system of collecting brushes gathers the induced charge into Leyden jar capacitors andonto metal spheres until a spark jumps between the ball-ended electrodes. Physics departmentsuse it as a centrepiece of their electrostatics teaching and as a striking physics demonstration kititem for open days. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala,India.

Specifications

Parameter	Detail
Discs	Two high-resistance plastic discs with equally spaced metal sectors
Drive	Hand crank; the discs rotate in opposite directions
Disc supports	Two rigid upright supports
Charge collection	System of induced-charge collecting brushes
Electrodes	Adjustable ball-ended electrodes
Capacitors	Cylindrical Leyden jar capacitors, for obtaining higher potential
Charge storage	Substantial opposite charges collect in the capacitors and on metal spheres
Base	Insulated wooden base

Typical Use

Turning the crank builds up opposite charges on the two Leyden jars and the metal spheres; once the potential difference is large enough, a spark crosses the gap between the ball-ended electrodes. Widening the gap gives longer, less frequent sparks. Lowering the system's capacitance produces a rapid sequence of sparks instead, so students can see directly how stored charge and capacitance govern the discharge. The machine is also used to show charging by induction, electric wind and the ionisation of air, and to charge electroscopes and other electrostatics apparatus — standard topics wherever physics lab equipment in India is used for senior classes.

Electrostatic demonstrations are most reliable in dry air, so wipe the discs and supports free of dust and moisture before use. Always discharge the Leyden jars by bringing the electrodes together before touching any part of the machine, keep sparks away from flammable vapours, and keep anyone with a cardiac pacemaker at a distance from the demonstration.

Manufacturer

This Wimshurst Machine is a ScienceLab product, made by Jain Scientific Equipments Private Limited of Ambala, Haryana, for schools, colleges and science centres in India and international markets. The company profile tells you more about us.

Rela

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