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

Product Name :

Electrostatic Sultan

Product Code :

SCL1362/022

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Description :

Electrostatic Sultan (Product Code: SCL1362/022) is a metallic rod on an insulated support with a plume of narrow paper strips at its upper end. When an electrified wand is brought near the rod, the strips lift and spread out, tracing the pattern of electric field lines around the charged conductor. Teachers use this plume-style indicator to turn an abstract idea into something awhole class can see. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala,as one of its physics demonstration items for schools.

Specifications

Parameter	Detail
Conductor	Metallic rod on an insulated support
Rod height	200 mm
Indicator	Narrow paper strips at the upper end of the rod
Strip length	100 mm
Number of strips	20
Function	Outlines electric field lines when an electrified wand approaches the rod

Typical Use

Stand the sultan on a dry bench and bring a charged rod slowly towards the metal conductor. The 20 paper strips pick up like charge, repel one another and fan outwards in radial directions, much like the field-line diagrams in a textbook. Removing the rod lets them droop again, and connecting the sultan to an electrostatic machine keeps the plume standing for longer so students can walk round and study it from every side.

Two sultans charged with opposite signs and placed a short distance apart show the strips reaching towards each other, while like charges make them bend away — a memorable way to compare attraction and repulsion. Because paper absorbs moisture, store the device in a dry cupboard and let it sit in a warm, dry room before a lesson. For schools buying electrostatics apparatus as part of their physics lab equipment in India, it adds a strong, memorable visual to the topic.

Manufacturer

ScienceLab is a brand of Jain Scientific Equipments Private Limited, a private limited company in Ambala, Haryana, that makes physics apparatus for classroom demonstrations and student benches. The ScienceLab profile page introduces the company and its work.

Related Lab Equipment

These products provide the charge source or the next step in the same electrostatics sequence:

- Wimshurst Electrostatic Machine (four-arm) — drives the strips charged for a sustained
- Van de Graaff Generator — a larger source for a dramatic hair-raising demonstration

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