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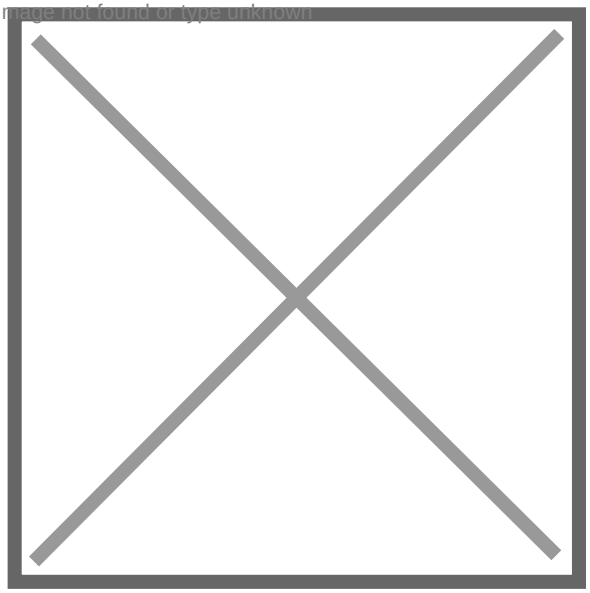
Product Name :

Small Motor/Generator

Product Code :

SCI-1435/015

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Description :

Small Motor/Generator (Product Code: SCI-1435/015) is a compact motor that doubles as a generator, used with the large motor/generator to compare power input and output in physics practicals on energy and efficiency. It comprises a 1.5 to 4.5 V motor supplied with a driving belt, so the two machines can drive each other in turn, forming a simple electricity experiment kit for school energy lessons. It is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India.

Specifications

Parameter	Detail
Motor rating	1.5 to 4.5 V
Supplied with	Driving belt
Designed for use with	The large motor/generator
Experiment	Comparing power input and output by driving each machine in turn with the other and metering voltages and currents
Product code	SCI-1435/015
Supplied by	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the Small Motor/Generator Used For?

The unit is built for a classic energy-transfer practical. Belt it to the large motor/generator and power the large machine as a motor, so the small one is driven as a generator feeding a lamp or resistor. With an ammeter and voltmeter on each side, students calculate electrical power in and power out (voltage multiplied by current) and express the output as a percentage of the input to find the efficiency.

Next, swap the roles: supply the small machine within its 1.5 to 4.5 V rating so it drives the large one, and repeat the readings. Comparing the two results opens a discussion on friction, heating, belt slip and why machines of different size behave differently. Start from a low voltage and increase it gradually, and keep the belt clean and correctly aligned.

What to Specify When Ordering

- Whether you already have the large motor/generator or need it quoted with this unit.
- The number of sets, for example one pair per student group.
- Meters and a low-voltage DC supply, if they should be included in the quotation.

Supplier

ScienceLab, the trading name of Jain Scientific Equipments Private Limited, supplies the Small Motor/Generator from Ambala, Haryana, India. The company sources this compact motor unit for physics laboratories and can quote it with the large unit it pairs with, so the matched set arrives in one consignment. Institutions, dealers and importers can also ask us about repeat sets or spare belts.

Rela

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