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Product Name :

Demonstration Dynamo Model

Product Code :

SLE/PHY/151



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Description :

Demonstration Dynamo Model (Product Code: SLE/PHY/151) is a hand-driven dynamo on a base plate used to show how mechanical work is turned into electrical energy in school and college physics lessons. A 120 mm hand-drive pulley turns the smaller dynamo pulley through a rubber belt for a step-up ratio, and a lamp lights up to show the output. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer and physics instruments supplier in India, at its own factory in Ambala.

Specifications

Parameter	Detail
Construction	Same basic assembly as the Demonstration Electric Motor, mounted on a base plate
Base plate	230 x 90 mm
Hand-drive pulley	120 mm diameter
Drive	Rubber belt to the smaller dynamo pulley, giving a step-up ratio
Electrical output	Pair of 4 mm sockets
Output indicator	Lamp, provided
Motor use	Can also be run as a motor on a 6–8 V DC supply
Product code	SLE/PHY/151
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Demonstration Dynamo Used For?

The model turns an abstract idea — electromagnetic induction — into something a whole class can see. A student cranks the large pulley, the belt spins the dynamo much faster than the hand moves, and the lamp glows; cranking harder makes it brighter, which links rotation speed to the voltage generated. Teachers can also take the output from the 4 mm sockets to a meter so students record readings instead of judging lamp brightness.

The same unit works in reverse. Connect a 6–8 V DC supply and it runs as a motor, which makes a clear point that motors and generators are the same machine used in opposite directions. This two-way use makes it a practical demonstration model for the physics lab when teaching energy conversion, electromagnetic induction and power generation.

What to Specify When Ordering

- Number of models — one per demonstration bench or per student group.
- Whether you need a 6–8 V DC supply to use the model as a motor.
- 4 mm leads and a meter, if students will measure the output rather than watch the lamp.
- [illegible]-by-

OEM

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