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Product Name :

Line Shaft Unit

Product Code :

SLE/PHY/232



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Description :

Line Shaft Unit (Product Code: SLE/PHY/232) is a base-mounted shaft and pulley unit used to show electrical energy being converted into potential energy, by winding up a weight on a cord, in school physics energy lessons. It is one of the separately available units of the Energy Transfer Kit, built on a 165 x 100 mm base with a 6 mm steel shaft and a 56 mm aluminium 'V' pulley. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer of school physics lab equipment in India, at its own factory in Ambala.

Specifications

Parameter	Detail
Kit	Energy Transfer Kit (units available separately)
Base size	165 x 100 mm (common to all kit units)
Shaft	6 mm steel
Pulley	56 mm diameter aluminium 'V' pulley at one end
Opposite end	Cord anchoring collar
Terminals	Kit units have 4 mm socket terminals where appropriate
Demonstrates	Conversion of electrical energy to potential energy by winding up a weight on a cord
Product code	SLE/PHY/232
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Line Shaft Unit Used For?

In an energy-transfer lesson, an electrically driven unit turns the line shaft through its V pulley. The cord, fixed by the anchoring collar, winds onto the turning shaft and lifts a weight, so the electrical energy put in ends up stored as gravitational potential energy of the raised mass. Students can note the mass and the height gained to calculate that stored energy, then compare it with the electrical energy supplied to discuss efficiency and losses.

Because every unit in the Energy Transfer Kit shares the same 165 x 100 mm base, the line shaft lines up neatly beside the other units on the bench, and teachers can build different chains of energy conversion from the same set. It is a practical piece of school physics lab equipment in India for teaching energy stores and transfers.

What to Specify When Ordering

- Which other Energy Transfer Kit units you need to drive or extend the line shaft.
- The number of Line Shaft Units per lab or per student group.
- Whether a weight and cord should be quoted, as these are not listed with the unit.

OEM

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