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Product Name :

Handwheel Drive Unit

Product Code :

SLE/PHY/186



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Description :

Handwheel Drive Unit (Product Code: SLE/PHY/186) is a hand-turned pulley drive used topower other units of an energy transfer kit, such as a dynamo, line shaft, flywheel or pump, inschool physics lessons on energy conversion. Its 75 mm driving and output pulleys and 20 mm intermediate pulley give a step-up ratio of 3.75, on a 165 x 100 mm base. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Kit	Unit of the Energy Transfer Kit (units available separately)
Driving pulley	75 mm diameter
Output pulley	75 mm diameter
Intermediate pulley	20 mm diameter
Step-up ratio	3.75
Base size	165 x 100 mm (common to all kit units)
Kit connections	4 mm socket terminals on kit units where appropriate
Drives	Dynamo, line shafts, flywheels, pumps and similar units
Product code	SLE/PHY/186
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Handwheel Drive Unit Used For?

Turning the handwheel converts a student's muscular work into rotational kinetic energy, and the pulley train steps the speed up by a ratio of 3.75 before passing it on. Coupled to a dynamo it shows kinetic energy becoming electrical energy; driving a flywheel it shows energy being stored as rotation; with a line shaft or pump it shows useful work being done. Every stage also loses some energy as heat and sound through friction, a useful discussion point.

Because all units of the Energy Transfer Kit share the same 165 x 100 mm base, they line up neatly on the bench and can be rearranged into different energy chains, making the set a flexible physics demonstration kit. Turn the handle at a steady speed, keep the pulley grooves clean, and line the unit up squarely with the unit it drives.

What to Specify When Ordering

- Which other Energy Transfer Kit units you need — dynamo, line shaft, flywheel or pump — since each is available separately.
- Number of handwheel units, for example one per energy chain or student group
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OEM

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