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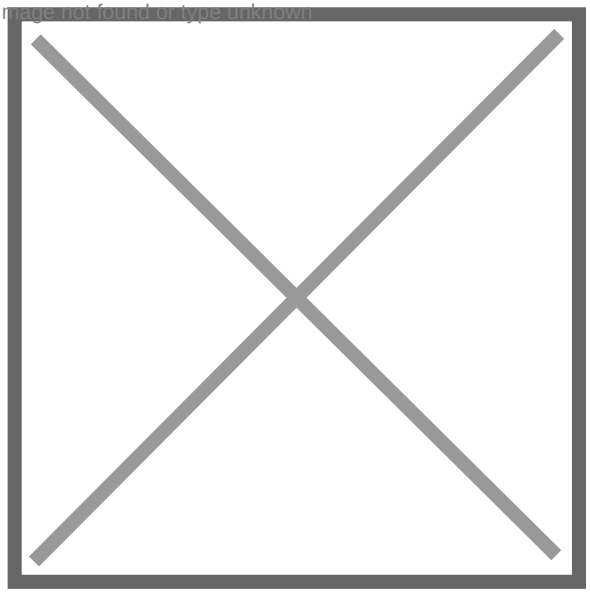
Product Name :

Hand-Wheel Driving Unit

Product Code :

SCI-1527/012

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Description :

Hand-Wheel Driving Unit (Product Code: SCI-1527/012) is a hand-turned pulley drive used to power dynamos, line shafts, flywheels and pumps in physics and engineering demonstrations. Its 75 mm driving and output pulleys work with a 20 mm intermediate pulley to give a step-up ratio of 3.75 on a 165 x 165 mm base, a compact pulley system for lab demonstrations. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Application	Driving dynamos, line shafts, flywheels and pumps
Driving pulley diameter	75 mm
Output pulley diameter	75 mm
Intermediate pulley diameter	20 mm
Step-up ratio	3.75
Base dimensions	165 x 165 mm
Operation	Turned by hand wheel
Product code	SCI-1527/012
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Hand-Wheel Driving Unit Used For?

The unit lets students supply mechanical energy by hand and watch it drive other apparatus. Belted to a small dynamo, it turns the armature fast enough to light a lamp or deflect a meter, showing mechanical energy becoming electrical energy. Connected to a line shaft, flywheel or model pump, it demonstrates how power is transmitted by belts and pulleys and how a spinning flywheel stores energy, and it also drives eddy current demonstrations in which a spinning disc is slowed by magnets.

The pulley ratio is a lesson in itself: the 75 mm pulley driving the 20 mm pulley makes the smaller one turn 3.75 times for every turn of the larger, so students can relate diameters to speed. Hold or clamp the base firmly on the bench, keep belts properly tensioned, and turn the hand wheel smoothly rather than in jerks. Used with a dynamo, it makes a hands-on physics demonstration kit for energy conversion topics.

What to Specify When Ordering

- The quantity, for example one per demonstration bench or student group.
- Which apparatus it will drive (dynamo, eddy current unit, flywheel or pump) so matching
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OEM