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Product Name :

Pulley

Product Code :

SCL1217/07



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Description :

Pulley (Product Code: SCL1217/07) is a single 40 mm polypropylene wheel with a peripheral groove, turning on its rotation axis inside an aluminium frame that carries hooks on two sides.One hook lets it hang from a support as a fixed pulley; the other takes a load or a second pulley,so the same unit can be used fixed or movable. Made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, it is the basic building block for any pulley system lab in India, frommiddle school to junior college.

Specifications

Parameter	Detail
Type	Peripheral groove wheel on support
Wheel material	Polypropylene
Frame	Aluminium
Wheel diameter	40 mm
Wheel thickness	5 mm
Rotation	Turns on a rotation axis
Fittings	Hooks on two sides

Typical Use

Hung from a stand as a fixed pulley, it shows that a pulley changes the direction of a force: students pull down on a string passing over the groove to raise a mass, and a spring balance reveals that the effort is close to the load. Used as a movable pulley, with the load on the lower hook and one end of the string anchored, the effort needed falls to roughly half the load while the string travels twice as far. Several units combined give a block and tackle, from which a class calculates mechanical advantage, velocity ratio and efficiency.

For consistent results, use light, non-stretch string that runs cleanly in the groove, check that the wheel spins freely before each trial, and include the weight of the pulley itself when working out a movable arrangement. These are the classic force and simple-machine practicals found in school physics lab equipment in India.

Manufacturer

This pulley comes from Jain Scientific Equipments Private Limited, which operates as ScienceLab from Ambala in Haryana and produces mechanics apparatus for classrooms and training institutes in India and international markets. The ScienceLab profile gives an overview of the company.

Related Lab Equipment

Items that complete a pulley and simple-machines practical:

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