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Product Name :

Pulley, Metal, Single, Parallel

Product Code :

SLE/PHY/278



Description :

Pulley, Metal, Single, Parallel (Product Code: SLE/PHY/278) is a single 50 mm metal pulley wheel mounted in a metal frame with two hooks, used as a fixed or movable pulley in introductory machines and forces experiments. It is the simplest block in the metal pulley range and is well suited to showing how a pulley changes the direction of a force before students move on to multi-wheel systems. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Type	Single
Wheel	One, 50 mm diameter
Material	Metal
Frame	Metal, with 2 hooks
Product code	SLE/PHY/278
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Single Metal Pulley Used For?

Hung from a stand as a fixed pulley, it shows that the effort equals the load but can act in a more convenient direction, which is why pulleys are used to raise flags and draw water from wells. Attached to the load as a movable pulley, with the string anchored above, it roughly halves the effort while doubling the length of string that must be pulled, giving students their first measurement of mechanical advantage with simple mechanics lab equipment.

The two hooks make the frame easy to use in either role, and the single block combines with double or triple blocks to make three-string and larger systems. Keep the wheel groove clean, check that the wheel turns freely before each lesson, and add masses gradually so the string stays in the groove.

What to Specify When Ordering

- Quantity: two per group lets students compare fixed and movable pulleys side by side.
- Double or triple pulley blocks to combine with it for larger systems.
- Masses, hangers and a spring balance.

OEM Manufacturer

ScienceLab is the brand of Jain Scientific Equipments Private Limited, the OEM that manufactures this single metal pulley at its own licensed factory at Saha, Ambala, Haryana, India. Because the metal pulley range is produced by the same maker, single and double blocks can be order
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