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Product Name :

Pulley Demonstration Set

Product Code :

SLE/MCE/29



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Description :

Pulley Demonstration Set (Product Code: SLE/MCE/29) is a free-standing pulley rig used to demonstrate mechanical advantage, velocity ratio and efficiency with fixed and movable pulleysin school and college mechanics laboratories. Physics teachers and engineering instructors use itto build anything from a single pulley to quadruple-sheave systems on three 81 cm steel rods, loaded with brass slotted masses. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India, as a complete pulley system lab set in one order.

Specifications

Parameter	Detail
Overall height	32 inches (approx. 81 cm)
Base	Wooden base 81 x 20 cm (7.8 inches wide), fitted with 2 sockets, a capstan and an eye hook
Rods	3 steel rods, 12.5 mm diameter, 81 cm long
Pulleys	8 single, 2 triple tandem, 2 quadruple
Rod fittings	8 collars with hook; 3 right-angled clamps
Wheel and axle	1
Tool	1 tommy bar for tightening the vertical rods
Cord	4 rolls
Slotted brass mass set	2 x 10 g, 2 x 20 g, 2 x 50 g, 4 x 100 g, 4 x 200 g, 1 x 500 g
Brass weight hangers	5 x 50 g, 1 x 20 g, 1 x 10 g
Product code	SLE/MCE/29
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Pulley Demonstration Set Used For?

Collars with hooks slide onto the horizontal rod to carry the pulleys, and the right-angled clamps hold that rod across the vertical rods. A brass weight hanger carries the load, and slotted masses are added on the effort side until the load just rises. Comparing load with effort gives the mechanical advantage; measuring how far the effort and the load travel gives the velocity ratio, and the two together give the efficiency of the arrangement.

Because the kit contains single, triple tandem and quadruple pulleys plus a wheel and axle, one set covers the whole progression from a simple fixed pulley to block-and-tackle systems and other simple machines, making it practical mechanics lab equipment in India for beginner and advanced classes alike. The base also carries a capstan and an eye hook for cord arrangements. Befor
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