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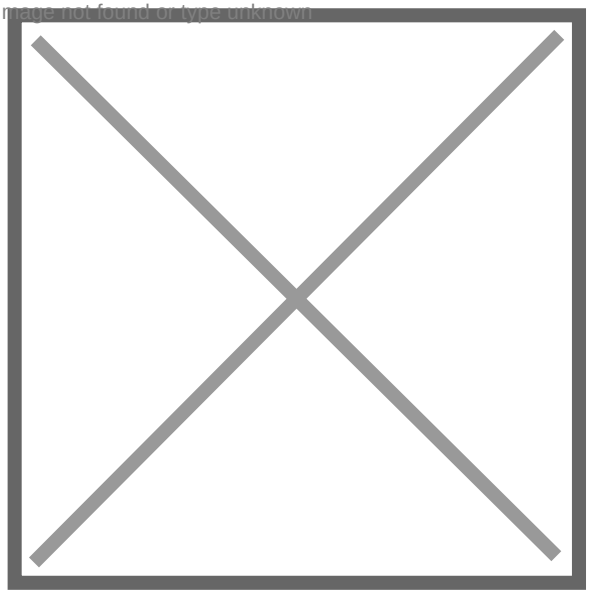
Product Name :

Apparatus for Demonstrating the Propagation of Waves

Product Code :

SCL-351/028

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Description :

Apparatus for Demonstrating the Propagation of Waves (Product Code: SCL-351/028) is a mechanical wave machine used to show how transverse and longitudinal waves travel, in school and college physics classrooms. Teachers use it to make wave motion visible: a handle turns a row of eccentric discs that move a series of metal rods across a 450 mm x 200 mm x 300 mm working range. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer and laboratory equipment supplier in India, at its own factory in Ambala.

Specifications

Parameter	Detail
Waves demonstrated	Transverse and longitudinal
Transverse wave mechanism	Eccentric discs supporting a series of metal rods, revolved by a handle
Longitudinal wave mechanism	Bent rods
Pulleys	Two aluminium pulleys, listed as No. Sp251 (18) and No. Sp252 (24)
Voltage values	0–6 V
Number of vibrations	13
Vibrator diameter	15.6 mm
Wave propagation range	450 mm x 200 mm x 300 mm
Product code	SCL-351/028
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Wave Propagation Apparatus Used For?

In a wave motion lesson, the teacher turns the handle slowly so students can watch each rod rise and fall in turn while the disturbance itself moves along the row. The rods only move up and down, yet the pattern travels sideways — the defining idea of a transverse wave. The bent rods then show compressions and rarefactions moving in the direction of travel, the model students later apply to sound in air.

Seeing both wave types on one frame helps learners compare amplitude, wavelength and the direction of particle motion side by side. Turning the handle faster raises the frequency and the pattern moves along more quickly, a practical way to introduce the link between wave speed, frequency and wavelength. As school physics lab equipment, it is easiest to follow at eye level on a raised bench, with a chalk mark on one rod so the class can track a single particle.

OEM Manufacturer

Jain S
equip e
comp a