Email : sales@scilabexport.com
Phone: +91-7082934803

Product Name :

Gear Trains Kit

Product Code :

SLE/ETP/23



Description :

Gear Trains Kit (Product Code: SLE/ETP/23) is an engineering science teaching kit of spur,bevel and worm gears used to investigate how different gear sets transmit motion in school,polytechnic and college engineering labs. Lecturers use it to introduce gear ratio, efficiency,mechanical advantage and velocity ratio, and its double-toothed spur gears allow compound geartrain experiments. The kit is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, anOEM technical educational equipment manufacturer, at its own factory in Ambala, India, as partof its engineering lab equipment range.

Key Details

Parameter	Detail
Gears included	Spur gears, a bevel gear and a worm drive
Spur gear design	Two sets of teeth on the same shaft, allowing extra experimentsin compound gear trains
Engineering terms introduced	Gear ratio, efficiency, mechanical advantage, velocity ratio
Real-world link	Gear sets similar to those in automobile gear boxes, domesticand industrial hand tools and clockwork instruments
Student activity	Test each gear set and note the differences in its characteristics
Product code	SLE/ETP/23
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Gear Trains Kit Used For?

In a mechanics practical, students mesh one gear pair at a time, turn the input by hand and count the turns of the output to work out the velocity ratio. Comparing the effort applied with the load moved then shows mechanical advantage, and the gap between ideal and measured results explains why efficiency is always below one hundred percent.

The bevel gear shows how a drive can be turned through an angle, while the worm drive demonstrates a large speed reduction in a single stage. Joining the double-toothed spur gears into a compound train lets the class see how individual ratios multiply. A chalk or marker spot on one tooth of each gear makes counting turns much easier. As mechanics lab equipment, the kit links textbook formulas to the gearboxes and hand tools students already know.

OEM Manufacturer

ScienceLab is the trading name of Jain Scientific Equipments Private Limited, which produces the Gear Trains Kit as the original equipment manufacturer at its own licensed factory at Saha, Ambala, Haryana, India. Because the kit is made and assembled there rather than sourced from a trad
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