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Product Name :

Internal Gear Pinion Drive

Product Code :

SLE/MCE/80



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Description :

Internal Gear Pinion Drive (Product Code: SLE/MCE/80) is a hand-cranked bench-top model used to demonstrate the fundamentals of how an internal gear and pinion drive works in theory of machines and technical training classrooms. The gear train is left open for study between two clear plastic plates, and two dials show rotation so students can compare the movement of the gears. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Operation	Manual, by hand crank
Construction	Heavy duty metal and plastic
Gear train	Open system for study, sandwiched between two clear plastic plates
Indicators	2 dials to show rotation
Layout	On base; bench top or desktop use
Dimensions	400 x 200 x 300 mm
Weight	5 kg
Product code	SLE/MCE/80
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Internal Gear and Pinion Drive Used For?

In an internal gear drive, a small pinion meshes with teeth cut on the inside of a larger ring gear. Unlike an ordinary external gear pair, both gears turn in the same direction and the centre distance is shorter, which is why the arrangement appears in planetary gearboxes and compact reduction drives. Turning the hand crank slowly lets students watch the teeth engage through the clear plates and see the same-direction rotation for themselves.

Using the two dials, the class can count turns and compare the result with the ratio of tooth numbers, then discuss why internal gearing gives a compact reduction. At 5 kg and 400 x 200 x 300 mm, the model is easy to carry between classroom and workshop, making it handy engineering educational equipment in India for ITI, polytechnic and first-year engineering courses. Wipe the plastic plates with a soft cloth so the mesh stays clearly visible.

OEM Manufacturer

This demonstrator is an OEM product. Jain Scientific Equipments Private Limited, trading as ScienceLab, manufactures the Internal Gear Pinion Drive at its own licensed factory at Saha, Ambala, Haryana, India, rather than reselling a bought-in model.

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