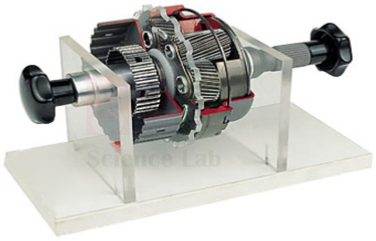
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Product Name :

Cut Model Of Planetary Gear System

Product Code :

SLE/MCE/62



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Description :

Cut Model Of Planetary Gear System (Product Code: SLE/MCE/62) is a hand-operatedcutaway model used to demonstrate how a sun gear, planet gears, planet carrier and ring gearwork together, in machine design and automotive classrooms. Built from original components thatkeep their full mechanical function, it lets students make the sun gear, carrier or ring gear thedriving, driven or fixed member. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Gear type	Planetary gear drive
Members	Central sun gear; multiple planet gears on a planet carrier; internally toothed ring gear
Configurations	Sun gear, planet carrier and ring gear may each be driving, driven or fixed
Load sharing	Torque and power distributed among several planet gears
Construction	Cutaway of original components; active parts clearly visible; full mechanical functionality kept
Mounting	Securely mounted on a base plate with carrying handles
Operation	By hand
Applications illustrated	Automotive construction and shipbuilding
Dimensions	450 × 400 × 300 mm (approx.)
Weight	10 kg (approx.)
Product code	SLE/MCE/62
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Planetary Gear Cut Model Used For?

By holding one member still and turning another by hand, students see how a single gear set can give a speed reduction, an overdrive or a reversal. Fixing the ring gear and driving the sun gear, for instance, makes the carrier turn slowly in the same direction, while holding the carrier makes the ring gear run backwards — the principle behind automatic gearboxes and marine drives.

It supports theory of machines and automobile engineering practicals on gear ratios and load sharing, and it sits well alongside other engineering lab equipment in India’s polytechnics and colleges. At about 10 kg with carrying handles, one person can take it from the store to any classroom.

OEM

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