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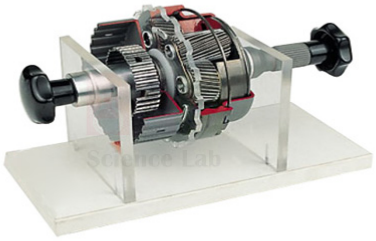
Product Name :

Cut Model Of Planetary Gear System

Product Code :

SLE/MCE/62



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Description :

The Cut Model Of Planetary Gear System is a hand-turned cutaway of a planetary gear drive: a central sun gear, several planet gears on a carrier and an internally toothed ring gear. It is built from original components that keep full mechanical function, so students can make the sun, the carrier or the ring the driving, driven or fixed member and watch what the other two do.

Planetary gear cut model 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 and operation	Mounted on a base plate with carrying handles; turned by hand
Applications illustrated	Automotive construction and shipbuilding
Dimensions	Approx. 450 × 400 × 300 mm
Weight	Approx. 10 kg
Product code	SLE/MCE/62
Minimum order	10 units
Dispatch	Usually within 7 to 10 working days
Manufacturer	ScienceLab (Jain Scientific Equipments Pvt Ltd), Ambala, India

Practicals on the planetary gear model

Speed ratio by counting turns. Hold the ring gear, put a chalk mark on the sun gear and on the carrier, and turn the sun through ten turns. Count the carrier turns, then count the teeth on each member and check the measured ratio against the tooth-count result. Repeat the count on the gear train model to compare a simple train with the epicyclic one.

The six-way combination chart. Students fix each member in turn and drive each of the other two. For every case they note the input, the output, the direction of rotation and whether the output runs faster or slower, then use the chart to solve a tabular-meth

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