

Product Name :
Multistage Planetary Gears

Product Code :
ENGLABINGCAG600023



Description :

Multistage Planetary Gears

Technical Specification :

"The planet gears are mounted on a planet carrier and engage positively in an internally toothed ring gear. Torque and power are distributed among several planet gears. The Planetary Gear is a special type of gear drive, in which the multiple planet gears revolve around a centrally arranged sun gear. Planetary gears are used in automotive construction and shipbuilding, as well as for stationary use in turbines and general mechanical engineering. Sun gear, planet carrier and ring gear may either be driving, driven or fixed.

Features:

- Four different transmissions can be configured
- Bending beams to measure force
- Two-stage planetary gears with three planet gears each
- Inductive speed sensors for speed-time diagrams to determine the angular acceleration.

Learning Objectives And Experiments:

- Gear acceleration under constant driving torque
- Influence of the transmission ratio
- Determine reduced mass moment of inertia
- Determine the transmission ratio for a locked gear

Determine friction
Determine gear efficiency
Measure transmitted forces for a locked gear
Conversion of potential energy into kinetic energy."



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