



Gear Train and drive Apparatus (SMT-TM-04)

A gear comprises at least one drive, an output and a frame. Gear drives are uniform translation gears. The rotary motion is transferred from one shaft to a second through positive transmission by gears. In spur gears, the gears are mounted on parallel axles. The drive and the output shaft are arranged in parallel. Planetary gears are a type of spur gears, in which the drive and the output shafts are on the same axle. The rail is locked in experiments with spur gears. Depending on the aim of the experiment, one or two additional axles can be positioned on the rail. The gears can be coupled to each other via driving pins or to the fixed axle. It is driven by hand. unit can be used to study gear drives in the form of spur or planetary gears.

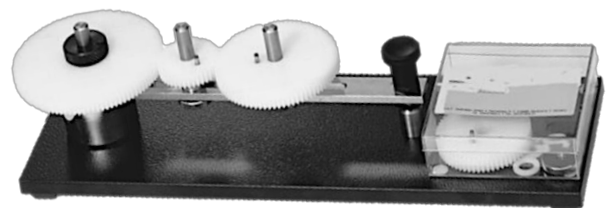
Technical Specifications

Specifications:

- Investigation of single-stage or multistage spur gears.
- Investigation of planetary gears driven by hand.
- Determine the transmission ratio by counting the revolutions of the driven gears.
- Base plate with storage for components.

Technical Data:

- Gears:
 - quantity: 4.
 - Plastic.
 - Module: 1mm.
 - Number of teeth: 40, 60, 80 and 100.
 - LxWxH: 380x120x100mm.
- Weight: approx. 3kg.



Experimental Data:

- Investigation of single-stage or multistage spur gears
- Investigation of planetary gears
- Determine the transmission ratio