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| **Product Name :** | **Product Code :** |
| --- | --- |
| Dynamic Behaviour Of Multistage Planetary Gears | TN622 |


**Description :**

Dynamic Behaviour Of Multistage Planetary Gears

**Technical Specification :**

Dynamic Behaviour Of Multistage Planetary Gears
The unit is perform the following experiments and investigations:

Learning Objectives / Experiments:
Determine the transmission ratio for a locked gear
Measure transmitted forces for a locked gear
Gear acceleration under constant driving torque
Influence of the transmission ratio
Determine reduced mass moment of inertia
Conversion of potential energy into kinetic energy
Determine friction
Determine gear efficiency

Specification:
Investigation of the dynamic behaviour of a 2-stage planetary gear
Three planet gears per stage
Four different transmission ratios possible
Gear is accelerated via cable drum and variable set of weights
Weight raised by hand crank; ratchet prevents accidental release
Clamping roller freewheel enables free further rotation after the weight has been released

Shock absorber for weight
Transparent protective cover
Force measurement on different gear stages via 3 bending bars, display via dial gauges
Inductive speed sensors
Software for data acquisition via usb under windows 7, 8.1, 10
Including PC1 Computer-System with 21" TFT-Monitor Win 10 engl.

Technical Data:
2-stage planetary gear
Module: 2mm
Sun gears: 24-tooth, d-pitch circle: 48mm
Planet gears: 24-tooth, d-pitch circle: 48mm
Ring gears: 72-tooth, d-pitch circle: 144mm
Drive
Set of weights: 5...50kg
Max. Potential energy: 245,3Nm
Load at standstill
Weight forces: 5...70N
Measuring ranges
Speed: 0...2000rpm
230V, 50Hz, 1 phase
230V, 60Hz, 1 phase; 120V, 60Hz, 1 phase
Dimensions and Weight
Length x Width x Height: 950x600x1700mm
Weight: 150kg

## Naugralabequipments

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