Product Name : Dynamic Behaviour Of Multistage Spur Gears

Product Code : TN397



Description :

Dynamic Behaviour Of Multistage Spur Gears

Technical Specification :

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

Learning Objectives / Experiments: Determining the angular acceleration on gears Determining the mass moment of inertia of the gear Determining the friction Determining the gear efficiency

Specification:

Investigation of the dynamic behavior of 1-stage, 2-stage or 3-stage spur gears 4 shafts, 3 drive wheels and 3 drive gears Shafts can be coupled by coupling pins Optional attachable flywheels to increase the rotational inertia on each shaft 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 Gear decelerated via hand-operated brake Transparent protective cover with safety lock and protective grill for the set of weights Inductive speed sensors on all drive gears 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: 3-stage gear with 4 shafts Transmission ratio per stage: i = 4:1 Overall transmission ratio: i = 64:1 Gear width: 16mm, module 2mm Drive Set of weights: 5...50kg Drop height: max. 0,65m Max. Potential energy: 320Nm 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: 970x760x1550mm Weight: 155kg

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