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Product Name :
Dynamic Behaviour Of Multi Stage Spur Gears

Product Code :
LBNY-0005-10100059



Description :

This unit is used to study the dynamic behaviour in single-stage, two-stage and three-stage spur gears during transient operation. The trainer includes four parallel shafts, three drive wheels and three drive gears. Coupling pins can be used to couple the shafts such that different gear stages can be realised. Gears are employed as a link between drive machine and work machine. They are used to vary torque and speed and to change direction. The aim of dynamic gear analysis is an understanding of the motion sequences and the influence of inertia. A flywheel may be attached to each shaft in order to increase the rotational inertia. A clamping roller freewheel enables free further rotation after the weight has been released. A hand brake allows smooth deceleration. The gear is accelerated via a cable drum and a variable set of weights. The set of weights is raised via a crank. A ratchet prevents the weight from accidentally escaping. The transparent protective cover with safety lock prevents accidental contact with the rotating parts.

Technical Specification :

Investigation of the dynamic behaviour of 1-stage, 2-stage or 3-stage spur gears
Clamping roller freewheel enables free further rotation after the weight has been released
Gear decelerated via hand-operated brake
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
4 shafts, 3 drive wheels and 3 drivegears
Shafts can be coupled by coupling pins.



Laboratory Instrument India