Product Name : Motorised Gyroscope

Product Code : NLAB-ENGINEERINGLB27004



Description :

Motorised Gyroscope

Technical Specification :

DESCRIPTION

The unit's of a motorized

gyroscope consist of a disc rotor mounted on a horizontal shaft rotating in the ball bearing of one frame. The rotor shaft is coupled to a motor mounted on a turning frame having bearings in the yoke frame which is free to rotate about vertical axis. Thus a disc can be rotated about three perpendicular axes. Angular scale and a pointer fitted to frame help to measure precision rate.

FEATURES

• Demonstrates relationship between applied torque and the rate and direction of

rotation and precision.

• Gyroscopic couple easily varied by an assortment of weights.

• Precisely balanced rotor.

- Completely portable and suitable for classroom demonstration.
- Useful to verify the relationship T=IwwP.

RANGE OF EXPERIMENTS

- Observation of gyroscopic behaviour (two laws and stability).
- Experimental justification of the equation T=IwwP for calculating the gyroscopic

couple by observation and measurement of results for independent variations in

applied couple (T) and precision (WP).

SPECIFICATION

- Disc rotor 30cm dia.10m.m. thick.
- Drive A.C. /D.C. single phase motor.
- Overall size 30 cm dia. Base, 50 cm. height.
- Weight 30 Kg approx.

SERVICE REQUIRED

- Single Phase 15 amp Electric Connection.
- Tachometer for speed measurement.
- Suitable bench area to mount the instrument.

Naugralabequipments

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