© LAB ENGINEERING

Email:

purchase@elabengineeringequipments.com Phone: +91-9811375383

Product Name:
MOTORISED GYROSCOPE

Product Code:
Theory of Machine0004



Description:

MOTORISED GYROSCOPE

Technical Specification:

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=lwwP.

RANGE OF EXPERIMENTS

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

© LAB ENGINEERING

Elab Engineering Equipments Manufacturers

2/2