

Product Name :
Motorized Universal Gyroscope Apparatus

Product Code :
DynamicsLab0009



Description :

Astra Scientific Motorized Universal Gyroscope Apparatus

Technical Specification :

The experimental apparatus is used for studying relationship between gyroscopic torque, rotor speed and rate of precession.

The equipment consists of a rotor with a motor, and a low voltage power supply and speed control. The rotor is mounted horizontally on a frame with two bearing supports. The rods with sliding weights are attached to the frame along the rotor axis to produce balance, positive or negative torque conditions. A tachometer measures rotor and progression speeds. The frame rests on a vertical shaft on bearings to permit progression. A guard with transparent front is provided for safety.

The top assembly can be removed for determination experimentally the moment of inertia, and nutation study.

FEATURES:

- Gyroscope torque vs processional speed.
- Rotor speed vs gyroscope torque.
- Determination of systems moment of inertia and nutation study.

SPECIFICATIONS:

- Rotor speed: Upto 4000 rpm.
- Precession speed: Upto 60 rpm.
- Portable tachometer: 1 ea for rotor speed.
- Stop watch: 1 ea for precession speed.
- Balancing weights: 1 lot.
- Steel ruler: 1 ea.
- Required for operation

230V, 50Hz, 1 phase

230V, 60Hz, 1 phase; 120V, 60Hz, 1 phase



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