

Product Name :
Motorized Universal Gyroscope Apparatus**Product Code :**
Dynamics0012**Description :**

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.

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

A guard with transparent front is provided for safety.

FEATURES:

Gyroscope torque vs processional speed.

Rotor speed vs gyroscope torque.

Determination of systems moment of inertia and nutation study.

SPECIFICATIONS:

Balancing weights: 1 lot.

Rotor speed: Upto 4000 rpm.

Precession speed: Upto 60 rpm.

Portable tachometer: 1 ea for rotor speed.

Stop watch: 1 ea for precession speed.

Steel ruler: 1 ea.

Required for operation :

230V, 50Hz, 1 phase

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

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