

MM 441 GYROSCOPE, Single Motor

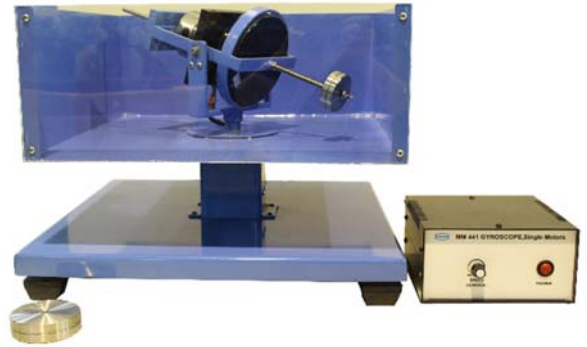
GENERAL DESCRIPTION

The 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.

Instruction manual is also included.



EXPERIMENT CAPABILITIES

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

TECHINCAL DATA

- Rotor speed : Up to 4000 rpm
- Precession speed : Up to 60 rpm
- Portable tachometer : For rotor speed.
- Stop watch : For precession speed.
- Balancing weights : 1 lot.
- Steel ruler : 1 ea.
- Power supply : 220V, 1 Ph, 50 Hz. Other power supply is available on request.

OPTIONAL EQUIPMENT

- Speed digital display instead of portable tachometer.
- Other optional equipment, please contact manufacturer (essom@essom.com)

Net (unpacked) shipping dimensions WxLxH : 51 x 51 x 40 cm
Net weight : Approx. 30 kg