

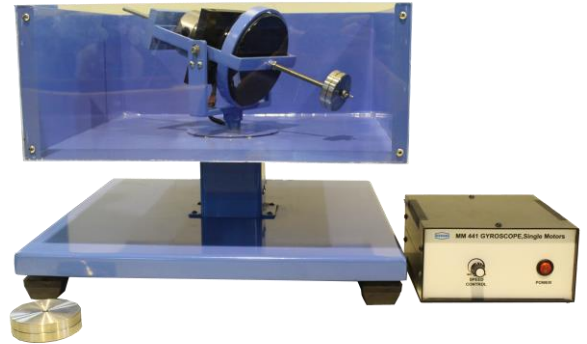
## *MM 441 GYROSCOPE, Single Motor*

### 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.



### TYPICAL EXPERIMENTS

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

### TECHINCAL DATA

- 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.
- Power supply : 220V 1 Ph 50 Hz. Other power supply is available on request.

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