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**Product Name :**  
Gyroscope Two Motors

**Product Code :**  
LBNY-0005-13000015



#### **Description :**

The rotor is mounted horizontally on a frame with two bearing supports. The frame has a horizontal screw for installation of counter weight to provide a torque. The frame rests on a vertical shaft on bearings and driven by the precession motor via a belt. The Gyroscope Two Motors apparatus is used for studying relationship between gyroscopic torque, rotor speed and rate of precession. 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. The equipment consists of a rotor with a motor, and a power supply with speed control, counter weight, precession motor, and instruments for measurement of speeds and counter weight distance.

#### **Experiments:**

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

#### **Technical Specification :**

Precession motor : Geared motor.  
Precession speed : Upto 60 rpm.  
Rotor motor : DC motor.  
Rotor speed : Upto 4000 rpm.  
Speeds : Digital display for rotor and precession.  
Steel ruler : 1 ea.  
Balancing weights : 1 lot.  
Power supply : 220V 1 Ph 50 Hz.



**Laboratory Instrument India**