

Product Code . EL-TWL-11802

Precision Gyroscope



Description

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High-quality precision made gyroscope for demonstration as well as for quantitative determination of gyroscopic laws by means of practical experiments.

The shaft angle of inclination can be read from an easily readable scale.

A spirit level allows the gyroscope to be adjusted to the horizontal.

The disc can be set rotating by hand or by means of a cord.

Fine adjustment is performed by thumb screw at the end of the shaft.

The dual ball bearing system ensures that rotation is nearly frictionless and that rotation continues for lengthy periods of time.

To generate external torque an additional weight is provided that can also be moved along the shaft.

Experiment apparatus with a shaft that can be tilted and rotated while attached to a stand rod.

On one side of the shaft, there is a disc mounted on dual ball bearings.

The open construction of the gyroscope allows gyroscopic phenomena to be observed easily and clearly.

While on the opposite side there is a movable counterweight for establishing equilibrium.

Scale: -40 degree to +40 degree.

Scale divisions: 1 degree.

Mass of counterweight: 1400 grams.

Disc: 250mm diameter.

Mass of disc: 1500 grams.

Total weight: 4650 grams.

Mass of additional weight: 50 grams.

Experiment topics:-

Moment of inertia of a disc.

Torque.

Angular momentum

Precession

Nutation.

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