

Moment of Inertia Table Setup

NV6026 Moment of Inertia Table Setup

dramatically represents how moment of inertia possesses in any body. Moment of Inertia plays an important role in our daily life. Setup familiarizes with the concept of Moment of Inertia along with rotational motion of object. Setup explains how it is affected by mass and distance from the axis of rotation. Our setup allows to determine the moment of inertia of various objects. For time measurement of rotation, measurement unit is included with manual and automatic mode.



- Micro controller based Measurement Unit
- Engraved and ruled inertia discs
- Inverted U- shaped metal body with chuck screw connection
- Measurement unit gives instant result of moment of inertia
- Three auxiliary bodies
- Two years warranty

Scope of Learning :

- Determination of the moment of inertia of given body using inertia table.
- Determination of the moment of inertia of given body using inertia table using lamp and scale arrangement.
- Prove the perpendicular axis theorem of moment of inertia using inertia table.

Technical Specifications :

Circular Base

Type : Iron
Diameter : 25cm

Inertia Discs

Type : Aluminium
Diameter : 15cm
Balancing ring : 04

Suspension Wire

Type : M.S. Wire
Width : 28 gauze

Auxiliary Bodies of known MOI

Square

Sides : 3.2 cm
Weight : 252.2 gm

Triangle

Sides : 3.6 cm
Weight : 173.8 gm

Cylindrical

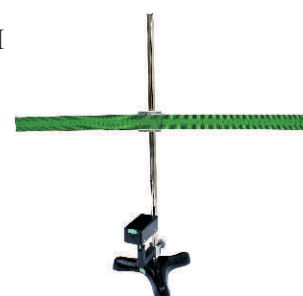
Radius : 1.9 cm
Weight : 300.4 gm

Lamp & Scale(Optional)

Lamp : Laser light source
Scale : 30-0-30 cm



Measurement Unit



Lamp & Scale