



**55935** Moment of Inertia Table Setup dramatically represents how moment of inertia is possessed in any body. Moment of Inertia plays an important role in our daily life. This 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.

### Features

1. Micro controller based Measurement Unit
2. Engraved and ruled inertia discs
3. Inverted U- shaped metal body with chuck screw connection
4. Measurement unit gives instant result of moment of inertia
5. Three experimental bodies

### Object

1. Determination of the moment of inertia of given body using Inertia Table
2. Determination of the moment of inertia of given body using inertia table using lamp and scale arrangement
3. Prove the perpendicular axis theorem of moment of inertia using Inertia Table

### Technical Specifications

#### Circular Base

Type : Iron  
Diameter : 25cm

#### Inertia Discs

Type : Aluminum  
Diameter : 15cm  
Balancing ring : 04 nos.

#### Suspension Wire

Type : MS Wire  
Width : 28 gauge

#### Auxiliary Body of known MOI Cylindrical

Radius : 1.9cm  
Weight : 300g

#### Lamp & Scale(Optional)

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

Note: Specifications are subject to change.