



Email : sales@laboratoryinstrumentindia.com

**Product Name :**  
Inertia In Rotational Motion Apparatus

**Product Code :**  
LBNY-0005-10100080



#### **Description :**

This apparatus enables experiments to be performed on rotational motion in general. The arrangement is fitted to a low friction ball bearing mounted rotating drum. The system is accelerated by a metal weight attached to a cord wrapped around the drum. Weights can be fitted to a rotating rod at marked distances from the centre. A dumb bell-shaped arrangement is thus created; the inertia properties of this arrangement can be changed easily and recalculated. The experiment is set up quickly using table clamps and stands; it is ideally suited to group work for 2-3 persons. The time taken for the weight to fall is measured using a stopwatch, the moment of inertia of the object can then be determined.

#### **Technical Specification :**

Ball bearing mounted rotating drum, anodised aluminium  
Acceleration of system by weight attached to the drum  
Student experiments on moments of inertia, comparison of the inertia of rotation of various bodies  
Metal rotating bar, weights with knurled bolts for quick fastening  
Solid and hollow test cylinders

#### **Technical data:**

Hollow cylinder  
Outer diameter:  $d=120\text{mm}$   
Inner diameter:  $d=110\text{mm}$   
Mass: 0.9kg  
Solid cylinder  
Diameter:  $d=120\text{mm}$

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Mass: 900g

Weight for the drive: 1n

Rotating rod: 550mm long, d=10mm

Weights: 100g, 200g, 400g

Dimensions and weight:

L x w x h : approx. 600 x 200 x 400 mm (set-up)

Weight : approx. 9 kg.



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