

Product Name :
Inertia in Rotational Motion Apparatus**Product Code :**
ALABS-A167-121**Description :****Inertia in Rotational Motion Apparatus**

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

Specification:

1. Student experiments on moments of inertia, comparison of the inertia of rotation of various bodies
2. Metal rotating bar, weights with knurled bolts for quick fastening
3. Solid and hollow test cylinders

4. Ball bearing mounted rotating drum, anodised aluminium

5. Acceleration of system by weight attached to the drum

Technical Data:

- Rotating rod: 550mm long, D=10mm

- Weights: 100g, 200g, 400g

- Solid cylinder

- diameter: D=120mm

- mass: 900g

- Hollow cylinder

- outer diameter: D=120mm

- inner diameter: d=110mm

- mass: 0.9kg

- Weight for the drive: 1N



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