

Product Name :
Rotational Inertia

Product Code :
TN662



Description :

Rotational Inertia

Technical Specification :

Rotational Inertia

The unit is perform the following experiments and investigations:

Learning Objectives / Experiments:

Investigation of the inertia of rigid bodies in rotational motion

Determine mass moments of inertia of different, regularly shaped bodies

Investigation of the mass moment of inertia as a function of the radius

Specification:

Investigation of the inertia of various bodies in rotational motion

Hollow cylinder, solid cylinder or rotating bar with

As a rotating body

Generate a uniformly accelerated rotational motion via weight, pulley and cable drum

Rotating bar: adjustable position of the mass to realise different radii

Measure the time and the acceleration distance

Position and fix the parts

Table Clamps

Technical Data:

Rotating bar

Length: 550mm

Masses: 2x 0,1kg, 2x 0,2kg, 2x 0,4kg
Solid cylinder
Diameter: 120mm
Mass: 0,9kg
Hollow cylinder
Outer diameter: 120mm
Inner diameter: 110mm
Mass: 0,9kg
Weight for the drive
1N
Dimensions and Weight
Length x Width x Height: 730x180x480mm (set-up)
Weight: 13kg

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