

Product Name :
Torsional Vibrations

Product Code :
TN996



Description :

Torsional Vibrations

Technical Specification :

Torsional Vibrations

The Torsional Vibrations unit can be used to study torsional vibration on torsion bars with different diameters and different lengths. At the top end, the torsion bars are clamped in a quick-action chuck.

A solid circular disk or a circular ring is fixed at the bottom end of the bar using a quick-action chuck. They have the same mass and the same diameter, but different moments of inertia due to their shape.

The unit is perform the following experiments and investigations:

Learning Objectives / Experiments:

Determine the oscillation period as a function of

The length of the torsion bar

The diameter of the torsion bar

The rotating mass and its shape.

Specifications:

Torsional vibrations on different torsion bars.

5 aluminium torsion bars with different diameters.

Adjustable effective length of the torsion bars.

Quick-action chucks to swap components.

Generate torsional vibration via a circular disk or ring.

Stopwatch to measure the oscillation period.

Bracket for wall mounting.

Technical Data:

Five torsion bars

Aluminium

Length: 1100mm

Diameter: 2mm, 3mm, 4mm, 5mm, 6mm

Circular ring

Outer diameter: 160mm

Inner diameter: 100mm

Height: 31mm

Moment of inertia: 0,01335kgm²

Circular disk

Diameter: 160mm

Height: 19mm

Moment of inertia: 0,0096kgm²

Stopwatch: 1/100s

Dimensions and Weight

Length x Width x Height: 700x200x200mm

Weight: 12kg

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