



Features

- Laws on the behaviour of rotating masses

Tesca Centrifugal Force Apparatus enables the forces exerted on rotating masses to be studied. The core of the unit is a rotating arm with a vertical axis of rotation. Mass bodies made of metal are anchored to the arm in retaining holes. The centrifugal force exerted is transmitted from the arm to a bending bar. The deformation of the bar, which is proportional to the force, is recorded by an electronic measuring system and is displayed digitally. The rotational speed of the regulated drive motor, also displayed digitally, can be continuously adjusted using a 10-turn potentiometer. In operation a transparent protective lid covers all rotating parts but nevertheless ensures a clear view of the experiment. The table unit can be set up where required and does not need to be clamped in place, the unit is also portable.

Specifications

- Measurement of centrifugal force on rotating masses
- 5 different path radii
- 3 different rotating masses
- Force measuring range 0...25N
- Rotational speed continuously regulated

Note: Specifications are subject to change.

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- Digital display of force and rotational speed
- LxWxH 420x400x270mm
- Experimental set-up in the standard frame

Technical Specifications

- Path radii: 25mm, 50mm, 75mm, 100mm, 125mm
- Rotating masses: 54g, 79g, 105g
- Speed range: 0...500rpm
- Load
 - Measuring range: 0...25N
 - Resolution: 0.1N

Experiments

- Dependency of centrifugal force
- On the rotational speed
- On the size of the rotating mass
- On the radius of rotation