

Rolling Disc on an Inclined Plane Apparatus (EDC-TM-114)

EXPERIMENTAL DATA:

- Demonstration of the law of gravity on an inclined plane.
- Influence of the mass of a body on its acceleration.
- Determination of the moment of inertia on rotating masses by performing a rolling test.



DESCRIPTION:

This apparatus is designed to determine the moment of inertia of disc through rolling action. Discs of various materials are used to determine moment of inertia. A metallic base with a three-point support is used as a base for the experiment; the different rotating masses are rolled down this plane. The inclined plane can be precisely aligned using integrated spirit levels and three levelling bolts. The angle of inclination is adjusted using an adjustment bolt. A 1000mm ruler is integrated directly into the inclined plane for measuring the distance.

This benchtop unit enables basic experiments to be performed on dynamics and is ideal for laboratory experiments.

TECHNICAL SPECIFICATIONS:

- Length of experimental area: 1000mm
- Disc diameter: $\varnothing 70$ & $\varnothing 100$ mm
- Disc material: Steel, Brass & Aluminum

RELATED LAWS:

- Moment of Inertia
- Acceleration
- Angle of Inclination
- Simple Machines

SCOPE OF DELIVERY:

- 1 x EDC-TM-114 Assembly
- 2 x Metallic Disc specimen
- Instruction manual

WEIGHT AND DIMENSIONS:

- L x W x H (mm): 1300 x 200 x 170
- Weight (approx): 9 kg

