

## Cam and Follower Apparatus (EDC-TM-107)

### EXPERIMENTAL DATA:

- To determine follower displacement against angular rotation of the cam
- To derive the displacement diagram of different cam profile
- To assess the effect of different cams and followers



### DESCRIPTION:

A wall mounted base plate contains central shaft for cams to rotate around and a dial gauge indicator is used to determine the rise, dwell and fall of follower movement. Cams are rotated by hand.

The angular position of the cam is shown on a protractor and a pointer. Four interchangeable cams and two followers are also provided compare the linear change with the rise and fall of the follower.

A set of cams are supplied as standard along with a set of followers which run on the perimeter of each cam. Each cam can be easily changed and the angular and dial gauge readings are clear.

### TECHNICAL SPECIFICATIONS:

- Dial gauge: 25mm range, 0.01mm resolution
- Angular protractor scale with 360° range and 1° resolution

### SCOPE OF DELIVERY:

- 1 x EDC-TM-107 Assembly
- 1 x Simple Harmonic Motion Cam
- 1 x Uniform Motion Cam
- 1 x Constant Acceleration Cam
- 1 x Tangent Cam
- 1 x Eccentric Cam
- 1 x Dial Gauge
- Instruction manual

### RELATED LAWS:

- Mechanisms
- Cams
  - Followers
  - Constant Speed
  - Velocity Diagram
  - Acceleration Diagram
  - Linear displacement against rotation
  - Simple Harmonic Motion

### WEIGHT AND DIMENSIONS:

- L x W x H (mm): 300 x 200 x 150
- Weight (approx): 4 kg