RELATION BETWEEN ANGULAR and LINEAR SPEEDS
HTM22

Year 1
study

Features
- Very visual teaching apparatus
- Relationship between angular rotation and tangential speed
- ‘Stepped’ shaft with three different diameters
- Adjustable masses
- Timer and measuring device supplied

Description
The stepped shaft is secured to a main shaft, which itself is secured within a bracket. The bracket can be bench or wall mounted.

Wrapped around the circumference of each step of the shaft is cord. At the ends of each cord is a single adjustable mass. The adjustment of the mass can be made to ensure that the starting positions of each mass is the same even though the steps are different diameters. Alternatively the starting position of each mass can be made different.

The shaft is rotated by a handle which can be locked by a retaining screw. The angular movement of the shaft and the corresponding linear movement of the weights can be compared.

Related laws
- Rolling Movement
- Bicycles
- Vehicles
- Circumference

Learning capabilities
- To find the relationship between angular rotation and the peripheral movement of the stepped shaft
- Compare actual results with theory

Technical Specification

- Stepped Shaft diameters: Ø25, Ø50, Ø75mm
- 3 x Mass: Ø25 x 25mm long;

Recommended Ancillaries

- HAC10
- HST100

What's in the Box?

- 1 x HTM22 Assembly
- 1 x Tape measure
- Spare Cord
- Packing list
- Test sheet

Weights & Dimensions

- Weight: 2 kg
- Length: 210mm
- Width: 150mm
- Height: 80mm

Essential Services

- Sturdy vertical support

Operational Conditions

- Storage temperature: -10°C to +70°C
- Operating temperature range: +10°C to +50°C
- Operating relative humidity range: 0 to 95%, non condensing

Ordering information

To order this product, please call PA Hilton quoting the following code:
HTM22