



WHEEL and AXLE HTM1



Year 1
study

Features

- Wall mounted apparatus
- Can be mounted to HST1, HST100, HAC10, HAC14, HVT12f frames
- Introduction to mechanics of Wheel and Axle
- 'Effort' and 'Efficiency' investigated
- One assembly; two wheels; two diameters.
- Full set of weights and hangers supplied

Description

The dual diameter wheel has an axle supported on simple pivots in a sturdy wall mounting bracket. Each wheel has a cord wrapped around its periphery. The cords can be wrapped in either direction around each wheel. A Load hanger is added to each cord allowing loading of the wheels using the calibrated weights set provided.

Related Laws/Applications

- Velocity Ratio
- Mechanical Advantage
- Effort
- Effort of Friction
- Efficiency
- Simple Machines

Learning capabilities

- Experimental determination of velocity ratio and comparison with calculated value
- Determination of variation with load of effort
- Determination of variation with load of efficiency

Technical Specification

- Large wheel diameter: $\text{Ø}150\text{mm}$
- Small Wheel diameter: $\text{Ø}75\text{mm}$
- Maximum recommended load: 200N
- Weights set: 1 x 0.1N, 2 x 0.2N, 1 x 0.5N, 1 x 1N, 2 x 2N, 2 x 5N, 2 x 10N, 2 x 20N

Essential Ancillaries

- HAC14
- HAC10
- HST1
- HST100
- HVT12f

What's in the Box?

- 1 x HTM1 assembled
- 1 x Load hanger
- 1 x 0.1N, 2 x 0.2N, 1 x 0.5N, 1 x 1N weights
- 2 x 2N, 2 x 5N, 2 x 10N, 2 x 20N weights
- 1 x Tape measure
- Spare Cord
- Instruction manual
- Packing list
- Test sheet

You might also like

- HTM2
- HTM21

Weights & Dimensions

- Weight: 2.5 kg
- Length: 170mm
- Width: 110mm
- Height: 150mm

Essential Services

- Recommended Suspension height not to exceed 1.5metres

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:
HTM1

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