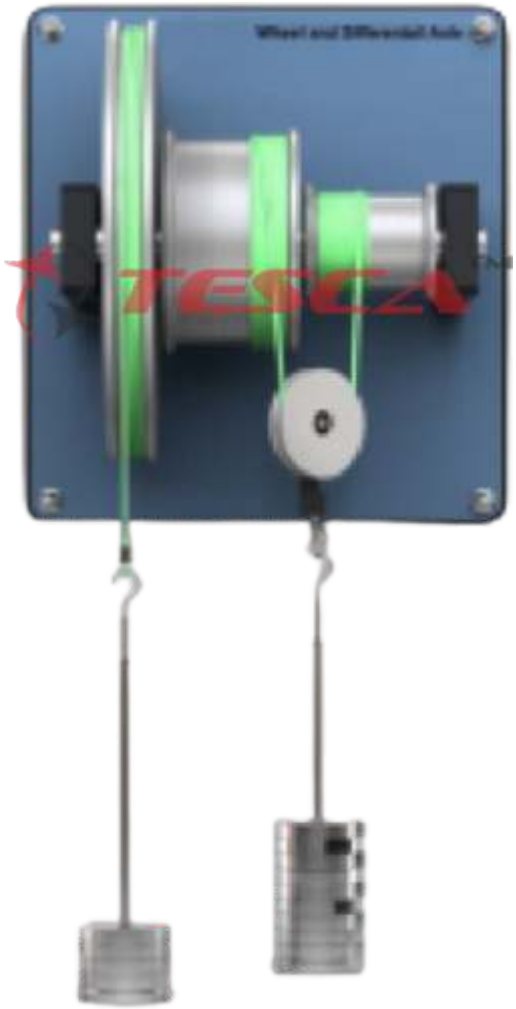

Features

Tesca Wheel and Axle Apparatus has 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.

Using the hangers and weights allows the experimental determination of velocity ratio and comparison with calculated values. Students can also determine the variation of effort with load and the variation of efficiency with load.
A comprehensive instruction manual for lecturer and student, giving full details on apparatus assembly and operation as well as example results. All necessary assembly and operational tools are provided

Specifications

- Wall mounted apparatus for investigation of the mechanics of simple wheel and axle machine
- Supplied with wall mounting bracket, wheel and axle machine, cord pulleys and load hangers
- Wheel diameter#1 = Ø138mm
- Wheel diameter#2 = Ø68
- Set of weights
- Comprehensive instruction manual provided

Experiments

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

Operating Conditions

- Operating environment:
  * Laboratory
- Storage temperature range:
  * –25oC to +55oC (when packed for transport)
- Operating temperature range:
  * +5oC to +40oC
- Operating relative humidity range:
  * 80% at temperatures < 31oC decreasing linearly to 50% at 40oC

Note: Specifications are subject to change.

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