



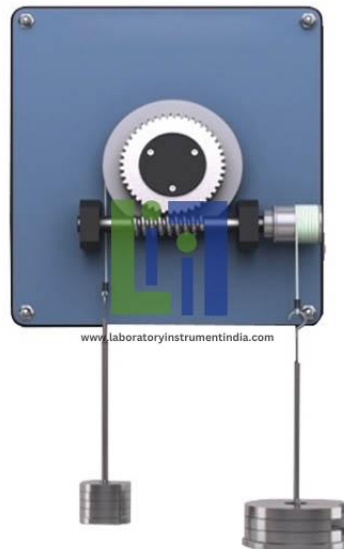
Email : sales@laboratoryinstrumentindia.com

Product Name :

Worm and Wheel Apparatus (30 : 1 ratio)

Product Code :

LBNY-0005-14000031



Description :

The Worm and Wheel Apparatus pair has a single start and a ratio of 30:1. The Worm and Wheel Apparatus are positioned a set distance apart to mesh correctly. Both parts run in bearings with the worm operating with an additional thrust bearing. Worm and Wheel Apparatus high quality example of an industry standard worm and wheel pairing is built on a substantial wall mounted bracket for vertical mounting.

Attached to the end of the Worm and Wheel Apparatus is a pulley (EFFORT) of known effective diameter. This pulley is used for the loading of the system. Again a cord is wrapped around its periphery and terminates in a load hanger. This hanger helps exert the loading onto the system via the weights set provided. This pulley helps exert the effort to raise a load. A cord is wrapped around its periphery and terminates in a load hanger for applying effort load. Attached to the front of the wheel is another pulley (LOAD) of known effective diameter.

Experimental Capabilities:

Determination of EFFORT with variation of load

Determination of limiting efficiency of the machine

Determination of friction with variation of load

Experimental determination of velocity ratio and comparison with calculated value

Determination of efficiency with variation of load.

Technical Specification :

Worm and Wheel centre distance 65mm

To mount at least 1500mm above floor

5N 'EFFORT' hanger and 1N 'LOAD' Hanger

Wall mounted

Load pulley effective diameter $\text{\O}97\text{mm}$
Effort pulley effective diameter $\text{\O}97\text{mm}$
Weights set Comprehensive instruction manual provided.



Laboratory Instrument India