

Product Name :
Worm And Wheel Single Start, 30:1 Ratio

Product Code :
ELABBTM003



Description :

Worm And Wheel Single Start, 30:1 Ratio

Technical Specification :

Worm And Wheel Single Start, 30:1 Ratio Features Low cost, effective teaching Self-contained Wall mounted Introduction to simple machines Determination of velocity ratio mechanical advantage and efficiency Three year warranty Range of Experiments Experimental determination of velocity ratio and comparison with calculated value Determination of variation with load of: effort friction efficiency Limiting efficiency of the machine Description This high quality example of a steel worm and phosphor bronze wheel is built on a substantial wall mounted base. Both worm and wheel have integral cord drums with cords and load hangers to provide torque. The velocity ratio of 30:1 is achieved by a single start worm. This equipment is part of a range designed to both demonstrate and experimentally confirm basic engineering principles. Great care has been given to each item so as to provide wide experimental scope without unduly complicating or compromising the design. Each piece of apparatus is self-contained and compact. Setting up time is minimal, and all measurements are made with the simplest possible instrumentation, so that the student involvement is purely with the engineering principles being taught. A complete instruction manual is provided describing the apparatus, its application, experimental procedure and typical test results.

