

**Product Name :**  
Wall Mounted Screw Jack**Product Code :**  
ELABBTM006**Description :**

Wall Mounted Screw Jack

**Technical Specification :**

Wall Mounted Screw Jack Features Low cost, effective teaching Self-contained Wall mounted Introduction to simple machines Determination of velocity ratio mechanical advantage and efficiency Comparative efficiency of square and Vee form threads 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 Comparison of relative efficiency of Vee and Square thread forms

Description The experimental screw jack mechanism is built on a sturdy wall bracket The shaft of the 200mm diameter turntable has both square and Vee form threads of 24mm x 3mm pitch. The load hanger can be suspended from a yoke from either of the nuts. Torque is applied to the turntable through two "effort" hangers, and can be arranged to either lift or lower the load. 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.

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