

Product Name :
Work Done By A Variable Force (Tangential Effort)

Product Code :
ELABBFA004



Description :

Work Done By A Variable Force (Tangential Effort)

Technical Specification :

Work Done By A Variable Force (Tangential Effort) Features Low cost, effective teaching Self-contained Bench mounted Reinforces concepts of work and energy Direct reading of tangential effort Three year warranty Range of Experiments To obtain the experimental relationship between effort and distance moved by effort, and to compare with a theoretical prediction To show that the work done is the area under a graph of load against distance moved Description This experiment is designed to reinforce the general principle that the work done, particularly by a variable force, can be determined simply by measuring the area under the graph of force and distance moved. The equipment is deliberately simple so that concepts are readily grasped. It is a companion experiment to HFC6, which is concerned with the work done by available vertical force. A pivoted arm carrying a weight at its end is restrained by a spring balance at right angles to the arm. The angular position of the arm is indicated by a protractor scale. The effort is the force needed to hold the weighted arm at a particular angle. This can be repeated for several different weights. 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.

LAB ENGINEERING

Elab Engineering Equipments Manufacturers