

Product Name :
Bell Crank Lever

Product Code :
ELABBFA006



Description :

Bell Crank Lever

Technical Specification :

Bell Crank Lever Features Low cost, effective teaching Self-contained Bench mounted 5 different lever ratio Direct readout of reaction by spring balance Three year warranty Range of Experiments To determine by experiment the reaction force of a bell-crank lever to an applied load To confirm the effect of leverage ratio To compare with calculation by taking moments about the pivot Description Lever mechanisms of all shapes and sizes are very common parts of machines, particularly in hand operated devices. The bell crank lever offers the typical mechanical advantage of a lever, and in addition it turns the line of action of the effort through 90°. In most cases the cranked lever would be a casting with a bushed pivot at the corner. The experimental model has been built up from plastic to simulate the real thing. This traditional item enables the reaction force of a 90° bell crank to be measured by a spring balance when a load is applied at any of five leverage ratios. The bell crank is supported on a bushed pivot. 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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