

Product Name :
Triangle Of Forces Apparatus**Product Code :**
ELABBFA0025**Description :**

Triangle Of Forces Apparatus

Technical Specification :

Triangle Of Forces Apparatus Features Low cost, effective teaching Self-contained Bench mounted Direct measurement of forces Adjustable lines of action of forces Practical verification of triangle of forces Three year warranty Range of Experiments To find any suitable combination of three coplanar forces in equilibrium To compare the results with the graphical solution obtained by drawing the triangle of forces To demonstrate that the resultant of two known forces is equal and opposite to the equilibrant found experimentally Description A bench mounted circular table with a central pin and 360° protractor has three pulleys on adjustable clamps round the edge. Conditions of equilibrium are obtained by centralising a small cord ring over the central pin with cords to load hangers where the loads and lines of action are variable. The triangle of forces in equilibrium can be constructed and the resultant of two known forces can be found. 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.

Elab Engineering Equipments Manufacturers

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