

Product Name :
Hooke's Coupling Apparatus**Product Code :**
ELABBTM0016**Description :**

Hooke's Coupling Apparatus

Technical Specification :

Hooke's Coupling Apparatus Features Low cost, effective teaching. Self-contained. Bench mounted. Two independent Hooke's joints with common shaft. Wide range of shaft misalignment. Input and output shaft rotations. measured by protractor scale. Direct measurement of relative shaft displacements. Inference of relative shaft velocities and accelerations. Three year warranty. Range of Experiments To observe the relative angular displacement of the shafts at opposite ends of a single and double Hooke's Joint. To observe the effect of changing the angles between the axes of the coupling(s) and shaft on the relative angular shaft displacements To determine by graphical differentiation the relative angular velocities of the shafts To compare the experimental results with theoretical predictions

Description The apparatus consists of an identical Hooke's coupling at each end of a shaft. The axis of each coupling can be independently varied relative to the main shaft axis. Each coupling has a pointer and protractor scale so that the angular difference between the input and output shafts can be determined for a range of shaft angular positions. A wide variety of angular settings for single or double couplings is possible. The couplings are mounted on a free standing pressed steel base. 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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