

Product Name :
Gear Trains Apparatus

Product Code :
ELABBTM0020



Description :

Gear Trains Apparatus

Technical Specification :

Gear Trains Apparatus Features Low cost effective basic level teaching Self-contained Bench or wall mounted Drawer to hold unused parts Four gears Simple, compound, epicyclic trains Many combinations of gear ratios Determination of velocity ratio Three year warranty Range of Experiments To show that for a single spur gear train, the ratio of the speeds of the driver and driven wheels are inversely proportional to the ratio of the number of teeth To verify that intermediate gears have no effect on the velocity ratio To establish the sense of rotation of a gear train with one or more intermediate wheels To verify that for a compound gear train the velocity ratio depends on the ratio of teeth on the intermediate wheel To investigate the velocity ratio of epicyclic gear trains Description Four spur gears of different numbers of teeth can be arranged in many combinations of single and compound gear trains. Additionally the mounting arm can be rotated as part of an epicyclic gear train. The base is fitted with a drawer to house all gears, pins and spacers not in use. 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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