

Product Name :
Acceleration Apparatus

Product Code :
ELABBFA0020



Description :

Acceleration Apparatus

Technical Specification :

Acceleration Apparatus Features Self-contained Bench mounted Novel gliding design Total mass of moving system can be kept constant for different acceleration masses Acceleration determination by spark generator and electro-sensitive paper Confirmation of Newton's Second Law of Motion Determination of gravitational acceleration Three year warranty Range of Experiments To show that a force causes a mass to accelerate, and that the acceleration is proportional to the force To compare experimental and theoretical values of forces required to accelerate a given mass To determine the acceleration due to gravity, g Description This type of equipment has been used for many years to introduce students to accelerated linear motion, in particular the dependence of the acceleration on the net force causing the motion. Confirmation of Newton's second law of motion and the determination of gravitational acceleration are possible. The trolley which carries five removable masses glides on two rails attached to the base. Electro-sensitive paper strip attached to the trolley passes through a spark generator which produces five impulses per second, enabling the trolley acceleration to be accurately determined. The weights which produce the accelerating force are hung directly onto the paper strip. All required equipment is supplied. Further rolls of electro-sensitive paper are available. 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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