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Email :
purchase@elabengineeringequipments.com
Phone: +91-9811375383

Product Name : Fletcher's Trolley	**Product Code :** ELABBFA0021

Description :

Fletcher s Trolley

Technical Specification :

Fletcher's Trolley Features Traditional design Self-contained Bench mounted Total mass of moving system can be maintained constant for different acceleration masses Five trolley masses Acceleration determination by ink trace 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. This strongly built traditional apparatus produces very accurate results. The trolley has five removable weights. During an experiment, the total mass of the moving equipment can be maintained constant by transferring weights from the rear of the trolley to the load hanger. Acceleration is measured using an inked brush attached to a vibrating arm. This traces out an oscillatory trace on a piece of paper fixed to the trolley. 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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