

Description

"Claw" Mechanism Science Labs

Features:-

Low cost, effective teaching Self contained Easily seen from a distance Mechanism clearly understandable Loci drawn for further study Standard mechanism for intermittent feed.

Range of Experiments To determine the loci of the moving parts of the standard mechanism To establish the characteristics of that mechanism: for example to see which links move faster than others or whether a particular motion (such as a straight line) is developed Description One of sixteen mechanisms built on an A3 board equally suitable for the classroom, drawing office or laboratory.

The principal components are made from amber coloured Perspex, pivoted with hollow rivets, and mounted on a white melamine board for contrast and visibility.

To see the mechanisms move is far more instructive and convincing than listening to a static lecture.

The hollow rivets accept a pencil for transferring the loci of the joints to a sheet of paper, clipped to the board.

A pair of gear wheels pivoted at O and P run in mesh at the same speed.

On one wheel a pivot carries a moving arm while a pin on the other wheel slides in a curved slot in the arm.

An extension to the arm terminates in a fine claw which traces out a loop with a flat side each time the wheels make one revolution.

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.

Each mechanism is supplied with a manual which gives full instructions for producing the loci and applications of the assembly.

The typical graphical result is appended.
