

Product Name :
Slotted Link Mechanism Apparatus

Product Code :
NLAB-MECHANICALAB240022



Description :

Slotted Link Mechanism Apparatus

Technical Specification :

The demonstration model is used to generate and investigate pure harmonic reciprocating motion. An anodised aluminium disc used as crank is mounted on ball bearings on a white plate. This disc has a pointer so that the input angle can be exactly read on the integrated angle measuring scale. The crank pin can be set at different radii on the disc. The slider crank is attached to the crank pin on one side. On the other side the pin is mounted in straight guide that is fitted with a ruler to allow the output stroke to be read off with precision. The model is equipped with plastic feet and is placed on the laboratory table for the experiment. Two metal handles make the unit easier to carry.

Learning Objectives / Experiments

Conversion of smooth rotary motion into a purely harmonic reciprocating motion

Influence of crank length and input angle on the output stroke

Slotted Link Mechanism

Specification

Demonstration and laboratory experiment on harmonic reciprocating motion

Aluminium crank disc, anodised, 3 different crank radii

Anodised slider crank with 3 different output strokes

Integrated angle measuring scale and ruler

lxwxh 380x280x100mm

Technical Data

Crank radius- 25mm

37.5mm

50mm

Output stroke- 50mm

75mm

100 mm

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