

Product Code . JL-TOMLE-10013

Cariollis Component of Acceleration



Description

Cariollis Component of Acceleration

This set up is designed to study coriollis component of Acceleration of a slider crank Mechanism.

The apparatus uses hydraulic analogy to represent the rotating slider.

It consists of a rotating block with two arms in opposite direction.

These tubes can be rotated at various speeds by using a swinging field motor, which also acts as a dynamometer to measure torque applied to rotating tubes.

A Perspex window on top cover helps to visualize the process. Rotameter is used to measure water flow rate through tubes.

Water is circulated by small monoblaock pump.

Specifications:-

Main Tank with fiberglass lining.

Rotating Arms 9/6 mm dia, 300 mm long.

Motor Swinging field, D.C., 0.5 HP.

Rotameter

Monoblock Pump

Control Panel comprising of:-

Speed Control Unit.

Speed Indicator.

Necessary switches.

Rigid support frame.

Range of Experiment:-

Coriolis Component of Acceleration can be determined at various speeds of rotation and water flow rates.

Service Required:-

A.C. Single Phase .230 V. stabilized supply.

Floor Space:-1.5 m X 1.5 m.

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