

Product Name :
Cariollis Component Of Acceleration

Product Code :
TML0008



Description :

Cariollis Component Of Acceleration

Technical Specification :

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.

Services Required:

- A.C. Single Phase .230 V. stabilized supply.
- Floor Space -1.5 m X 1.5 m

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