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:

1.Main Tank with fiberglass lining.
2.Rotating Arms 9/6 mm dia, 300 mm long.
3.Motor - Swinging field, D.C., 0.5 HP.
4.Rotameter
5.Monoblock Pump
6.Control Panel comprising of -
  (i) Speed Control Unit.
  (ii) Speed Indicator.
  (iii) Necessary switches.
7.Rigid support frame.

Range of Experiment:

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

Service Required:

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

Note: Specifications are subject to change.

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