

Product Name :
Impact of Jet Apparatus

Product Code :
DM265



Description :

Impact of Jet Apparatus

Technical Specification :

Impact of Jet Apparatus The present setup is designed to study the impact of jet on stationary vanes. It consists of test section fitted with a nozzle at the bottom through which water is fed and discharged vertically to strike a target carried on a stem, which extends through the cover. A weight carrier is mounted on the upper end of the stem and dead weight of the moving parts is counter balanced by a compression spring. The vertical force exerted on the target plate is measured for applied weights. Two targets are provided with the setup, which can be attached /detached easily without need of any extra tool. Centrifugal pump is used to re-circulate the water from sump tank to the test section and is return back to the sump tank. Flow diverter is provided to divert the flow either to measuring tank or sump tank. Experiments can be conducted on different flow rates and measured with the help of measuring tank with piezometer and stopwatch. Technical Details: Target: Flat Plate and Hemispherical Cup, 1 No. each Nozzle: Material Brass Jet Enclosure: Made of Acrylic Counter weights: One set of dead weights. Water Circulation: FHP Pump, Standard make Flow Measurement: Using Measuring Tank with piezometer, Capacity 25 Ltrs. Sump Tank: Capacity 50 Ltrs. Stop watch: Electronic. Control Panel Comprises of: Standard make On/Off Switch, Mains Indicator, etc. Tanks will be made of Stainless Steel. An English instruction manual consisting of experimental procedures, block diagram etc. will be provided along with the Apparatus. The whole set-up is well designed and arranged on a rigid structure painted with industrial PU Paint. Experimentation/Learning Objectives: To measure the force developed by a jet of water upon a target (Hemispherical cup or Flat Plate) and comparison with the forces predicted by the momentum theory. Utilities Required Electricity supply: Single Phase, 220 V AC, 50 Hz, 5-15 Amp. Combined socket with earth connection. Earth voltage is less than 5 volts. Water Supply: Initial fill. Floor Drain. Floor Area: 1.5 m x 0.75 m

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