

Product Name :
Pelton Wheel Turbine Test RIG- 1HP

Product Code :
NLAB-MECHANICALAB220007



Description :

Pelton Wheel Turbine Test RIG- 1HP

Technical Specification :

DESCRIPTION

The unit consists of a small Pelton wheel connected to a rope brake. Water is supplied to the turbine by a Monoblock pump. Water flow is measured by a Orificemeter and pressure gauges. Water jet is directed over the buckets by a nozzle. A control valve operating the nozzle controls the water flow. Thus students can visualize the operation & estimate B.H.P. and efficiency of the Pelton turbine.

SPECIFICATION

- Pelton Wheel - Fitted with 12 buckets, nozzle for water jet, casing with one side of perspex sheet developing 1 Kw at 1000 rpm, complete with rope brake arrangement, pressure & Vacuum Gauges for conducting experiments.
- Piping system consisting of pipes, valves and fittings complete set suitable for the Pelton Turbine Test Rig.

- Supply pump set 5 HP 'Crompton' make suitable for supplying water to the above turbine
- Starter suitable for the above motor pump set.
- Flow measuring unit consisting of Orificemeter and Pressure Gauges.
- Rope brake dynamometer with spring balance.
- Mild steel sump to store sufficient water for experimentation and arranged within the floor space of the main unit and to operate without any concrete foundation.
- A technical manual accompanies the unit.

SERVICES REQUIRED

- 440 V, 32 A, AC supply.
- Floor space of 3m x 3m (approx)
- Tachometer (can be supply at extra cost.)

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