

Product Name :
Pelton Wheel Turbine Test Rig

Product Code :
DM149



Description :

Pelton Wheel Turbine Test Rig

Technical Specification :

The water strikes the buckets along the tangent of the runner. The energy available at the inlet of the turbine is only kinetic energy. The pressure at the inlet and outlet of the turbine is atmospheric. This turbine is used where water at high head is available. The present set-up consists of a runner.

The buckets are mounted on the runner. The water is fed to the turbine, through SS nozzle with a SS spear, by means of Centrifugal Pump, tangentially to the runner. Flow of water into turbine is regulated by adjusting the spear position by the help of a given hand wheel. The runner is directly mounted on one end of a central SS shaft and other end is connected to a loading dynamometer arrangement.

The circular window of the turbine casing is provided with a transparent acrylic sheet for observation of flow on to the buckets. This runner assembly is supported by rigid MS structure. Load is applied to the turbine with the help of this loading dynamometer so that the efficiency of the turbine can be calculated.

Pressure gauge is fitted at the inlet of the turbine to measure the total supply head to the turbine. A venturi meter with differential pressure manometer is provided to measure the discharge of water through the nozzle of turbine.

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