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Product Name :
Pelton Turbine Test Set

Product Code :
LBNY-0005-17200012



Description :

Pelton Turbine Test Set is designed for studying the Pelton turbine characteristics under various flow rates and heads. The adjustable nozzle direct a water jet to the runner buckets. Power output can be measured by either dynamometer or generator. The unit is on wheels. The unit consists of a storage tank, a pump, a turbine, a dynamometer, a generator, and measuring instruments.

Experiments:

Power output vs speed for various heads and flow rates.
Efficiency vs speed for a given head and flow rate.
Torque vs speed at various heads and flow rates.
Racing characteristics.
Overall turbine generator efficiency.

Technical Specification :

Turbine
Stainless steel casing with transparent window to observe hydraulic action.
Construction: Stainless steel runner and nozzle.
Pump: 7.5 kW.
Generator: 2 kVA.
Maximum power: 2000 W of brake power or 1200 W of electrical power.
Dynamometer: Mechanical brake absorber.
Electrical load: Lamp bank.
Measuring instruments:

Flow rate and speed: Digital display.
Pressure: Pressure gauge.
Torque: Spring balance.
Electrical power output: Voltage and current digital display.
Power supply: 380V 3 Ph 50 Hz.



Laboratory Instrument India