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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:

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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**