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**Product Name :**  
Multi Turbine Test Set

**Product Code :**  
LBNY-0005-1720005



#### **Description :**

The unit consists of a pump and a storage tank, turbine units connected in parallel, a dynamometer for each turbine, and measuring instruments. Multi Turbine Test Set is a self-contained set of three different types of turbine namely-Pelton, Francis, Cross Flow, designed for studying the turbine characteristics under various flow rates and heads. The unit is on wheels.

#### **Experiments:**

Power output vs speed for various heads and flow rates.

Efficiency vs speed for a given head and flow rate.

Each turbine can be tested on the following :

Racing characteristics.

Torque vs speed at various heads and flow rates.

#### **Technical Specification :**

**Pelton Turbine :**

Stainless steel casing with transparent window to observe hydraulic action.

Maximum power : 400 W of brake power.

Construction : Stainless steel runner and nozzle.

**Cross Flow Turbine**

Construction : Stainless steel runner, and nozzle.

**Francis Turbine**

Construction : Metal runner.

Maximum power : 400 W of brake power.

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Non corrosion metal casing with adjustable guide vanes and transparent window to observe guide vane position.  
Stainless steel casing with transparent window.  
Maximum power : 400 W of brake power.  
Pump : 2.2 kW.  
Dynamometer : Water brake absorber.  
Measuring Instruments  
Pressures : Pressure gauges at turbine inlets.  
Flow rate and speeds : Digital display.  
Torques : Spring balances absorber.  
Power supply : 220 V, 1 Ph, 50 Hz.



**Laboratory Instrument India**