



Key features

A Pelton Wheel Turbine Test Rig for education is a scaled-down, practical setup allowing students to demonstrate and analyze the working principles and performance of a Pelton impulse turbine, a device converting high-pressure water's kinetic energy into mechanical power, by measuring head, flow, speed, and load to calculate efficiency curves, making abstract fluid mechanics tangible for engineering studies.

Technical Specifications

- Output power : 3 KW.
- Discharge : 650 LPM (approx.)
- Supply head : 45 meter
- Speed : 1000 RPM (approx.)
- Impeller : Bucket type
- Material brass, Nozzle : Material aluminum, Spear : Material stainless steel,
- Dynamometer : Rope brake drum type ,
- Drum diameter 300 mm.
- Sump tank : minimum 600 x 650 x 900 mm
- Size, Capacity 350 liters approx,
- Water circulation : Centrifugal pump , 15 HP , three phase, standard
- Dial balance (2 nos) : One is 50 kg and second is 25 kg,
- Pressure gauge : Bourdon type ,
- Range : 0-7 kg/cm²,

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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Order Code : 25269282.1
Pelton wheel Turbine
Test Rig for education(3kw)

- Discharges measurement : Venturi meter with differential pressure manometer,
- Tank material : stainless steel material,
- Pipe fitting : GI pipe,
- The whole set-up is ingeniously designed and schematically arranged on a powder-coated rigid structure



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