

Product Name :
Multi Turbine Test Rig

Product Code :
ENGLABINGCAG310007



Description :

Multi Turbine Test Rig

Technical Specification :

FEATURES:

- Closed water circuit contains multistage centrifugal pump, tank, and inductive flow meter and flow control valve. Connection to the turbines via flexible hose with quick-release coupling.
- Constant torques and speeds can be adjusted.
- Digital display for flow rate, pressure and temperature.
- Braking torque and speed measured.
- Torque vs. speed at various heads and flow rates.
- Power output vs. speed for various heads and flow rates.
- Efficiency vs. speed for a given head and flow rate.
- Racing characteristics.
- Supply unit for turbine.

SPECIFICATIONS:

Pelton turbine:

- Construction: Stainless steel runner and nozzle.
- Stainless steel casing with transparent window to observe hydraulic action.
- Maximum power: 400 W of brake power.

Francis turbine:

Construction: Metal runner: Non-corrosion metal
Casing with adjustable guide vanes and transparent window to observe guide vane position.
Maximum power: 400 W of brake power.

Cross Flow turbine:
Construction: Stainless steel runner, and nozzle.
Stainless steel casing with transparent window.
Maximum power: 400 W of brake power.
Pump: 2.2kw.
Dynamometer: Water brake absorber.

Measuring instruments:
Torques: Spring balances absorber.
Pressures: Pressure gauges at turbine inlets.
Sensors with digital display: Flow rate and speeds.
Power supply: 220 V, 1Ph, 50 Hz.



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