

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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