

Product Name :
Pelton Turbine Demonstration Unit**Product Code :**
ALABS-A104-505ALTEC™**Description :****Pelton Turbine Demonstration Unit**

- Small scale hydropower unit designed to demonstrate the operating principles of an impulse turbine.
- Transparent guarding allows excellent visibility of the pelton wheel operation.
- Mounts on a dedicated service unit.
- Connects to a PC via the service unit and a USB interface device.

Capabilities:

- Determining the characteristics of the turbine, including the relationships of volume flow rate, head, torque produced, power output and efficiency to rotational speed.
- Comparison of throttle control and spear valve control of the speed of a Pelton Turbine.

Description:

The Pelton Turbine consists of an inlet manifold which supplies water to a spear valve which allows users to vary the jet cross section while maintaining the water velocity. The runner itself is mounted in a clear acrylic enclosure to allow maximum visibility of the workings.

The unit incorporates a pressure sensor to measure the inlet condition of the water. This pressure can be accurately controlled using the software supplied with the service unit.

Technical Specification:

- Maximum Power: 23W
- Maximum Speed: 3800rpm
- Maximum Torque: 0.20Nm



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