

Product Name :
Demonstration Pelton Turbine**Product Code :**
EEMECH45M0049ALTEC™**Description :**

Demonstration Pelton Turbine

Technical Specification :

- Water turbines are turbo machines utilizing waterpower.
- The Pelton turbine is a type of impulse turbine; such turbines convert the pressure energy of water into kinetic energy entirely in the distributor.
- During the conversion, the water jet is accelerated in a nozzle and directed onto the blades of the Pelton wheel tangentially.
- The water jet is redirected by approximately 180° in the blades.
- The impulse of the water jet is transmitted to the Pelton wheel.
- The turbine torque is determined by force measurement on a band brake and is read on spring balances.
- For measuring the rotational speed, a non-contact speed sensor, is required.
- A manometer shows the water pressure at the turbine inlet.
- Pelton turbine
- Output: 5W at 500min⁻¹, approx. 30L/min, H=2m

- Pelton wheel: 14 blades
- Blade width: 33,5mm
- External Ø: 132mm
- Jet diameter: 10mm
- Dimension: 1000-x800 x 1200 mm
- Weight: 90kg
- Force: 2x 0...10N
- Pressure: 0...1bar



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