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**Product Name :**

Demonstration Pelton Turbine

**Product Code :**

SLE/MCE/35



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## Description :

### Features:

- 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.

### Specification:

- Pelton turbine
- **Output:** 5W at 500min<sup>-1</sup>, 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

### Measuring ranges:

- **Force:** 2x 0...10N
- **Pressure:** 0...1bar

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