Product name:	Product code:
Operating Principle of a Pelton Turbine	Fluid Equipments0017



Description

Operating Principle of a Pelton Turbine

Technical specification

Description of **Operating Principle of a Pelton Turbine**

Water turbines are turbo machines utilising water power. 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.

Operating Principle of a Pelton Turbine is a model of a Pelton turbine demonstrating the function of an impulse turbine.

Specification of **Operating Principle of a Pelton Turbine**

1. Function of a Pelton turbine
2. Transparent front panel for observing the operating area
3. Loading the turbine by use of the band brake
4. Adjustable nozzle needle for setting different nozzle cross-sections
5. Marking on brake drum for non-contact speed measurement
6. Instruments: spring balances for determining the torque, manometer shows pressure at turbine inlet
7. Flow rate determination by base module HM 150
8. Water supply using base module HM 150 or via laboratory supply

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