

products

Pelton turbine

This impuls turbine is suitable for high head sites ranging from 40m to more than 1000m. Pelton is very good in handling part flow even at 10% of the designed flow, while maintaining its efficiency. Due to its high power to diameter ratio, the buckets requires high specification, starting from material specification, casting and machining process, and dynamic balancing process.

PET03 - Pico Pelton Turbine



Specification:

Pelton - high head unit
7500W pumps with high head specification
Pelton turbine (2 nozzle)
Output Power : DC 1200 Watt
Induction generator + IGC Load Controller

Example Application: Installed as part of Turbine Test Rig (Crossflow and Pelton Unit)

Crossflow - mid head unit
7500W pumps with large flow specification
Crossflow turbine diameter 75mm
Output Power : DC 1000 Watt

Synchronous generator + ELC Controller

Sensors : Configurable as request:

- ◆ Digital / Analog Water Meter
- ◆ Digital / Analog Pressure Gauge
- ◆ Digital rotational speed meter
- ◆ Digital Voltage-Ampere- Power Meter

Overall size : 2.8 x 2 x 1.6m (fit into 20" container)

Reference Project :

- ▶ SWAT Vocational School - Pakistan

PET02 - Full Size Pelton Turbine



Specification:

Pelton Turbine for On-Grid application
2 nozzles (1 fixed + 1 adjustable)
Investment Casted St. Steel Bucket & Nozzle
High Efficiency turbine
Automatic Jet Deflector System (hydraulic)
Custom Bifurcation cw. Dismantling Joint
Automatic grease filling by SKF

Reference Project :

- ▶ 1 x 350kW MHP Wae Roa - NTT - Indonesia
Supplied to PLN (on-grid)
Net Head : 156m
Operating since 2017

PET01 - "large Flow" Pelton Turbine



Specification:

Pelton Turbine for On-Grid application

- 2 runners on one shaft, each 2 nozzles
- 4 nozzles total per turbine
- Investment Casted St. Steel Bucket & Nozzle
- High Efficiency turbine
- Automatic Jet Deflector System (hydraulic)
- Plain bearing with babbit system
- Direct Coupled with 750 rpm generator
- Optional Hydraulic Actuated Nozzle

Reference Project :

- ▶ 3 x 260kW MHP Salido Kecil - Sumbar - Indonesia
- Total 780kW supplied to PLN (on-grid)
- Net Head : 96m
- Fully automatic synchronizing
- Operating since 2006

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