

Pelton

MACHINE FOR HIGH HEADS

An impulse turbine for heads of 50–1 000 m. Instead of pressure acting on submerged blades, needle-controlled jets strike bucket-shaped cups. Suited to sites with a large drop and a small flow.

HEAD 50 – 1 000 m	FLOW 0.1 – 10 m³/s	OUTPUT up to 30 MW	RUNNER Ø 500 – 2 500 mm
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CONFIGURATIONS

Horizontal machines carry up to three jets, vertical machines up to six, for the highest output at a given head.

CONFIGURATION	HEAD	FLOW	OUTPUT	JETS	DRIVE
Pelton Horizontal	50 – 1 000 m	0.1 – 6 m ³ /s	up to 30 MW	1 – 3	Direct
Pelton Vertical	50 – 1 000 m	up to 10 m ³ /s	up to 30 MW	3 – 6	Direct

APPLICATIONS

- 01 **High mountain penstocks**
- 02 **Glacier- and snow-fed streams**
- 03 **Drinking-water pressure recovery**
- 04 **Sites with strongly seasonal flow**

KEY FACTS

- Heads up to 1 000 m — jet speed close to 500 km/h
- 1–6 jets, each with its own spear valve
- The runner turns in air: no cavitation on the buckets
- Reference: 11.3 MW at 165 m head in Canada

SELECTED REFERENCES

Upper Clowhom HPP	Canada	1 × Pelton Vertical	P 11.3 MW · H 165 m · Q 8 m ³ /s
Armamar HPP	Portugal	1 × Pelton Horizontal	P 739 kW · H 212 m · Q 0.4 m ³ /s

Is this the right machine for your site?

Send your head and flow figures. We will confirm the type, size the unit and prepare a budgetary proposal.

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