



THE LAB EQUIPMENT

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Product Name :

Pelton Turbine Test Rig

Product Code :

SLE/MCE/50



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Description :

Features:

- The transparent cover enables to observe the water flow, the Pelton wheel and the nozzle during operation.
- The nozzle cross-section and thus the flow rate are modified by adjusting the nozzle needle.
- 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.
- The water jet is accelerated in a nozzle and hits the Pelton wheel tangentially.
- In the blades on the circumference of the Pelton wheel the water jet is deflected by approximately 180°.
- The impulse of the water jet is transmitted to the Pelton wheel.

Specification:

- **Speed range:** 0-2000 rpm
- **Brake power:** 10W
- **Pressure gauge range:** 0-25m H₂O
- **Force balance range:** 0-20N x 0.2N
- **Number of Pelton buckets:** 16
- **Diameter of Pelton wheel:** 123mm
- **Power required:** 230v, 50hz, 1ph
- **Dimension:** 1000x800x1200mm
- **Weight:** approx. 90 kg

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