

Product Name :
Kaplan Turbine Trainer

Product Code :
Fluid Equipments0025



Description :

Kaplan Turbine Trainer

Technical Specification :

Description of Kaplan Turbine Trainer

Water turbines are turbo machines which convert water energy into mechanical energy. Mostly, they are used for driving generators for power generation

purposes. The Kaplan turbine is a reaction turbine with an axial through flow. It has a high specific speed and is suitable for large water flows and small to medium heads. Therefore, the Kaplan turbine is used as a “classic” water turbine in run-of-the-river power plants.

Specification of **Kaplan Turbine Trainer**

1. Function of a Kaplan turbine
2. Closed water circuit with submersible pump, throttle valve and tank
3. Adjustment of flow rate with throttle valve
4. Loading the turbine by use of air-cooled eddy current brake
5. Rotor with fixed blades
6. Adjustable guide vanes for setting different angles of attack
7. Non-contact speed measurement at the turbine shaft and force sensor at the brake for measuring the torque
8. Digital display for pressures, temperature, flow rate, speed and torque

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