

**Product Name :**  
Kaplan Turbine Trainer**Product Code :**  
FUDE0049**Description :**

Kaplan Turbine Trainer

**Technical Specification :**

Water turbines are turbomachines 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., the Kaplan turbine is used as a "classic" water turbine in run-of-the-river power plants.

The helps to investigate the characteristic behaviour of a simple-regulated Kaplan turbine during operation. The trainer is provided with a closed water circuit with tank, submersible pump and throttle valve for adjusting the flow rate. The angle of attack of the rotor, And thus the power output of the turbine, are changed by adjusting the guide vanes. The turbine is loaded with a wear-free eddy current brake.

The speed is captured by means of an inductive, non-contact position sensor at the turbine shaft. For determining the turbine power, the eddy current brake is equipped with a force sensor for torque measurement. The pressures at the inlet and outlet of the turbine

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