NAUGRA®

Product name:	Product code:
Kaplan Turbine Trainer	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