Product name:	Product code:
Francis Turbine	Fluid Equipments0023



Description

Francis Turbine

Technical specification

7. Speed, torque and pressure displayed on the switch cabinet

Description of **Francis Turbine**

The Francis turbine is part of the reaction turbines which convert the pressure energy of water into kinetic energy in the distributor and in the rotor. Francis turbines are used at medium heads and large flow rates. The turbine power is controlled by adjusting the guide vanes. In practice, Francis turbines are used in run-of-the river power plants and in storage power plants. The Francis turbine is also used by for the pump. The experimental unit consists of the rotor, the distributor with adjustable guide vanes, a band brake for loading the turbine and the spiral housing with a transparent front panel. The transparent cover enables you to observe the water flow, the rotor and the guide vanes during operation. The angle of attack and the cross-section of flow are adapted to the speed and power of the turbine by adjusting the guide vanes.

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Specification of **Francis Turbine**

1. Recording the curves of a Francis turbine and investigating the influence of the guide vane position
2. Transparent front panel for observing the operating area
3. Loading the turbine by use of the band brake
4. Adjustable guide vanes for setting different angles of attack
5. Recording the torque via band brake and force sensor
6. Force sensor at the turbine inlet