

Adjustable Blade Axial-Flow Turbine

These reaction turbines feature an axial-flow design. Adjustable blades optimize efficiency across a wide range of flow conditions.



Overview

Adjustable Blade Axial-Flow Turbine

The adjustable blade axial-flow turbine is a high-performance reaction turbine designed for optimal efficiency across varying flow conditions. Featuring a runner with multiple adjustable blades, this turbine is engineered for low-head applications with high flow rates. It incorporates a spiral casing and guide vanes to precisely control water flow, making it an ideal solution for hydroelectric power generation.

Performance Metrics

Rated Power

220 MW

Max Power Output

Maximum Head

55 m

Technical Specifications

Runner Diameter (D1)

11 m

Design Features

Turbine Type

Kaplan • Reaction • Axial-Flow

Key Components

- Multi-blade runner
- Spiral casing
- Adjustable guide vanes
- Draft tube