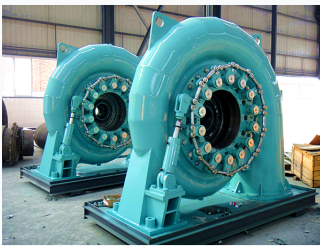


Hydro Francis Turbine Generator

This hydro Francis turbine generator converts flowing water's energy into electricity. It is engineered for efficient and reliable power generation in hydropower plants.



ADDITIONAL IMAGES



Overview



High-Efficiency Hydro Francis Turbine Solutions

This Francis turbine generator system is a versatile solution for medium-head hydroelectric power plants, offering a broad power range from 50kW up to 200MW. Designed for both new installations and facility upgrades, these units feature a robust horizontal or vertical shaft configuration to maximize energy conversion efficiency. We provide comprehensive package solutions encompassing site investigation, feasibility studies, and full engineering designs for turnkey E&M equipment delivery.

Performance Metrics

Power Output Range

50 kW

Minimum Power

200 MW

Maximum Power

Technical Specifications

Electrical Parameters

Parameter	Specification
Frequency	50Hz / 60Hz
Output Type	AC Three Phase
Shaft Orientation	Horizontal or Vertical

Available Output Voltages 400V, 3.3KV, 6.3KV, 10.5KV, 13.8KV

Operational Requirements



Working Water Head by Turbine Type

Turbine Type	Water Head Range (m)
Francis Turbine	20m - 500m
Pelton Turbine	40m - 1700m
Kaplan Turbine	2m - 70m
Tubular Turbine	1m - 40m
Turgo Turbine	40m - 250m

System Components



Main Equipment & Auxiliaries

- Spiral Casing
- Runner and Guide Vanes
- Wicket Gate System
- Draft Tube
- Main Powerhouse Auxiliaries
- Primary and Secondary Electrical Equipment
- Trash Defender and Intake Gates
- Penstock and Hoists

Service & Reliability

Service Life & Warranty

30 Years

Min Lifespan

50 Years

Max Lifespan

1 Year

Standard Warranty

Turnkey Service Scope

Site Investigation, Feasibility Study, Engineering Design, E&M Equipment Supply, Package Solution Design