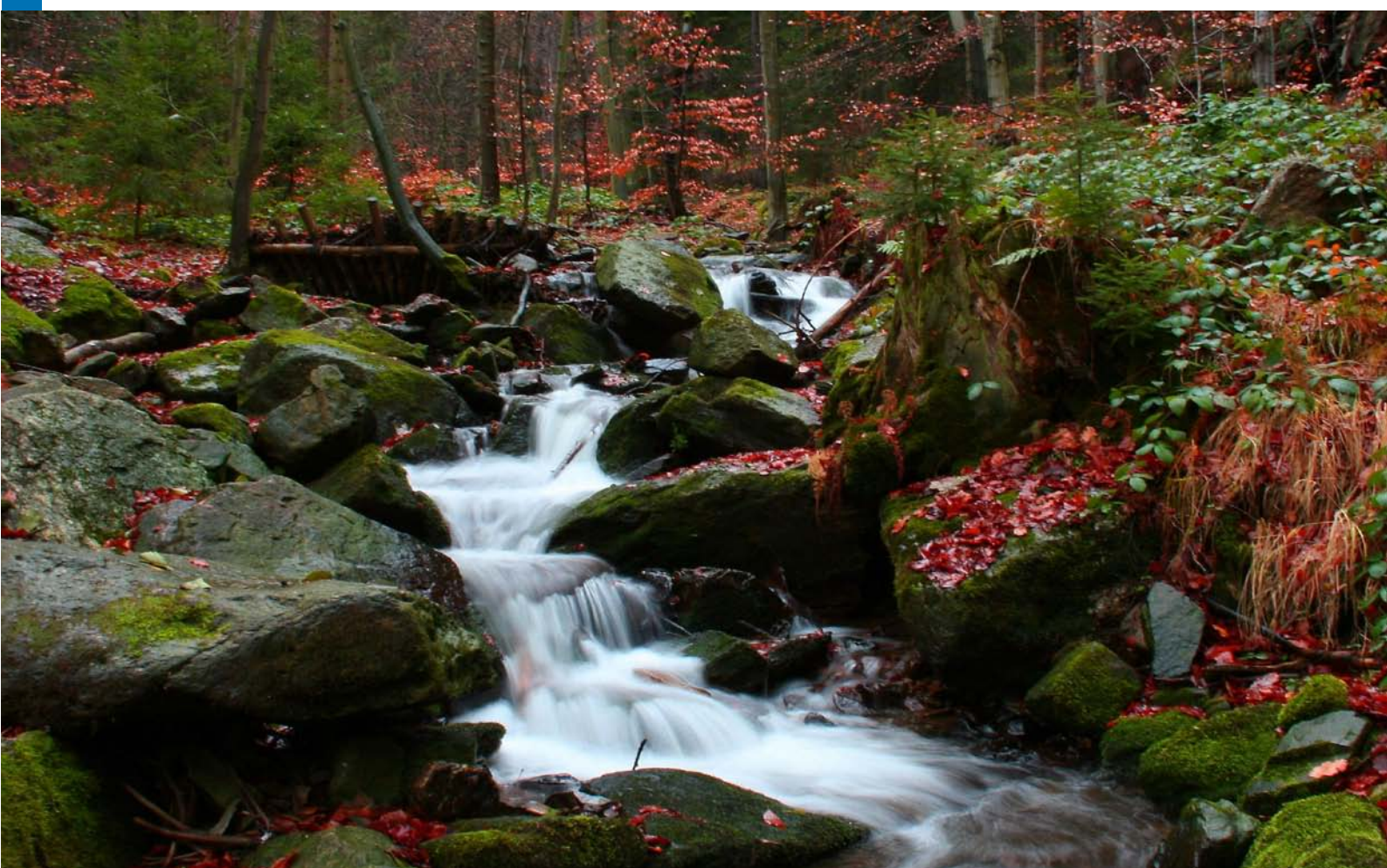


Mini Compact Hydro

Dedicated solutions for small hydropower plants



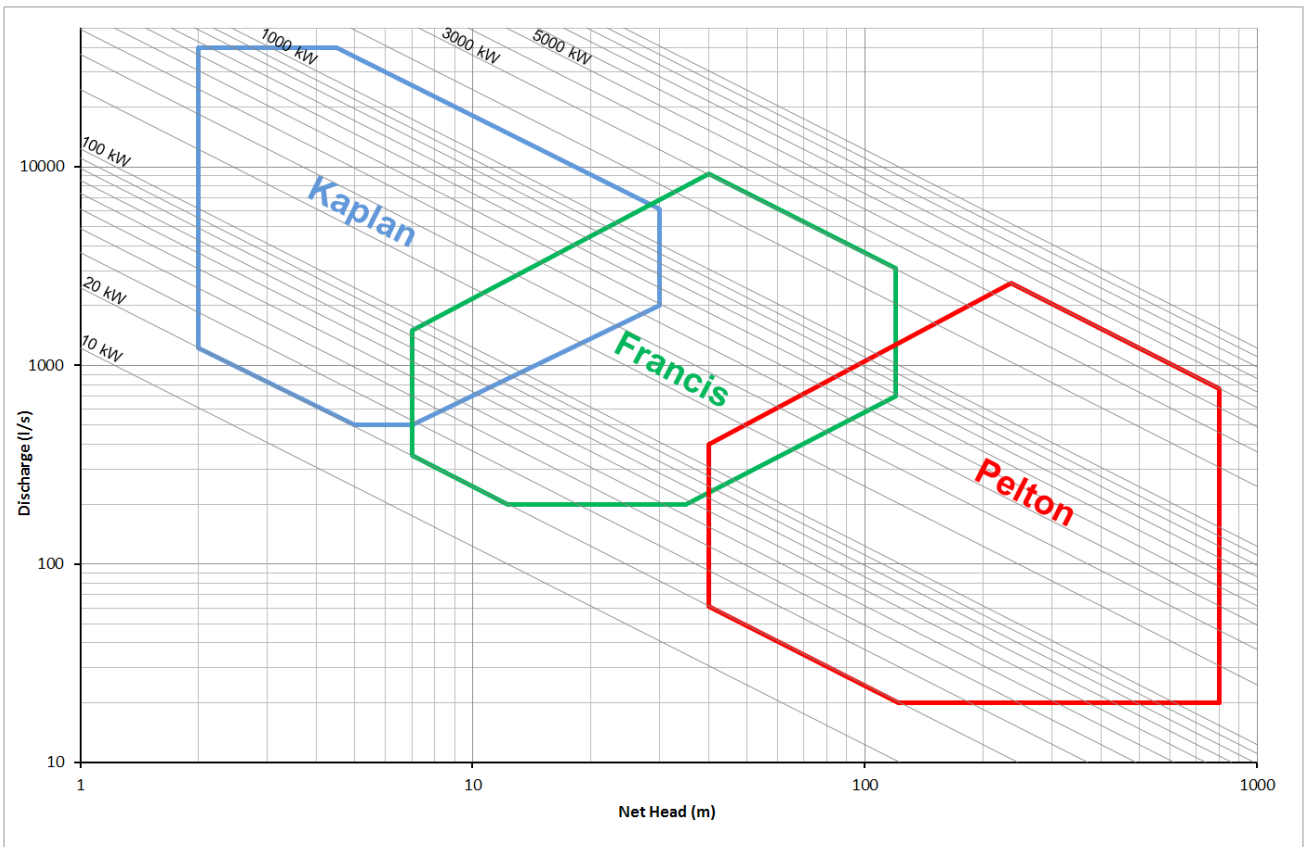
Mini Compact Hydro

Your benefits

Standardized range of electromechanical systems for small hydro power plants

High guaranteed performances based on existing model tested profiles resulting in secured and optimized energy production

“From water to wire” concept including turbine, generator, inlet valve, electrical power system & automation



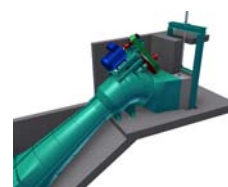
Wide application range with different arrangements

Kaplan
20 to 1,500 kW
Hn < 26 m

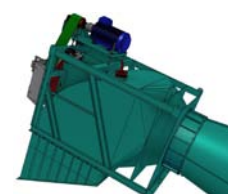
Francis
20 to 3,000 kW
Hn < 150 m

Pelton
20 to 5,000 kW
Hn < 800 m

Kaplan turbines



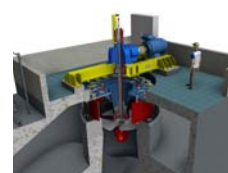
AET
Slant shaft
Belt driven
2 to 6 m
20 to 300 kW



AES
Siphon
Belt driven
2 to 4 m
20 to 300 kW



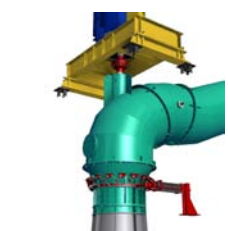
ADC
Open flume
Belt driven
Direct coupling
2 to 6 m
20 to 300 kW



ADCM
Open flume
Speed increaser
2 to 18 m
200 to 1,500 kW



ADV
Saxo
Belt driven
5 to 8 m
20 to 300 kW



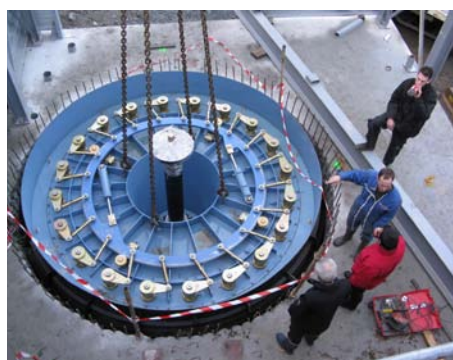
ADVG
Saxo
Direct coupling
6 to 26 m
50 to 1,500 kW



ADBG
Vertical Kaplan
Direct coupling
5 to 26 m
20 to 1,500 kW

Highlights

- suitable for any kind of site arrangement (spillway, weir, irrigation, channel, outlet from sewage treatment plants, drinkable water, etc.)
- single or double regulated
- from 3 up to 6 blades
- standard diameters from 600 to 3,100 mm

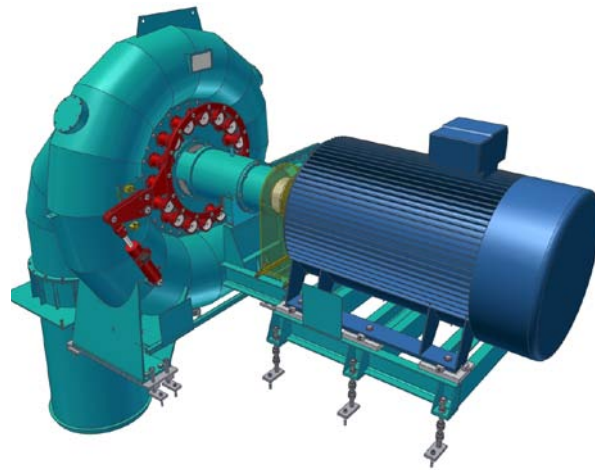


Francis turbines



Highlights

- horizontal or vertical shaft
- 6 types of spiral case and distributor, combined to 20 runner profiles
- Standard diameters from 300 to 1,200 mm

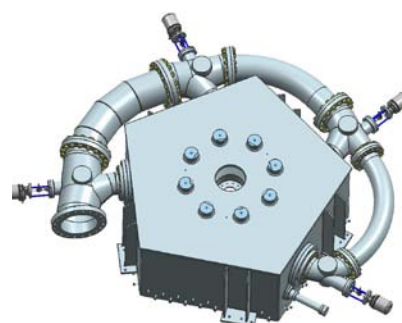


Pelton turbines



Highlights

- Horizontal shaft:
 - 1 to 3 jets, 8 sizes of nozzles, 20 sizes of housing
- Vertical shaft:
 - 1 to 6 jets, 6 sizes of nozzles, 11 sizes of housing
- Electrical or hydraulic nozzle servomotor

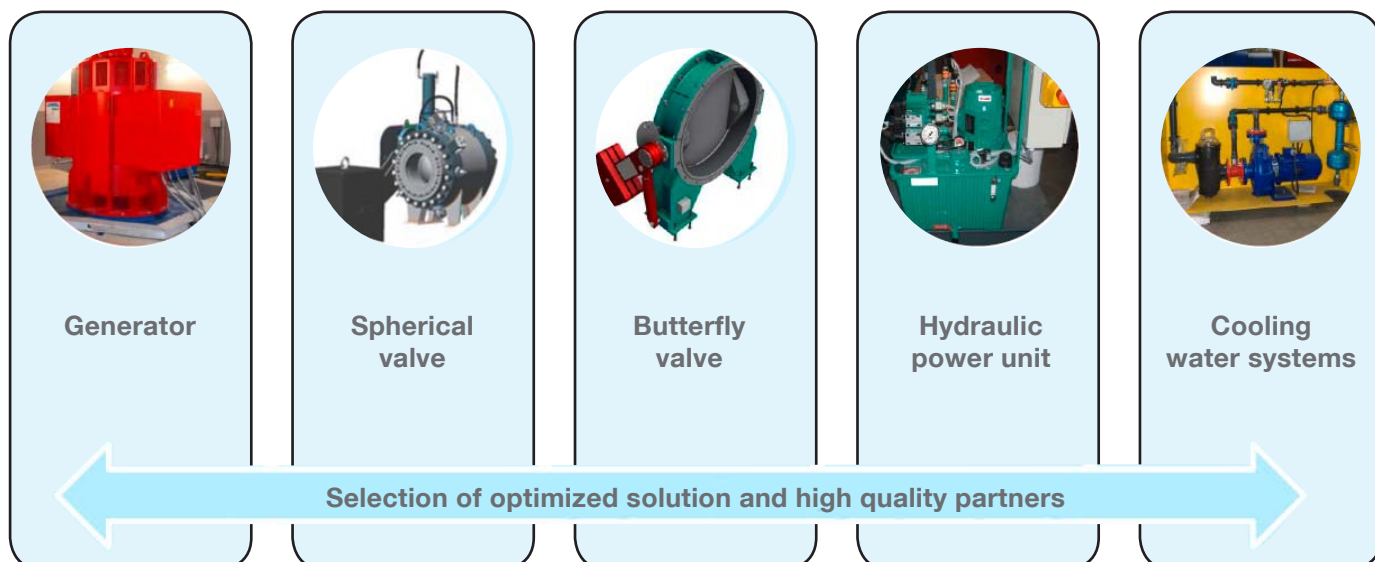


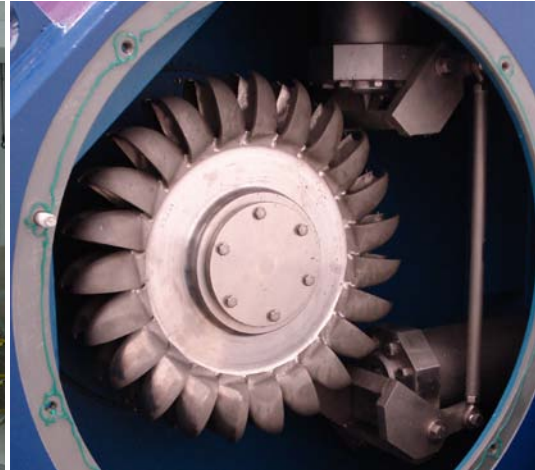
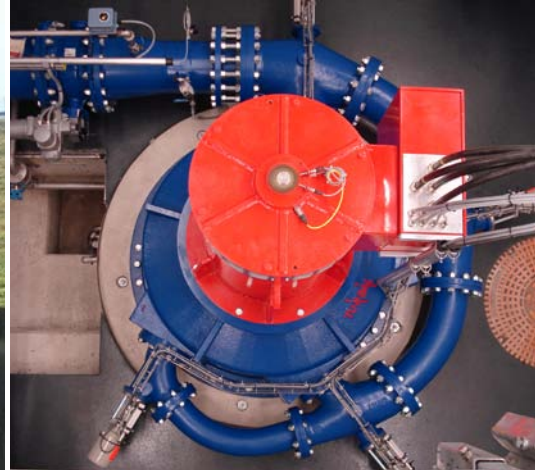
Electrical power system & automation



- Flexible, scalable and reliable packages.
- Selection of the highest quality products and components from the industry market for low failure rate solutions.
- Lower investment costs, start-up simplification and short standstill times during system replacement are “solid” advantages for our customers. Integrated **modular automation concepts** make this possible.
- Supply of a complete **turnkey electrical power system**: circuit breaker, protections, LV power cabinets, transformer, MV power cabinets. **From water to wire.**
- Easy operation and maintenance of small HPP's are key factor for their profitability. The extended utilization of smart phones, internet and GPS are state-of-the art.

Generator, inlet valve, auxiliaries





ANDRITZ HYDRO GmbH
Eibesbrunnnergasse 20
1120 Vienna, Austria
Phone: +43 50805 5
Fax: +43 50805 51015
E-Mail: contact-hydro@andritz.com

www.andritz.com