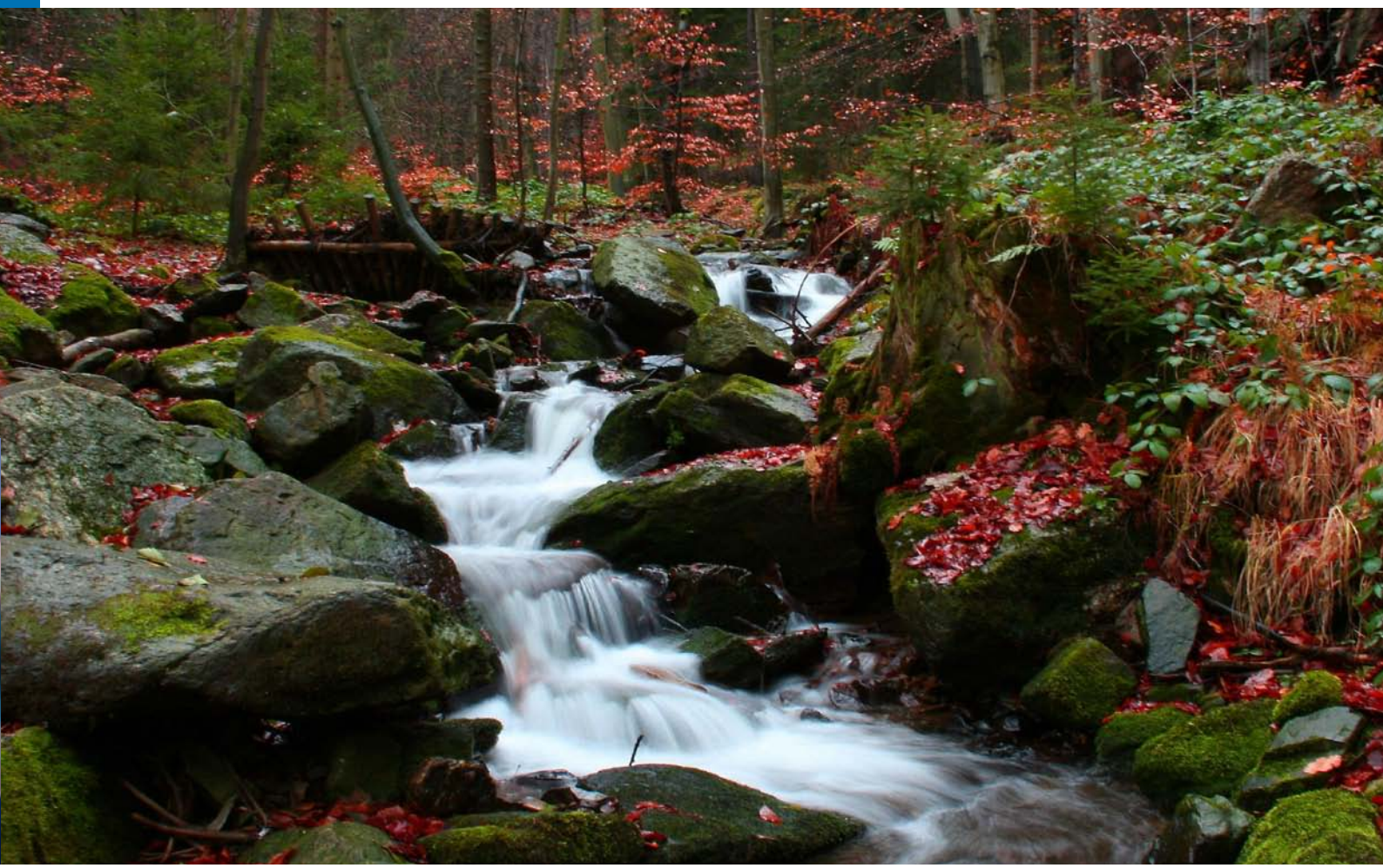
ANDRITZ Hydro

Mini Compact Hydro

Dedicated solutions for small hydropower plants



www.andritz.com

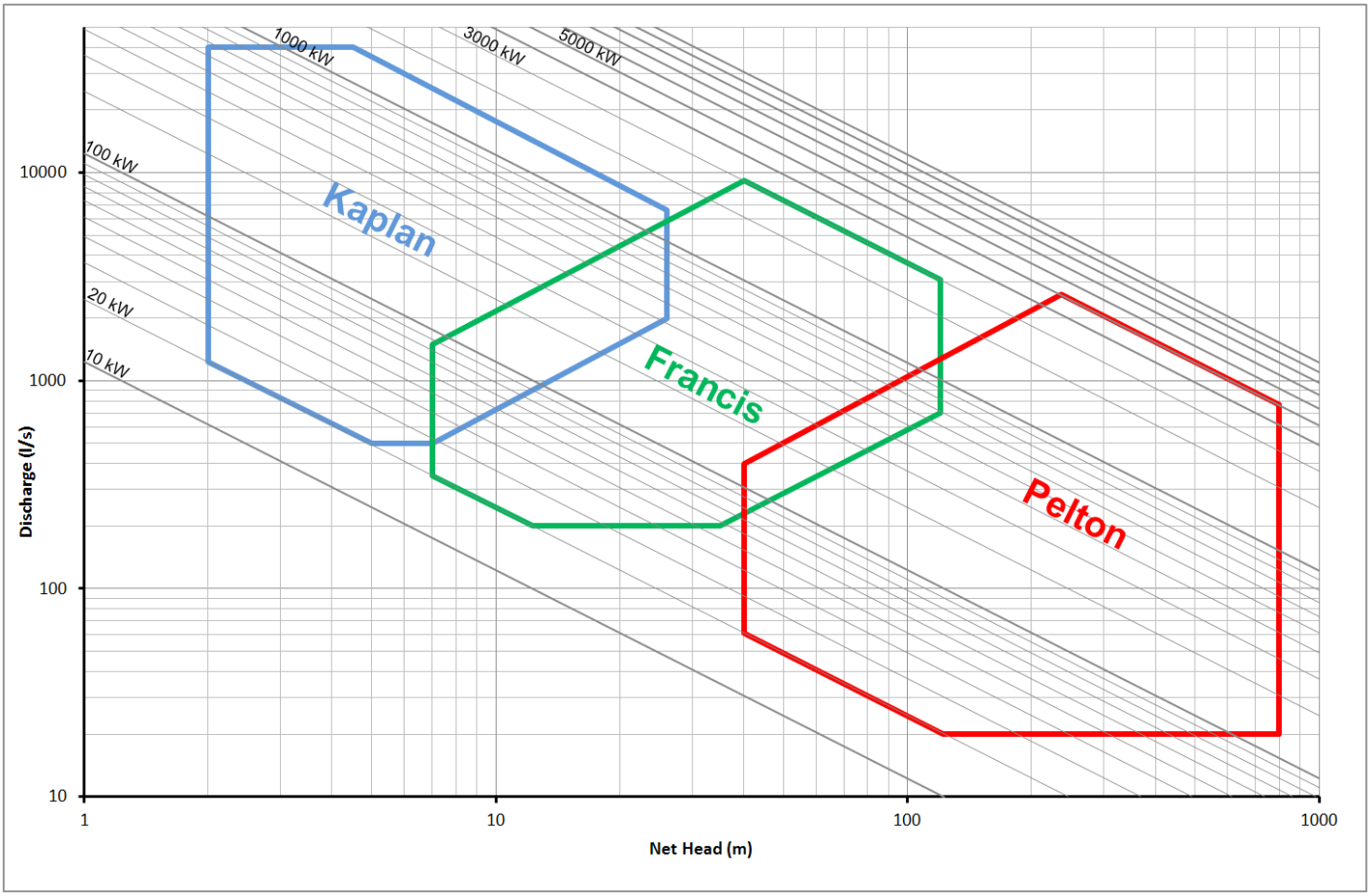
Mini Compact Hydro

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



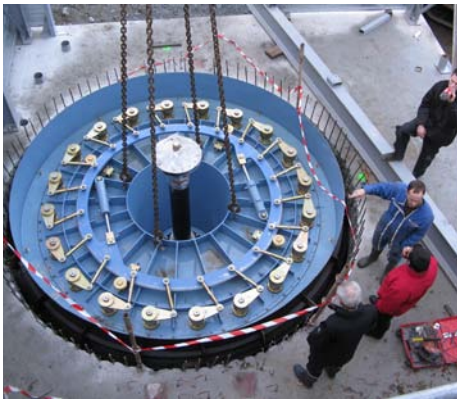
Wide application range with different arrangements

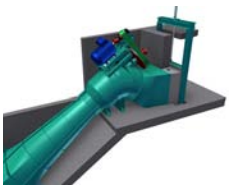
Kaplan	Francis	Pelton
20 to 1,500 kW	20 to 3,000 kW	20 to 5,000 kW
Hn < 26 m	Hn < 150 m	Hn < 800 m

Kaplan turbines

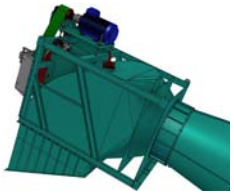
Highlights

- 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

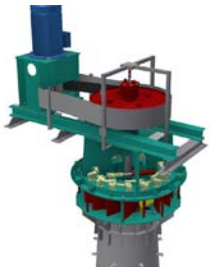




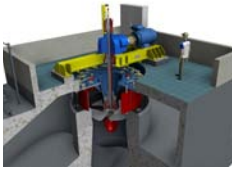
AET
Slant shaft
Belt driven
2 to 6 m
20 to 300 kW



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

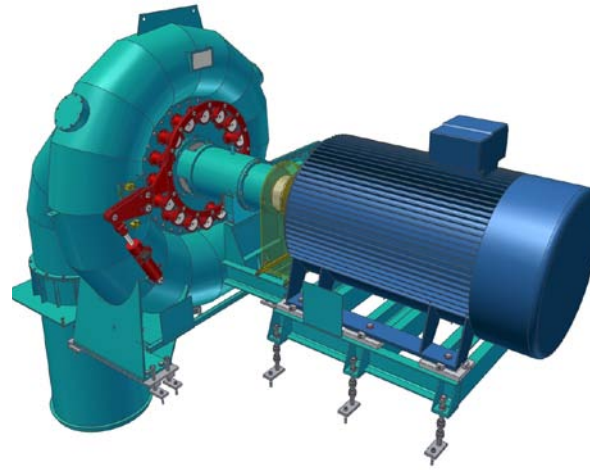
ADVG
Saxo
Direct coupling
6 to 26 m
50 to 1,500 kW

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

Francis turbines

Highlights

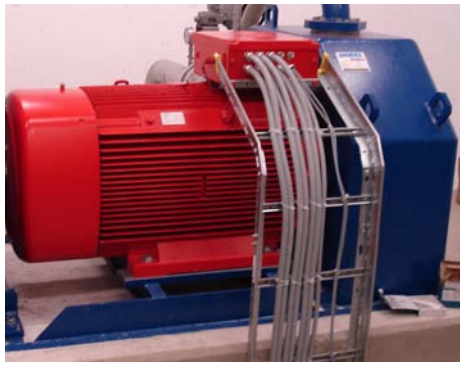
- horizontal or vertical shaft
- 6 types of spiral case and distributor, combined to 20 runner profiles
- Standard diameters from 300 to 1,200 mm

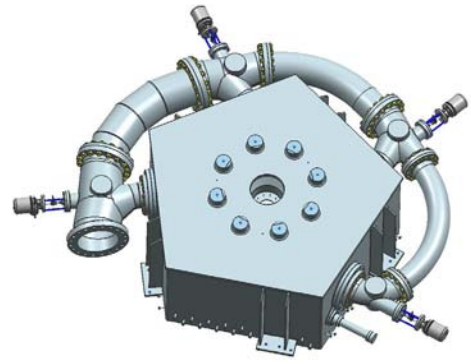


Pelton turbines

Highlights

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





Electrical power system & automation

- Electrical power system & automation
- 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 arekey factor for their profitability. The extended utilization of smart phones, internet and GPS are state-of-the art

Generator, inlet valve, auxiliaries

Generator

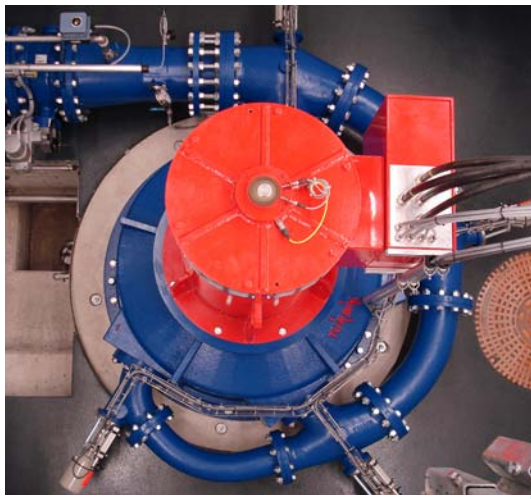
Spherical valve

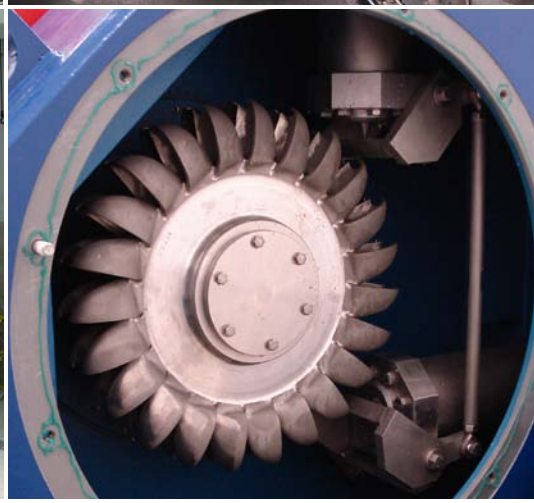
Butterfly valve

Hydraulic power unit

Cooling water systems

Selection of optimize solution and high quality partners





ANDRITZ HYDRO GmbH
Eibesbrunnergasse 20
1120 Vienna, Austria
Phone: +43 50805 0
Fax: +43 50805 51015
E-Mail: contact-hydro@andritz.com
www.andritz.com

HP.Mini CH 02.en.02.15

All data, information, statements, photographs, and graphic illustrations in this leaflet are without any obligation and raise no liabilities to or form part of any sales contracts of ANDRITZ HYDRO GmbH or any affiliates for equipment and/or systems referred to herein. © ANDRITZ HYDRO GmbH 2015. All rights reserved. No part of this copyrighted work may be reproduced, modified or distributed in any form or by any means, or stored in any database or retrieval system, without the prior written permission of ANDRITZ HYDRO GmbH or its affiliates. Any such unauthorized use for any purpose is a violation of the relevant copyright laws. ANDRITZ HYDRO GmbH, Eibesbrunnergasse 20, 1120 Vienna, Austria.