TURBINES AND HYDRO-ELECTRIC ENGINEERING ALL FROM A SINGLE SOURCE



wasserkraft



AUSTRIAN QUALITY

At WWS Wasserkraft, we combine a high level of technical know-how with an innovative spirit. Our family enterprise has a wealth of tradition in industrial design and production. Here, man and machine together produce the most modern hydroelectric power plant technology.

OWN IN-HOUSE MANUFACTURING

Thanks to workshops for turning and milling, welding and hydraulics, we can offer customer-specific solutions and flexible deadlines.

QUALITY GUARANTEE

Carefully selected supplier companies guarantee high-quality components.

INNOVATION

WWS customers profit from the innovative development of our turbine runners to constantly improve the efficiency.

Cely L Dyun

Christoph Wagner CEO





ROBUST. FRANCIS

LONG LIFE TIME

Our turbine runners are milled out of forged solid material. Because: The best welding seam is no welding seam!

HIGH-PRECISION

Experienced WWS designers continually develop proven geometries in cooperation with the renowned Technical University of Graz.

LOW-MAINTENANCE

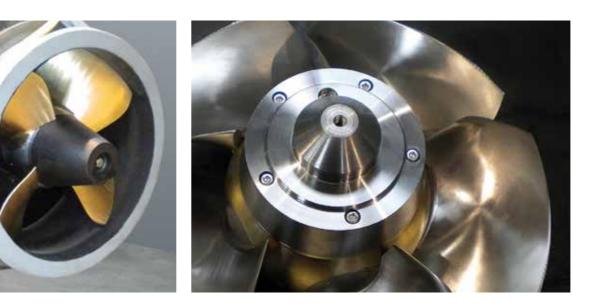
Our compact spiral turbine design guarantees low construction costs and low maintenance effort.

QUIET

Innovative seals ensure calm operation.



RELIABLE. KAPLAN



VERSATILE

Alternative designs facilitate a broad range of applications – for heads from 1 to 40 metres: Powergate, pit turbine, spiral turbine, bulb turbine.

EFFICIENT

Project-related simulations by our skilled technicians leads to top degrees of efficiency.

EASY MAINTENANCE Reliable WWS engineering simplifies turbine maintenance.

INDIVIDUAL. PELTON



FLEXIBLE

Depending on the available discharge rate and the fluctuations of water, this turbine can be of horizontal or vertical design and equipped with up to six nozzles.

EXACT

WWS manufacturing standards are based on modern CNC milling technology.

SAFE OPERATION

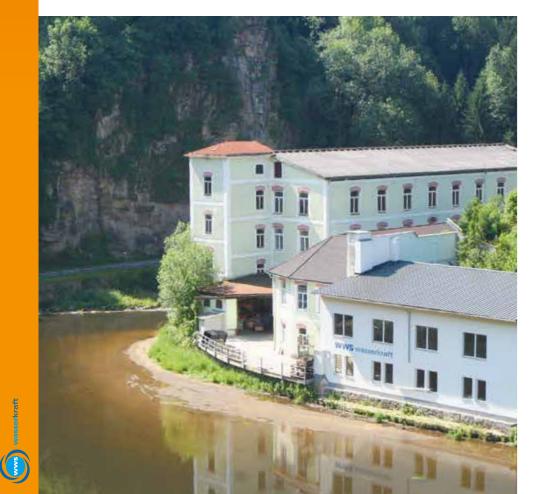
The innovative currentless closing mechanism of WWS turbines provides our customers with safety.

HYDROELECTRIC ENGINEERING CUSTOM-MADE.

- CUSTOM-DESIGNED HORIZONTAL AND VERTICAL RAKE CLEANING MACHINES
- HIGH-GRADE SLUICE GATES ACCORDING TO HYDROELECTRIC ENGINEERING STANDARDS
- HIGH QUALITY STANDARD DUE TO FULLY GALVANIZED WEIR FLAPS
- DESIGN AND MANUFACTURE OF INDIVIDUAL DRIVE SYSTEMS
- PLANNING AND EXECUTION OF EFFECTIVE FLOOD PROTECTION SYSTEMS



COMPETENT PARTNER



INDIVIDUAL SERVICE

Our hydro power know-how and many years of practical work in our own power plants qualified us to experienced experts. Our customers benefit from advantages like consistent project support service, efficiency checks and performance audits.

INNOVATIVE PLANNING

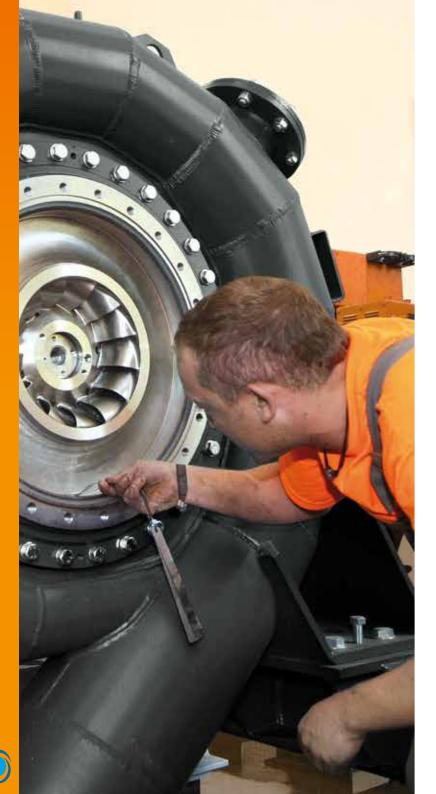
Highly skilled designers are planning on the basis of modern 3D tools and innovative calculation methods in cooperation with the renowned Technical University of Graz.

Is your plant very specific? Our special designs too!

PROFESSIONAL EXECUTION

WWS customers benefit from the high quality standards of our generally Austrian supplier firms. The fact that we process our components inhouse by ourselves also facilitates customerspecific solutions with flexible deadlines. Innovative developments by WWS hydroelectric engineering are turned into efficient and modern quality products. Thanks to our detailed project documentation, WWS customers can easily follow our operational steps.





RELIABLE SERVICE

"WWS has supported me professionally in the planning of my power plant and also informed me perfectly about legal questions."

- I HIGHLY QUALIFIED INSTALLATION TEAM
- EXTENSIVE SPARE PART WAREHOUSING
- INDIVIDUAL SERVICE AND MAINTENANCE ARRANGEMENTS
- WORLDWIDE PROJECT SUPPORT

"By installing a new turbine, I was able to enormously increase the performance potential of my power plant. The WWS team has provided me with optimal consultation."



SUCCESSFUL APPLICATIONS WORLDVIDE

TURKEY

Dagbasi power plant Francis spiral turbine 3 x 3538 kW

AUSTRIA

Theuerwangwehr power plant Kaplan pit turbine 408 kW





- BEST-TRAINED EXPERT STAFF
- BEST TOOLING EQUIPMENT
- MULTILINGUAL SERVICE

More than 110 plants and 85 MW performance installed worldwide

ARMENIA

Vardenik power plant Pelton turbine, 6 nozzles 2 x 3270 kW



KWK Dagbasi 3 KWK Amlan KWK Pranjcevici KWK Zekere 1 KWK Berdu 1 KWK Tragöß KWK Theuerwangwehr KWK Erlau KWK Chyzhovka KWK Paulusmühle KWK Capka KWK Mihoiesti 1 KWK Vardenik 1 KWK Vardenik 1 KWK Vardenik 1 KWK Racatau KWK Selici Torrents KWK MHC Poiana 1 KWK Yasili	2014 2013 2013 2011 2011 2014 2014 2014 2013 2014 2013 2014 2012 2013 2015 2013 2013	Francis Francis Francis Francis Kaplan Kaplan Kaplan Kaplan Kaplan Kaplan Kaplan Pelton Pelton Pelton Pelton Pelton	Philippines Croatia Turkey Romania Austria Germany Ukraine Germany Austria Romania Austria Armenia Romania Kosovo Romania Turkey	2 x 470 kW 1.152 kW 2 x 2.145 kW 1.036 kW 745 kW 408 kW 180 kW 643 kW 106 kW 132 kW 1.236 kW 140 kW 2 x 3.270 kW 1.600 kW 3.147 kW 589 kW 5.724 kW
KWK Yasili	2013	Pelton	Turkey	5.724 kW
KWK Huza 1	2015	Pelton	Romania	228 kW

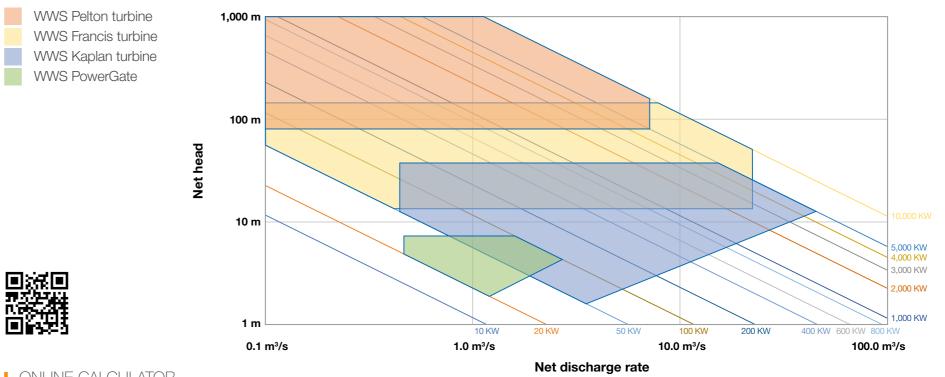
OUR KNOW-HOW TOP EFFICIENCY



Know-how und experience are our advisors when it comes to selecting the right type of turbine. Our customers benefit from our knowledge in optimizing the economy and the efficiency of your plant.

- OPTIMAL DESIGN FOR EVERY REQUIREMENT
- TOP DEGREES OF EFFICIENCY UP TO 95 PERCENT
- SIMPLE MAINTENANCE
- LOW MAINTENANCE COSTS

Selection chart for WWS turbines



ONLINE CALCULATOR

Simply and quickly find the right type of turbine for your plant:

www.wws-wasserkraft.at/technik



CONTACT

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