



PUMPS

MAXIMUM EFFICIENCY AND EXCELLENT NPSH VALUES

**SPLIT CASE PUMP,
ASPC AND ASPP SERIES**

ANDRITZ

ENGINEERED SUCCESS

ANDRITZ Pumps for your industry



Water



Pulp and
paper



Power



General
industries

ANDRITZ specializes in the development and manufacturing of high-quality pumps, offering a comprehensive range from standardized products to tailor-made solutions across various industries. Our pumps have achieved global success in diverse applications, including municipal drinking water supply, wastewater disposal, industrial water distribution, and significant infrastructure projects such as irrigation, seawater desalination, and water transmission.

In flood control, irrigation, and water transport, ANDRITZ not only provides the largest and most powerful pumps, but also complete systems and pumping stations. As a prominent supplier to the pulp and paper industry, we leverage strong process expertise to deliver pump solutions that enhance process stability and energy efficiency.

Our product portfolio encompasses a full range of robust process pumps and innovative medium-consistency pumps with an advanced system to avoid fiber losses. Notably, our double-suction headbox pumps boast efficiency levels of up to 93% and low-pulsation impellers, crafted with innovative methods. They thus provide the best performance in the paper manufacturing process.

In line with our commitment to sustainability, ANDRITZ offers reliable small hydroelectric power plants and pumps utilized as turbines for private, municipal, industrial, and commercial applications. Our diverse range ensures economically and ecologically sustainable energy production. Specializing in hydroelectric storage, our pumps cover a wide range from high heads to high flows, showcasing our engineering competence.

Our pump series, distinguished by modern and robust designs, high efficiency levels, and sustainability features, find applications in various demanding industries, including sugar and starch, lysine, bioethanol, hydrogen, fertilizer, mining, offshore, and general process industries.

Additionally, ANDRITZ provides IIOT-enabled premium pump technology for enhanced process monitoring, thus reflecting our commitment to cutting-edge solutions.

Premium pumping technology

For over 170 years, ANDRITZ has been a byword for competence and innovation in designing centrifugal pumps. Our double-suction centrifugal pumps are successfully used in various industrial applications all over the world. They offer robustness and wear resistance, and fulfill the highest customer expectations in terms of efficiency, life cycle, maintenance friendliness, and economic efficiency. The high standard of ANDRITZ centrifugal pumps is based on decades of experience in designing hydraulic machines and on extensive know-how. Our goals at ANDRITZ are to provide first-class products and service to secure sustained customer satisfaction.

ANDRITZ SPLIT CASE PUMPS FROM THE ASPC AND ASPP SERIES operate in water treatment and water supply systems as well as in irrigation, flood control, and desalination. They can also be used as circulation water or cooling water pumps for power stations, industrial plants, and district heating networks. Designed with a double-flow radial impeller and in-line casing, the pump can be installed horizontally or vertically (in the case of horizontal installation, the motor can be placed on the left and/or right). All pumps are fitted

with a double-flow radial impeller which achieves very favorable NPSH values.

ANDRITZ SPLIT CASE PUMPS COMPACT (ASPC)

In its classifications the ASPC stands out due to its compact design for small and medium-size split case pumps. This pump series has a minimum number of parts, which also leads to maintenance friendliness and easy assembly.

ANDRITZ SPLIT CASE PUMPS PREMIUM (ASPP)

The premium version of the split case pump combines a rigid design with maintenance-friendly sealing space as well as heavy-duty bearings for a long product life and stable operation.

FIELDS OF APPLICATION FOR ASPC AND ASPP

- Cooling water, circulation water pumps for power stations, industrial plants, and district heating and cooling networks
- Raw water pumps for water treatment plants
- Drinking water pumps for water supply systems
- Water pumps for desalination plants

PRODUCT BENEFITS

ASPC



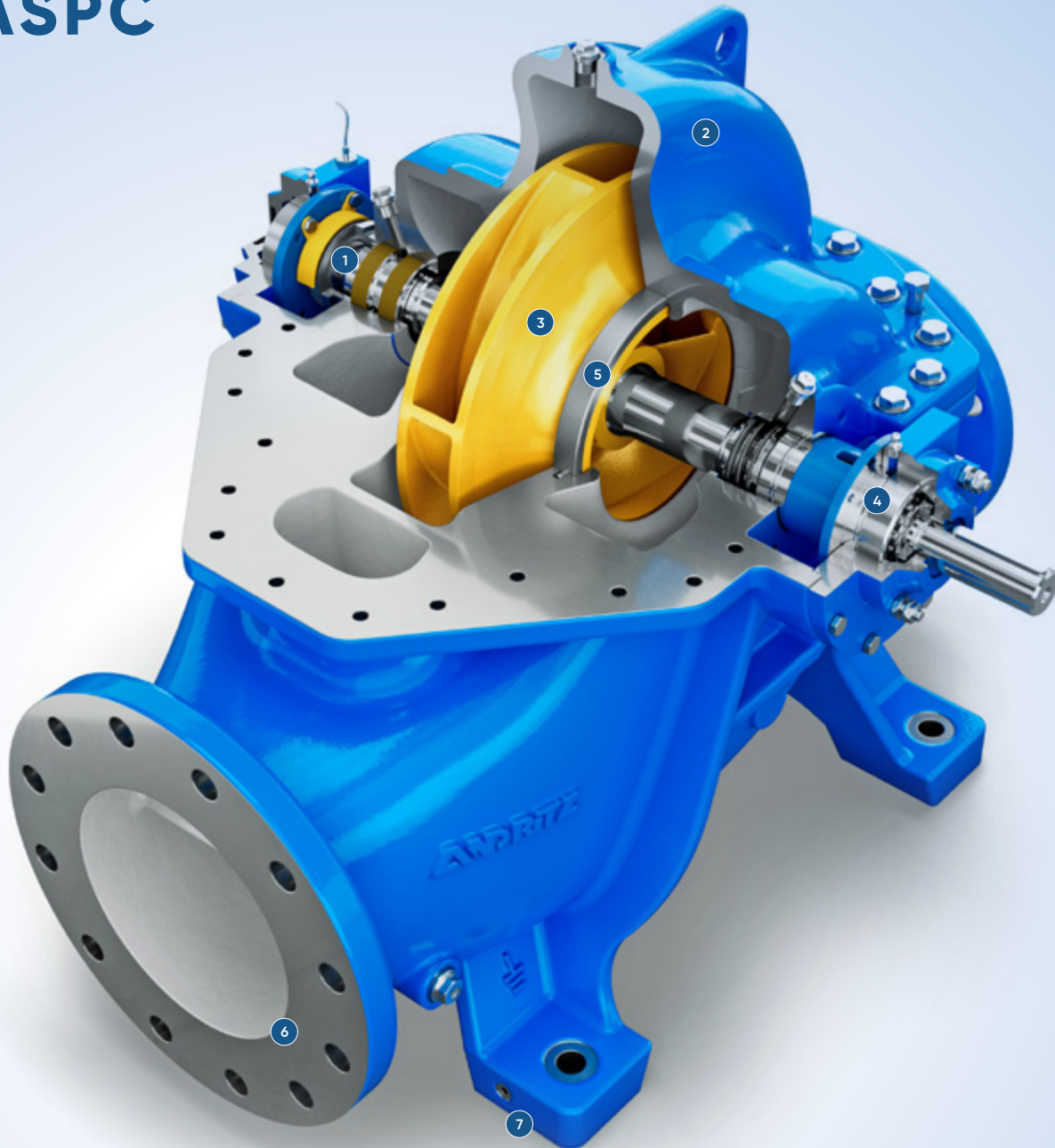
- Flow rate up to 5,000 m³/h
- Head up to 200 m
- Temperature up to 80°C
- Power up to 700 KW
- Efficiency up to 91 %

ASPP



- Flow rate up to 40,000 m³/h
- Head up to 250 m
- Temperature up to 120°C
- Power up to 7,000 KW
- Efficiency up to 93 %

ASPC



1 MODULAR SEALING SYSTEM

- Stuffing box
- Single mechanical seal
- Cartridge for single mechanical seal
- Replacement of seals without dismantling the casing

2 SPLIT VOLUTE CASING

- Maintenance-friendly axial split casing design
- Double volute design for minimized radial forces and maximum bearing lifetime

3 DOUBLE SUCTION IMPELLER

- Maximum efficiency and minimum NPSH requirement

4 MODULAR SHAFT BEARINGS

- Modularity allows interchangeability between different pump sizes and minimizes spare part stock
- Compact design and minimized bearing distance for long and stable operation
- Refillable grease lubrication

5 MODULAR WEAR RINGS

- Minimized leakage flow for permanent high efficiency
- Modularity allows interchangeability between different pump sizes and minimizes spare part stock

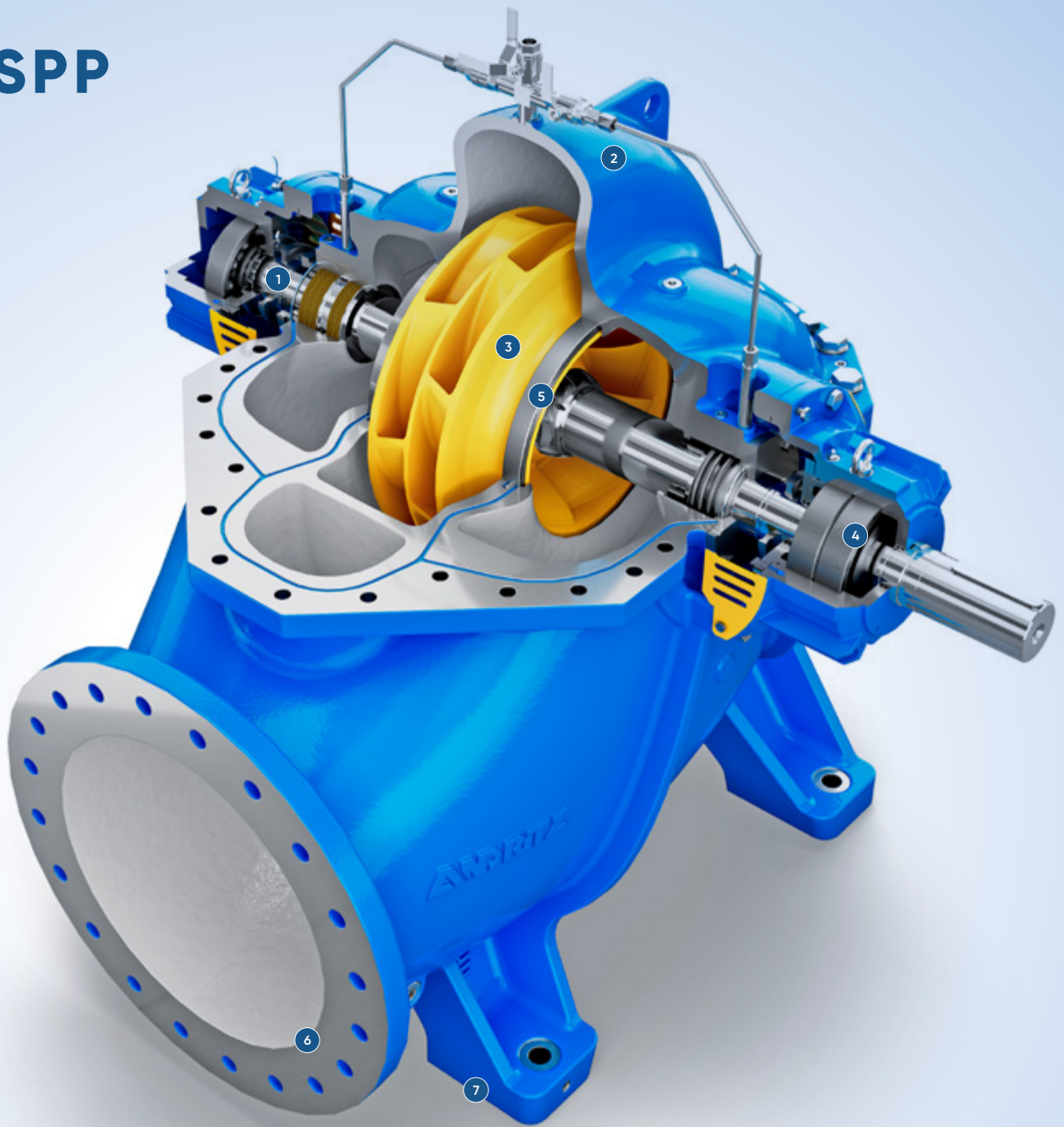
6 CONNECTION FLANGE

- Available according to DIN, ANSI, and JIS

7 SYMMETRIC AND MODULAR PUMP FEET DESIGN

- Flexible and easy pump mounting
- Common baseframe or concrete foundation

ASPP



1 SEALING SYSTEM

- Stuffing box
- Single and double mechanical seal
- Cartridge for single and double mechanical seal
- Split seal
- Replacement of seals without dismantling the casing

2 SPLIT VOLUTE CASING

- Maintenance-friendly axial split casing design
- Double volute design for minimized radial forces
- O-ring seal ensures short maintenance times

3 DOUBLE SUCTION IMPELLER

- Maximum efficiency and minimum NPSH requirement

4 MODULAR SHAFT BEARINGS

- Modularity allows interchangeability between different pump sizes and minimizes spare part stock
- Heavy-duty bearings for long and stable operation
- Refillable grease lubrication

5 MODULAR WEAR RINGS

- Minimized leakage flow for permanent high efficiency
- Modularity allows interchangeability between different pump sizes and minimizes spare part stock

6 CONNECTION FLANGE

- Available according to DIN, ANSI, and JIS

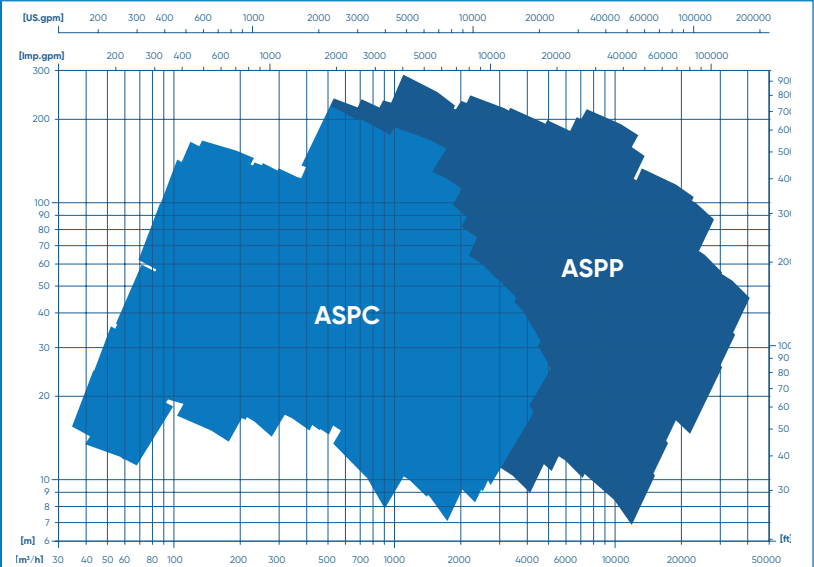
7 SYMMETRIC AND MODULAR PUMP FEET DESIGN

- Flexible and easy pump mounting
- Common baseframe or concrete foundation

Splitcase pump ASPC/ASPP series

PRODUCT BENEFITS

- Energy savings
- Maximum efficiency (93%)
- Low pulsation and vibration
- Horizontal split casing
- Easy and fast maintenance
- Excellent NPSH values
- IIoT ready



MATERIAL COMBINATIONS

ASPC/ASPP SERIES	GREY CAST IRON	DUCTILE CAST IRON	STAINLESS STEEL	DUPLEX STAINLESS STEEL	SUPER DUPLEX STAINLESS STEEL
Casing	on demand	■	on demand	■	■
Shaft			■	■	■
Impeller			■	■	■
Casing wear ring			■	■	■
Bearing housing	■				

Material	European standard		US standard	
	Number	Name	Grade	UNS
Grey cast iron	5.1301	EN-GJL-250	ASTM A48 Class No. 35 B	F10007
Ductile cast iron	5.3105	EN-GJS-400-18	ASTM A395 Grade 60-40-18	F32800
Ductile cast iron	5.3200	EN-GJS-500-7	-	F33500
Carbon steel	1.0619	GP-240-GH	ASTM A216 Grade WCB	J03002
Stainless steel	1.4317	GX4CrNi13-4	ASTM A743 Grade CA6NM	J91550
Stainless steel	1.4313	X3CrNiMo13-4	ASTM A336 Grade F6NM	S41500
Stainless steel	1.4408	GX5CrNiMo19-11-2	ASTM A743 Grade CF-8M	J92900
Stainless steel	1.4021	X20Cr13	ASTM A276 Type 420	S42000
Duplex stainless steel	1.4474	GX4CrNiMoN26-5-2	ASTM A890 Grade 3A	J93370
Duplex stainless steel	1.4462	X2CrNiMoN22-5-3	ASTM A789 Grade S32205	S32205
Super duplex stainless steel	1.4469	GX2CrNiMoN26-7-4	ASTM A890 Grade 5A	S32615
Super duplex stainless steel	1.4410	X2CrNiMoN25-7-4	ASTM A789 Grade S32750	S32750
Synthetics	-	Vesconite		
Synthetics	-	PEEK		



Greater efficiency for a competitive edge

RESEARCH AND DEVELOPMENT

Continuously increasing demands by customers in our operating industries emphasize the significance of R&D in the constant optimization of products and services. Today, efficiency, flexibility, and reliability over an extended lifetime are the major challenges of the market. Our commitment to research and development forms the basis for our advances in hydraulic machine manufacturing. With Pump Technology Center (PTC) ASTROE, center for hydraulic engineering and laboratory, we have an internationally renowned institute for hydraulic development work at our disposal. We are developing and testing our pumps at different locations worldwide. Our test stands are among the most accurate in the world. By networking these research and development centers, we provide a continuous transfer of know-how within the ANDRITZ GROUP for the benefit of our customers. The main tools for R&D are numerical simulation

methods as well as experimental measurements in the laboratory and on site. State-of-the-art equipment, highly precise measuring instruments as well as the latest simulation technologies, and powerful software form the basis of the high technical quality of the pumps and turbines from ANDRITZ.



AN OVERVIEW OF OUR SERVICES

- Supply of original spare parts
- Deployment of trained personnel
- Installation and start-up
- Inspection
- Repairs, overhauls, maintenance
- Machine assessment by an expert for early fault detection
- Consulting and modernization
- Performance and vibration measurement
- Fault and damage analyses
- Feasibility studies
- Energy consulting for pumps and systems
- Preparation of maintenance schedules
- Service and maintenance agreements
- Automation and Electrical Power Systems
- Electronic equipment
- Training



INNOVATION SINCE 1852

The internationally renowned ANDRITZ GROUP has been building pumps for almost 170 years. We offer innovative and targeted solutions with pumps and complete pumping stations. Our longstanding experience in hydraulic machine manufacturing and complete process know-how form the basis of the high standard of ANDRITZ pump engineering. Our quality and high-efficiency products as well as our understanding of customer requirements have made us a preferred partner for pumping solutions worldwide. ANDRITZ offers everything from a single source – from development work, model tests, engineering design, manufacture and project management, to after-sales service and training. We also perform complete start-up on site and guarantee our customers the best support. Our declared goal is your complete satisfaction. See for yourself!

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