



HIGH PERFORMANCE UNDER TOUGH CONDITIONS

SUBMERSIBLE CENTRIFUGAL PUMP,
ASCP SERIES



ANDRITZ

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 end-suction centrifugal pumps are operating in various industrial applications successfully all over the world. They offer robustness and wear resistance, and fulfill highest customer expectations in terms of efficiency, life cycle, maintenance friendliness and economic efficiency. The high standard of ANDRITZ submersible 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.

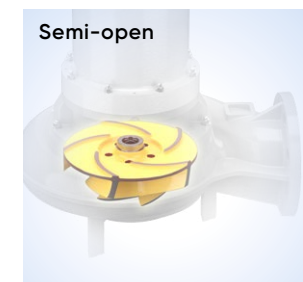
ANDRITZ SUBMERSIBLE CENTRIFUGAL PUMPS FROM THE ASCP SERIES

The ANDRITZ submersible centrifugal pump (ASCP series) is a single-stage centrifugal pump equipped with a submersible motor. The series has a range of different impellers – open, semi-open and closed.

The design not only allows for optimal conveyance of pre-cleaned wastewater (for example inside a wastewater treatment plant) but also highest efficiencies of up to 88 percent, which is higher than most other wastewater hydraulics on the market.

Another big advantage is the modular system, which means that only a small number of parts have to be kept in stock. The pump itself is a standard ANDRITZ centrifugal pump and the same spare parts can be used for the submersible centrifugal pump, such as a wear ring, casing cover, front liner and many more. Additionally, the sealing between pump and motor is achieved by means of high-quality of mechanical seals. At the same time, a monitoring system protects the motor against damage.

The series has a range of different impellers:



FIELDS OF APPLICATION

- Water treatment plants
- Wastewater plants
- Industrial water/wastewater
- Flood control
- Irrigation and drainage pumping stations

PRODUCT FACTS*

- Nominal diameter (DN) 32 to 300
- Flow rates up to 2,200 m³/h at 50 Hz
- Heads up to 70 m
- Temperatures up to 40 °C
- Consistencies up to 4%
- Efficiency up to 88%
- Pressure up to 10 bar (higher on demand)
- IP68 submersible motor (with or without cooling jacket)

* These values are guidelines and may differ depending on project requirements



ASCP series – Two different types of installation

M(OBILE)-INSTALLATION

- 1 Elbow
- 2 Lantern



N(WET)-INSTALLATION

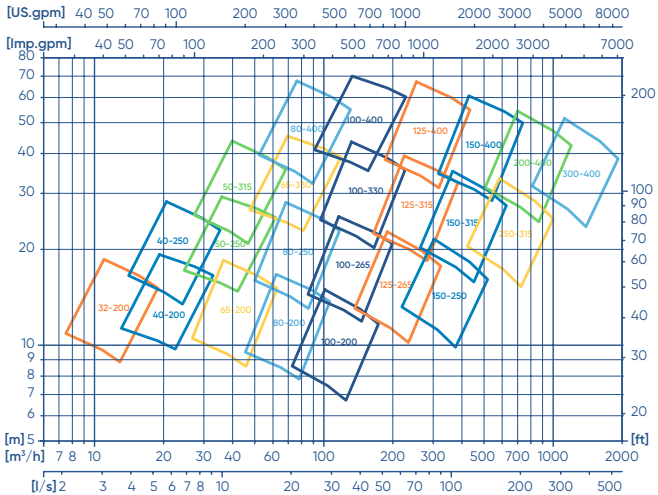
- 1 Claw
- 2 Discharge bend
- 3 Guide rail



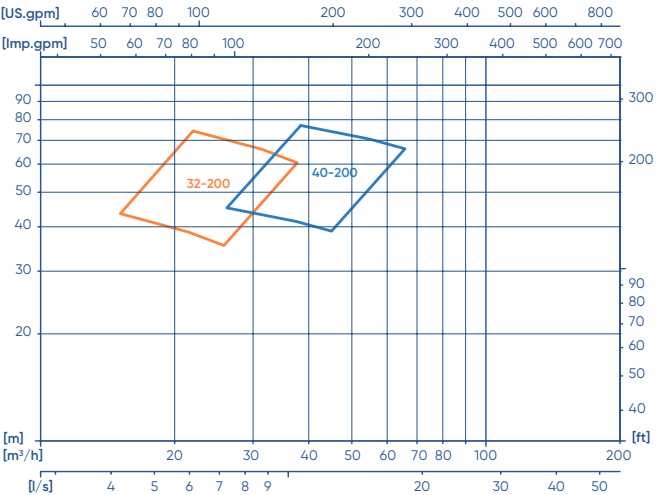
PRODUCT BENEFITS

- Easy maintenance
- Efficiency above industrial standard
- Low energy consumption
- Sensors are modifiable on request
- Robust design
- Well-proven hydraulics
- Modular design

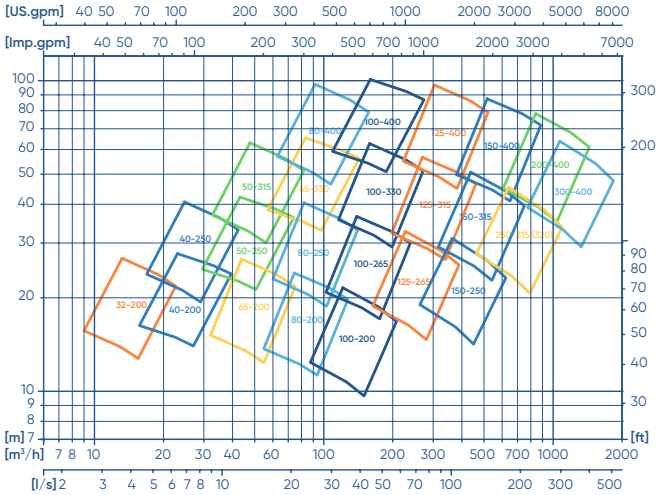
50HZ / 1500 RPM



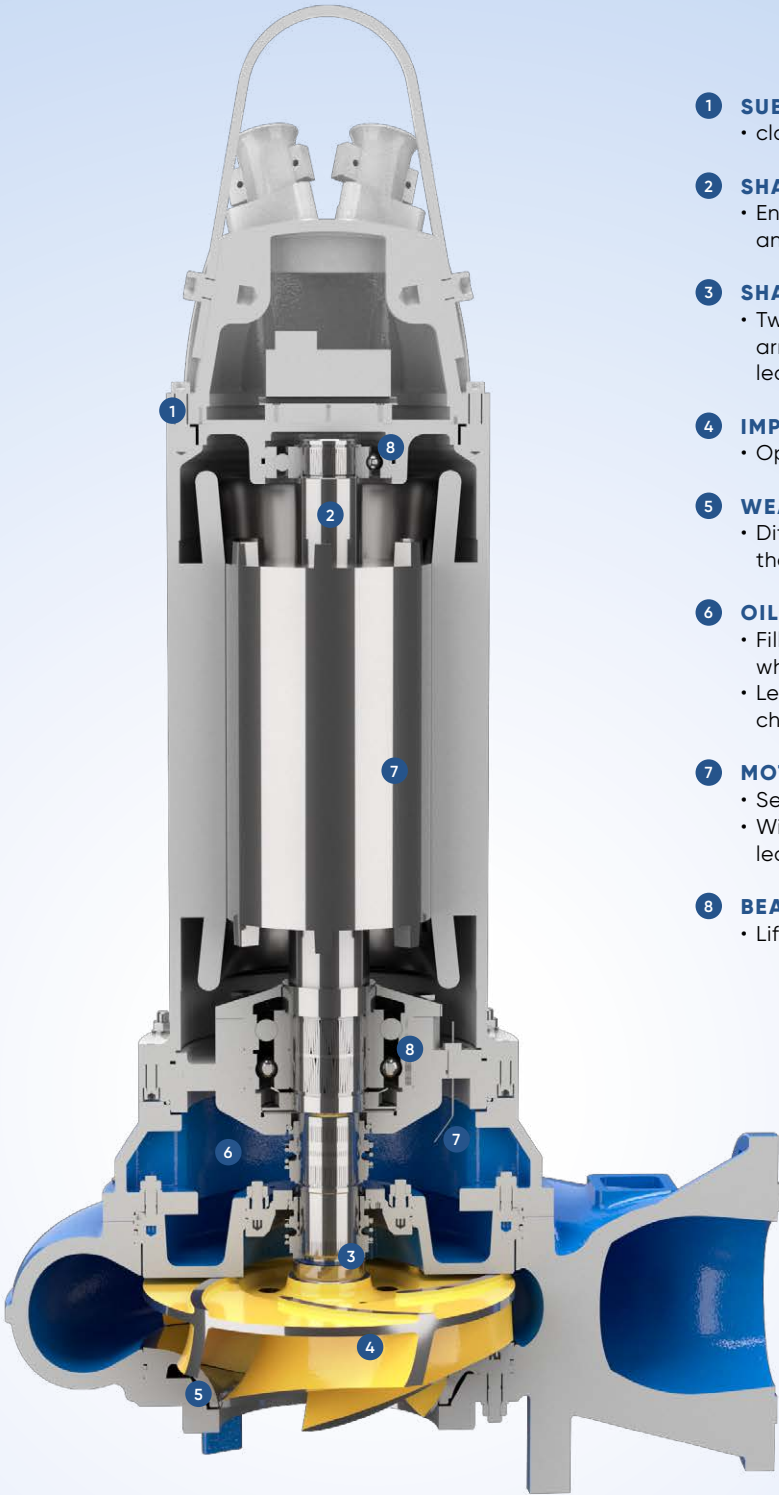
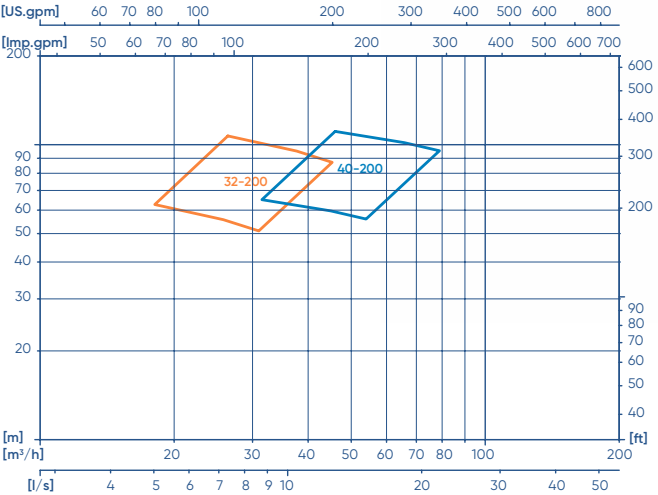
50HZ / 3000 RPM



60HZ / 1800 RPM



60HZ / 3600 RPM



- 1 **SUBMERSIBLE IP68 MOTOR**
 - class F or H insulation
- 2 **SHAFT**
 - Ensures minimum shaft deflection and low mechanical vibration
- 3 **SHAFT SEALING**
 - Two single mechanical seals in tandem arrangement to protect the motor against leakage
- 4 **IMPELLER DESIGN**
 - Open, semi-open or closed
- 5 **WEAR PROTECTION**
 - Different wear protection depending on the impeller design (wear ring or wear lining)
- 6 **OIL CHAMBER**
 - Filled with biologically degradable oil; which ensures lubrication of the seals
 - Leakage electrodes to monitor the oil chamber for leakage potential
- 7 **MOTOR SENSOR**
 - Selection of different motor sensors possible
 - Winding and bearing temperature and leakage electrodes
- 8 **BEARING ARRANGEMENT**
 - Life-long lubricated bearings

Material design / CD	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	5.3106	EN-GJL-400-15	ASTM A395 Grade 60-40-18	F32800
Carbon steel	1.0038	S235JR	ASTM A283 Grade C	K02401
Stainless steel	1.4021	X20Cr13+QT700	ASTM A276 Type 420	S42000
Stainless steel	1.4301	X5CrNi18-10	ASTM A276 Type 304	S30400
Stainless steel	1.4404	X2CrNiMo17-12-2	ASTM A276 Type 316L	S31603
Duplex stainless steel	1.4474	GX4CrNiMoN26-5-2	ASTM A890 Grade 5A	J93371

Always a flow ahead – Research and development

Our Pump Technology Center (PTC) ASTROE enjoys an internationally renowned reputation for its hydraulic developments and investigations. The high efficiency of the ANDRITZ pump series is ensured by Computational Fluid Dynamic (CFD) calculations and extensive testing carried out in our company owned laboratory.

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 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.



Greater efficiency for a competitive edge – Pumps service

Optimization / Modernization / Operating reliability

The conditions of your plant have changed, but your pumps are still operating as previously and therefore, wasting energy? Would you like to optimize your system to reduce costs? With ANDRITZ, you will have a competent partner for these and numerous other services at your side.

Service and maintenance have a long tradition at ANDRITZ and complement the product portfolio. The century-long expertise is reflected not only in a service portfolio with innovative solutions and advanced products that can be optimally adapted to the respective customer needs, but also in a specially trained staff. ANDRITZ has specialized in the servicing of pumps to achieve improved efficiencies and adaptations to changed operating points of the installed pumps. A

large potential for savings can already be achieved by improving the efficiency of 20 percent of the installed pumps. Our service team provides prompt, professional, and reliable assistance – also for other manufacturers' products. Book our service package and you can be sure of the best operating reliability for your systems in the long term. We conduct an expert assessment together with you, thus creating transparency and making an optimum solution possible that is tailored to your needs. After examining your plant, we determine its savings potential and realize it by improving the efficiency of the pumps installed. Additionally, this individual solution lowers your maintenance costs. You do not have to think about personnel, nor about maintenance schedules or utilities. Assembly is conducted according to defined schedules and with assistance from our trained personnel.



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!

EUROPE

ANDRITZ AG

Stattegger Strasse 18
8045 Graz, Austria
p: +43 316 6902-2509
f: +43 316 6902-413
pumps@andritz.com

ANDRITZ Pumps Germany GmbH

Marie-Curie-Straße 19
73529 Schwäbisch Gmünd,
Germany
p: +49 7171 609-0
f: +49 7171 609-287
ritz@andritz.com

ANDRITZ Hydro SRL

Polígono Industrial La Garza 2
Carretera de Algete M-106, Km. 2
28110 Algete
Spain
p: +34 91 6636 409
f: +34 91 425 1001
bombas.es@andritz.com

ASIA

ANDRITZ (CHINA) LTD.

No.83 B Zone, Leping Central
Technology & Industry Park,
Sanshui District, Foshan 528137,
Guangdong, P.R.China
p: +86 0757 6663-3102
atc_pumps@andritz.com

ANDRITZ Technologies Pvt. Ltd.

S.No. 389, 400/2A & 400/2C, Padur
Road, Kuthambakkam Village,
Poonamallee Talluk, Thiruvallur
District –600124, Chennai, India
p: +91 44 4399-1111
pump.in@andritz.com

ANDRITZ FZCO

Building 6WA – Office No. 329
54522 Dubai,
United Arab Emirates
p: +971 506 069 884
dubai@andritz.com

SOUTH AMERICA

ANDRITZ HYDRO

Alameda Tocantins 350,
120 andar 06455-020,
Barueri, SP – Brasil
p: +55 11 4133-0000
f: +55 11 4133-0037
bombas.br@andritz.com

NORTH AMERICA

ANDRITZ Inc. 5405 Windward Parkway, Suite 100W Alpharetta

Georgia 30004-3894m
United States of America
p: +1 770 640-2500
f: +1 770 640-9454
pumps.us@andritz.com

ANDRITZ.COM/PUMPS



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