



PUMPS

ECONOMIC OPTION FOR DIFFICULT MEDIA

SEWAGE PUMPS, DRY, CP 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 advanced fiber separation systems. Notably, our double-suction headbox pumps boast efficiencies of up to 93% and low-pulsation impellers, crafted with innovative methods to seamlessly integrate with your approach flow system.

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 efficiencies, and sustainability features, find applications in various 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, 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 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.

Conveyance of coarse media requires special measures in terms of design and materials used. ANDRITZ dry installed sewage pumps from the CP series have been specially developed for these applications. They are suitable for conveying sludge containing large particles, abrasive media, low-viscosity, high-viscosity as well as gaseous and non-gaseous slurries. The non-clogging pumps with large free passages can be equipped with different impeller types responding to media requirements. Although the impellers can be made of different materials, they are of the same type. Sturdy designs and wear-resistant execution guarantee a long service life. A modular system provides for high availability, enables the use of proven components, and reduces the number of spare parts to be held in stock.

ANDRITZ DRY INSTALLED SEWAGE PUMPS

from the CP series are a particularly economic option for difficult media. These pumps are characterized by an exceptionally large cross section and open channel in the spiral casing. Thus, they are suitable for very rough conditions and suspensions with up to 140 mm particle size.

All pump types fulfill high expectations regarding efficiency, life cycle, maintenance friendliness and economic efficiency. All pump parts are manufactured according to the highest quality standards in our ISO certified workshops. The superior quality of our

products derives from compliance with these stringent requirements. These pumps can be delivered with an Industrial Internet of Things upward integratable base.

FIELDS OF APPLICATION – CP SERIES

- Media with wood particles, grass or reed chips
- Abrasive media
- Slurries and suspensions
- Media with very long fibres
- Industrial and municipal waste water
- Media with high air content (up to 5%)
- Media with light fraction

PRODUCT FACTS*:

- Head up to 75 m (at 60 Hz)
- Flow rate up to 1,800 m³/h
- Free passage up to 145 mm
- Pressure up to 16 bar
- Temperature up to 120° C

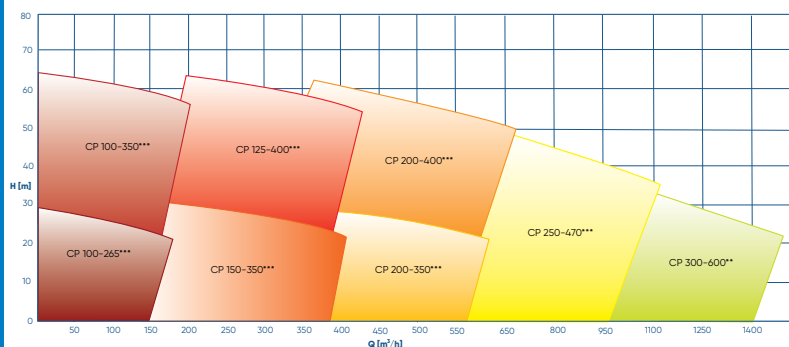
*These values are guidelines and may differ depending on project requirements



ANDRITZ dry installed sewage pump, CP series

PRODUCT BENEFITS

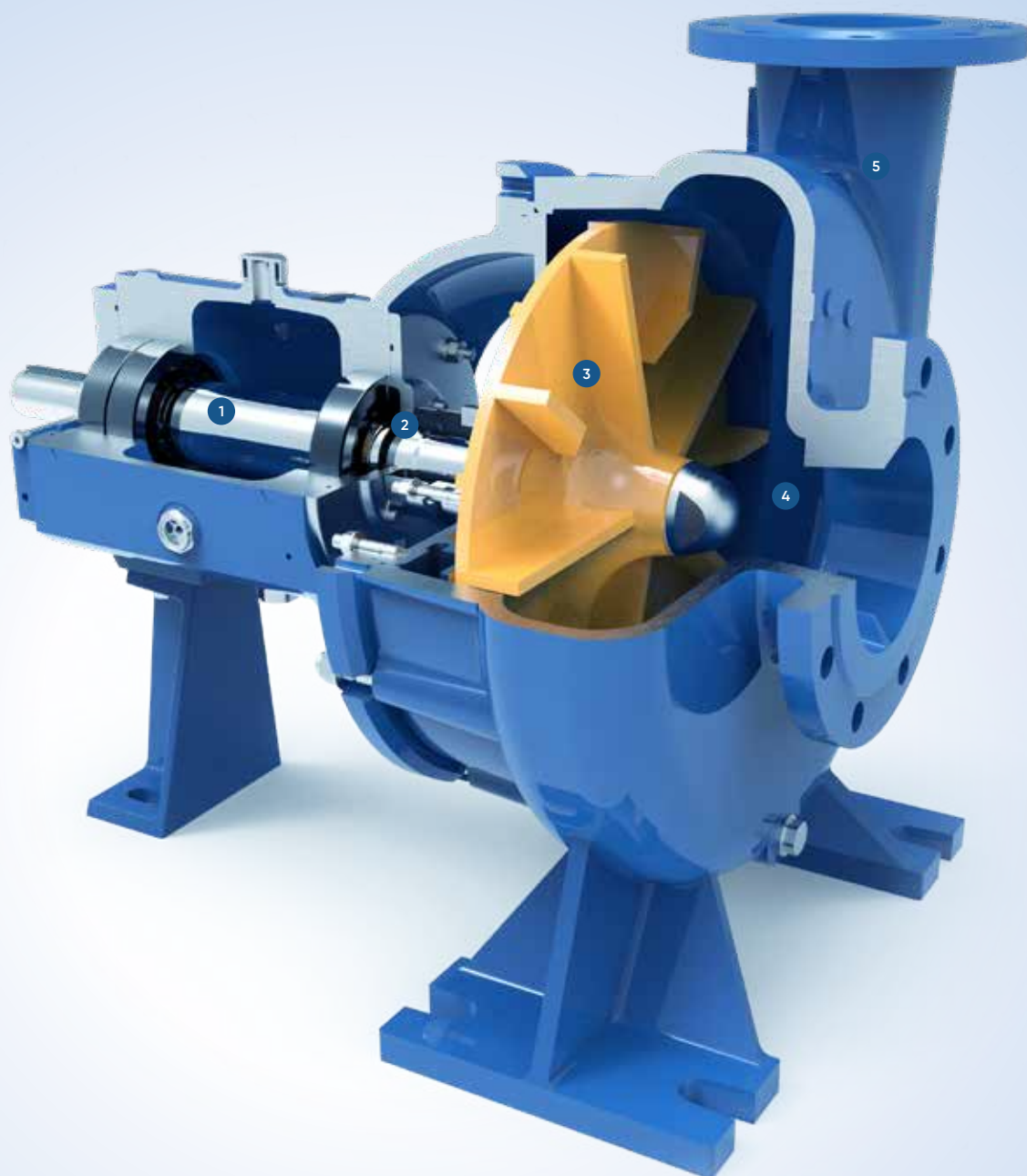
- Special design for conveyance of coarse media
- Suitable for very rough conditions
- Specially developed free-flow impeller
- Easy to maintain due to its modular design; impeller unit can be removed from the installed pump casing
- IIoT ready



MATERIAL COMBINATIONS

CP SERIES	GREY CAST IRON	STAINLESS STEEL	DUPLEX STAINLESS STEEL	SUPER DUPLEX STAINLESS STEEL	ABRASION RESISTANT CAST IRON
Volute Casing			■		
Casing Cover			■		
Shaft			■		
Impeller				■	■
Front and rear lining				■	■
Bearing housing	■				
Shaft protection		■			

Material	European standard		US standard	
	Number	Name	Grade	UNS
Grey cast iron	5.1301	EN-GJL-250	Class 40B	/
Stainless steel	1.4408	GX5CrNiMo19-11-2	CF8M	J92900
Duplex stainless steel	1.4474	GX4CrNiMoN26-5-2	Grade 3A	J93370
Duplex stainless steel	1.4462	X2CrNiMoN22-5-3	S32205	S32205
Super duplex stainless steel	1.4517	GX2CrNiMoCuN26-6-3-3	Class 1B	S93372
Abrasion resistant cast iron	5.5610	EN-GJN-HB555 (XCr23)	Grade 3A	



1 STURDY BEARING SUPPORT

- Composed of proven modular items

2 SHAFT SEALING

- Maintenance-friendly single or double mechanical cartridge seal
- Stuffing box

3 SPECIALLY DEVELOPED FREE-FLOW IMPELLER

- Wear-resistant materials
- No radial forces

4 FREE PASSAGE

- 56 to 145 mm

5 FLOW-OPTIMIZED DELIVERY BRANCH

- Ensures non-clogging operation

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



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.





INNOVATION SINCE 1852

The internationally renowned ANDRITZ GROUP has been building pumps for more than 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

SOUTH AMERICA

ANDRITZ HYDRO
Alameda Tocantins 350, 12º andar
06455-020, Barueri, SP - Brasil
p: +55 11 4133-0000
f: +55 11 4133-0037
bombas.br@andritz.com

ASIA

ANDRITZ (CHINA) LTD.
No.83 B Zone, Leping Central Techno-
logy & 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

ANDRITZ.COM/PUMPS



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 AG or any affiliates for equipment and/or systems referred to herein. © ANDRITZ AG 2023. 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 AG or its affiliates. Any such unauthorized use for any purpose is a violation of the relevant copyright laws. ANDRITZ AG, Stattegger Strasse 18, 8045 Graz, Austria.

