

# **ANDRITZ** centrifugal pump

ACP/ARE series







## High efficiency and robust design

For over 100 years, ANDRITZ has been a byword for competence and innovation in designing centrifugal pumps.

ANDRITZ horizontal centrifugal pumps are operating successfully all over the world. They offer robustness and wear resistance, and fulfill high customer expectations in terms of efficiency, life cycle, maintenance-friendliness, and economic efficiency.

### Modular system

The standard components in ANDRITZ pumps provide high availability and enable the use of proven components.

### Fields of application

- Pulp and paper industry
- Water supply and waste water treatment
- Power industry
- Food industry (e.g. sugar)
- Bioethanol
- Chemical industry

#### **Facts**

- Flow rates up to 6.000 m<sup>3</sup>/h
- Heads up to 160 m
- Casing pressure up to 25 bar
- Temperatures up to 200° C
- Consistencies up to 6% atro (ARE-design up to 8% atro)
- Efficiency up to 90%
- Only five bearing support sizes for the entire series!

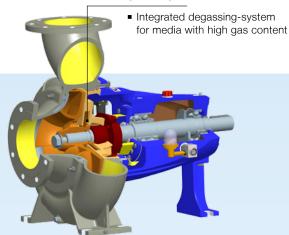


### Technology to convince you

The high standard of ANDRITZ centrifugal pumps, is based on decades of experience in designing hydraulic machines and on extensive process know-how.



#### **SMARTSEP**



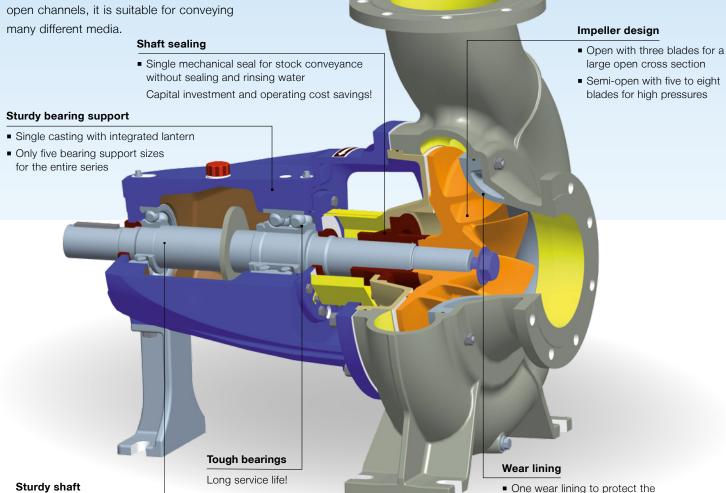
## AREseries with SMARTSEP degassing system

ANDRITZ offers the newly developed SAMRTSEP-degassing system especially designed for high gas content and stock suspensions of up to 8%. The pump is equipped with an integrated degassing system which removes gas from the media and conveys any fibres back to the pump. Controlling of the degassing valve becomes very easy: pump is running – valve is open, pump is not running – valve is closed.

pump casing

# Proven open-impeller design, series ACP

The open-impeller design of the ANDRITZ centrifugal pumps ACP series is characterized by low axial thrust. With its open channels, it is suitable for conveying many different media.



Ensures minimum shaft deflection and low mechanical vibration!

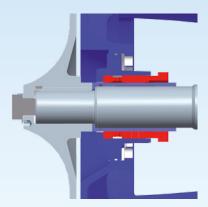


# High research and development capabilities

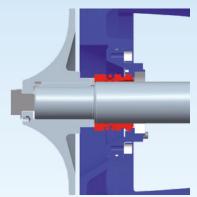
We run a pilot plant at our affiliate ASTRÖ, which enjoys international renown for its hydraulic developments and investigations. The high quality, safety and reliability of the ACP/ARE series pumps are ensured by extensive model testing.



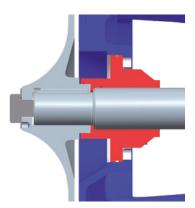
### Various sealing systems



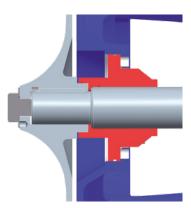
Stuffing box seal



Single mechanical seal



Tandem mechanical seal



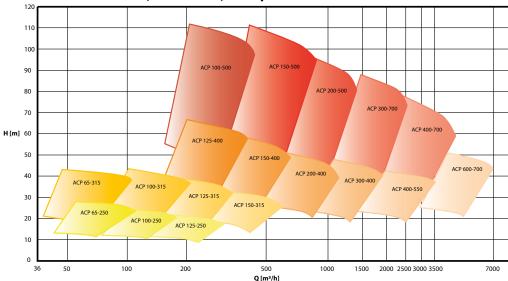
Single or double cartridge seal



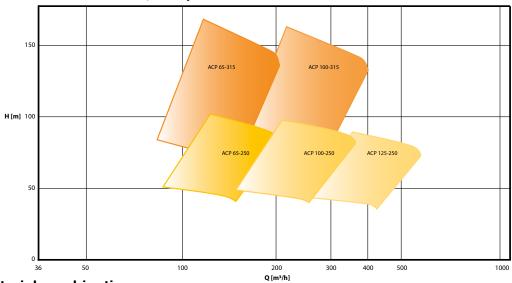
### **Characteristic curves**

## Centrifugal pumps, ACP/ARE series

### Characteristic curves 1,500 and 1,000 rpm



### Characteristic curves 3,000 rpm



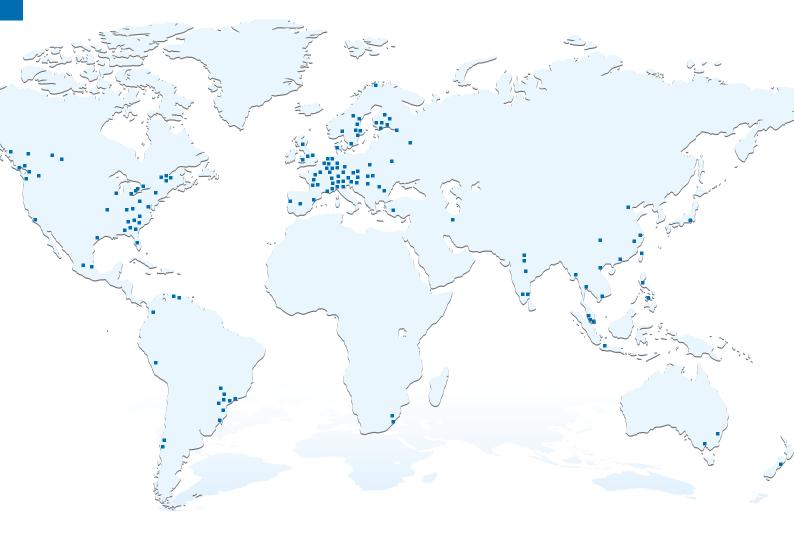
### **Material combinations**

ACP/ARE series	EN-GJL 250	1.4460	1.4021	1.4462	1.4517	1.4517 h	1.4404	1.4439	1.4469
Impeller									
Casing/casing cover									
Bearing housing									
Front lining									
Stuffing box body									
Shaft									

Europ	ean standard	US standard			
Number	Name	Grade	UNS		
EN-JL1040	EN-GJL 250	Class 40B	/		
1.4460	X3CrNiMoN27-5-2	Grade 1A	J93370		
1.4462	X2CrNiMoN22-5-3	S32205	S32205		
1.4517	GX2CrNiMoCuN25-6-3-3	Grade 1C	J93373		
1.4517 h	GX2CrNiMoCuN25-6-3-3	Grade 1C	J93373		
1.4469	GX2CrNiMoN26-7-4	Grade 5A	J93404		



## Close to our customers



### **ANDRITZ AG**

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