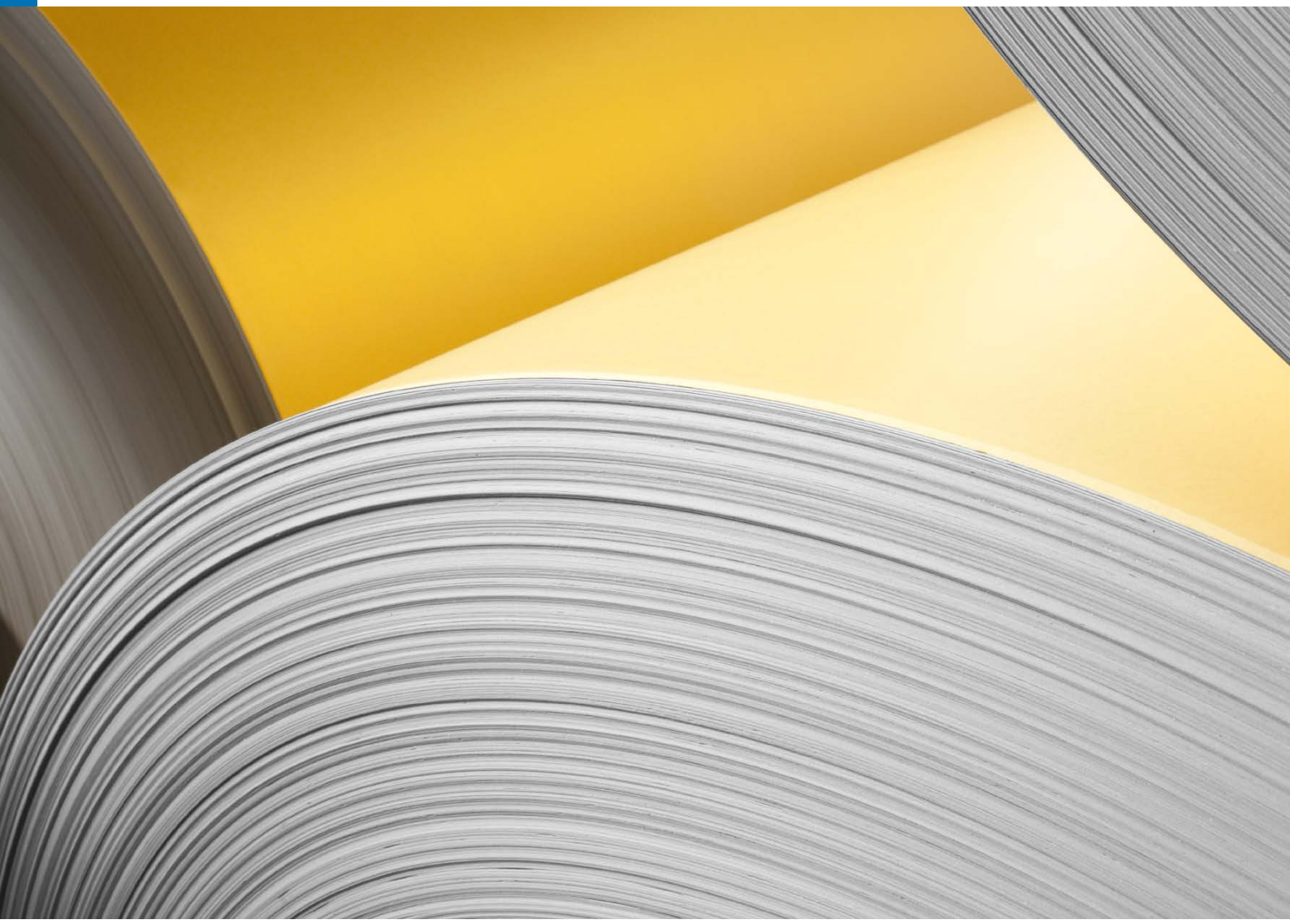
ANDRITZ Hydro

ANDRITZ

Pumps for the pulp and paper industry



www.andritz.com/pumps

ANDRITZ in the pulp & paper industry

Custom-tailored pump solutions

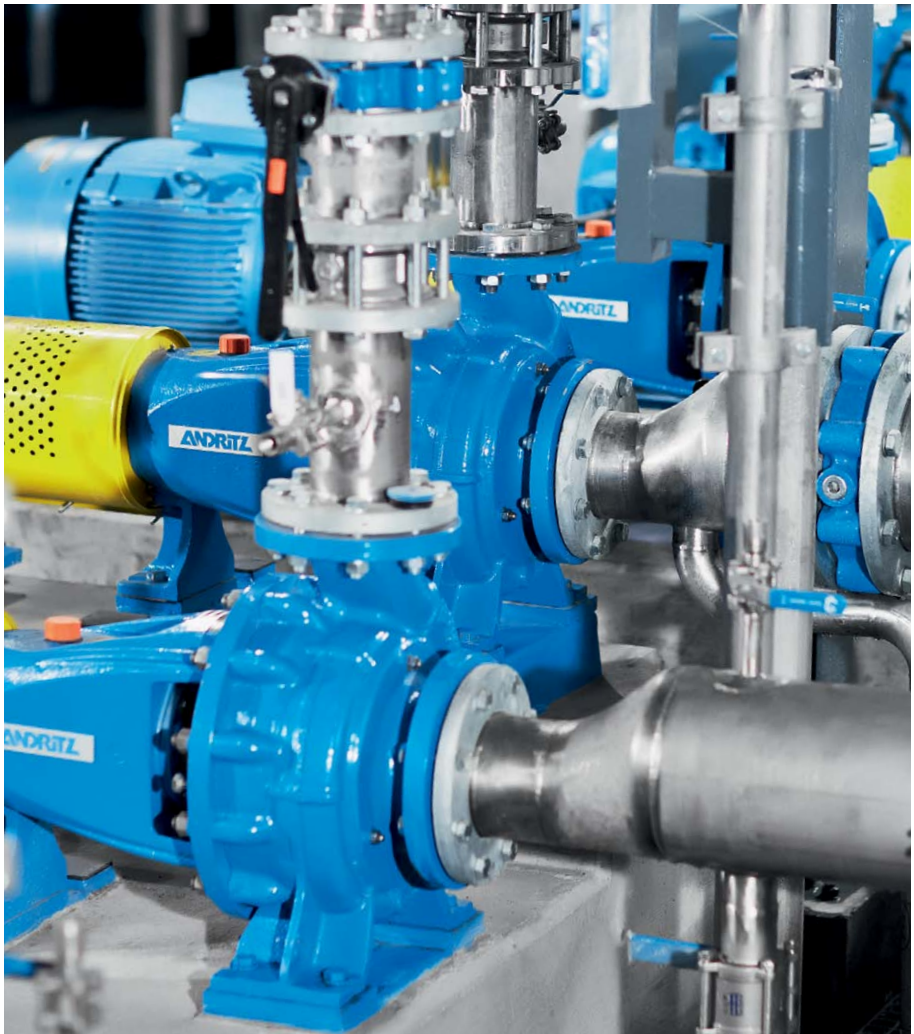
Are you responsible for operation or maintenance of a pulp or paper mill or are you project manager for construction of a greenfield pulp or paper mill? Here you can find a line-up of our most powerful and most reliable pumps.

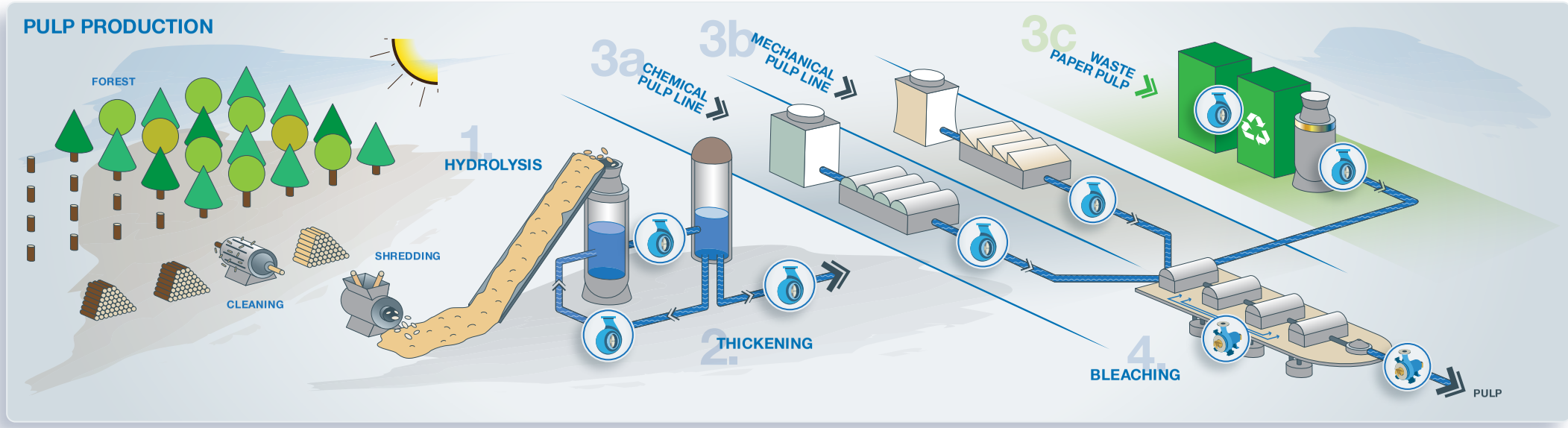
- **Centrifugal pumps** are used as process pumps in many different areas of pulp and paper mills. They pump suspensions at consistences of up to 8% b.d., offer high efficiencies of up to 90%, and convince customers with their service-friendly and modular design. These pumps are also available with an additional degasser if the medium to be pumped has a high gas content.
- **Double-flow pumps** have been optimized for use in the pulp and paper industry as headbox or cleaner pumps. They feature efficiencies of over 90% and low pulsation due to the offset rotor blades developed especially for the pulp and paper industry.
- **Medium-consistency pumps** convey the following media: chemical and mechanical pulp as well as secondary fibers with consistencies of up to 16% b.d. and efficiencies of up to 74%. In most applications, they can be operated without an internal or external vacuum pump.
- **Self-priming centrifugal pumps** convey media with a high gas content. Thanks to the semi-open impeller, they are also well suited to convey viscous media and media containing solids.
- **Sump pumps** convey water, waste water, pulp suspensions, slurries containing solids, and abrasive media.

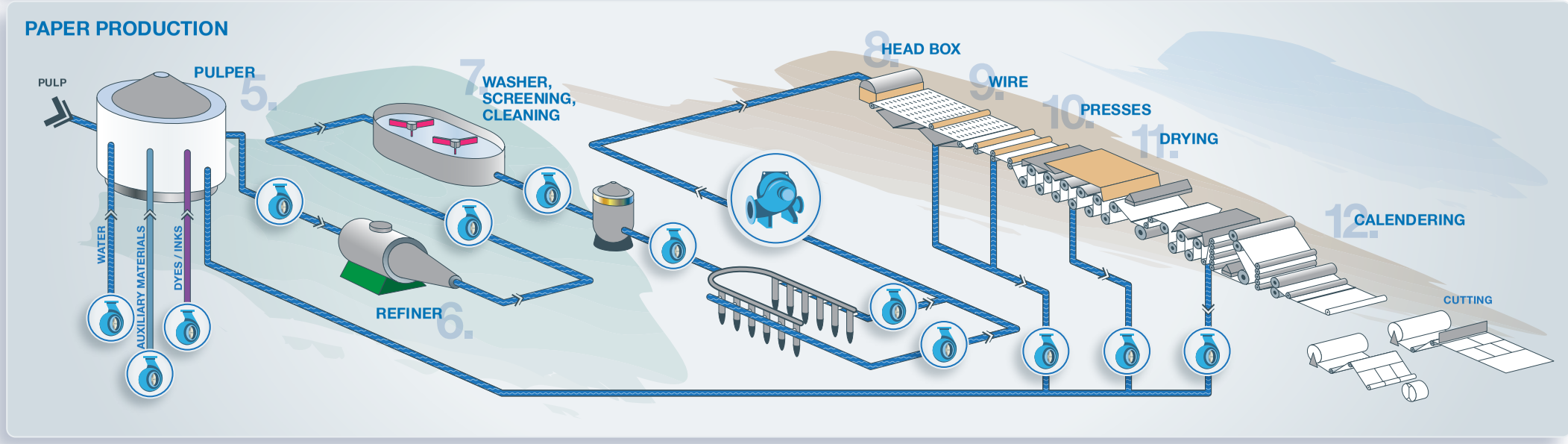
With our company-owned technical center, ASTRÖ, we have an internationally recognized institute for hydraulic development and investigation work at our disposal. Optimization on a computer using CFD and numerous model tests form the basis for the high efficiencies achieved by the ANDRITZ pumps series.

The advantages at a glance

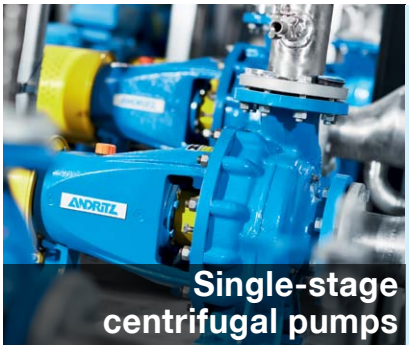
- Complete pumps program for the entire pulp and paper industry
- Efficiencies of up to 90%
- Consistencies of up to 16%
- Long life cycles
- Highly cost-effective
- Good NPSH values




PULP PRODUCTION
FOREST
CLEANING
SHREDDING
1. HYDROLYSIS
3a CHEMICAL PULP LINE
3b MECHANICAL PULP LINE
3c WASTE PAPER PULP
2. THICKENING
4. BLEACHING
PULP

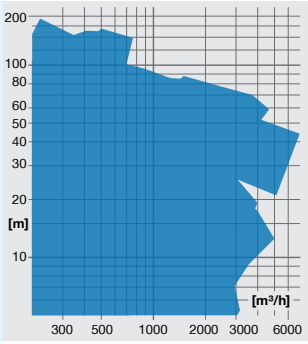

PAPER PRODUCTION
PULP
PULPER
5.
7. WASHER, SCREENING, CLEANING
8. HEAD BOX
9. WIRE
10. PRESSES
11. DRYING
12. CALENDERING
CUTTING
WATER
AUXILIARY MATERIALS
DYES / INKS
REFINER
6.

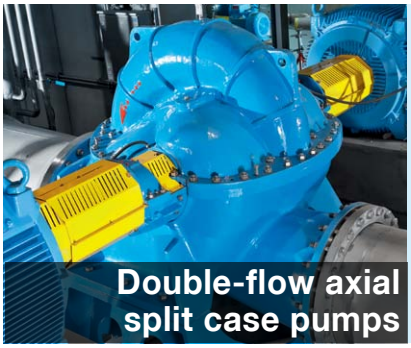
Pumptypes
in the pulp & paper industry



- Highly wear-resistant design
- Flow rate up to 6,000 m³/h
- Head up to 160 m
- Delivery pressure up to 25 bar
- Efficiency up to 90%
- Temperature up to 200° C

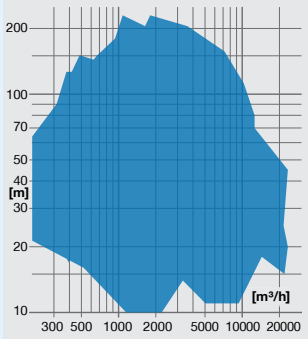
Single-stage centrifugal pumps with closed, semi-open or open impeller, also available in highly wear-resistant design. Various material combinations available guarantee long life cycles and outstanding economic efficiency in many different applications.





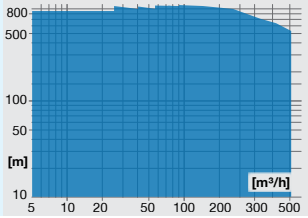
- Flow rate up to 20,000 m³/h customer specific up to 36,000 m³/h
- Head up to 220 m
- Consistencies up to 2% b.d.
- Efficiency beyond 90%
- Temperature up to 110° C

Single-stage axial split case pumps for conveying pure and slightly contaminated media. Efficiency of over 90% and low pulsation thanks to the double flow radial impeller with good NPSH values.



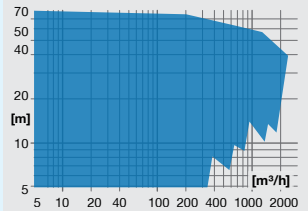
- Flow rate up to 20,000 m³/h
- Head up to 220 m
- Consistencies up to 2% b.d.
- Efficiency beyond 90%
- Temperature up to 110° C

Multi-stage, high-pressure pumps in horizontal or vertical design. Various different material combinations available.



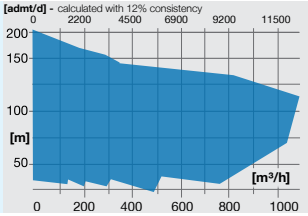
- Self-priming
- Flow rate up to 2,000 m³/h
- Head up to 75 m
- Delivery pressure up to 16 bar
- Temperature up to 80° C

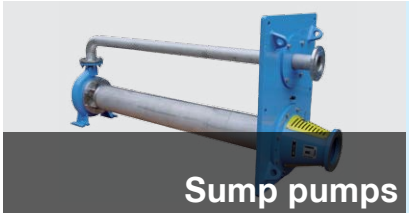
Single-stage centrifugal pumps containing integrated water ring vacuum pump with semi-open impeller.



- Flow rate up to 13,000 admt/d
- Head up to 190 m
- Delivery pressure up to 25 bar
- Efficiency up to 74%

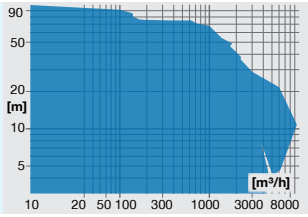
Single-stage medium-consistency pump with fluidizer for fibrous suspensions up to 16% b.d. Due to the SMARTSEP degassing system, there are no fiber losses.





- Modular frame concept
- Flow rate up to 800 m³/h
- Head up to 50 m
- Delivery pressure up to 16 bar
- Consistencies up to 6%

Single-stage submerged pump for pulp suspensions, slurries containing solids, and abrasive media. Standard construction length of 1 to 2 m.



Close to our customers

ANDRITZ locations worldwide

ANDRITZ AG
Stattegger Strasse 18
8045 Graz, Austria
Phone: +43 (316) 6902 0
Fax: +43 (316) 6902 413
pumps@andritz.com

www.andritz.com/pumps

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