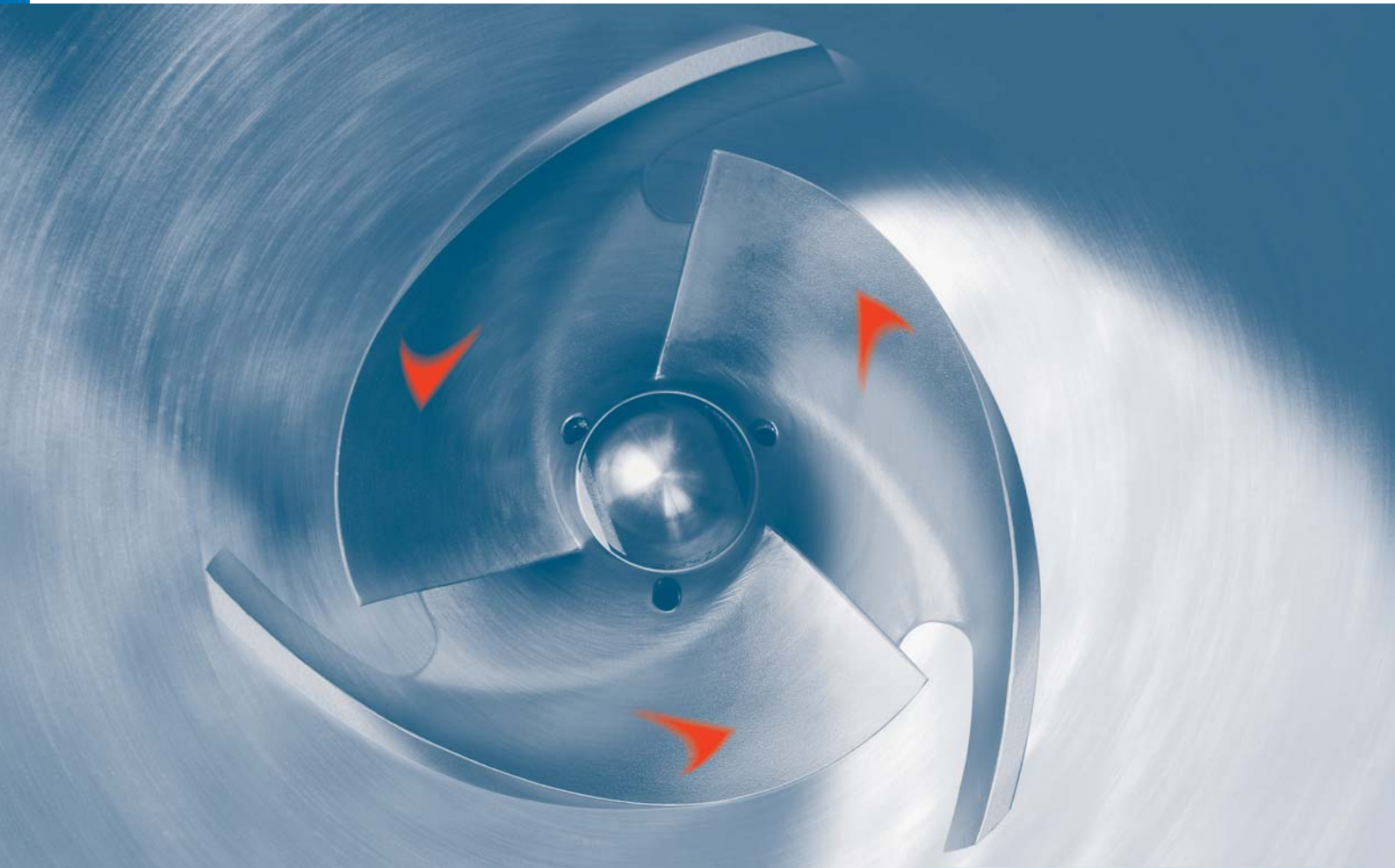


# **ANDRITZ Vertical Submerged Pump**

## SAT/CAT Series



# The most efficient way for sump dewatering

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

ANDRITZ SAT/CAT Series Vertical Submerged Pumps are advancements of our proven pump technology. The CAT Series is characterized by an exceptionally large open cross section and open channel in the spiral casing. Both pump types fulfil 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.

## Fields of application:

- Fresh water/white water
- Sewage water
- Pulp
- Slurries containing big particles
- Caustic abrasive media

## Modular system

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

## Safe and reliable operation

Conveyance of coarse media requires special measures in terms of design and materials used. ANDRITZ has developed the CAT Vertical Free-Flow Pump Series especially for these applications.

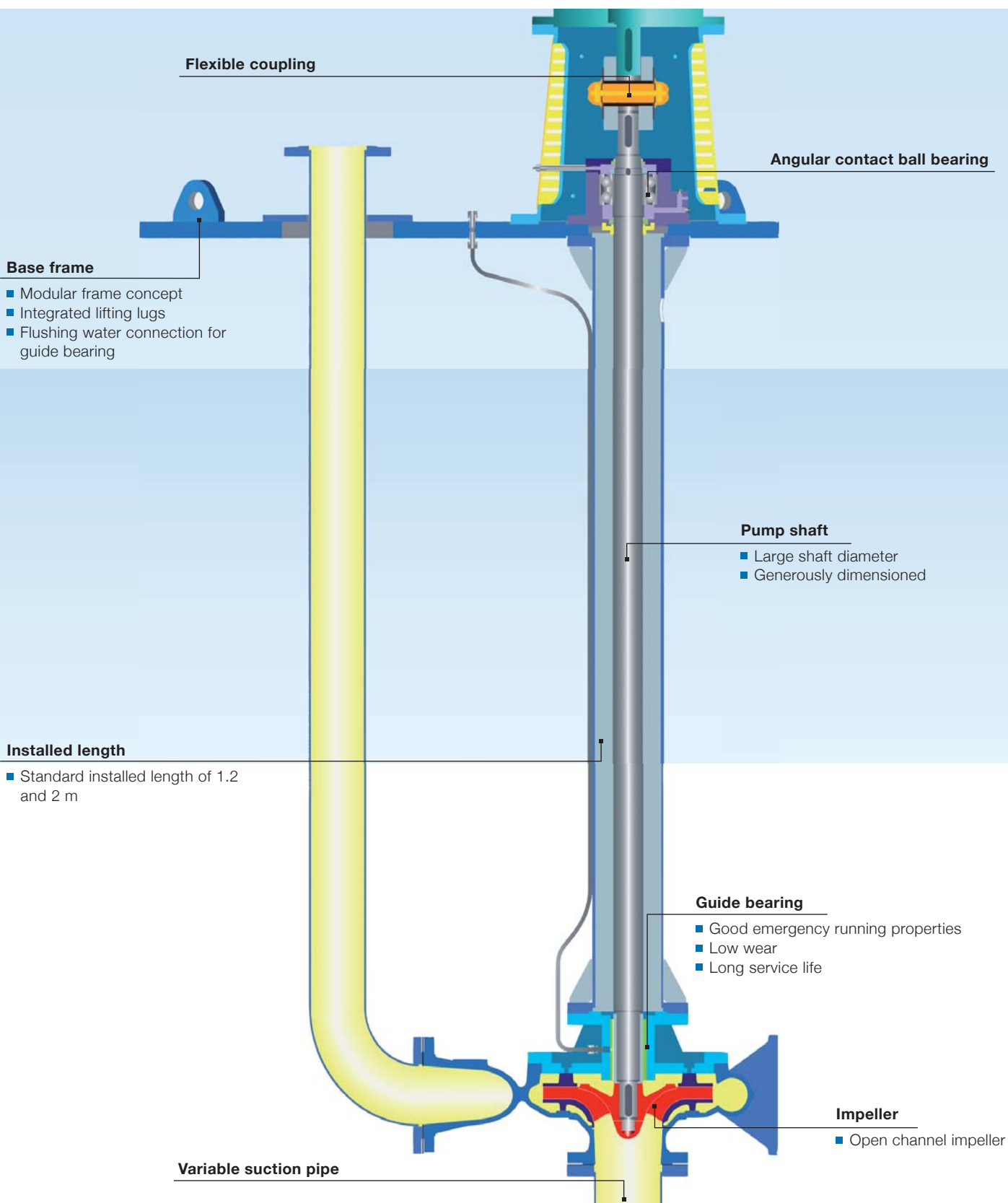
## The facts:

- Flow rates up to 800 m<sup>3</sup>/h
- Heads up to 50 m
- Temperature up to 60°C
- Consistencies up to 6%



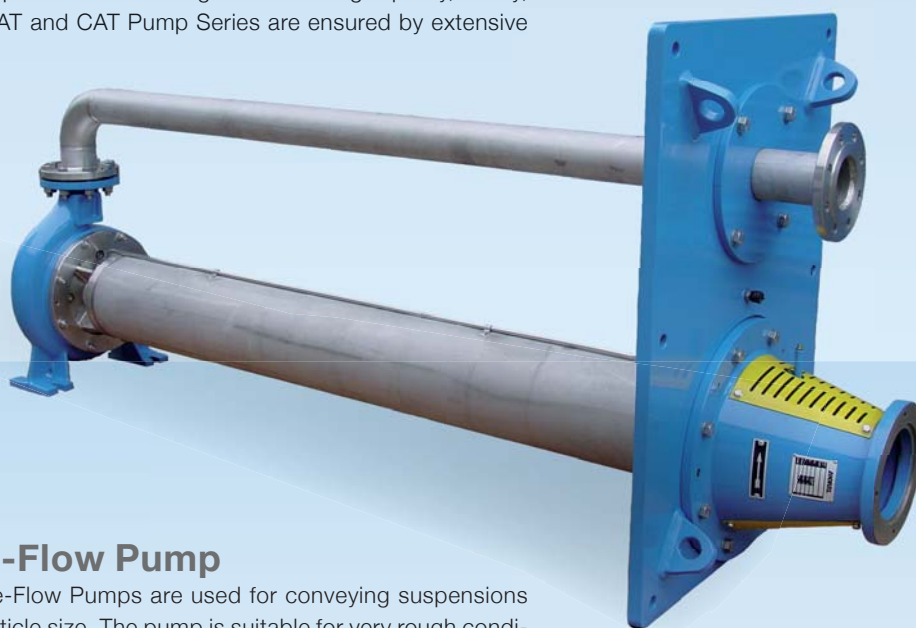
## Technology to convince you

The high standard of ANDRITZ Centrifugal Pumps, SAT and CAT Series, is based on decades of experience in designing hydraulic machines and on extensive process know-how.



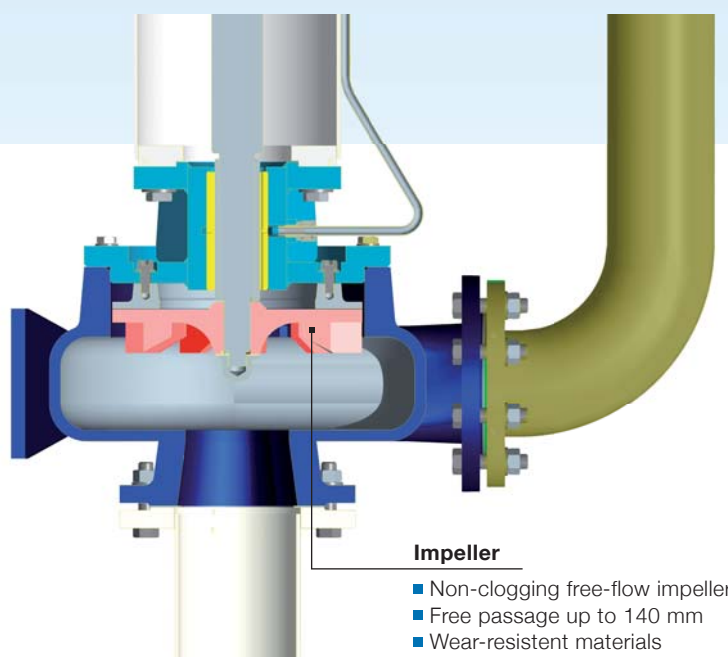
## High research and development capabilities

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 SAT and CAT Pump Series are ensured by extensive model testing.



## Vertical Free-Flow Pump

ANDRITZ Vertical Free-Flow Pumps are used for conveying suspensions with up to 140 mm particle size. The pump is suitable for very rough conditions such as extremely abrasive media, wood chips, municipal waste water, slurries containing large particles, and very long fibres.



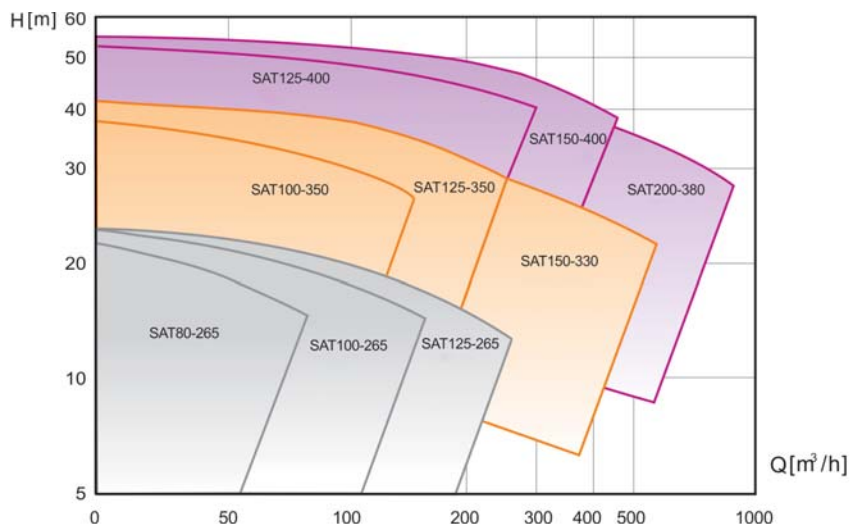
### Impeller

- Non-clogging free-flow impeller
- Free passage up to 140 mm
- Wear-resistant materials

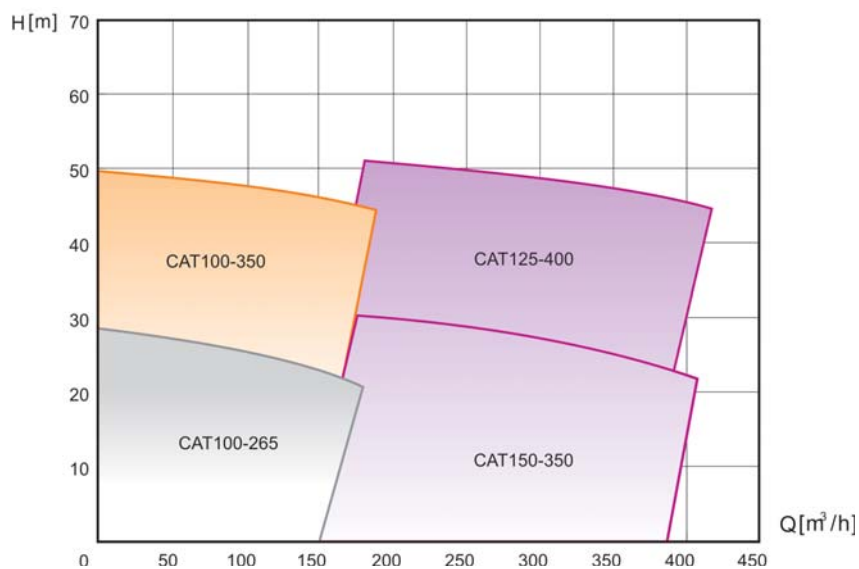
# Characteristic curves

## ANDRITZ Vertical Submerged Pump

Characteristic curve SAT Series 1500 rpm



Characteristic curve CAT Series 1500 rpm



### Material combinations

SAT/CAT Series	EN-GJL 250	1.4460	1.4021	1.4462	1.4517	1.4517 h	1.4404	1.4439	1.4468
Impeller		■			■				
Casing/casing cover	■	■							
Bearing housing	■								■
Front and rear lining		■				■			
Shaft			■	■			■	■	

European standard		US standard		
Number	Name	Grade	UNS	
EN-JL1040	EN-GJL 250	Class 40B	/	
1.4460	X3CrNiMoN27-5-2	Grade 1A	J93370	
1.4021	X20Cr13	420	S42000	
1.4462	X2CrNiMoN22-5-3	S32205	S32205	
1.4517	GX2CrNiMoCuN25-6-3-3	Grade 1C	J93373	
1.4517 hardened	GX2CrNiMoCuN25-6-3-3	Grade 1C	J93373	



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