

SULZER

Sulzer Pumps

Dewatering Pumps for Construction

Made
for the
real
world

The Heart of Your Process

abs

The World's Smartest Dewatering Pump

From roads and bridges to tunnels and dams, construction sites are difficult places to work. Mud, slurry, stones and rocks are often found in the surface water. Other water can appear out of nowhere, causing irritation and delay in time-sensitive projects.

This is the real world and it's tough. It's the reason Sulzer Pumps has taken a hard look at construction applications, using our experience to develop a new generation of dewatering pumps.

The result is the world's toughest and smartest dewatering pump for drainage or sludge. Introducing the ABS submersible dewatering pump XJ/XJS – a pump made for the real world.

With Intelligence Built In

The ABS submersible dewatering pump XJ/XJS is packed with electronic intelligence. Features like AquaTronic, AquaPlug and a smart level sensor ensure major benefits, including:

- **Correct motor rotation every time**
The pump electronically adjusts for incorrect phase order.
- **Motor protection**
The pump stops in the event of a power overload and/or high temperature.

- **Rapid assessment of operation/fault history**

A USB port allows pump condition to be checked with a PC – without disassembly.

- **No control panels required**

Built-in pump electronics eliminate traditional electrical control panels.

- **Reduced energy consumption and wear**

The pump can be set to stop at dry running and start again at a specified level, which saves energy and minimizes wear.



ABS submersible dewatering drainage pump XJ



ABS submersible dewatering sludge pump XJS



The New ABS Pump for Tough Sites

When you're working against the clock to meet construction demands, you need everything to go right. That's why you need the ABS submersible dewatering pump XJ/XJS from Sulzer Pumps.

With its smart capabilities, the pump ensures reliable drainage and sludge dewatering. That means both an optimal working environment and high production efficiency.

Key Advantages

- Plug and pump, and walk away
- Unique design for trouble-free operation
- Robust construction for long life
- Smart features to minimize servicing
- Saves energy and the environment

Fold out to see how the ABS submersible dewatering pump XJ/XJS saves you both hassle and money.

Smart Reasons for Managers

Construction site managers need solid economic reasons for purchasing equipment. The ABS submersible dewatering pump XJ/XJS provides them. Easy and safe to use, its trouble-free operation ensures more time in the water and less in the workshop. Its low energy consumption saves running costs as well. The result is a drainage and sludge dewatering pump with optimal lifecycle economy.

Trouble-Free Operation

- The new pump design, robust construction and *high-grade* materials ensure high wear resistance.
- With electronic supervision built into the pump, you always know it's protected.

Easy and Safe to Use

- The correct direction of impeller rotation is ensured by our optional AquaTronic unit. Plug and pump, and walk away.
- Soft-starting with motors from 8 kW ensures a smooth start sequence.
- The AquaPlug control and monitoring module offers a range of alarms, enabling quick reaction to a potential problem.

Saves Energy and the Environment

- The high-efficiency motor and hydraulics are combined with low-friction bearings to reduce power losses. You achieve low total energy costs and minimize your carbon footprint.
- Together with the water level sensor, the AquaPlug control and monitoring module provides cost-effective water level control and helps lower power consumption.

Easy Servicing

- The built-in service software of the AquaTronic unit can be viewed on a PC via USB link.
- The condition of the pump can rapidly be checked without disassembly.
- The modular design of the pump range saves costs by ensuring maximum pump availability with a smaller spare parts inventory.

Local Support Worldwide

- Sulzer Pumps has a global reach and provides local support for its pump ranges. You are assured of excellent sales and service assistance, wherever you are located.



Smart Reasons for Users



Users of the ABS submersible dewatering pump XJ/XJS will be glad to know that it's a true plug-and-pump unit. There's no wondering whether the impeller will rotate correctly, or whether the pump will start and stop as desired. It's a stable, safe and reliable pump that can be transported and installed easily. Let it do its job, and you're free to do yours.

Plug-and-Pump Installation

- Thanks to our AquaTronic unit, pumping starts immediately and is fail-safe. The direction of impeller rotation is always correct.
- The pump is the first of its kind with built-in compensation for incorrect phase order.

Reliable Pump Operation

- High pump availability is ensured, thanks to standardized products supplied from local/central stock.
- Operating efficiency is excellent. The highly wear-resistant impeller and adjustable wear ring are both made of high-chrome alloy steel. The diffuser is coated with oil-resistant nitrile rubber.

Easy to Handle

- Stable and robust, the pump is easily moved around.
- A vertical handle on top of the pump allows simple lifting, either by hand or machine.

Safe Operation

- The pump can be started and stopped manually or automatically with our AquaPlug control and monitoring module.
- Environmentally safe white oil is used in the oil casing.

Easy Servicing

- The workshop manual and spare parts list, readily available in the AquaTronic unit, can be viewed on a PC via USB link.

The Next-Generation Dewatering Pump

Sulzer Pumps has over 50 years of experience with submersible pumps and plays a leading role in their development. As increasing demands are placed on our customers, we enable them to work in a more efficient way. With the high performance of the ABS submersible dewatering pump XJ/XJS, the demand for quick and effective dewatering is met.

Endurance for a Hard Life

The ABS submersible dewatering pump XJ/XJS is a total solution for operating in tough conditions. It offers a sturdy, heavy-duty housing of cast aluminum, as well as an impeller and a wear ring in high-chrome steel alloy. It also has diffusers coated in nitrile rubber, opposing seal surfaces of silicon carbide and a double-cable-seal system for the power cable entry.

Electronic Intelligence

Building the world's smartest dewatering pump means eliminating electrical control panels. Our AquaTronic unit integrates electronic intelligence into the pump, while our AquaPlug module integrates it into the power supply. This smart development prevents unnecessary servicing. Pump diagnostics can be carried out rapidly and easily without disassembly.

Hands-On Development

At Sulzer Pumps, our entire staff is committed to improving our products. We travel to the difficult sites in which dewatering pumps operate. From sales to service, we listen to the views of users. We learn which improvements to our products would make your job easier, and we channel this valuable feedback into our R&D.



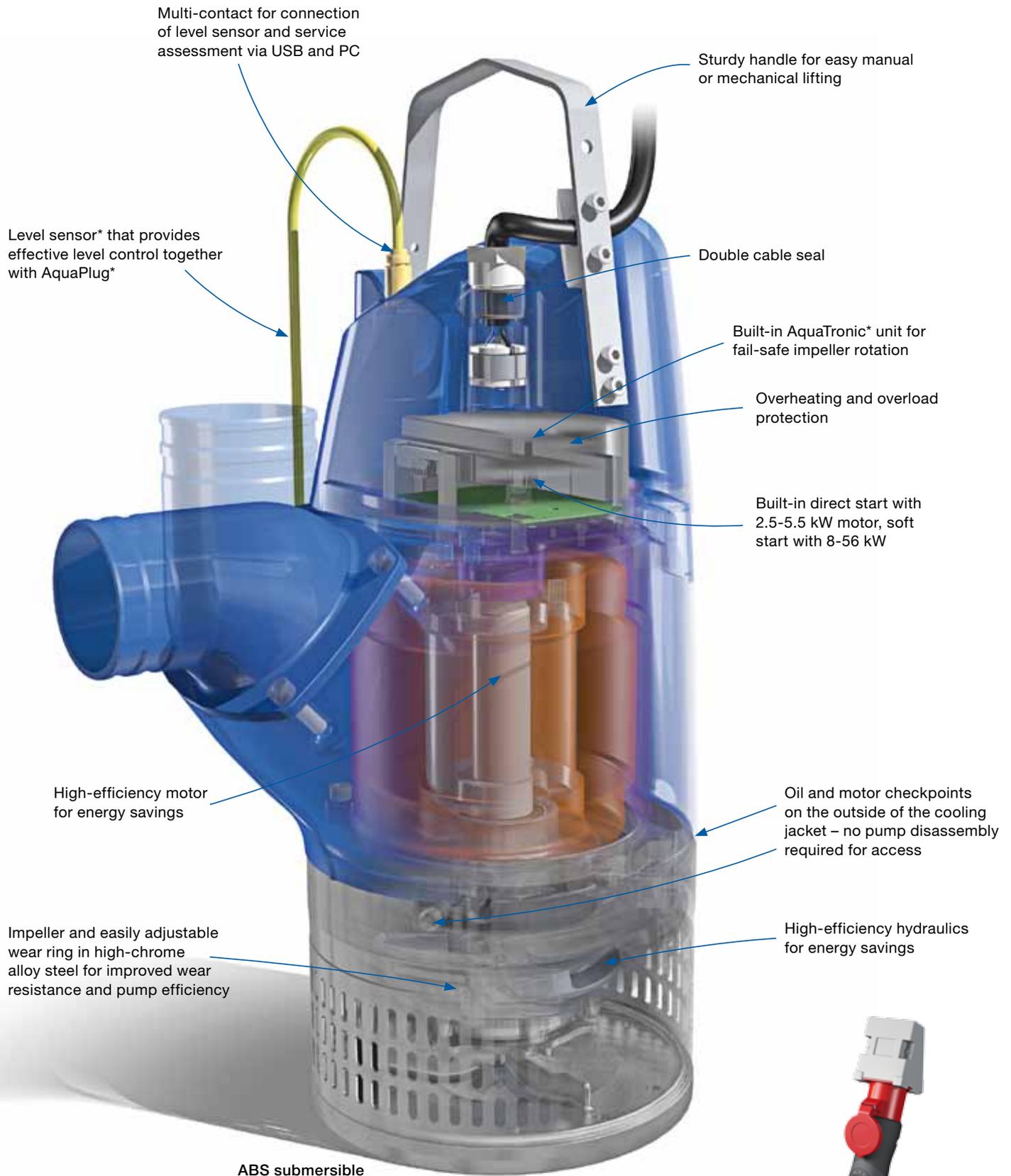
Our new dewatering pump in action while building a new tunnel in south Germany.



Pumps on their way to installation.



Installing a pump in Stockholm, Sweden.



Multi-contact for connection of level sensor and service assessment via USB and PC

Sturdy handle for easy manual or mechanical lifting

Level sensor* that provides effective level control together with AquaPlug*

Double cable seal

Built-in AquaTronic* unit for fail-safe impeller rotation

Overheating and overload protection

Built-in direct start with 2.5-5.5 kW motor, soft start with 8-56 kW

High-efficiency motor for energy savings

Oil and motor checkpoints on the outside of the cooling jacket – no pump disassembly required for access

Impeller and easily adjustable wear ring in high-chrome alloy steel for improved wear resistance and pump efficiency

High-efficiency hydraulics for energy savings

ABS submersible dewatering pump XJ

AquaPlug* control and monitoring module providing automatic stop/start, optional level control and service indication



**Optional*

Several Outstanding Innovations

The ABS submersible dewatering pump XJ/XJS is packed with exceptional innovations. These innovations allow the pump to truly deliver in dewatering applications on construction sites. For both management and users, the superior features shown below provide benefits not found in any other submersible dewatering pump.

AquaTronic

- Ensures correct motor rotation, irrespective of power connection
- Stops the pump at dry running
- Allows pump start via temperature control or level sensor
- Stops the pump upon alarm for overload or high temperature
- Stops the pump upon missing phase or extreme phase unbalance
- Allows pump performance and service diagnostic data to be viewed on a PC via USB connection, enabling accurate evaluation of service and maintenance needs
- Provides warnings for:
 - High and low voltage
 - Low motor insulation
 - Water in oil



AquaPlug

- Identical plug for all pumps, available with 16A and 32A sockets
- Alarm for motor overheating or power failure, plus indication when service is needed, e.g. due to water in oil
- Selector for automatic or manual stop/start
- Pump control and monitoring – can stop the pump when snoring
- Power line communication over 4-core power cable



Level Sensor

- Together with AquaPlug, provides precise water level control





High-Efficiency Motor and Hydraulics

- Reduce power losses
- Lower total energy costs
- Run cool for longer life cycle

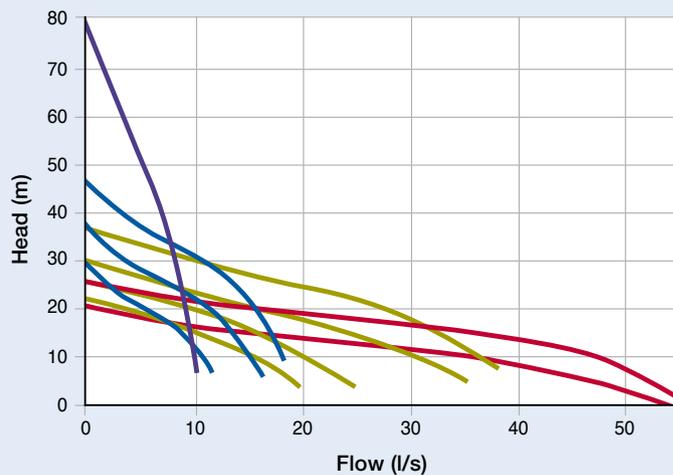
High Performance and Wear Resistance

- A double outer casing and good heat convection allow continuous operation at low water levels – or even dry running – without motor damage
- Robust and reliable materials: outer casing in cast aluminum, cast parts in lightweight aluminum alloy, mechanical shaft seals in silicon carbide
- High-efficiency, long-life construction: highly wear-resistant impeller and adjustable wear ring, both of high-chrome alloy steel, plus diffuser in oil-resistant nitrile rubber

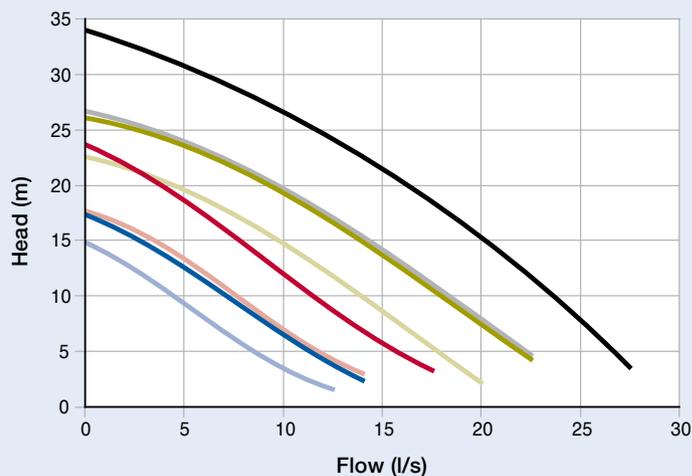
ABS Submersible Dewatering Pump Range, XJ/XJS

Pump performance curves for the range of ABS submersible dewatering pumps XJ/XJS allow you to select the most suitable pumps for your applications.

Drainage Pumps, ABS Submersible Dewatering Pump XJ



Sludge Pumps, ABS Submersible Dewatering Pump XJS



As our product range is under constant development, visit www.MadeForTheRealWorld.com occasionally to check the progress of new model introductions.

Combined Strength for Unmatched Expertise

ABS, associated with innovation and well proven solutions for wastewater handling and dewatering, is a product brand of Sulzer. Strong customer service combined

with extensive application expertise in solving wastewater and dewatering challenges is the foundation of this strong global brand. For more information, visit www.sulzer.com

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