GRUNDFOS
INDUSTRY

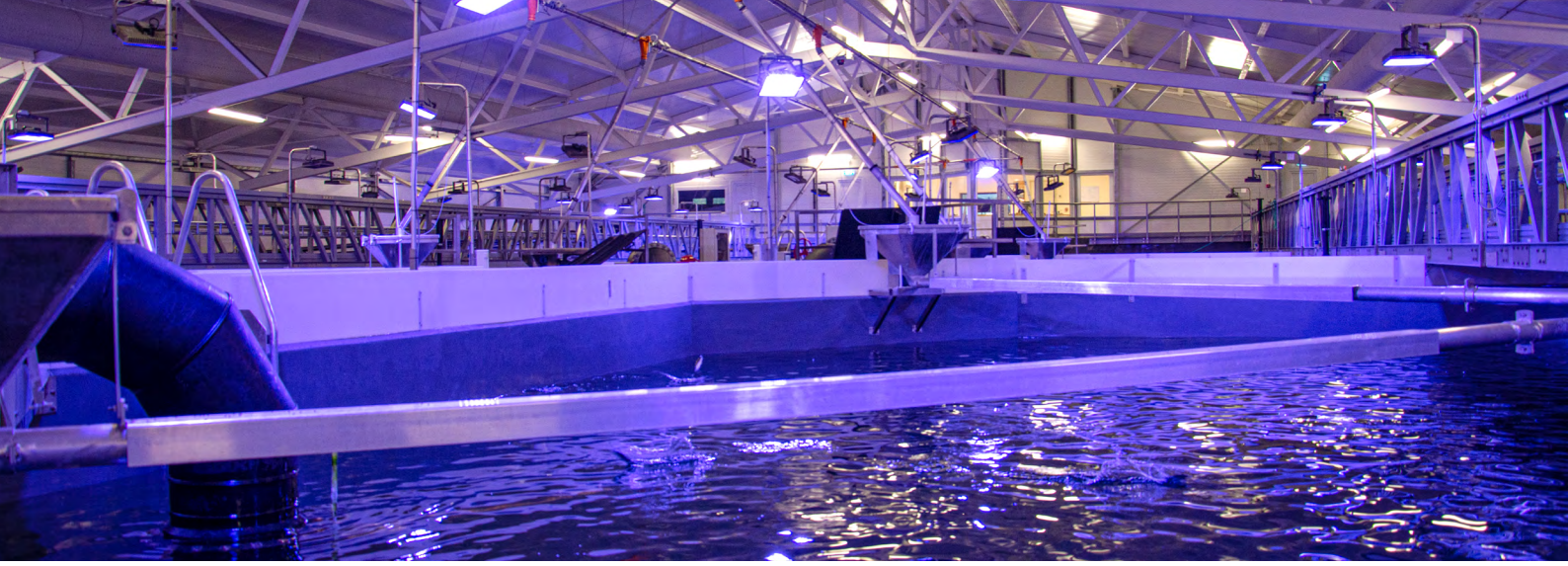
AQUACULTURE

We don't know how to grow fish, but we do have the pumps to make it happen



GRUNDFOS

Possibility in every drop



PUMPS FOR AQUACULTURE

With the wide range of Grundfos centrifugal pumps, you can find the right solution for your application. Whether it is seawater, freshwater, water reuse, wash and clean processes, or cooling and heating, we offer reliable pumps that combine dependable performance with excellent value.

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NB - END-SUCTION PUMP



APPLICATIONS
Intake - Oxygen - Recirculation - Heating/cooling circulation

Q - Max Flow	H - Head max	Flange size
4000 m³/h	160 meters	DN32-DN500

Materials
- Cast iron
- Epoxy-coated cast iron for seawater
- Stainless steel
- Acid resistant
- Duplex for seawater

Key benefits
- Efficient and reliable operation
- Available in multiple material variants, including seawater-resistant options
- Standardised dimensions for straightforward installation and replacement
- Cost-effective solution with proven hydraulic performance



CR - MULTI-STAGE PUMP

APPLICATIONS
Wash and clean - Water treatment - Water pressure boosting

Q - Max Flow	H - Head max	Flange size
320 m³/h	400 meters	DN25-DN200

Materials
- Cast iron and stainless steel
- Stainless steel (AISI 304)
- Stainless steel (AISI 316)





Key benefits
- High-pressure performance for demanding applications
- Modular design with multiple configuration options
- Integrated variable speed control options for optimised energy use
- Reliable operation across a wide operating range

S - SUBMERSIBLE PUMPS



APPLICATIONS

Intake - Pumping of industrial effluent - Transfer of unscreened raw sewage

Q - Max Flow	H - Head max	Flange size
6000 m³/h	78 meters	DN50-DN600

Materials

- Cast iron
- Stainless steel impeller
- Duplex impeller
- Epoxy-coated variants

Key benefits

- Suitable for both submersible and dry-installed operation
- High hydraulic efficiency for reduced energy consumption
- Durable design for demanding operating environments
- Large free passage for reliable handling of solids-containing media

TP - IN-LINE CIRCULATOR



APPLICATIONS

Recirculation - Heating/cooling circulation - Pressure boosting

Q - Max Flow	H - Head max	Flange size
4600 m³/h	170 meters	DN32-DN400

Materials

- Cast iron
- Stainless steel impeller
- Duplex impeller
- Epoxy-coated variants

Key benefits

- Compact design for easy system integration
- High-efficiency operation to reduce energy consumption
- Reliable performance
- Available in corrosion-resistant material variants

HYDRO MPC/SOLO-E/MULTI-E - BOOSTER PUMPS

APPLICATIONS
Water distribution - Water treatment - Industrial applications

Q - Max Flow	H - Head max	Flange size
1400 m^3/h	160 meters	DN50-DN400

Materials
- Cast iron and stainless steel
- Stainless (AISI 304)
- Stainless (AISI 316)
- Titanium

Key benefits
- Pre-assembled booster solution for quick and simple installation
- Intelligent control for stable pressure and optimised system performance
- High-efficiency operation based on actual demand
- Complete monitoring and control functionality



CRE/TPE/NBE - E-PUMPS

The IE5 MGE motor delivers the highest levels of energy-efficiency in the market and matches pump speed to constantly-changing requirements, giving you full control.

APPLICATIONS
All dry installation pumps with motor sizes up to 22kW can be supplied with an built-in frequency converters. Single-stage pumps available up to 90kW.



SP - SUBMERSIBLE GROUNDWATER PUMP

APPLICATIONS
Groundwater lowering - Pressure boosting - Industrial applications

Q - Max Flow	H - Head max	Flange size
340 m³/h	800 meters	1 ½ - 6”

Materials
- Available in 3 material grades
- Resistant to sand and aggressive water

Key benefits
- New SP 6” pump with optimised hydraulic design
- Low energy and operating costs
- Reliable operation
- Future-ready SPE system control





UNILIFT CC/KP/AP - SUBMERSIBLE DRAINAGE PUMP

APPLICATIONS
Filling/emptying containers and tanks - Drainage water and water from flooding

Q - Max Flow	H - Head max	Flange size
35m³/h	18 meters	R 1 ¼” til 2”

Materials
- Composite
- Stainless steel (AISI 304)

Key benefits
- Simple installation and commissioning
- Reliable drainage and transfer of clean and lightly contaminated water
- Compact and robust construction



OPTIMISE YOUR PUMP SYSTEMS WITH CONNECTED SOLUTIONS

PLUG-AND-PLAY SOLUTIONS
COVER 95% OF ALL COMMUNICATION INTERFACES

CUSTOMISED DASHBOARDS
GAIN ACTIONABLE DATA INSIGHTS

REMOTE DATA ACCESS
TAKE CONTROL OF OPERATIONS ANYWHERE

GRUNDFOS iSOLUTIONS



CONNECT, CONTROL AND OPTIMISE

Grundfos iSOLUTIONS combines intelligent pumps, controls, sensors and digital services to help you monitor, analyse and optimise system performance.

Built on more than 25 years of experience in intelligent water solutions, Grundfos iSOLUTIONS provides easy integration with a wide range of automation and monitoring systems. Access actionable insights, gain greater visibility into system performance and make informed decisions based on real-time data.

Whether you work with water treatment, aquaculture, industrial processes or utility applications, Grundfos iSOLUTIONS helps you improve operational efficiency, simplify system management and support reliable operation.

Discover the benefits of Grundfos iSOLUTIONS for your application at
https://www.grundfos.com/solutions/learn/research-and-insights/grundfos-isolutions

DDA/DDC/DDE/DME - INTELLIGENT DOSING PUMPS



APPLICATIONS
pH-adjusting - Feeding - Chemicals for cleaning

Q - Max Flow
0-940 l/h

H - Pressure max
16 bar

Materials
Pump head:
- PP
- PVC
- PVDF
- Stainless steel

Key benefits
- Accurate and consistent dosing with SMART Digital Dosing technology
- Easy commissioning and intuitive operation
- Reliable process performance with smooth, continuous chemical dosing
- Flexible integration through multiple control and communication options

DOSING CABINETS



APPLICATIONS
pH adjustment - Chemical dosing - Water treatment processes

Q - Max Flow
0-940 l/h

H - Head max
16 bar

Materials
- PP
- PVC
- PVDF
- Stainless steel

Key benefits
- Improves operator safety during chemical handling
- Available as standard or customised turnkey solutions
- Protects dosing equipment from environmental influences
- Flexible configuration with monitoring and control accessories

BMS - EXPANDED BOOSTER MODULE RANGE

APPLICATIONS
Pressure boosting and reverse osmosis systems

Q - Max Flow
310 m³/h

H - Head max
82,7 bar

Flange size
3”- 6”

Materials
EN1.4539 / Aisi904L

Key benefits
- High-efficiency operation for energy-intensive applications
- Compact design with a small installation footprint
- Durable construction for demanding water treatment processes
- Easy maintenance and alignment for lower lifecycle costs

Pump versions
- BMS hs
- BMS hp
- BMSX



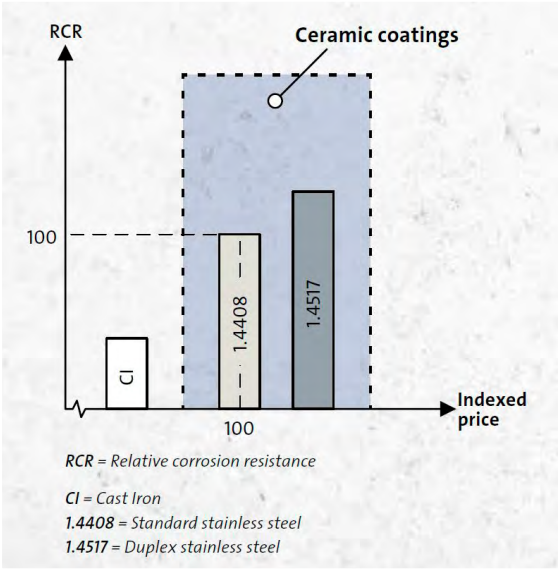
Ceramic COATING



Superior performance against erosion, corrosion and chemical attack, that ensures reliable performance and long lifetime.
Grundfos provides coation for the following applications:

- Brackish water
- Sea water < 25 °C
- Sea water between 25 °C and 65 °C

The ceramic coatings can be applied to all material versions of NB, NBG, NK and NKG pumps, such as cast iron and 1.4408 and 1.4517 stainless steel types. If a pump is worn out, it may also be possible to rebuild the pump internals. In addition to the internal coating on wetted parts, all coated pumps have two layers of external paint, providing a corrosion category of C4-M (or other catagories).





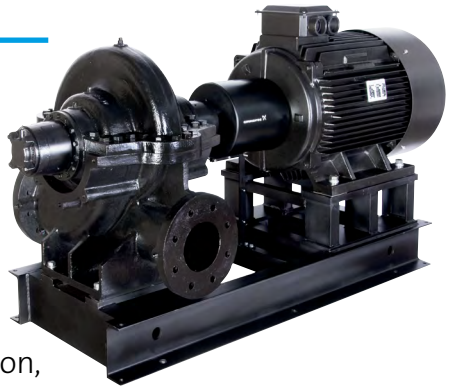
COATING PROPERTIES

- 100 % surface preparation before coating
- Special advanced coating polymers
- Smoothness inside pump during pump lifetime
- Reinforcement with silicon carbide and
- aluminium oxide
- Very low permeability through coating film
- High temperature resistance towards liquid/ media
- High wear resistance towards liquid/media
- High chemical resistance towards liquid/media
- Extensive Quality Control during coating process
- Long-term references from the industry
- Experienced and skilled coating applicator

YOUR BENEFITS

- Application resistance to the pumped liquid/media
- Long lasting reliable solution
- No corrosion or erosion inside pump
- Better efficiency and performance of the pump
- No downtime in application
- Lower service costs for pump application
- Resistant to pitting corrosion
- No flange corrosion
- No corrosion products in pumped liquid/ media

LS - HORIZONTAL SPLIT CASE PUMPS



APPLICATIONS
Intake - Oxygen - Recirculation - Heating/cooling circulation

Q - Max Flow	H - Head max	Flange size
15000 m³/h	250 meters	DN50-DN1000

Key benefits
- High hydraulic efficiency for large-volume water transport
- Robust construction for long-term reliability
- Low lifecycle costs through efficient operation
- Proven hydraulic design for demanding applications

Materials
Pump house: Cast Iron, Stainless Steel
Impeller: SS304, Duplex

MTR - IMMERSIBLE PUMPS



APPLICATIONS
Filter flushing

Q - Max Flow	H - Head max	Flange size
100 m³/h	300 m	1 1/4" - DN80

Key benefits
- Space-saving vertical design
- Reduced pipework requirements
- Reliable operation in industrial tank applications
- Corrosion-resistant stainless steel construction

Materials
- Stainless steel (AISI 304)
- Stainless steel (AISI 316)

CUE - FREQUENCY CONVERTERS

Adaption of performance to current consumption with corresponding energy savings.

APPLICATIONS
Offering simple installation and operation coupled with extensive control and monitoring possibilities, Grundfos CUE is perfectly suited for pump applications for adaption of performance to system demand with corresponding energy savings.
Grundfos CUE runs with the most energy efficient motor construction types for higher flexibility, and not least high pump system efficiency:
A series of predefined control modes, such as constant pressure, proportional pressure, constant level or constant flow, makes it very easy to set up a system in only a few steps.



KEY BENEFITS
- Intuitive start-up guide
- Multi-pump function including auto-changeover, duty/standby or duty/assist
- Advanced HMI panel
- Multiple system parameter measurement
- CUE range available up to 560kW.

GRUNDFOS SERVICE & SOLUTIONS

Customised solutions

The pumps are customised to the customer's needs as much as possible. We choose the best pump for your application depending on the tasks and demands. Important parameters when selecting is energy optimisation, reliability and that it is user and service friendly.

Grundfos Service - more than just spare parts

We know it is important to our customers that we have a good service unit, and we are constantly working on developing innovative and first-class service offerings. We always want to meet our customer's service needs by providing first-class service.

SERVICE AGREEMENT

The Grundfos Standard Service Agreement includes a yearly inspection of pumps, motors, wear parts and controls (when integrated) by a Grundfos service engineer. Following the inspection, you will receive a report with an overview of pump performance and recommendations for improvements you can make to achieve long-term savings.

Benefits of a Grundfos Standard Service Agreement

- Enhanced operational reliability and safety
- Reduced and predictable operating costs
- Increased equipment life span
- Easy maintenance record keeping with the Grundfos Insepction report

GRUNDFOS ENERGY CHECK

A Grundfos Energy Check includes an analysis carried out by skilled Grundfos personnel, calculating the energy consumption and CO2 emissions of your existing pumps. The final report identifies potential savings from switching to more energy efficient Grundfos pumps based on the findings of the analysis.

Benefits of a Grundfos Energy Check

- The Energy Check can help you reduce energy consumption, thereby improving the environmental profile of your facility
- Comprehensive overview of your current expenses and potential savings
- Your facility will meet design standards for energy using products on circulators and pump motors

FOR MORE INFORMATION

To learn more about our products and solutions, visit:
www.grundfos.com

Select country to find the contact information to your local Grundfos company:
www.grundfos.com/contact

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