OPTIMIZED INDUSTRIAL SOLUTIONS

Pumps and systems for today's process and water challenges

be
think
innovate

GRUNDFOS

OPTIMIZED SOLUTIONS
FOR THE ENTIRE INDUSTRIAL PLANT

Grundfos provides a comprehensive range of optimized solutions for the North American process and industrial markets. Grundfos is a full-line supplier of reliable products and robust service offerings for an array of applications, including the following:

APPLICATIONS:

WATER
TREATMENT

WATER TREATMENT:

The process of water treatment is vital to us all. With the shift toward decentralized water treatment, Grundfos' extensive product portfolio empowers industrial customers to move and treat water efficiently and effectively across every type of building and industry. In Grundfos, you gain more than a pump supplier, you gain a partner focused on solving the challenges of your operations and delivering higher accuracy, efficiency, and reliability than you thought possible. Additionally, as businesses and industries become more water conscious, Grundfos is a leader in optimized sustainable solutions to treat water for reuse in a range of applications.

BOILER
FEED

TEMPERATURE CONTROL:

Grundfos' thoroughly tested, variable frequency drive pumps optimize the boiler feed process. Designed with low NPSH, these solutions cater to systems with poor inlet conditions. This ensures cavitation-free operation even outside the pump's normal duty range. Grundfos' air-cooled top shaft seal solution eliminates the need for external cooling in high-temperature applications.

INDUSTRIAL
COOLING

As the demand for industrial production grows globally, so too does the demand for cooling. In almost every industrial facility, ensuring the right temperature for machines and processes is essential to production efficiency, reliability and quality. Grundfos offers a number of pumps and solutions equipped with variable frequency drive motors and sensors to create a complete solution that can improve operational efficiency, and achieve greater OPEX savings.

WASHING &
CLEANING

INDUSTRIAL PROCESS:

Grundfos' reliable, compact pumps are suitable for pumping corrosive media at high pressures where space is limited. Additionally, their ability to operate across a wide temperature range makes them ideal for pressure boosting in washing and cleaning applications. High-efficiency VFDs perfectly control the process with low energy consumption.

MACHINE
TOOL

When you choose a Grundfos immersible pump, you get a pump that has proven its worth throughout decades of use in the metal processing industry. In addition, the Grundfos range of MTR, MTA, MTC and MTS immersible pumps include size and material variants that fit general industry applications, so an even wider number of applications can benefit from their reliability and precision.

GRUNDFOS PUMPS AND SERVICES ARE LEVERAGED ACROSS ALL INDUSTRIES WITH A FOCUS ON THE ABOVE APPLICATIONS FOR THE FOLLOWING MARKETS:

- Automotive
- Biofuels
- Chemicals
- Energy
- Food and Beverage
- General Industry
- Mining
- Pharmaceutical
- Power
- Washers and Coolers

PIONEERING THE FUTURE OF INDUSTRY

GRUNDFOS iSOLUTIONS

Pumps do not exist in isolation, so optimizing the entire pump system is key to maximizing efficiency. Grundfos iSOLUTIONS provide a holistic approach. Through integrating pumps, VFDs and sensors, Grundfos iSOLUTIONS are able to adapt precisely to system demands and deliver optimal energy efficiency and reliability for every application. With Grundfos iSOLUTIONS, you can be certain you always get the optimal solution for your specific application.

GRUNDFOS ENGINEERED SYSTEMS

With no two projects exactly the same, you deserve a pumping solution as unique as your project. At Grundfos, we leverage our experience and pumping expertise to design and engineer your perfect fit, plug-and-pump Grundfos Engineered System (GES).

Systems begin with any number and combination of Grundfos pumps to best suit the operating conditions. Then, controls and monitoring components are integrated. All GES packages are constructed on a steel base and can be enclosed in a fiberglass or steel structure. GES packages arrive on site pre-wired, pre-piped and pre-commissioned, eliminating the scheduling challenges and cost overruns of a site-built system.

OVERVIEW OF APPLICATIONS

WATER TREATMENT

BOOSTER PUMPS

BM, BMS
Booster module with directly coupled pump and variable frequency drive

CM, CME
Non-self-priming, horizontal, multistage, end-suction centrifugal pumps with magnetic drive

INLINE PUMPS

CR, CRE
Vertical inline multistage pumps offering industry-leading performance, efficiency and reliability

DOSING PUMPS

DME
Dosing pumps that combine perfect precision with user-friendliness for large dosing quantities from 15.9 to 248 gph

DMH
Robust dosing pumps for reliable and high-pressure applications up to 2900 psi.

SMART Digital
Intelligent dosing pumps offering unparalleled precision, accuracy and reliability

DMX
Mechanical diaphragm metering pumps

OXIPERM PRO
Chlorine dioxide production systems for fighting Legionella and other germs in drinking water

Dosing Skid Systems
Complete chemical-feed packaged systems featuring the latest technology from Grundfos Dosing

DID
Digital sensor and controller for dosing pumps, dosing systems, and systems for the generation or dosing of chlorine dioxide and hypochlorite

BOILER FEED

SEWAGE PUMPS

SL Range
Submersible pumps designed to handle sewage, effluent and large volumes of surface and process water

SE
Pumps designed to handle sewage, effluent and large volumes of surface and process water in dry and submerged applications

S Range
Designed for pumping raw water, unscreened raw sewage, water containing sludge and industrial effluent

SEG
Submersible grinder pump for pumping effluent and sewage in small communities or areas without sewer systems

SMD, SMG, SFG
Mixers and flowmakers prevent sedimentation and support processes in a variety of applications

SRG
Created to handle large flows against low head

PUMP SYSTEMS

Hydro MPC BoosterpaQ
Our premier fully integrated pre-engineered packaged pumping system with advanced control capability and energy efficient vertical inline multistage pumps

Grundfos Engineered Systems
Complete, custom plug-and-pump systems solutions designed to include any combination of Grundfos pumps, motors, controls and monitoring equipment on a steel base or in a custom enclosure.

INDUSTRIAL COOLING

BOOSTER PUMPS

BM, BMS
Booster module with directly coupled pump and variable frequency drive

CM, CME
Non-self-priming, horizontal, multistage, end-suction centrifugal pumps with magnetic drive

INLINE PUMPS

CR, CRE
Vertical inline multistage pumps offering industry-leading performance, efficiency and reliability

CRE Plus
A simplex energy efficient vertical inline multistage plug-and-pump system with control capability through an integrated VFD

CR-H, CRN-H, CRE-H, CRNE-H
Inline multistage pumps for an ANSI dimensional solution

CRN MAGdrive
Vertical inline multistage pump with magnetic drive for aggressive liquids

VL, VLS
Space-saving inline pumps with integrated motor, variable frequency drive and control with Grundfos sensor technology

TP, TPE
Single-stage, inline centrifugal pumps

CIRCULATORS

MAGNA3
Most efficient commerical circulator on the market with intelligent controls

WASHING & CLEANING

MACHINE TOOL

END-SUCTION PUMPS

LCS, LCSE
Compact single-stage, end-suction, split-coupled pump with integrated Grundfos MLE motor, drive and control

LF, LFE
Frame mounted end-suction pumps available with integrated MLE variable speed motor to optimize energy efficiency

SPLIT-CASE PUMPS

KP, KPV, KPVS
Horizontal and vertical split-case pumps. KPVS offers vertical split-coupled design in a small footprint.

CONTROLS & MONITORING

Control MPC
Advanced controller for monitoring and control of up to 6 pumps

DOSING PUMPS

SMART Digital
Intelligent dosing pumps offering unparalleled precision, accuracy and reliability

Dosing Skid Systems
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Dosing Tank Station
Intended for storing and dosing liquid chemicals. Many different configurations can be selected and applied flexibly to fulfill various dosing tasks

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Booster module with directly coupled pump and variable frequency drive

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Non-self-priming, horizontal, multistage, end-suction centrifugal pumps with magnetic drive

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Vertical inline multistage pumps offering industry-leading performance, efficiency & reliability

CRE Plus
A simplex energy efficient vertical inline multistage plug-and-pump system with control capability through an integrated VFD

IMMERSIBLE PUMPS

MTA
Low-pressure pumps specifically designed for filtering systems in the machine tool industry

MTR, MTRE, MTC
Vertical, multistage pumps designed for cooling lubricants and condensate transfer

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EDUCATION ON DEMAND WITH **GRUNDFOS TECHNICAL INSTITUTE**

Register with Grundfos Technical Institute (GTI) for a wide variety of technical training at a time that's right for you. Visit **grundfos.us/training** for a wealth of content, including:

- Self-paced online courses, webinars and face-to-face classes
- YouTube library of How-To pump application videos
- CEU or PDH qualifying credits on most courses
- 24/7 accessibility from any device

OVERVIEW OF FOCUS MARKETS

FOOD & BEVERAGE

BOOSTER PUMPS

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VL, VLS
Space-saving inline pumps with integrated motor, variable frequency drive and control with Grundfos sensor technology

END-SUCTION PUMPS

LCS, LCSE
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LF, LFE
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CHEMICALS

BOOSTER PUMPS

CM, CME
Non-self-priming, horizontal, multistage, end-suction centrifugal pumps with magnetic drive

INLINE PUMPS

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Vertical inline multistage pumps offering industry-leading performance, efficiency and reliability

TP, TPE
Single-stage, inline centrifugal pumps

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GENERAL INDUSTRY

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SUBMERSIBLE PUMPS

SP
Submersible pumps renowned for high efficiency and reliability

ENERGY

INLINE PUMPS

CRN
High pressure, multistage pump

CR, CRE
Vertical inline multistage pumps offering industry-leading performance, efficiency and reliability

CR-H, CRN-H, CRE-H, CRNE-H
Inline multistage pumps for an ANSI dimensional solution

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SUBMERSIBLE PUMPS

SP
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GRUNDFOS **SELECTION TOOLS**

Need to configure, size or select a product? From performance data to submittal documents and everything in between, Grundfos can help you find the perfect-fit pumping solution. To learn more about our selection tools for standard pumps and systems, digital dosing and engineered-to-order solutions, visit: **grundfos.us/select**

WE ARE IN THE WATER BUSINESS WITH YOU

As a pioneer and global leader in water pump technology, Grundfos creates intelligent, sustainable solutions to help solve the world's water and climate challenges. Through our heritage, we have the experience and innovative capabilities to help our partners, customers and communities move water in an increasingly energy and water efficient manner. We see this as not only a great business opportunity, but as an obligation to ensure the world heads toward a more sustainable tomorrow. Our complete portfolio of pumps and solutions are designed for commercial, residential, groundwater, municipal and industrial applications with emphasis in trendsetting, energy efficient technologies such as permanent magnet motors and advanced pump controls and monitoring.

BECAUSE WATER MATTERS, AND SO DOES YOUR BUSINESS.

As a company we will contribute by:

- Cutting our water consumption in half by 2025
- Providing safe drinking water to 300 million people in need by 2030
- Becoming climate positive by 2030

To learn more, visit **grundfos.us** or follow us on Facebook and LinkedIn.

Visit grundfos.us/pei to learn more about Department of Energy (DOE) pump energy index (PEI) requirements and PEI ratings on specific Grundfos models.

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