

Drive to better

Pump Solutions for the New Era
of Automotive Manufacturing

GRUNDFOS 

Possibility in every drop



Better auto manufacturing starts with better water management.

In the new era of automotive manufacturing, everything is changing. The manufacturers who will succeed are those who invest in better processes to achieve more ambitious goals regarding sustainability, carbon emissions, and water and energy usage.

As one of the world-leading water technology companies, Grundfos will empower you to reach your goals through:

- ✓ **All the pump solutions you need.**
Our full line of intelligent industrial pumps is thoroughly tested and built on more than 75 years of experience to ensure flawless performance. Smart features simplify installation, operation and maintenance for you. We offer limitless customization with highest quality guaranteed.
- ✓ **Global knowledge and local support to overcome your challenges.**
With more than a century of joint automotive experience and technical know-how, our global automotive team knows the industry at scale like no other pump provider. Plus, our local automotive experts deliver support to meet your market's unique needs. It's the best of both worlds.
- ✓ **Innovation to help you advance.**
Typically, we devote about 5% of our annual revenue to research and development for your benefit. We relentlessly refine our state-of-the-art solutions for efficiency, reliability and profitability — with sustainability at the core of everything we do.

Thousands of Grundfos pumps are already at work in automotive applications around the world. Learn how we can help optimize your operations through better water management, too.

Grundfos solutions for every automotive manufacturing application

Every major utility and process system in your facility can be optimized with reliable, efficient pumps to support your sustainability goals. And because your systems are unique, Grundfos offers a wide range of customizable solutions, along with technical consulting and services, for your specific applications. Our solutions include pumps, motors, drives, sensors and controls to maximize performance, efficiency and reliability.

Applications

Factory utility



Temperature

- Central cooling and heating system for factory



Water Supply

- Water supply system for factory plumbing system
- Irrigation system and cleaning system within factory
- Central water supply for production process



Sewage Treatment

- Wastewater handling and discharge within factory
- Disinfection system for heating and cooling water supply



Firefighting

- Hydrant and sprinkler pump and control system for firefighting system

Factory production



Temperature

- Cooling application for molding, pressing and welding process
- Cooling lubricant recirculation pump application



Process

- Water transfer, rinse, water circulation and chemical dosing application in paint shop, body washing and rain testing at assembly process
- Wash and cleaning application in parts cleaning system



Water and Wastewater Treatment

- Water reuse and treatment in paint shop
- Dosing application for cleaning agents in parts cleaning process
- Process liquid treatment
- Filtration pump application

Solutions



Standard Products

Grundfos offers standard pump solutions in a variety of designs for applications throughout the factory.



E-products

Grundfos e-pumps come with intelligent motors, featuring variable speed control, external start/stop, on-demand pumping, predefined control modes and more.



iSOLUTIONS

Grundfos iSOLUTIONS includes e-pumps as well as intelligent drives, controls and more, improving overall system reliability, performance and energy efficiency.



Digital solutions

Grundfos offers a wide range of network and interface solutions — including sensors and remote management tools — for virtually any piece of rotating equipment throughout the operation.



Technical consulting and services



System Analysis and Optimization

Grundfos technicians can run system or application diagnostics and make recommendations for improvement.

Energy Evaluation

About 85% of a pump's life cycle costs relate to energy consumption, and Grundfos can help you reduce them across your facility. A Grundfos Energy Check or Energy Audit is a great way to identify opportunities to save.

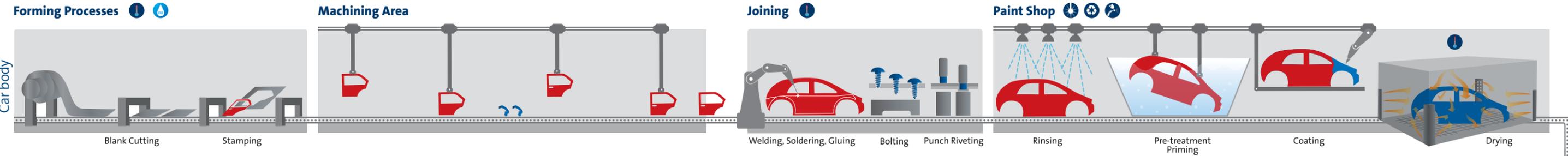
Monitoring Solutions

Grundfos offers continuous monitoring solutions, such as Grundfos Machine Health and Grundfos iSOLUTIONS Monitor, to help you optimize your systems. Real-time data provide the insights you need to control downtime, reduce maintenance costs and move toward a new state of reliability in your operation.

Equipment Maintenance

Local service teams can provide on-site assistance, and remote technicians can perform digital service on many pump applications.

Grundfos products in the automotive industry



Cooling Lubricant Recirculation

Coolant Pumps: MTR, MTS, MTH

Cooling Systems

Chiller / Cooling Pumps (clean): NB / NK, CR, TP

CM

MTH

Shunt Pumps: CM, CR

Cleaning Systems

Cleaning Agent Dosing: DTS

Pressure Boosting: CR

Circulation Systems & Pumps (for Water Reuse): CM, MTB

NB / NK

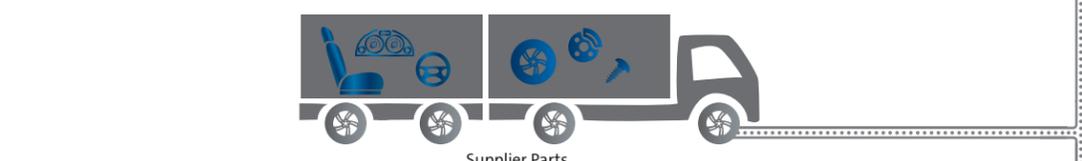
Pre-treatment / Priming & Coating

Pre-treatment: NB / NBG, MTR / SPK, CR

SMART Digital

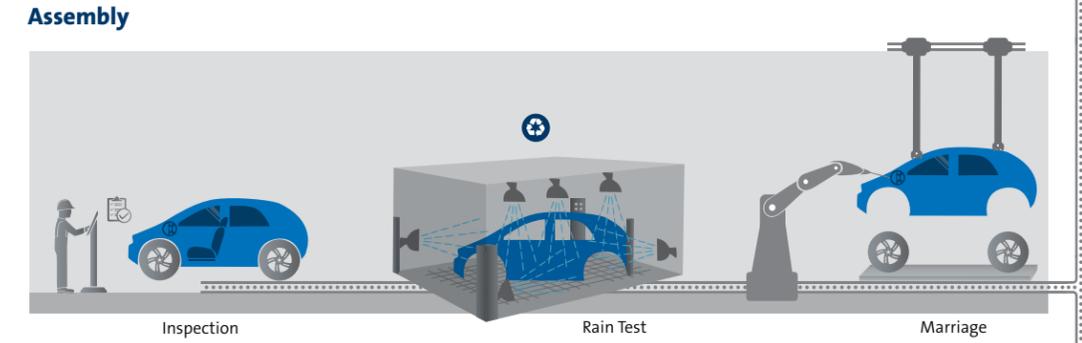
Priming & Coating: NB / NBG

E-coat FPV Pumps: CR



Filtration Systems

Recirculation Pumps (polluted): MTB, NB / NK, MTA, MTD



Control System

Pressure and Temperature Sensors: Differential Pressure Sensor

Integrated and External Frequency Converters: CUE / MGE

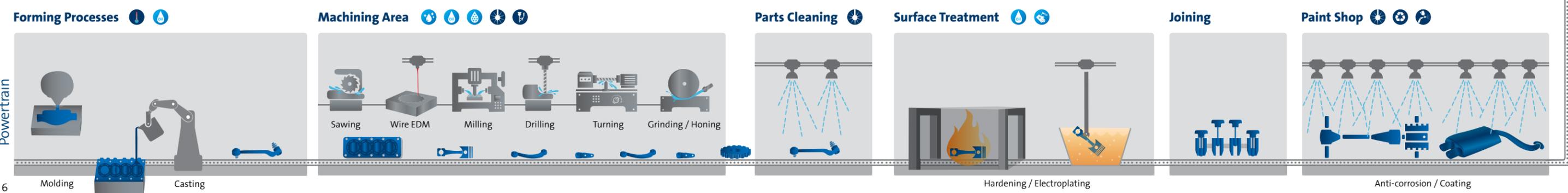
Pump Condition Monitoring: Grundfos iSOLUTIONS Monitor

Flow Sensors: VFS

Grundfos Remote Management: CIM / CIU

- Phosphate (PO4)
- Oil
- Cleaning Agents
- Purified Water
- Aggressive Liquids
- Abrasive Liquids
- CED Paint Solution
- Cooling Lubricants
- PWIS-free

Water Treatment	Water Treatment & Reuse	Water Supply & Transfer	Industrial Cooling	Industrial Heating	Machining	Fire Protection
QR Code	QR Code	QR Code	QR Code	QR Code	QR Code	QR Code



“Grundfos has a decidedly different approach than other suppliers and focuses its priority on the real collection of data.”

Paul-Gerhard Römermann
Energy Officer at Volkswagen Group

Automotive Success Stories

Volkswagen Plant Reduces Energy by 37% With a New Pump Controller

Volkswagen Group's automotive components manufacturing facility in Braunschweig, Germany, set a goal of reducing energy consumption. The plant's energy officer worked with Grundfos to perform an energy audit of three of the pumps that supply cooling lubricant to the metal-cutting machine tools in the swivel bearing area. The results revealed an opportunity to optimize control of the pumps, a change that ultimately yielded 37% energy savings for the facility.

37% energy savings for the facility. Global Automotive Leader Ensures Reliability of Engine Test Bench Through 24/7 Monitoring

A prominent European car manufacturer uses a test bench to perfect the engines for its high-performance automobiles. Grundfos pumps keep the cooling water infrastructure running to prevent overheating and to ensure testing data accuracy. The Grundfos Machine Health system continuously monitors the equipment using advanced wireless sensors and AI algorithms to identify even the smallest deviations and maintenance needs, keeping the test bench up and running.

See how we've helped businesses across industries.

Access case stories and white papers at grundfos.com/stories



Grundfos Global Automotive Solutions

Like all segments of the mobility industry, automotive requires highly accurate and reliable solutions. As one of the world-leading water technology companies, Grundfos delivers — offering a wide range of thoroughly tested pumps that prove our commitment to meeting your goals for sustainability, carbon emissions and water/energy efficiency. In fact, with more than 18,000 employees globally, Grundfos produces more than 16 million pumps each year.

Our solutions optimize operations across the entire production floor, from machining to assembly, including the critical surface cleaning and painting processes. All can be configured to meet individual customer needs and come with an unsurpassed worldwide service network. We provide easy access to about 80 sales and service companies in 45 countries and 580 certified Grundfos service partners worldwide.

Let's talk about reaching your goals for improvement.

Start the conversation at grundfos.to/better



Learn more:
[Grundfos.to/better](https://www.grundfos.com/better)

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