

WATER SOLUTIONS FOR **FOOD PROCESSING**

**PUMPS & SYSTEMS TO SOLVE WATER
AND EFFICIENCY CHALLENGES**

be
think
innovate

GRUNDFOS 

PRESSURE BOOSTING

The World's Leader

The Grundfos CR is the world's number one inline vertical multistage centrifugal pump, known for its reliability, efficiency and adaptability. The CR pump range is the broadest range available, and through our modular approach, you are able to pick and choose pump elements to cover practically any non-standard situation, including handling difficult or high-temperature liquids.

HIGH-EFFICIENCY CRE DESIGN CUTS ENERGY CONSUMPTION BY UP TO 50% COMPARED TO FIXED SPEED PUMPS.

CRE - Vertical Multistage Variable Speed Pump

The Grundfos CRE represents the union of the well known Grundfos CR and variable speed MLE motors developed by Grundfos with optimum electronic control in mind. The CRE features a pump and motor with an integrated variable frequency drive, controller and sensor. The CRE offers a plug-and-pump solution.



CRXL - The New Range of Grundfos CRs

More efficient, reliable and durable than ever before, the new range of Grundfos CRs moves the limits for vertical inline multistage centrifugal pumps. State-of-the-art technology, simulation-driven design, and optimized pump hydraulics come together to offer unmatched efficiency and reliability. The new CR 95-185 vastly increases the performance coverage of the previous range, offering more than 1,280 gpm and 1,235 ft. of head.



Expanded Performance and Increased Efficiency

CRE RANGE INFORMATION

Maximum flow, Q:	1,070 gpm
Maximum head, H:	1,600 ft
Liquid temperature:	-40 to 356°F*
Operating pressure:	725 psi*

* upon request

CR RANGE INFORMATION

Maximum flow, Q:	1,770 gpm
Maximum head, H:	1,283 ft
Temperature:	-40 to 356°F*
Operating pressure:	725 psi*

* upon request

WASHING AND CLEANING

Hydro MPC Booster Systems

Grundfos Hydro MPC Booster System is a fully integrated packaged system that brings the latest technology at the highest quality to the processing market. Each component is made by Grundfos to meet the highest standards in the industry. The CU352 MPC controller can handle even the most difficult boosting applications with ease and accuracy. Based on the extremely reliable, high-efficiency CR pump range, this fully integrated system insures that all technologies involved in the process work together. These performance-optimized systems are available in configurations with up to six CR pumps, allowing for flows of up 5,400 gpm.



Hydro HP Washdown System

The all new Grundfos Hydro HP is a fully integrated high-pressure booster system that offers a more reliable and energy-efficient solution for clean and wash applications. The system features the industry-leading CR vertical multistage inline pumps, which deliver superior hydraulic performance and bulletproof reliability in a space-saving footprint. The integrated VFD control offers consistent system pressure, whether the system is used to clean with one spray wand or do a full facility washdown, all without the need for a recirculation line. A low-flow jockey pump efficiently maintains system pressure to meet low-flow cleaning demands. Additionally, with the easily serviced Grundfos Hydro HP, plants can expect to realize full ROI after the first few maintenance cycles.



Choosing a Grundfos pump or system for your washdown needs guarantees outstanding performance. Both stationary and mobile solutions can be customized to meet your pressure and size requirements.

DOSING AND DISINFECTION

The Grundfos dosing and disinfection product range covers everything from the disinfection of drinking water to antimicrobial washes. With one of the most extensive product ranges of pumps, packages and accessories in the market, Grundfos dosing and disinfection products deliver accuracy, reliability and safety in an area where processing plants can't afford errors.

SMART Digital Dosing™

Traditional dosing pumps regulate the dosed quantity by adjusting stroke length and/or frequency. However, reducing the stroke length adversely affects dosing accuracy. In cases where the dosing pump cannot operate at 100% stroke length, valves will suffer from reduced performance leading to inefficient dosing. Digital Dosing™ offers a clear advantage. By using a stepper motor, the volume dosed is altered by the discharge stroke speed while continuously utilizing 100% of the stroke length. This results in optimum dosing accuracy and better handling of off-gassing liquids.

DDA

The top-of-the-line DDA pump is designed as the perfect solution for complex and demanding applications. Its auto-deaeration feature easily handles off-gassing liquids. The control variants offer a range of intelligent options, including selective fault diagnosis; built-in pressure monitoring; integrated flow measurement; and AutoFlowAdapt, which allows for the setpoint to remain constant even when discharge conditions, such as pressure, change. This ensures the desired amount of chemical is consistently added to the process.



The DDA range offers performance up to 52.8 gph (200 l/h) and is the ideal solution to deliver high flows accurately.

DDE

The DDE pump offers the same drive strategy as a DDA, but at a cost-effective solution with basic functions for simple applications. Setting the dosing capacity from 0.1% to 100% is easy. A logarithmic scale adjustment dial enables precise low-flow settings up to 52.8 gph (200 l/h).



DDA INFORMATION		DDE INFORMATION	
Maximum flow, Q:	52.8 gph (200 l/h)	Maximum flow, Q:	52.8 gph (200 l/h)
Maximum pressure, P:	232 psi (16 bar)	Maximum pressure, P:	145 psi (10 bar)
Turn-down ratio:	3,000:1	Turn-down ratio:	1,000:1

DOSING SKID SYSTEMS

Complete dosing skids tailored to your application

Grundfos' complete chemical feed systems make dosing technology available as a plug-and-play package with all necessary pipework, valves and dosing pumps. We can deliver standardized packaged systems or build custom solutions to meet your unique specifications. In our custom systems, you can select dimensions, connection locations and installation options, choice of materials, and accessories including electrical controls, containment systems and optional measurement and control instruments.

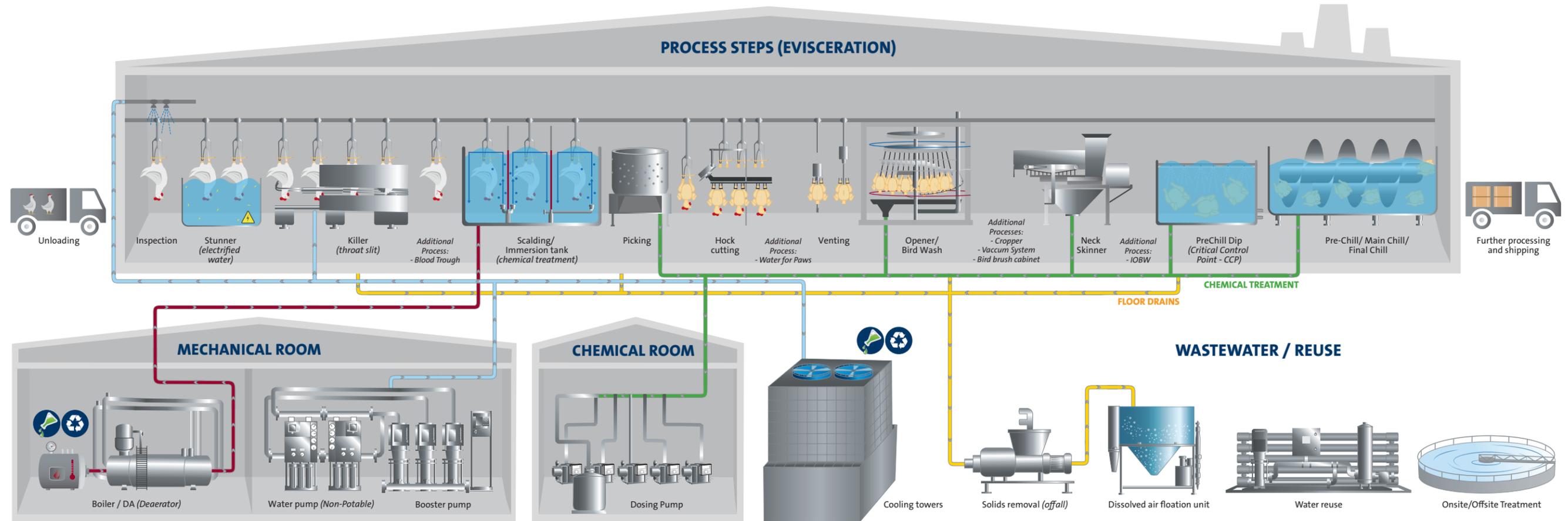


APPLICATIONS

- Peracetic acid
- Sodium hypochlorite
- Sodium bisulfate
- Alum
- Potassium permanganate
- Sodium hydroxide
- Acids
- Anti-scalants



GRUNDFOS PRODUCTS IN POULTRY PROCESSING



Water Intake & Feed	Cleaning Processes	Water Treatment	Wastewater Treatment	Water Reuse	Temperature Control	Control System
<ul style="list-style-type: none"> Ground Water Surface Water Tap Water 	<ul style="list-style-type: none"> OPC* CIP* Packaging cleaning 					
<ul style="list-style-type: none"> KP/KPV/KPVS End-Suction Pumps (NBS/LF(NK)) Multistage Pumps (CR/CRE) Submersible Pumps (SP) Booster Systems (Hydro MPC) 	<ul style="list-style-type: none"> Chemical Dosing Systems (DTS/DSS/Accessories) Multistage Pumps (CR/CRE) Dosing Pumps Washdown Processes (Hydro HP) 	<ul style="list-style-type: none"> DiD Chemical Dosing Systems (DTS/DSS/Accessories) Packaged systems (GES) Multistage Pumps (CR/CRE) Dosing Pumps ClO₂ Systems 	<ul style="list-style-type: none"> Wastewater pumps (S/SE/SL) Chemical Dosing Systems (DTS/DSS/Accessories) Filter Backwash Pumps (NBS/LF(NK)) Wastewater pumps controls (LC241) Dosing Pumps 	<ul style="list-style-type: none"> Dosing Pumps End-Suction Pumps (NBS/LF(NK)) Multistage Pumps (CR/CRE) High-Pressure Pumps (BM/BMS) 	<ul style="list-style-type: none"> Boilers Cooling HVAC Chemical Dosing Systems (DTS/DSS/Accessories) Large Circulators (MAGNA) Dosing Pumps Multistage Pumps (CR/CRE) End-Suction Pumps (NBS/LF(NK)) 	<ul style="list-style-type: none"> Integrated and External Frequency Converters (MLE) Grundfos Remote Management (CIM/CIU) Pump Monitoring System (Grundfos Machine Health (GMH)) Motor Protection (MP204 for motor protection) CUE <p>Supporting features</p> <ul style="list-style-type: none"> Pressure and Temperature Sensors (Differential Pressure Sensor) Pump Control (Grundfos GO Remote) Flow Sensors (VFS)

⚠ Disclaimer: We do not supply pumps with hygienic design!

COMPLETE, EFFICIENT SOLUTIONS TO MEET PROCESSING PLANT DEMANDS

At Grundfos, we understand the demanding environment of food processing plants. Managing a plant means optimizing processes, maximizing uptime, managing resources, and ensuring the safety of workers and products to meet government regulations. With Grundfos, you gain more than a pump supplier, you gain a partner focused on solving the challenges of your operation, and delivering higher efficiency and reliability than you thought possible.

Dedicated to innovation and a pioneer in water technology, Grundfos continuously advances our products and capabilities to meet the increasing need for connectivity, accuracy and efficiency in our ever-evolving industry.