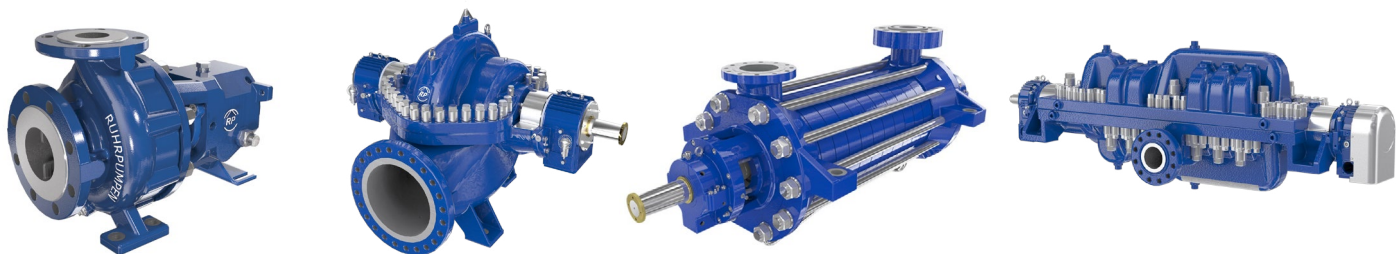




Specialist for Pumping Technology



**DESALINATION
PUMPING SOLUTIONS**



Ruhrpumpen is your single source supplier

- Original Equipment (OEM) Spare parts
- Installation and startup support
- Repair and maintenance
- Engineering, training and consulting
- Reverse engineering

Benefits of our pumps:

- Proven reliability
- High efficiency designs ensure lowest operating cost
- Robust design allows for long system life with minimal maintenance
- Optimized total cost of ownership

Pumping Technology for Desalination

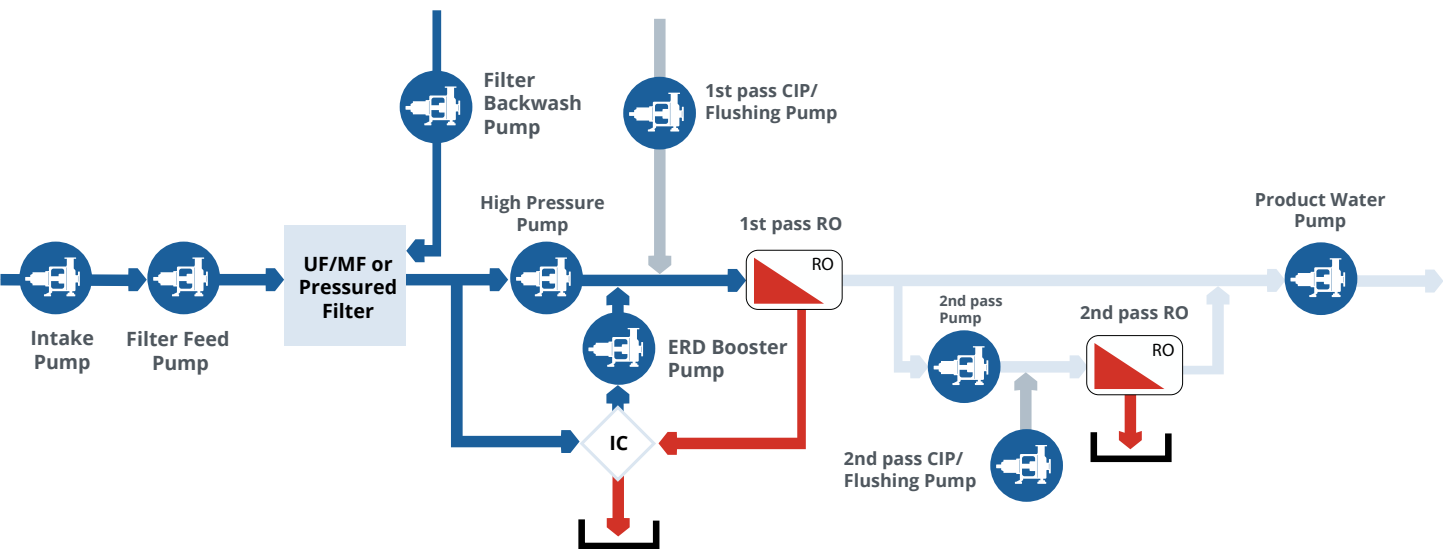
As a leading provider of pumping technology and services for more than 70 years, Ruhrpumpen’s broad portfolio supports customers worldwide in many different markets: such as Water, O&G, Power and Industrial applications. Ruhrpumpen is a worldwide established company highly recognized for delivering outstanding products and services.

Over the last 30 years, desalination has grown to be a viable and sustainable alternative supply of potable water for human consumption, irrigation, or any industrial application. Currently production costs optimization is a key driver so that the specific consumption of the plant is becoming even more important. Thanks to an excellent mix of process and pump knowledge Ruhrpumpen can support our customers with our well proven designs to minimize the OPEX while keeping an optimized CAPEX.

Ruhrpumpen’s complete line of pumps offers high-quality materials with a perfect combination between reliability & efficiency for Brackish or Sea Water Treatments either using membranes (RO,...) or thermal technology (MED).

With a flexible and extensive Manufacturing & Service network Ruhrpumpen is prepared to be your Supplier of Choice.

Desalination Schematic



**Other Water Treatment & MED application also available.*

END SUCTION PUMPS

CRP

Horizontal End suction, one stage



CHARACTERISTICS AND DESIGN FEATURES

- Designed to exceeds ISO 5199 reliability
- According to ISO 2858 and larger sizes with easy installation, maintenance and service
- Modular interchangeability to reduce inventory
- Industry leading performance and high efficiencies
- High suction pressure design available up to 90 bar

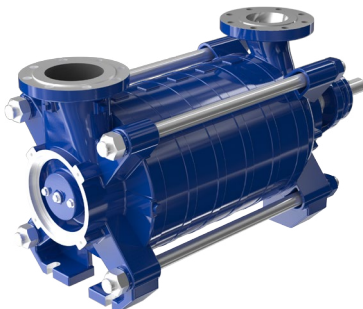
OPERATING LIMITS

Capacity	up to 8,200 m³/h
Head	up to 180 m

HIGH PRESSURE PUMPS

GPA

Horizontal Ring Section Pumps



CHARACTERISTICS AND DESIGN FEATURES

- Designed according to HI guidelines
- Easy access for maintenance
- Different flanges configuration available (end-right/top/left)

OPERATING LIMITS

Capacity	up to 300 m³/h
Head	up to 720 m

GP

Horizontal Ring Section Multistage pump



CHARACTERISTICS AND DESIGN FEATURES

- Designed according to HI guidelines with easy installation, maintenance and service
- Optimized diffuser construction for enhanced pump efficiency
- Different axial thrust compensation methods available

OPERATING LIMITS

Capacity	up to 1,000 m³/h
Head	up to 720 m

SM / JTN

Horizontal Split Case Multistage pump



CHARACTERISTICS AND DESIGN FEATURES

- Back to back impellers configuration for an optimum thrust balance
- Various hydraulics to match different head/flow requirements with maximum efficiency
- Double suction first stage Impeller available
- Based on API 610, gives a robust, easy maintenance product

OPERATING LIMITS

Capacity	up to 1,400 m³/h
Head	up to 650 m

ZM

Horizontal Split Case Single Stage Pump with Double Volute



CHARACTERISTICS AND DESIGN FEATURES

- Tailor made design for a perfect fit solution
- Proven reputation supported by a long list of references
- Single and two stages design available
- Industry leading performance and high efficiencies
- Higher flows available

OPERATING LIMITS

Capacity	up to 9,000 m³/h
Head	up to 650 m

HIGH PRESSURE PUMPS

VTP

Vertical Turbine Pump Mixed-Flow



CHARACTERISTICS AND DESIGN FEATURES

- This broad product line complies with the most demanding quality specifications
- Wide range of impellers & Hydraulics for perfect fit
- Pull out design available
- Barrel / can applications available

OPERATING LIMITS

Capacity	90,000 m³/h
Head	up to 70 m

VTP

Vertical Turbine Pumps Radial Flow



CHARACTERISTICS AND DESIGN FEATURES

- This broad product line complies with the most demanding quality specifications
- Wide range of impellers & Hydraulics for perfect fit
- Barrel / can applications available
- Vertical submersible application available

OPERATING LIMITS

Capacity	10,000 m³/h
Head	up to 762 m

SHS / SHD / SMF

Submersible Pumps



CHARACTERISTICS AND DESIGN FEATURES

- Designed according to HI guidelines with easy installation, maintenance and service
- Modular interchangeability to reduce inventory
- Semi-open impeller with Large solid handling
- Double Row Thrust Bearings. Grease lubricated and free of maintenance

OPERATING LIMITS

Capacity	up to 9,000 m³/h
Head	up to 73 m

ZW / HS

Horizontal Split Case Single Stage Pump



CHARACTERISTICS AND DESIGN FEATURES

- Designed according to HI guidelines with easy installation, maintenance and service
- High reliability, easy maintenance machine
- Verticalized construction available

OPERATING LIMITS

Capacity	up to 30,000 m³/h
Head	up to 340 m

SWP/GWP

Horizontal End Suction Self Priming Pump



CHARACTERISTICS AND DESIGN FEATURES

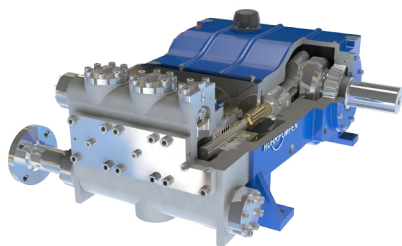
- It can handle clear liquids or with solids
- Removable cover plate allows for easy access to impeller and seal
- Easy maintenance without the need of disconnecting piping

OPERATING LIMITS

Capacity	1,440 m³/h
Head	up to 243 m

RDP

Reciprocating Plunger Pumps



CHARACTERISTICS AND DESIGN FEATURES

- Triplex & Quintuplex
- Design according to API 674
- Easily accessible service points reducing maintenance time.
- Excellent noise and vibration characteristics < 85dB(A)
- 95% volumetric and 90% mechanical efficiency, exceeding API standards

OPERATING LIMITS

Capacity	up to 366 m³/h
Head	up to 1100 m



+70 years creating the pumping technology that moves our world

Ruhrpumpen is an innovative and efficient pump technology company that offers highly-engineered and standard pumping solutions for the oil & gas, power generation, industrial, water and chemical markets. We offer a broad range of centrifugal and reciprocating pumps that meet and exceed the requirements of the most demanding quality specifications and industry standards such as API, ANSI, UL, FM, ISO and Hydraulic Institute.

