



Specialist for Pumping Technology



SUBMERSIBLE PUMPS

70 years developing the pumping technology that drives progress

Ruhrpumpen is an innovative and efficient pump technology company that offers highly engineered, custom made solutions for oil & gas, chemical processing, power generation, industrial applications and water.

Implementation of cutting-edge technology and world-class engineering, combined with our unique vertically integrated structure, allows Ruhrpumpen to design complex technical solutions, creating the most robust and powerful pump systems in the marketplace.

Our broad product line complies with the most demanding quality standards and industry specifications such as **American Petroleum Institute (API)**, **American National Standards Institute (ANSI)**, **Underwriter's Laboratories (UL)**, **Factory Mutual (FM)**, **National Fire Protection Association (NFPA)**, **ISO** and **Hydraulic Institute**.

Products include:

- Single stage overhung pumps
- Vertical in-line pumps
- Single and multi-stage between bearing pumps
- Multi-stage vertical pumps
- Reciprocating plunger pumps
- Sealless magnetic drive pumps
- Fire protection systems
- Pitot tube pumps
- Hydraulic decoking systems



Ruhrpumpen is your single source supplier

- Original Equipment
- 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

The supplier of choice for the most difficult submersible pumping applications

The high standard of Ruhrpumpen submersible pumps is based on decades of experience in designing pumping technology and extensive know-how.

From pumping of light and medium duty to pumping of heavy duty with elevated concentration of solids, our pumps are built to deliver unmatched wear resistance and optimum efficiency during periods of stringent demand.

Applications include:

- Raw Sewage lift stations
- Solids Handlings
- Sludge
- Flood control
- General Industrial and commercial waste
- Dewatering
- Water booster stations



Meet our solutions for drainage, sewage, dewatering and industrial applications

SMF vertical submersible pump line

Designed to exceed the highest standards of reliability, the SMF is built to handle large quantities of water. It offers a wide range of optimized hydraulic coverage with a reduced number of basic designs to suit any customer requirement, ensuring the best energy performance on the market. This results in savings in total life-cycle costs and reduced environmental footprint.

The SMF is available in two standard material versions: cast iron and ductile iron, but other materials are available on request. It is also equipped with a premium efficiency submersible dry motor, which is cooled with the same pumped liquid.



SHS Solids Handling pump line

Submersible pump with a single impeller, non-clog suction design and single volute case. The SHS does not need any extra device to adapt to existing discharge elbows, making it the best choice for solids handling application in different industries.

These pumps are capable of pumping liquids with solids from 3" to 6" in diameter. Applications include water, wastewater, sewage, pulp and paper, mining, and many other industrial and municipal applications, in either single or parallel operation.



NE Submersible Non Clog Pump

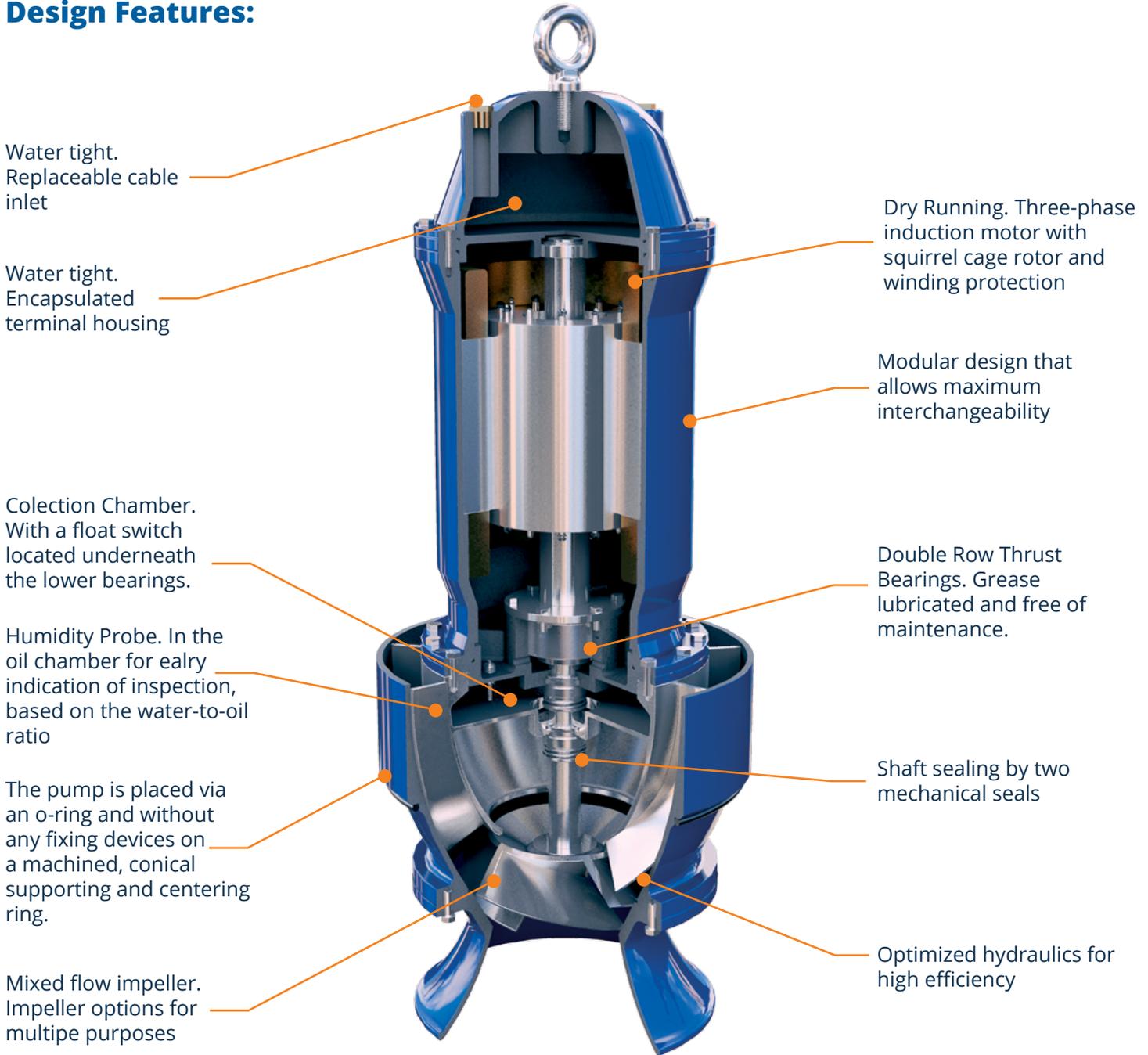
The NE is a single stage, single suction pump with overhung non-clogging impeller designed for pumping municipal and industrial wastewater, sewage, effluent, and liquids containing solids and fibers.

Its outstanding solids handling capability, guarantee maximum operating time and substantial reductions in maintenance cost caused by pump jamming or clogging. It is designed for continuous pumping under the most difficult operating conditions.



SMF - Vertical submersible pumps

Design Features:



CHARACTERISTICS:

- Single stage, single suction
- Interchangeable semi-open impeller thanks to modular design
- Self centering by its own weight
- Self-cooled, submersible induction motor
- Clockwise rotation
- Easy to install
- Large solid handling
- Provided with submersible cable

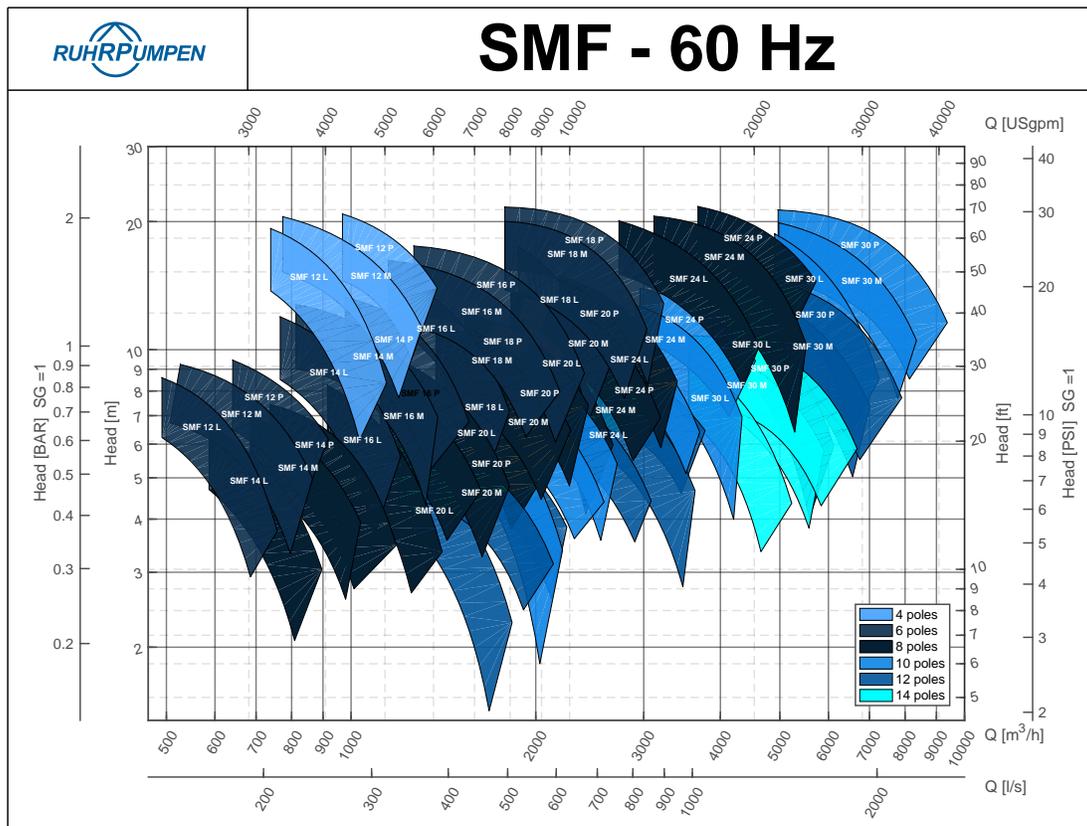
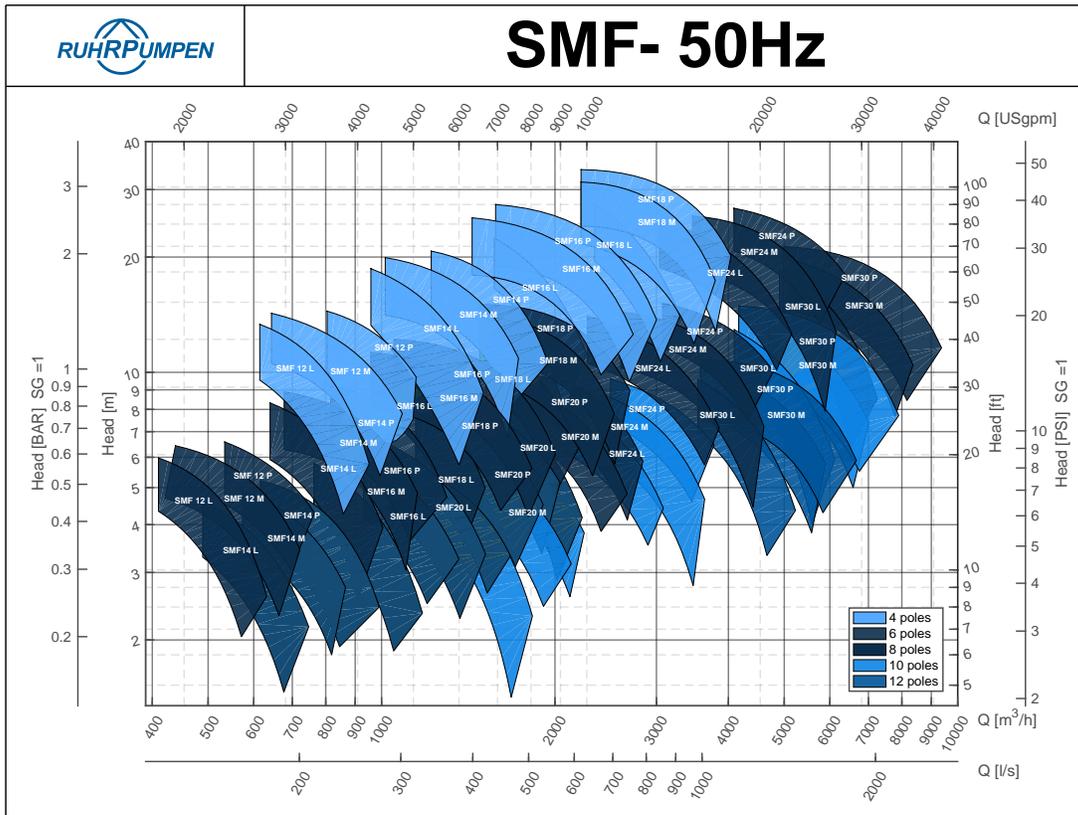
APPLICATIONS:

- Irrigation and drainage
- Cooling water intake in power stations
- Industrial water supply
- Flood control
- Other large flow and moderate head applications

OPERATING LIMITS

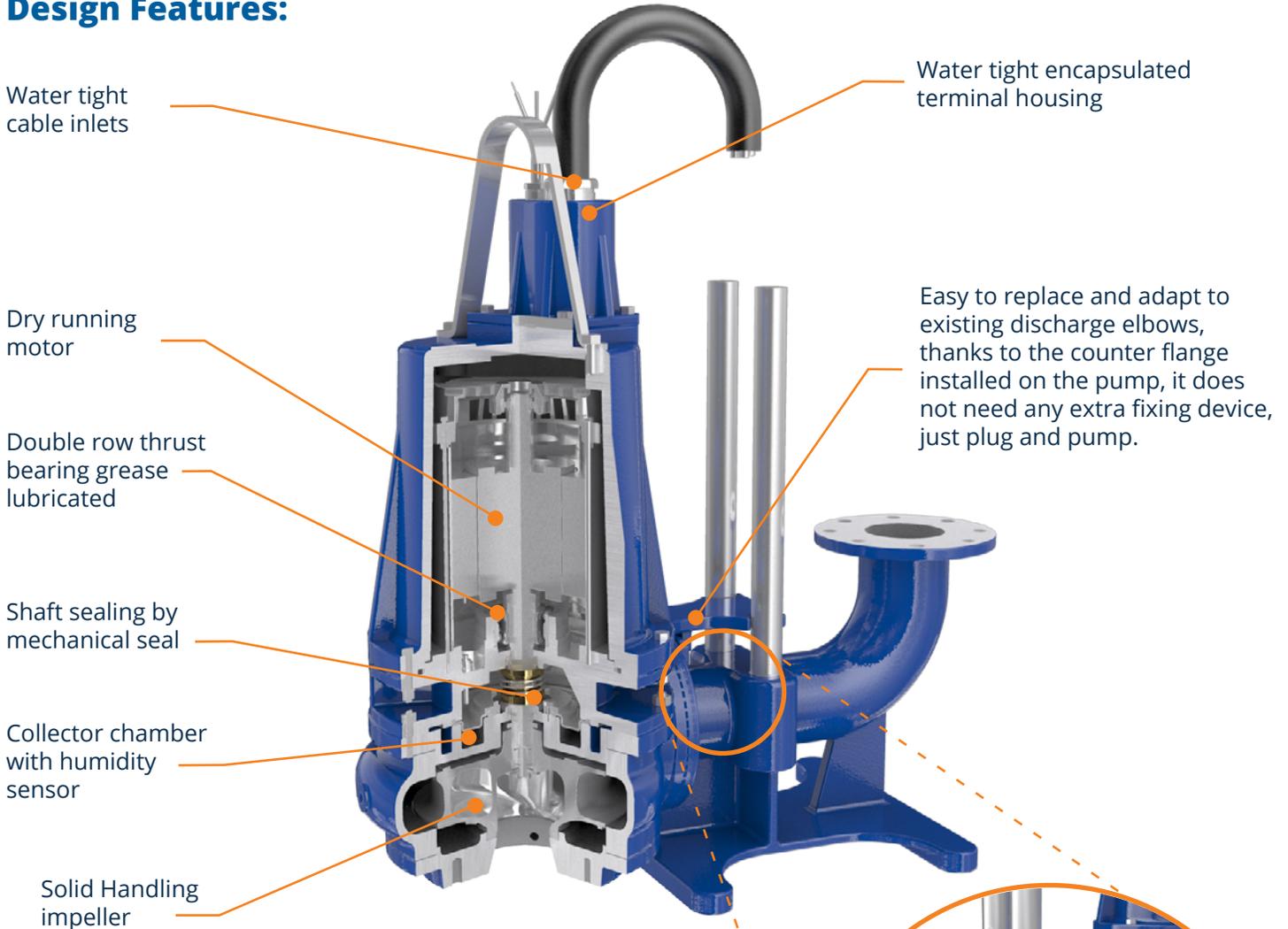
Capacity	up to 40,000 gpm (9,000 m ³ /h)
Head	up to 20 ft (65 m)
Pressure	up to 150 psi (10 bar)
Temperature	up to 300 °F (150 °C)

Performance Chart:



SHS - Solids handling pumps

Design Features:



Water tight encapsulated terminal housing

Water tight cable inlets

Dry running motor

Easy to replace and adapt to existing discharge elbows, thanks to the counter flange installed on the pump, it does not need any extra fixing device, just plug and pump.

Double row thrust bearing grease lubricated

Shaft sealing by mechanical seal

Collector chamber with humidity sensor

Solid Handling impeller

CHARACTERISTICS:

- Single stage, single suction
- Enclosed, solid handling, non clog impeller, hydraulically balanced
- Clockwise rotation viewed from driver end
- Easy to install
- Large solid handling
- Can be provided with submersible cable, discharge elbow, installation rails and counter flange clamp

APPLICATIONS:

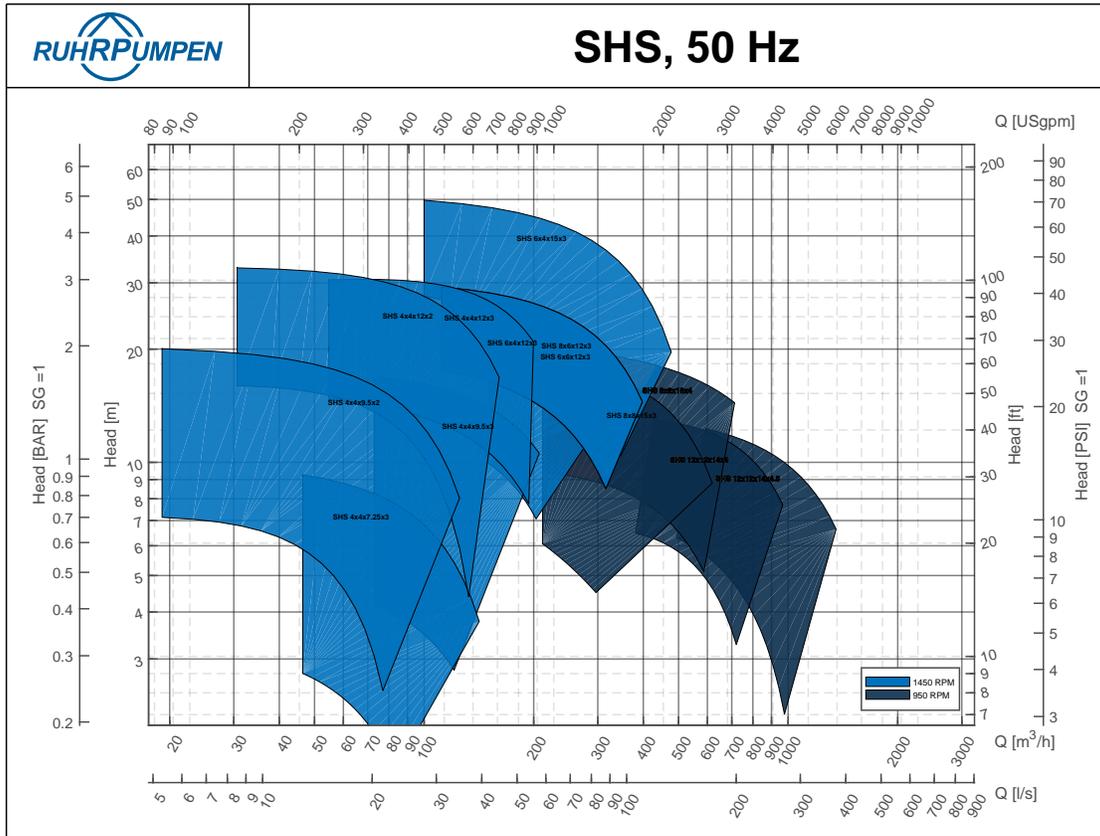
- Sanitary Wastes
- Industrial Wastes
- Treatment Wastes
- Storm Water
- Process Wastes
- Pollution Control
- Cannery Wastes
- Meat Process Wastes

OPERATING LIMITS

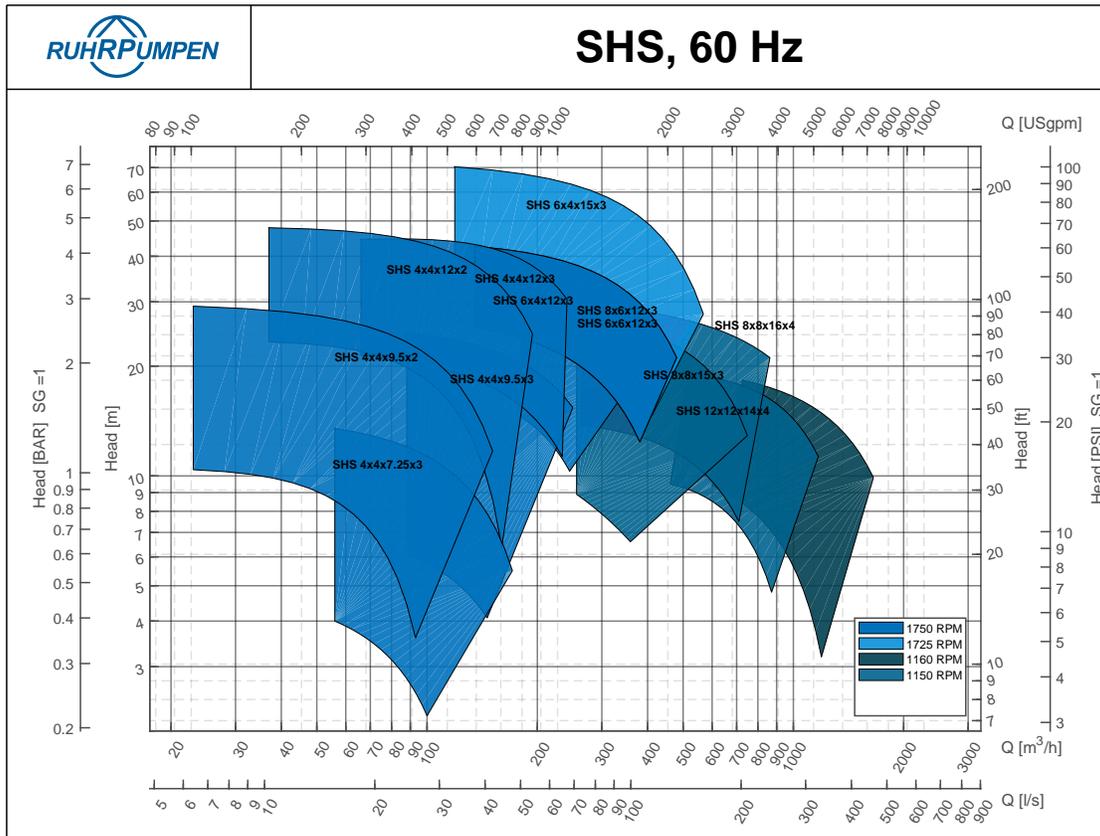
Capacity	up to 10,000 gpm (2,275 m ³ /h)
Head	up to 240 ft (73 m)
Pressure	up to 150 psi (10.3 bar)
Temperature	up to 248 °F (120 °C)

Elbow detail

Performance Charts:



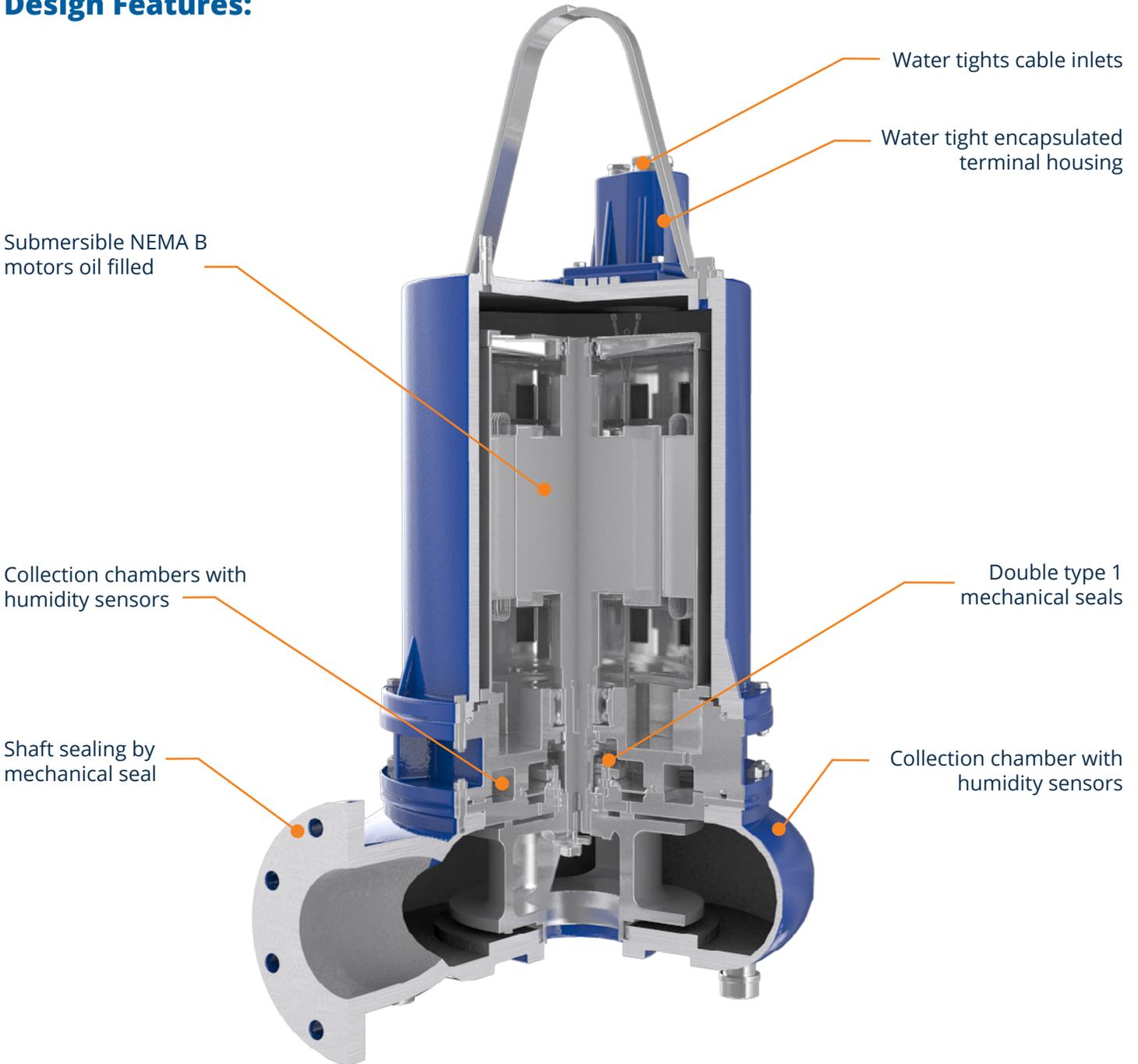
For more available operating points please contact your Ruhrpumpen representative.



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NE - Submersible Non clog pumps

Design Features:



CHARACTERISTICS:

- High efficiency design
- Closed impeller, provides hydraulic balance eliminating axial thrust
- Variety of sizes
- Variety of applications
- Easy maintenance

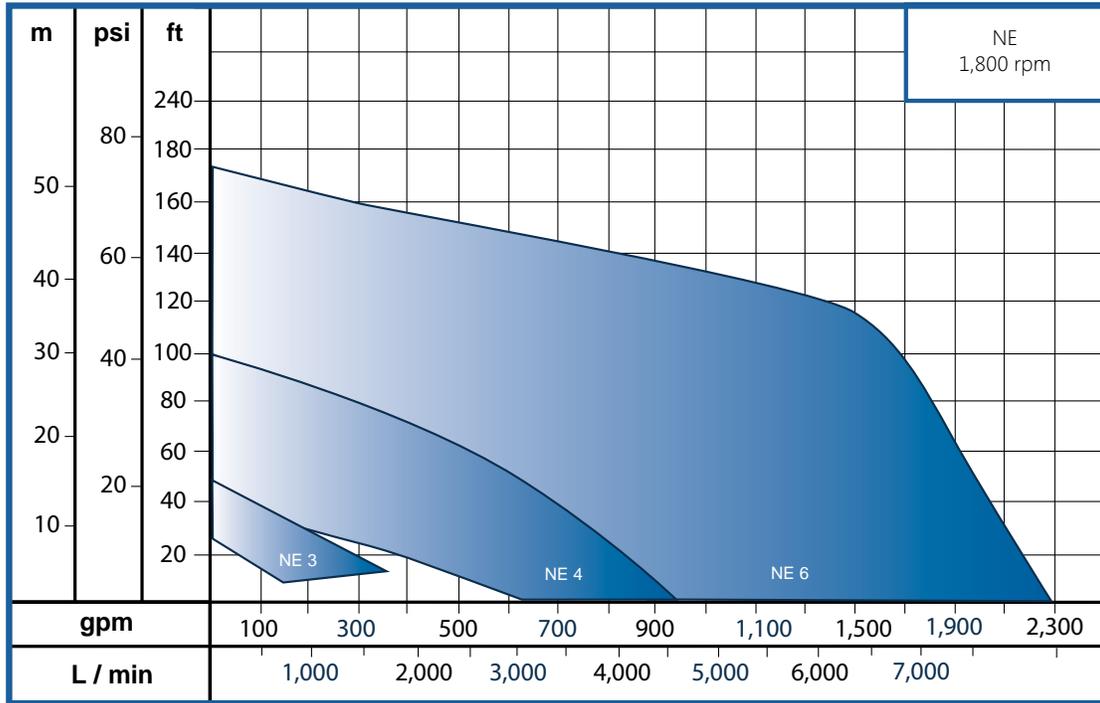
APPLICATIONS:

- General industry
- Cooling towers
- Municipal
- Mining
- Water
- Agriculture industry
- Paper industry
- Power generation

OPERATING LIMITS

Capacity	up to 2,300gpm
Head	up to 176 ft
Discharge Flange	up to 6"
Temperature	up to 158 °F
Solid Handling	up to 3"
Max Working Pressure	78 psi

Performance Chart:



*NE 3 model, also in 3,600 rpm.

+65 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.

