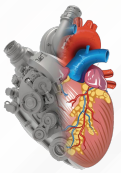
Roto pumps
since 1968
...moving fluids positively

WE COMPETE WITH ONLY ONE PUMP



MAXIMIZING PERFORMANCE WITH VERTICAL SUBMERGED PUMPS



Roto pumps since 1968 ...moving fluids positively

Semi-submersible Pump

Roto semi- submersible pumps are self-priming and are capable of handling solids, liquids and gases all put together. These Pumps are designed for applications where space is a constraint and are available in multiple barrel lengths to suit diverse sump depths. We offer best-in-class design when it comes to customized pumps for closed /open drain oil & KO drum applications.

Key Features

Customizable Immersion Depths

Available for varied immersion depths with modular extensions for tailored configurations. Fully submersible designs and optional suspension brackets to ensure adaptability in diverse applications and ease of installation in challenging setups.

Cavitation Prevention

These pumps eliminate the risk of cavitation by operating effectively under low NPSH conditions and can further increase NPSHa when installed in a vessel, ensuring smooth operation in critical suction head applications or confined spaces. Ensures low-pulsation flow rates and high dosing accuracy for applications requiring consistent product quality.

Environmentally Friendly Design

These pumps efficiently handle high-viscosity, abrasive, shear-sensitive, gas-laden, and solid-laden media while safely emptying tanks, pits, containers barrels, containers, and sedimentation tanks with hazardous or unpredictable mixtures.

Their robust, leak-proof design manages corrosive, erosive, and volatile liquids, minimizing environmental impact with a gas-tight domed lid for closed systems, ensuring compliance with environmental protection standards.

Roto Advantages

1. Rotor

Wear Resistant & Corrosion Proof. Options of Ceramic Coating, Tungsten Carbide Coating & Hard Chrome Plating in various materials.

2. Stator

The seals at both ends are seamlessly moulded as part of the elastomer, ensuring the pumped liquid remains isolated from any bonding adhesive. Stator tubes are available in various material options.

3. Sealing

Available in Single/Double-acting Mechanical Seal, Soft Gland Packing with Lantern Ring, Mechanical Seals & Plans as per API 682 4th Edition.

4. Drive

Options include geared motors, variable speed drives, and frequency-controlled motors. Drives can be configured through a bearing housing or directly flanged to the geared motor. IEC and NEMA options are available for hazardous applications.

5. Pressure Casing & Flange Connection

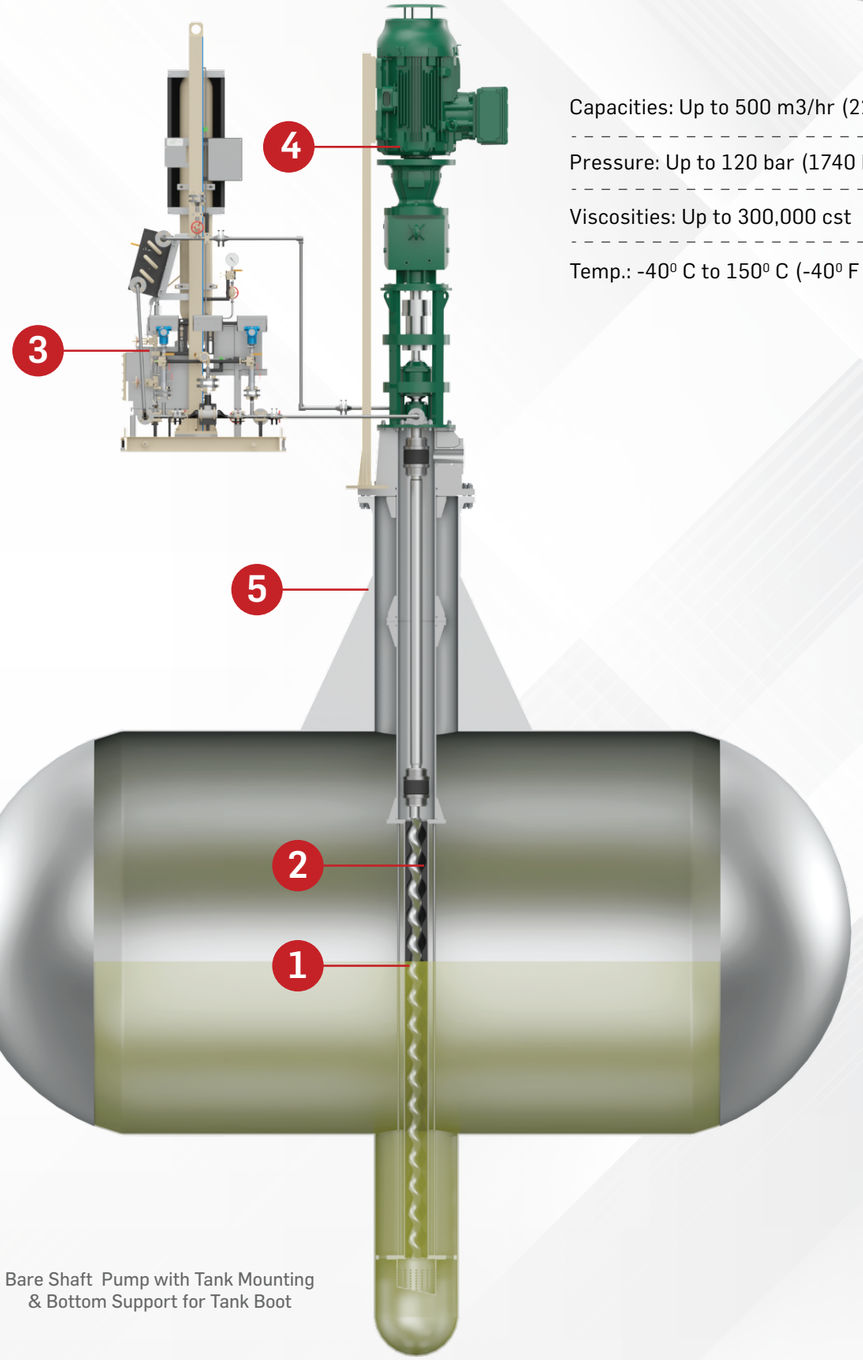
Designed to customer-specified lengths with flange and threaded connections conforming to DIN, ASME, and international standards. Mounting plates are customized to meet specific requirements, and nozzle loads complied to various API standards.

Material Of Construction

- **Rotor & Other Wetted Parts -** Carbon Steel, Duplex, Super Duplex, Inconel 825, 625 etc.
- **High Fluro Whiton or Elastomer -** NBR, HNBR & FPM.
- **Connections -** As per ANSI/ ASME B16.5 with various flange ratings.
- **Coupling & Guard -** As per API 610/671, AGMA 9001.
- **Gear Box -** Conforming to AGMA 6010 standard.
- **Electric Motors -** As per IEC/NEMA standards.

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Bare Shaft Pump with Tank Mounting & Bottom Support for Tank Boot

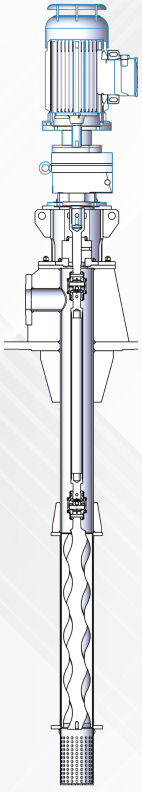
Capacities: Up to 500 m3/hr (2200 GPM)

Pressure: Up to 120 bar (1740 PSI)

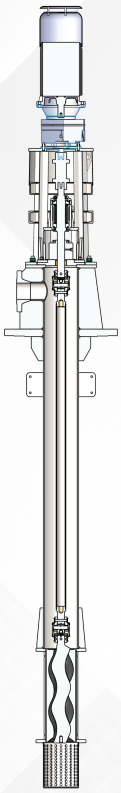
Viscosities: Up to 300,000 cst

Temp.: -40⁰ C to 150⁰ C (-40⁰ F to 302⁰ F)

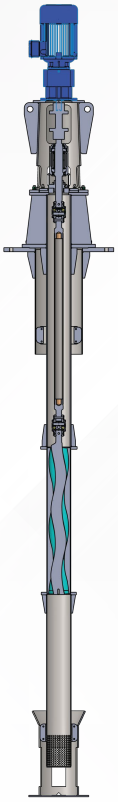
Other Variants



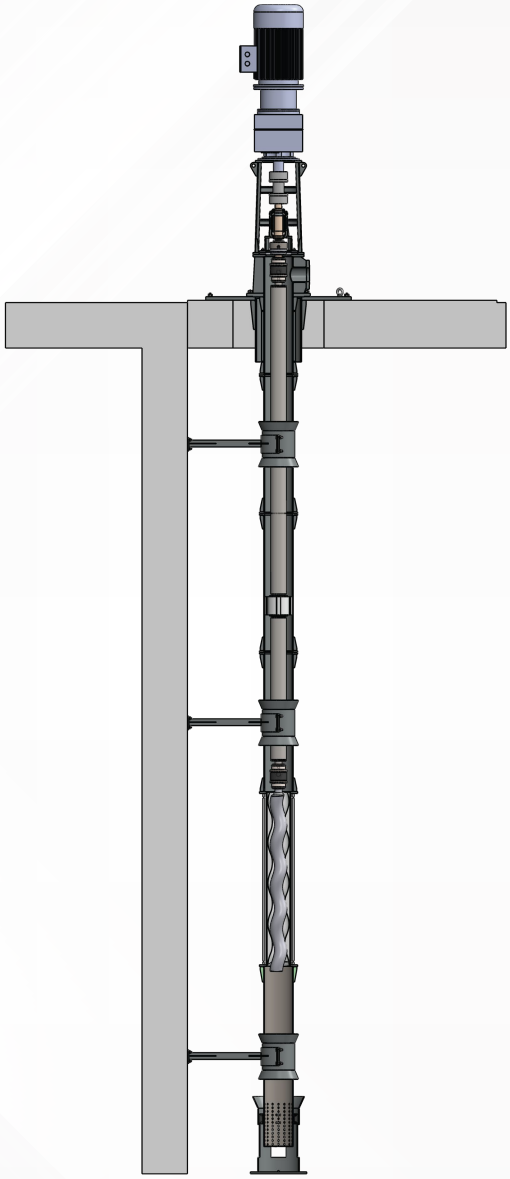
Close Coupled Pump



Bare Shaft Pump



Bare Shaft Pump
with Bottom Support



Wall Mounted Vertical
Bare Shaft Pump

Customized Solutions

We specialize in designing and delivering custom pumping solutions for the most demanding applications. With our extensive expertise, we offer a wide range of pump variants, including Bare Shaft & Close Coupled Pumps. The mountings can be offered as tank mounted, wall mounted or suspended. Pumps with bottom supports are offered to minimize the vibrations. We provide fully integrated skids, with auxiliary piping's, safety relief valves, junction boxes, control panels, sealing plans and various drive arrangements to ensure seamless integration, enhanced performance, and long-term reliability in critical operations.

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