

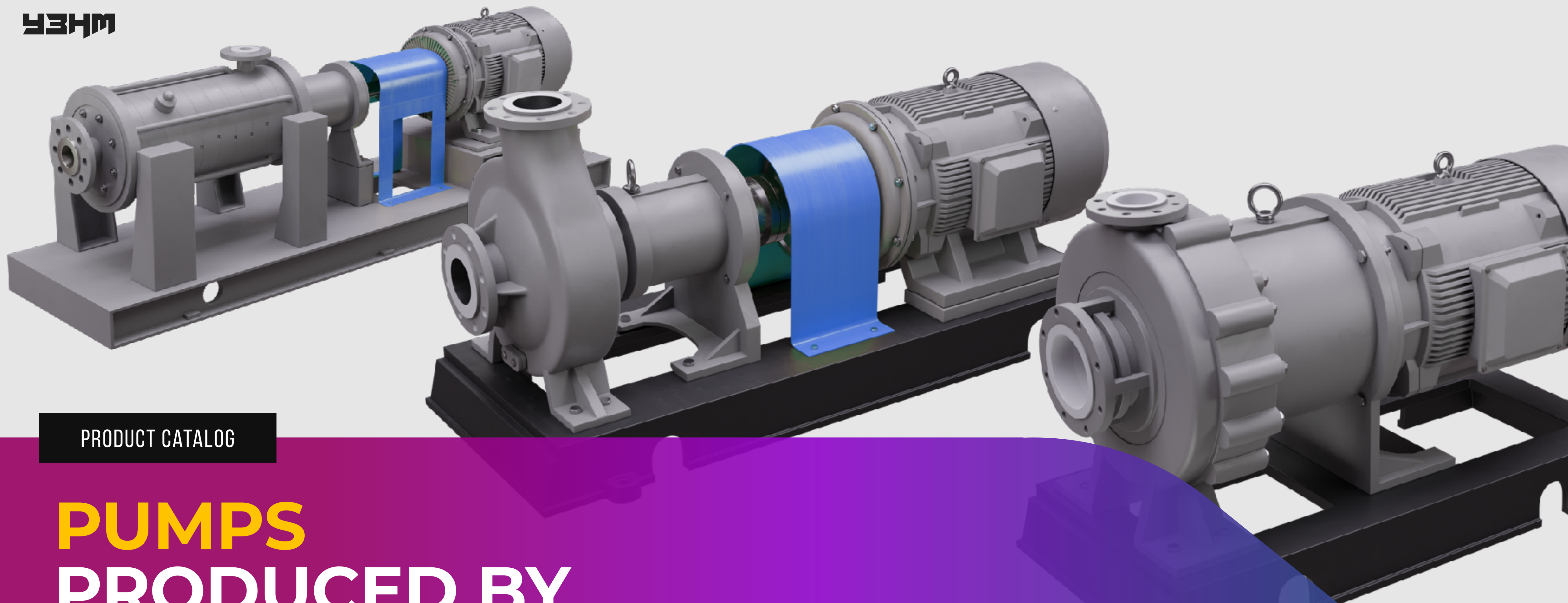


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PRODUCT CATALOG

PUMPS PRODUCED BY URAL OIL ENGINEERING PLANT



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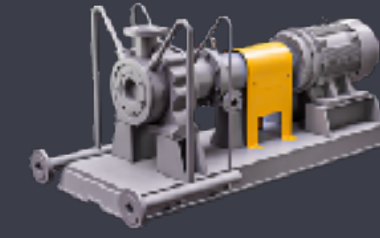
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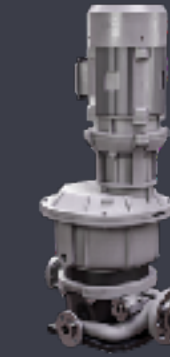
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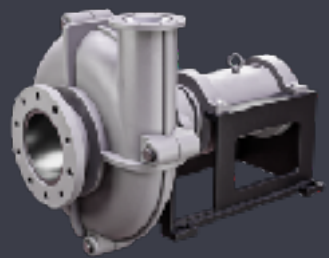
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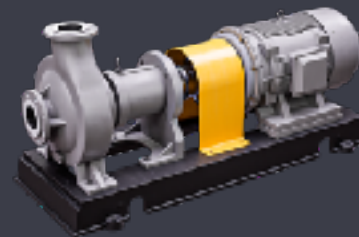
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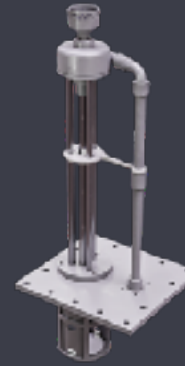
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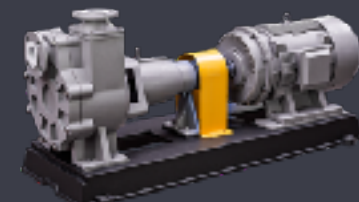
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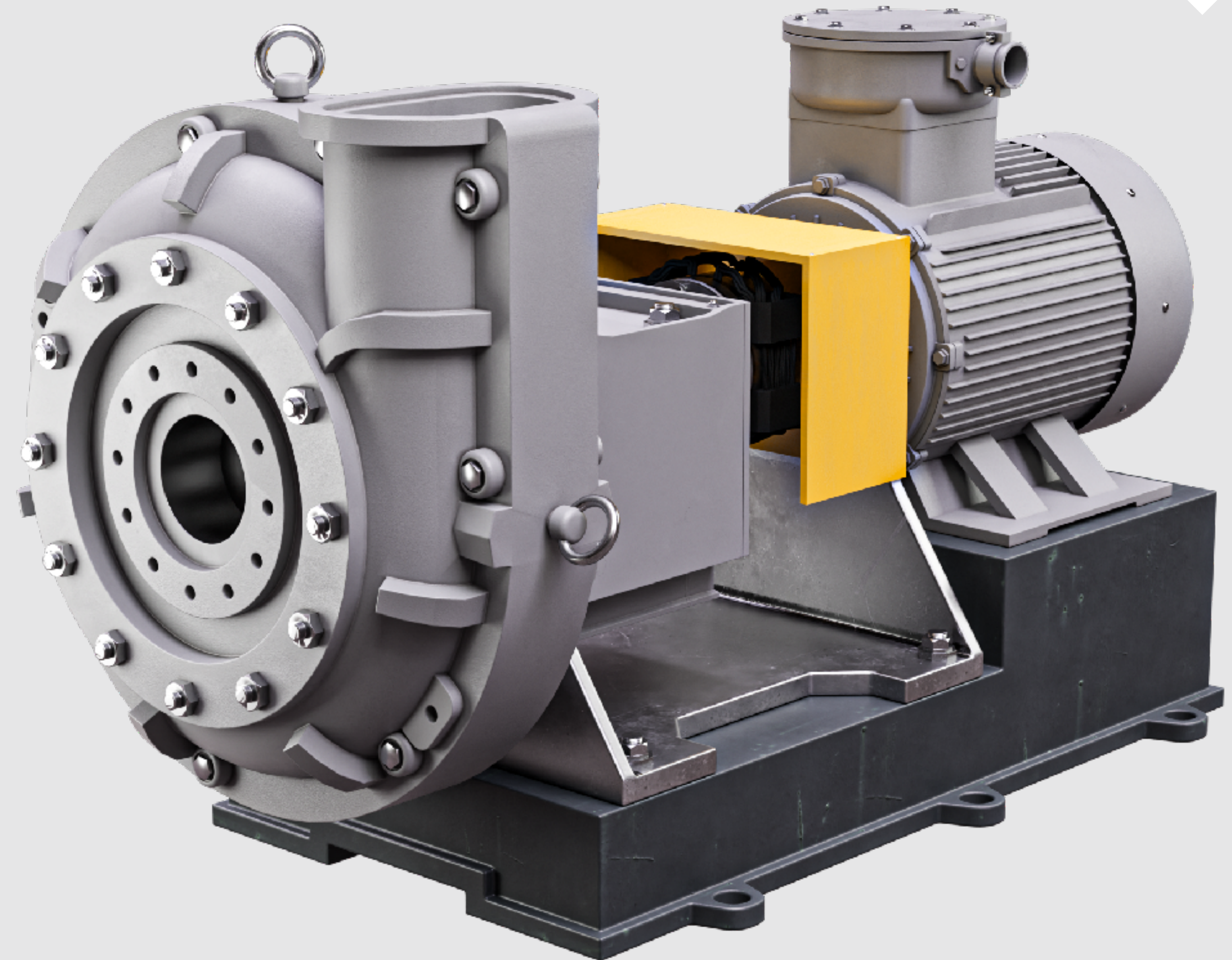
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01. HEAVY-DUTY SLURRY PUMPS

Heavy-duty slurry pumps are used by **mining, metallurgical, coal, chemical, construction** and others industries.

They pump **liquid with medium-sized solid particles**, that have the property of abrasiveness, corrosion, for example: ash, coal slurry for power plants, mine slurry for metallurgical processing plants.

These pumps have high **efficiency**, high **corrosion resistance**, stable operation and long service life.



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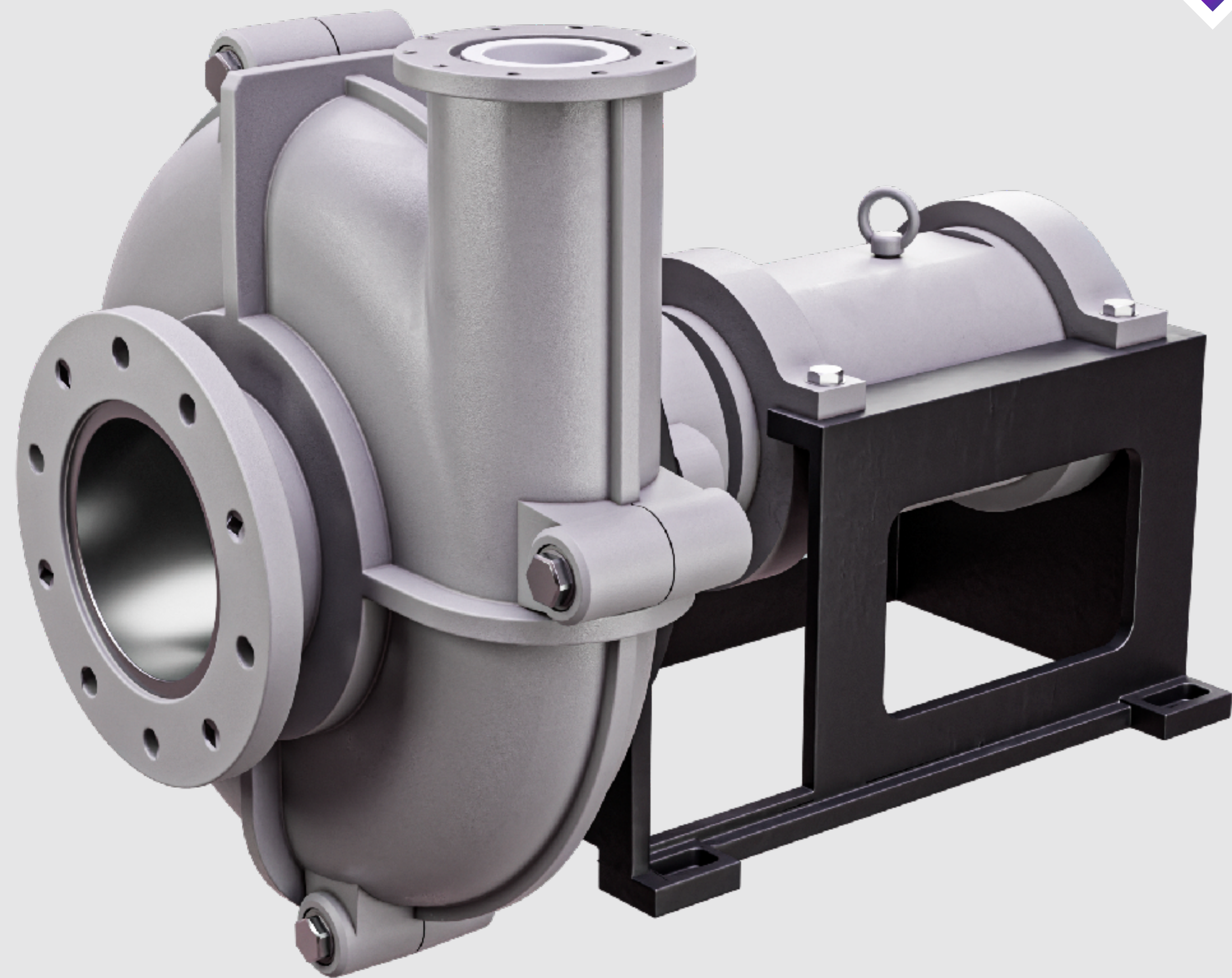


02. LIGHT-DUTY SLURRY PUMPS

Light-duty slurry pumps are used for transportation of a liquid containing solid particles.

They are widely used in **desulphurization**, **hydrometallurgical** industry, in production of **phosphorus** and **aluminium** oxide.

These pumps have high **efficiency**, high **corrosion resistance**, stable operation and long service life.



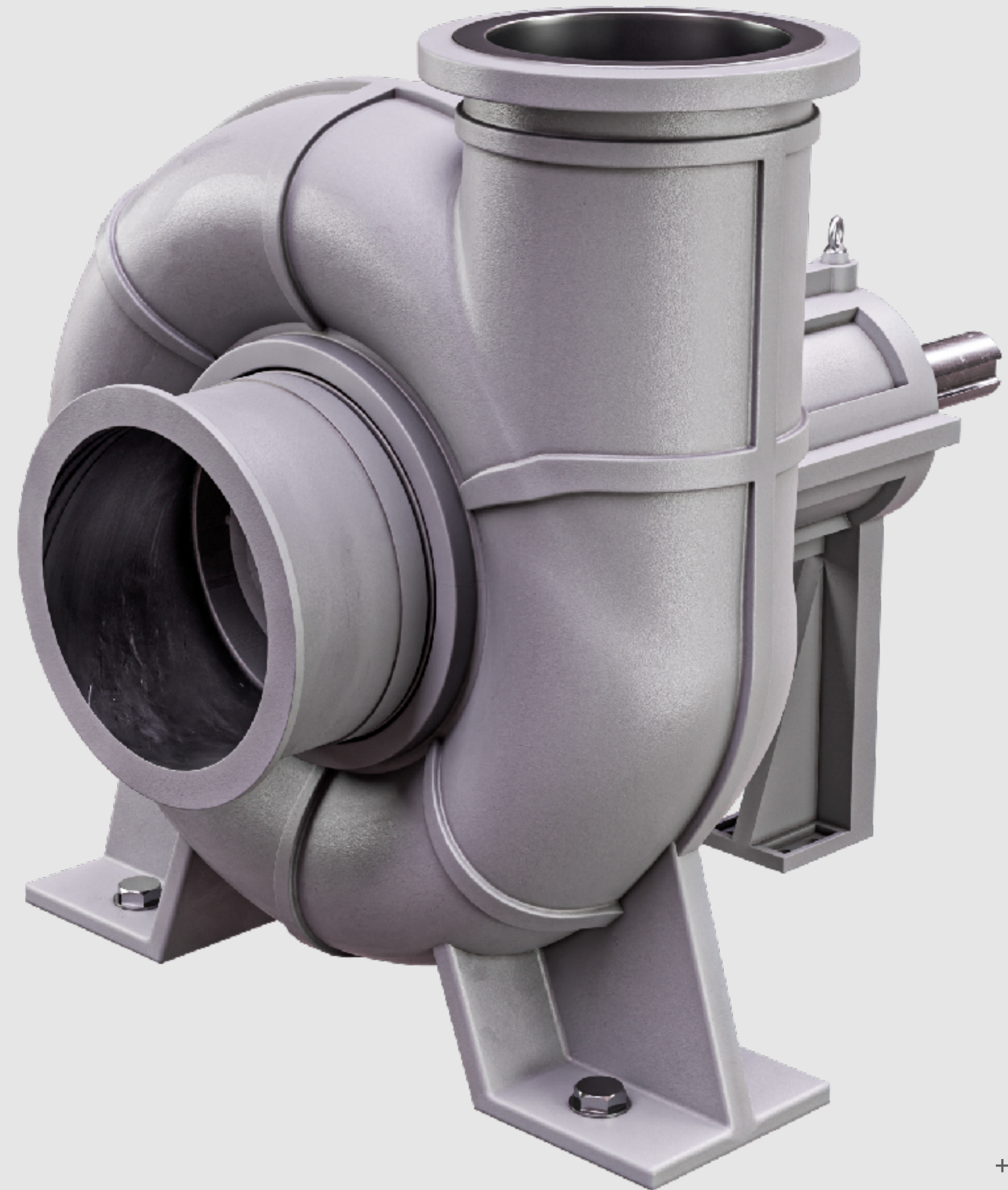
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03. DESULPHURIZATION SLURRY PUMPS

Desulphurization slurry pumps are used as industrial **flue gas desulphurization** pump and as a pump for **two phase flows**.

These pumps have high **efficiency**, high **corrosion resistance**, stable operation and long service life.



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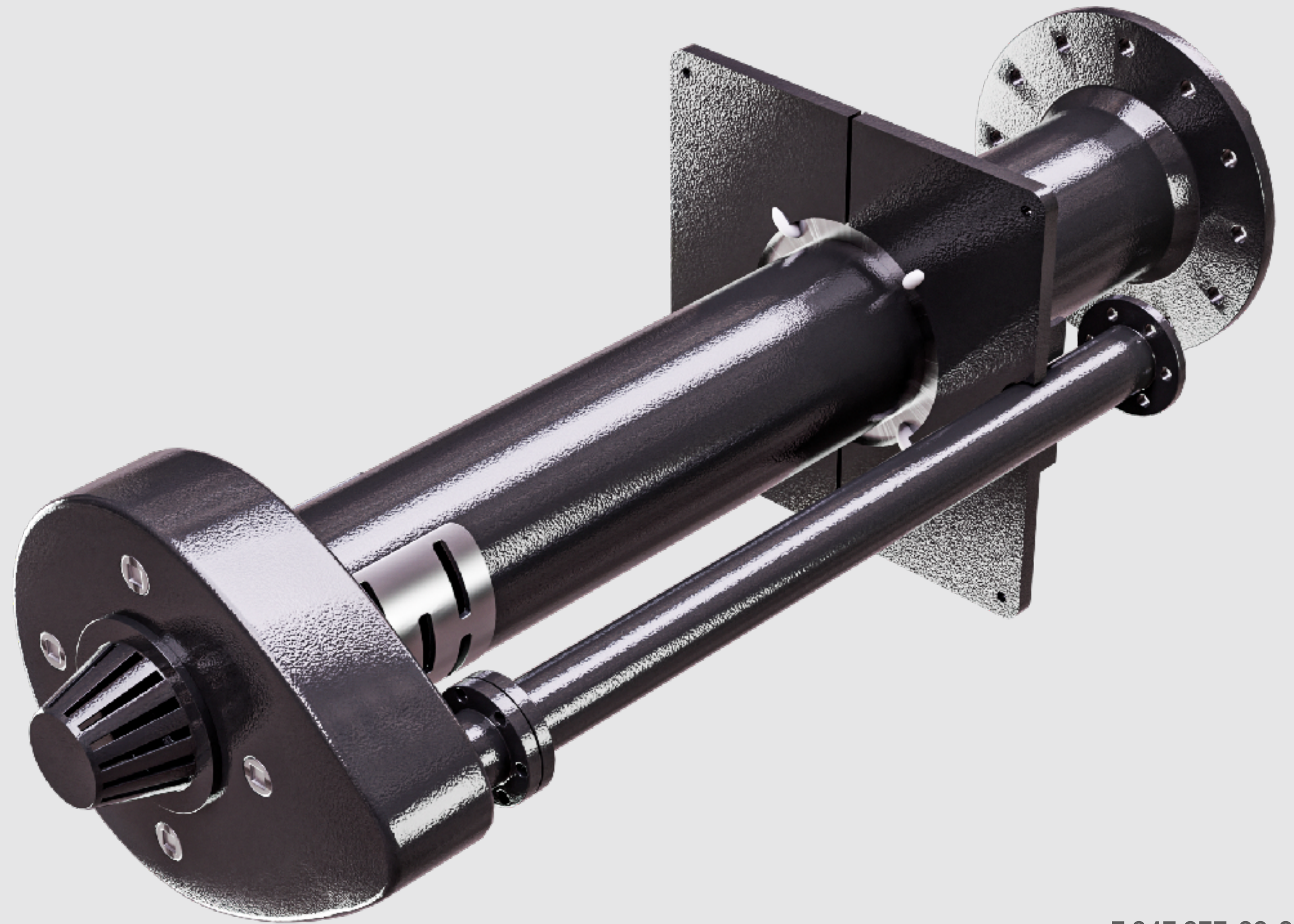
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04. VERTICAL SLURRY PUMPS

Vertical slurry pumps — are semi-submersible pumps that are used for transportation of liquids containing abrasive materials, with large particles.

They are used in various **pit pumps in mines**.

These pumps have high **efficiency**, high **corrosion resistance**, stable operation and long service life.



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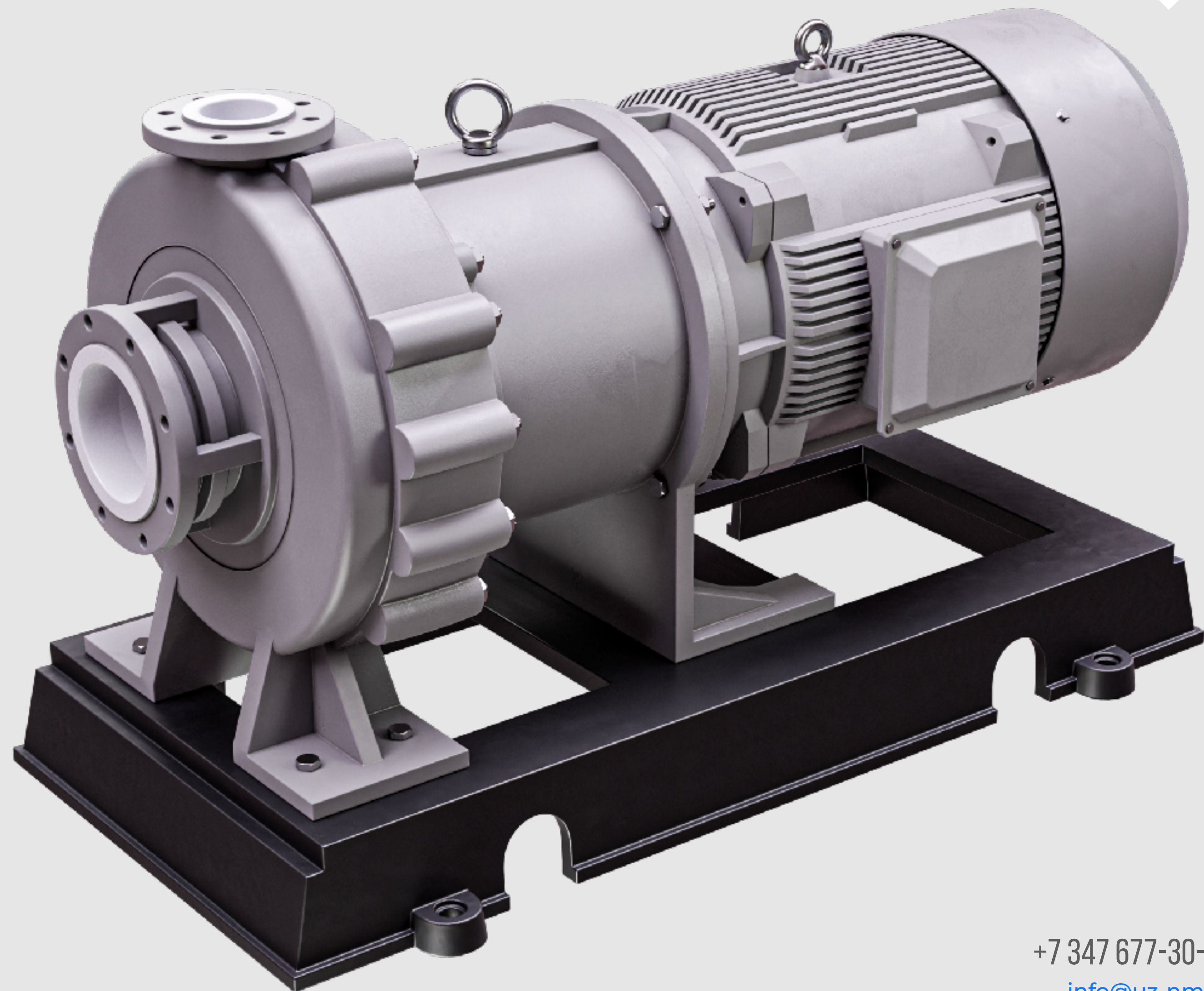
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05. HORIZONTAL CENTRIFUGAL PUMP WITH MAGNETIC DRIVE WITHOUT COMPACTION



Teflon lined chemical pump is used in **chemical industry**, where **pure pharmaceutical** and **fine chemical media** are used and where contamination is not allowed. For these pumps, the pump body and pump cover of **cast iron HT200** with lining (**PFA** or **PTFE**) are applied, impeller is made of **ASTM A216 WCB**, with fused deposition of **PTFE**.

Closed impeller with bladed channels optimized for the flow bladed channels: provides high efficiency and low NPSH values. Metal core is protected by thick seamless plastic veneer, large metal core significantly increases mechanical strength even at elevated temperatures and high speeds of flow. **Secure screw connection** on shaft prevents loosening in case of the pump starting in the wrong direction of rotation or in event of a back fluid flow.



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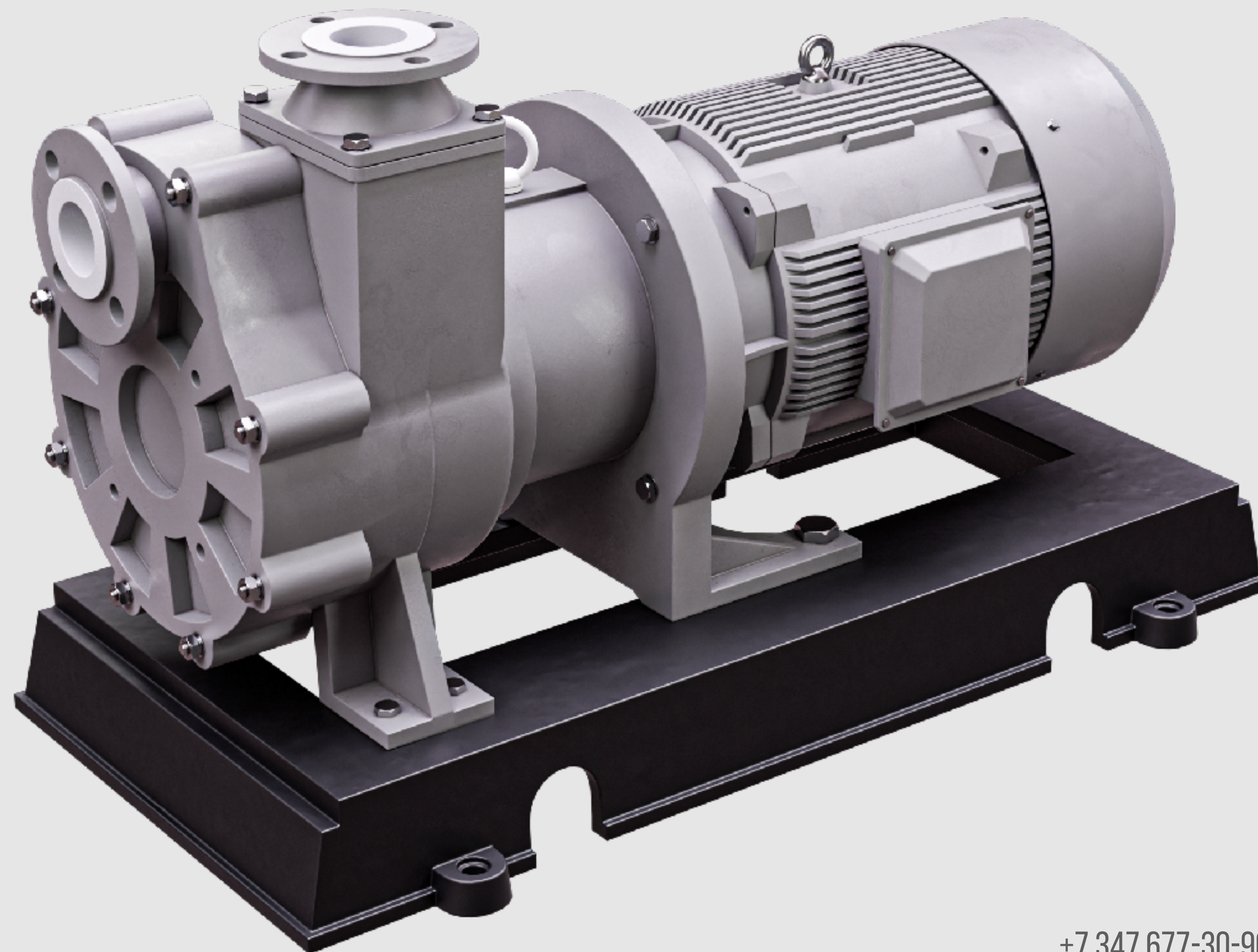
06. HORIZONTAL SELF-PRIMING PUMP — MAGNETIC PUMP WITH TEFLON LINING



Horizontal Self-priming Pump — is a **magnetic pump with teflon lining** which is designed for low-fluid tanks. It can transfer **flammable, explosive and volatile chemicals**.

This self-priming pump is widely used in such industries as **petrochemistry, metallurgy of non-ferrous metals, pesticide, acid and caustic production, cellulose production, acid etching process, extraction of rare earth elements, galvanization, electronics** etc.

Pumps are made of **fluorinated ethylene-propylene (FEP)** alloyed with **polytetrafluoroethylene (PTFE)**.



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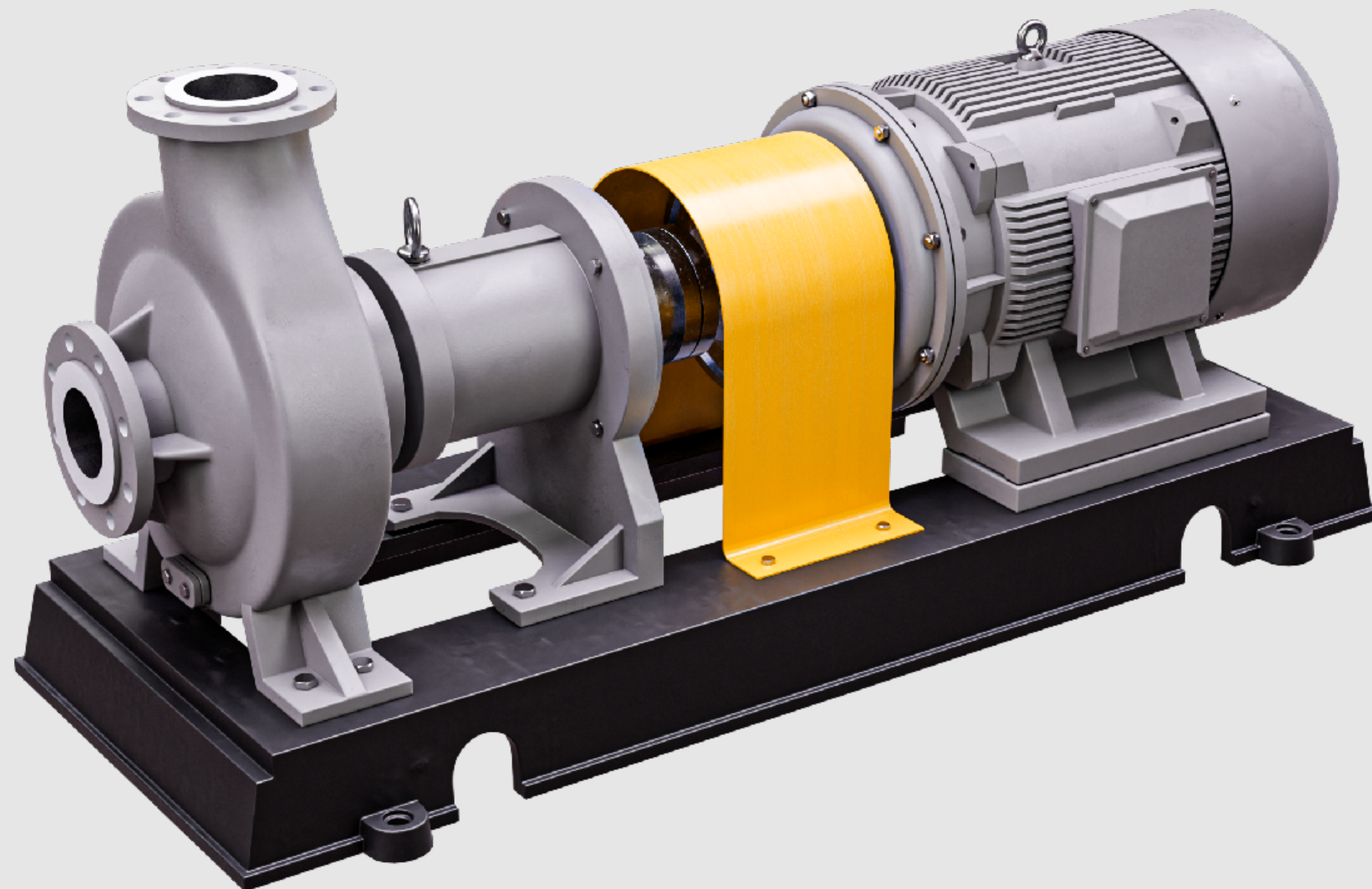
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07. HORIZONTAL NONMETALLIC CHEMICAL CENTRIFUGAL PUMP



Horizontal teflon lined chemical centrifugal pump is used in chemical industry, where **pure pharmaceutical** and **fine chemical media** are used and where **contamination is not allowed**. For these pumps, the pump body and pump cover of **cast iron HT200** with lining (PFA or PTFE) are applied, impeller is made of **ASTM A216 WCB**, with fused deposition of **PTFE**.

Closed **impeller with bladed channels optimized for the flow** provides high efficiency and low NPSH values. Metal core is protected by **thick seamless plastic veneer**, large metal core significantly increases mechanical strength even at elevated temperatures and high speeds of flow. Secure screw connection on shaft prevents loosening in case of the pump starting in the wrong direction of rotation or in event of a back fluid flow.



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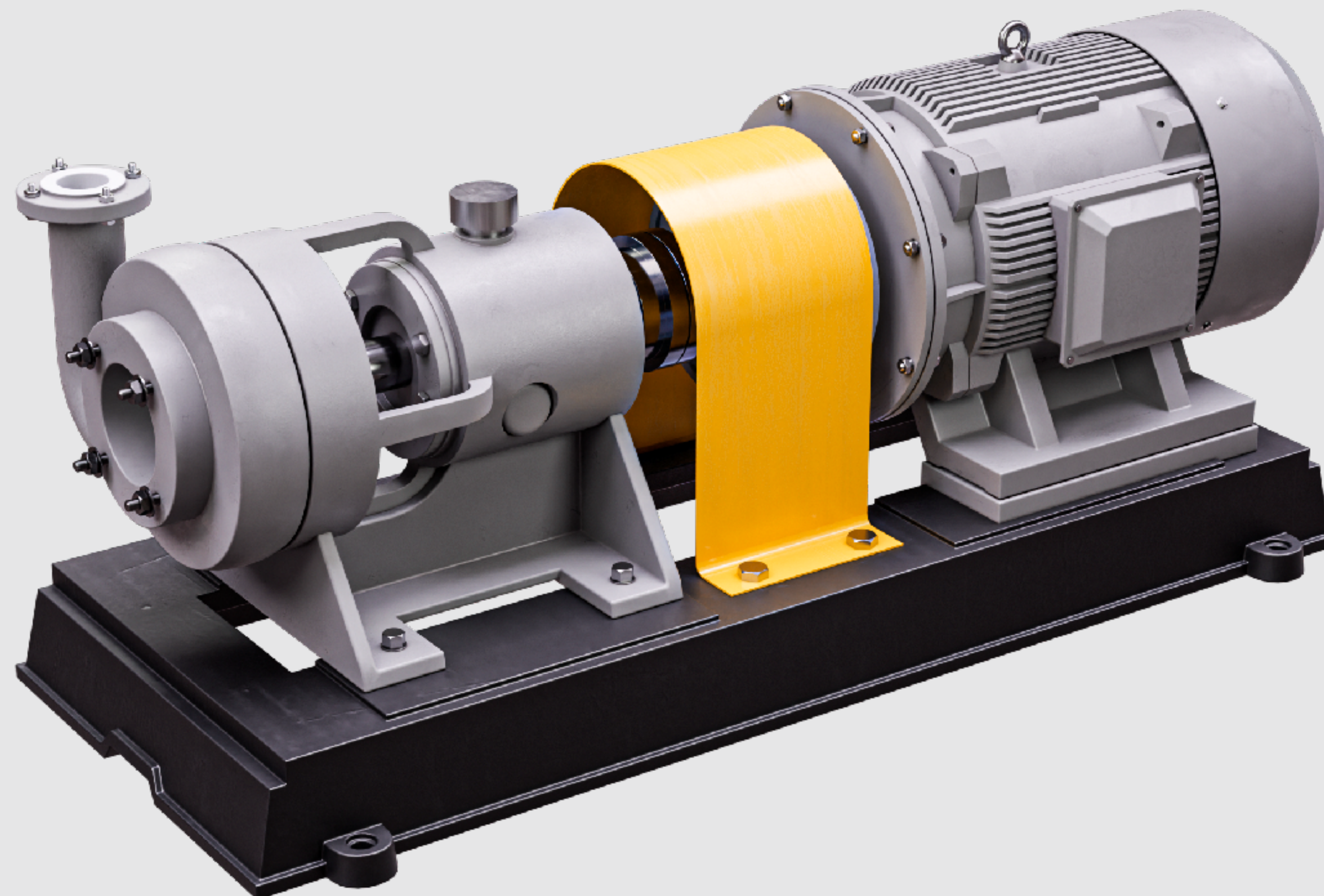
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08. THERMOPLASTIC CENTRIFUGAL PUMPS



Thermoplastic centrifugal pumps for chemical processes are aggregates for pumping **aggressive fluids without solid particles** with viscosity similar to water.

Pump parts are made of **fluorine plastic** alloy. The pumps have simple and compact design.



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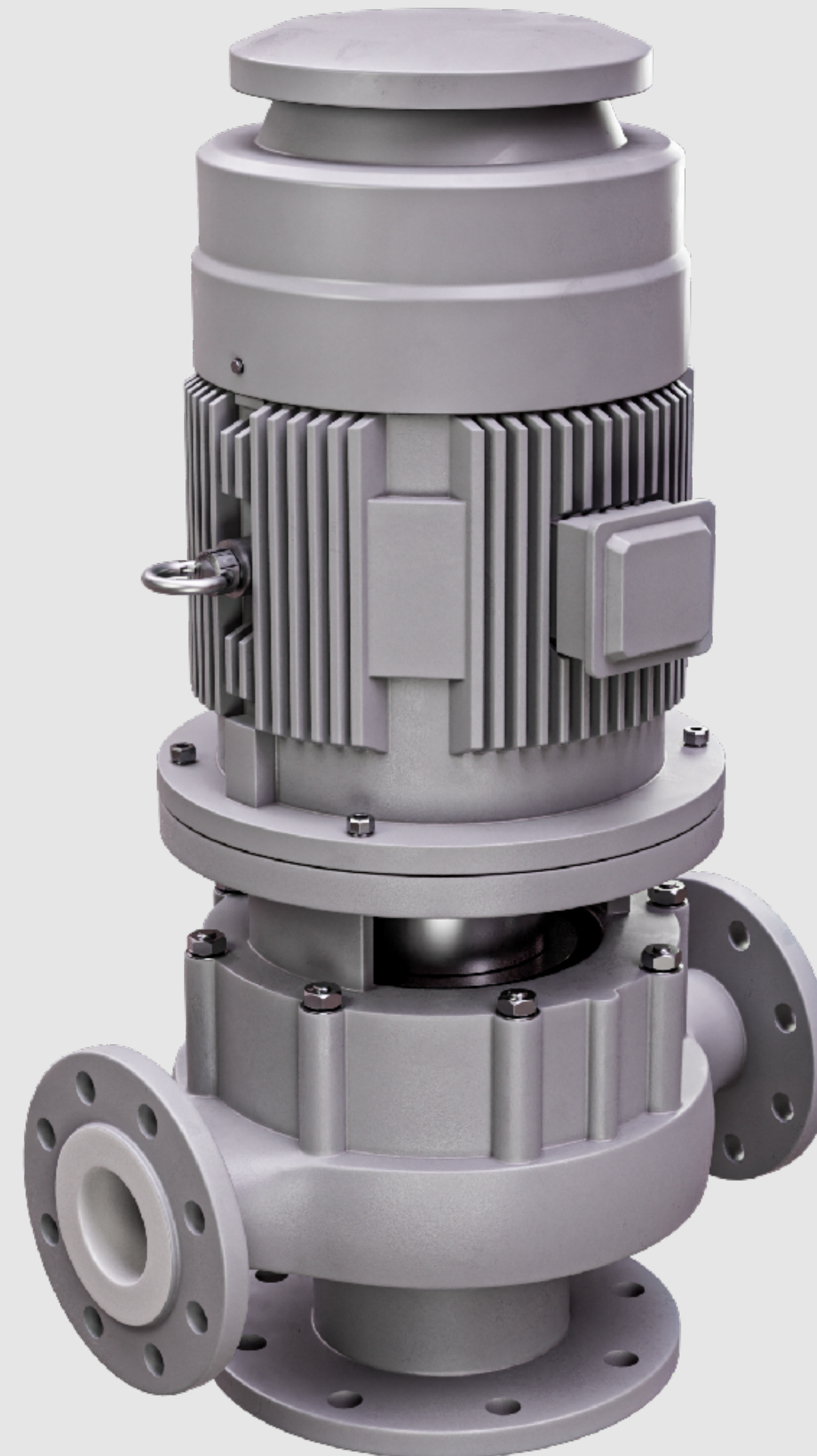
09. VERTICAL IN-LINE PUMPS

Vertical teflon lined In-line Pumps, **providing suction and injection** in the same direction and on the same centerline.

Used for pure **pharmaceutical and fine chemical** media. For these pumps, the pump body and pump cover of **cast iron with lining from FEP** are applied, impeller is made of PTFE (or FEP).

Closed impeller with bladed channels optimized for the flow bladed channels provides high efficiency and low NPSH values.

The impeller is connected directly to the engine to balance radial and axial loads.



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10. FLUOROPLASTIC SELF-PRIMING PUMP

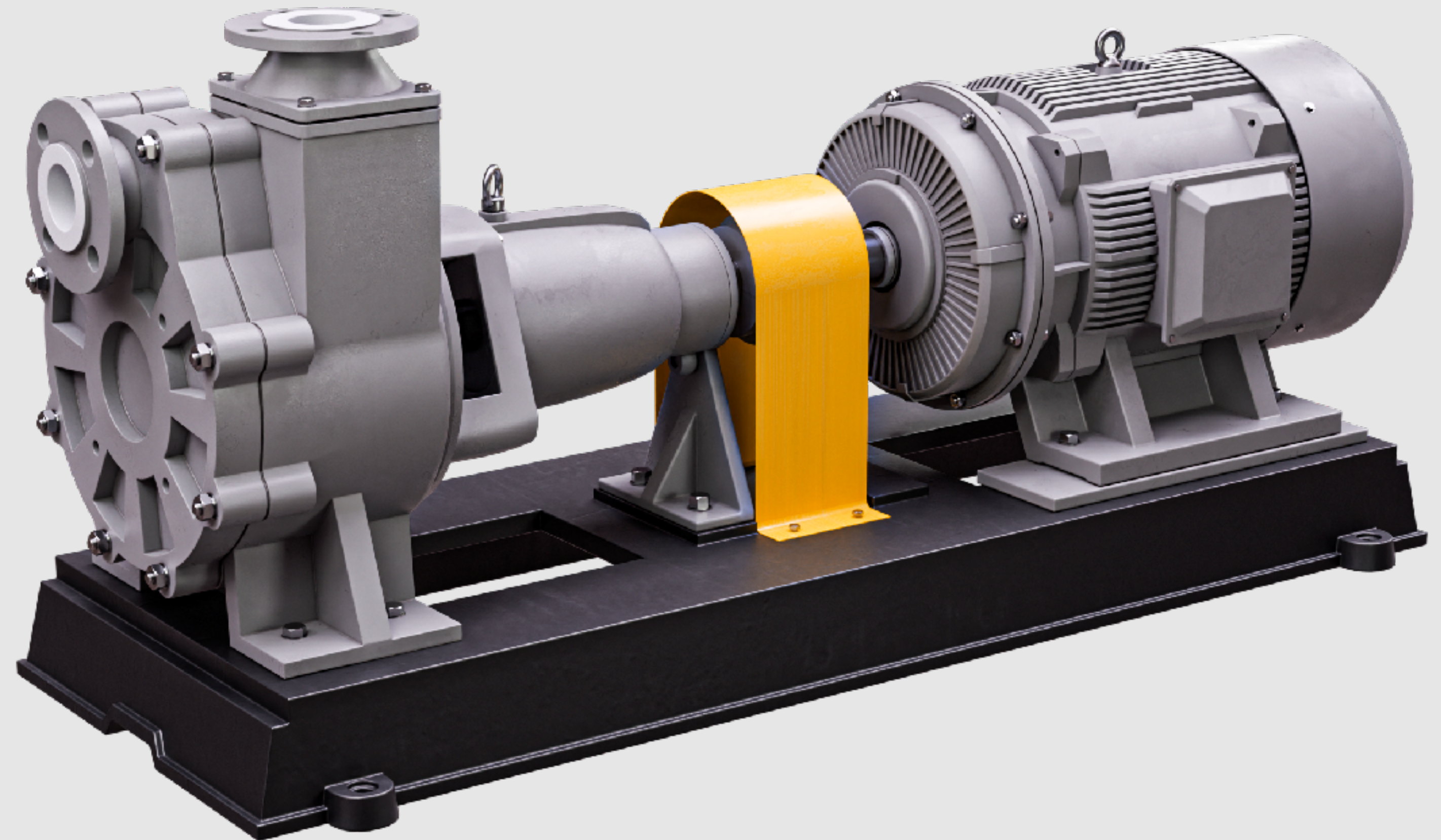


Fluoroplastic Self-priming Pump is designed for use with low-fluid tanks.

It is designed to work with acids, alkalis, wastewater, chlorine water, electrolyte. Twin scroll construction is applied.

For these pumps, the pump body and pump cover of cast iron with lining from 46 are applied, impeller is made of FEP.

The pumps have simple and compact design and therefore are easy to operate and maintain.



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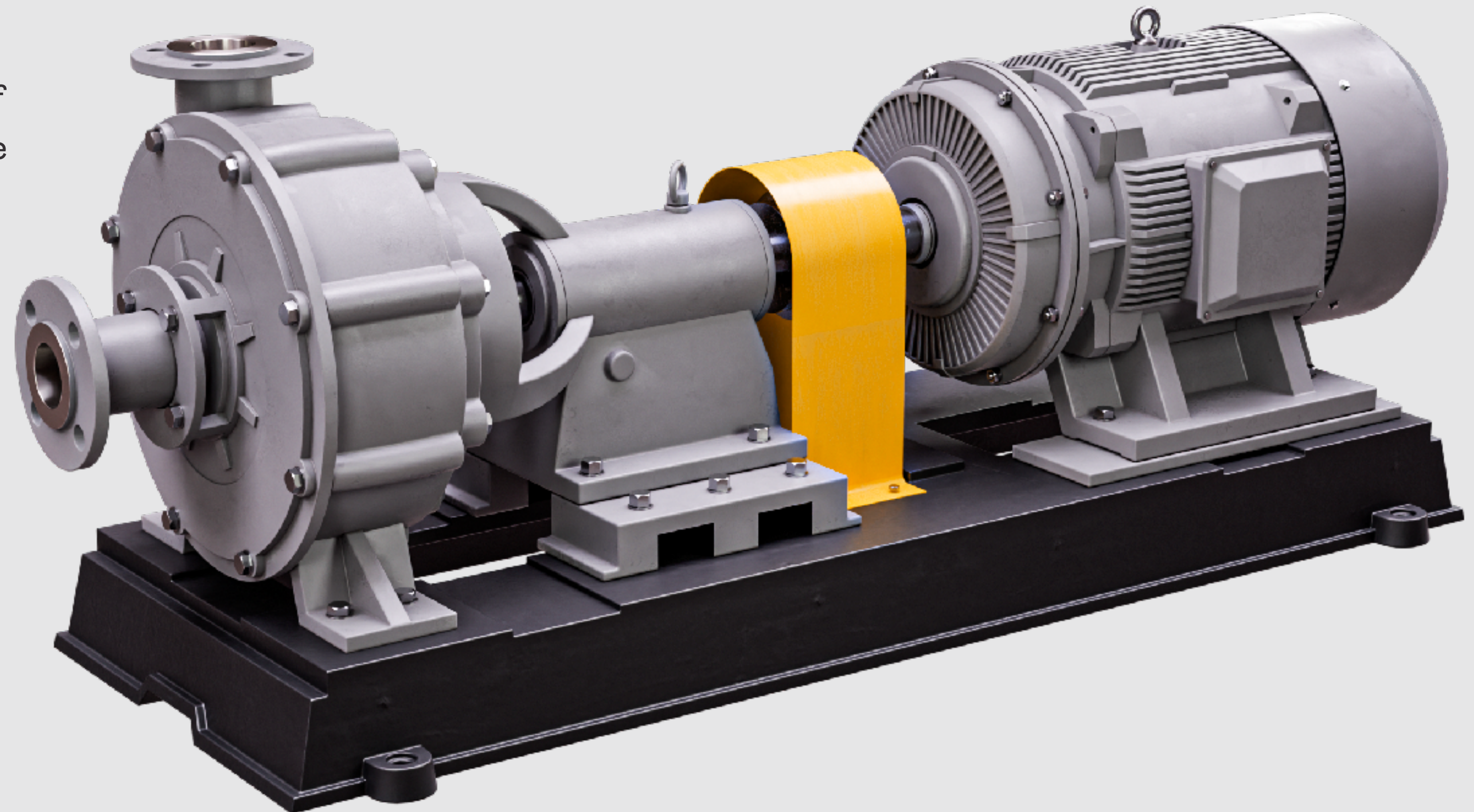
11. SLURRY PUMPS



Slurry pump — is a single-stage centrifugal pump with one suction, designed specifically for **highly corrosion resistant liquids containing tiny particles.**

The pump can pump **acid and corrosive liquids and suspension**, is also capable of pumping various types of aggressive suspensions in metallurgy and mining, alkene in the sulphuric acid industry and waste water in the environmental industry.

For these pumps, the pump body and pump cover of cast iron with lining by ultra-high molecular weight polyethylene are applied. This polyethylene has very high performance. Impeller is made of ASTM A216 WCB with lining by ultra-high molecular weight polyethylene.



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12. SEMI-SUBMERSIBLE CHEMICAL PUMP

Semi-submersible chemical pump — is a vertical semi-submersible pump, is made of fluoroplastic (FEP) that makes the pump highly corrosion resistant, high efficiency, and low weight.

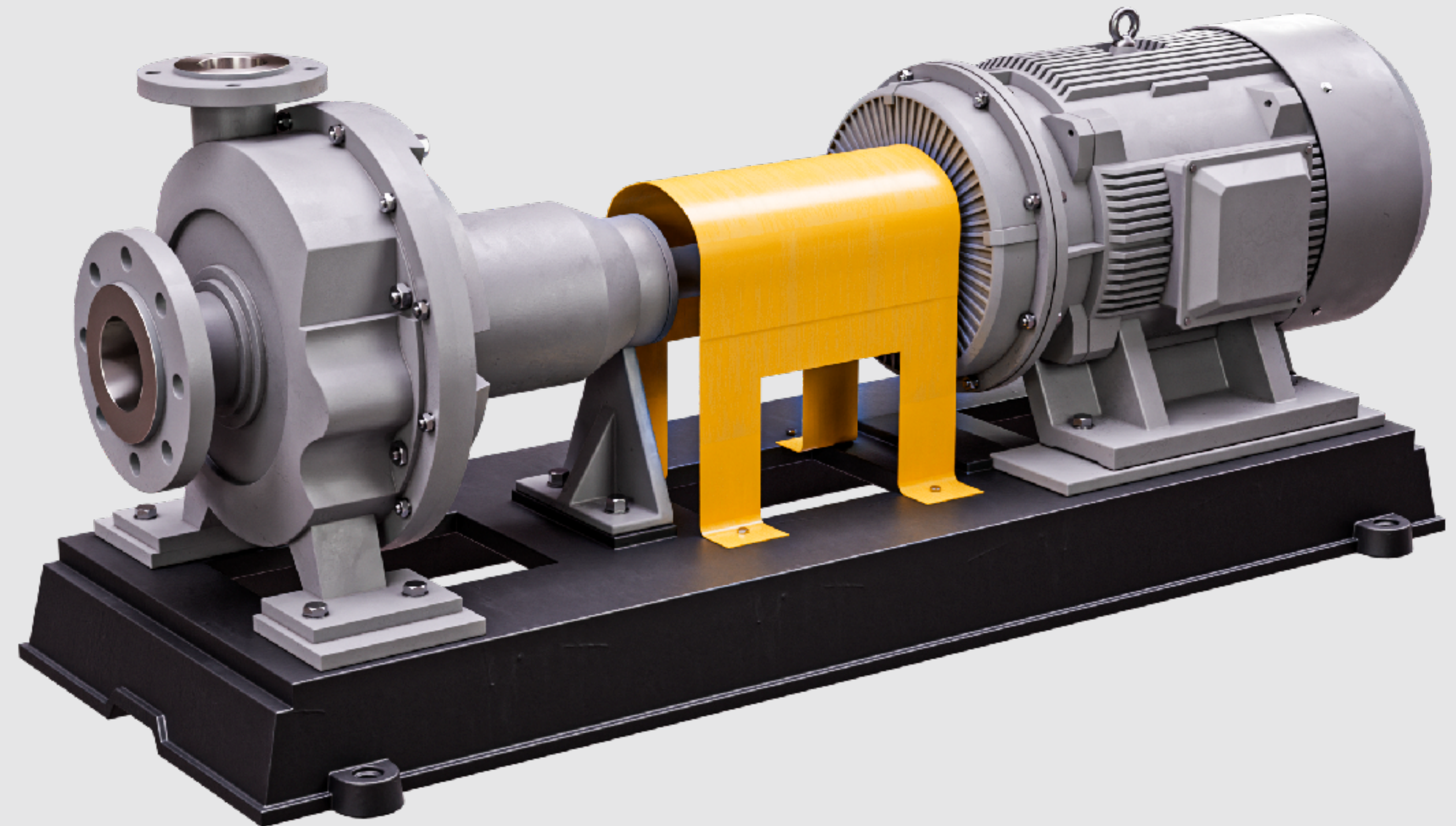


13. OH1 WITH FOOT SUPPORT



With foot support and center installation.
With automatic axial force balancing technology.
This simple design has **easy maintenance**.

Magnetic pump axial force uses hydraulic principle for automatic axial force balancing due to fluid pressure difference, thrust plate and sliding bearing withstand unbalanced axial force only at the start and stop of the pump, which **fully guarantees the service life of the sliding bearing and thrust plate**.



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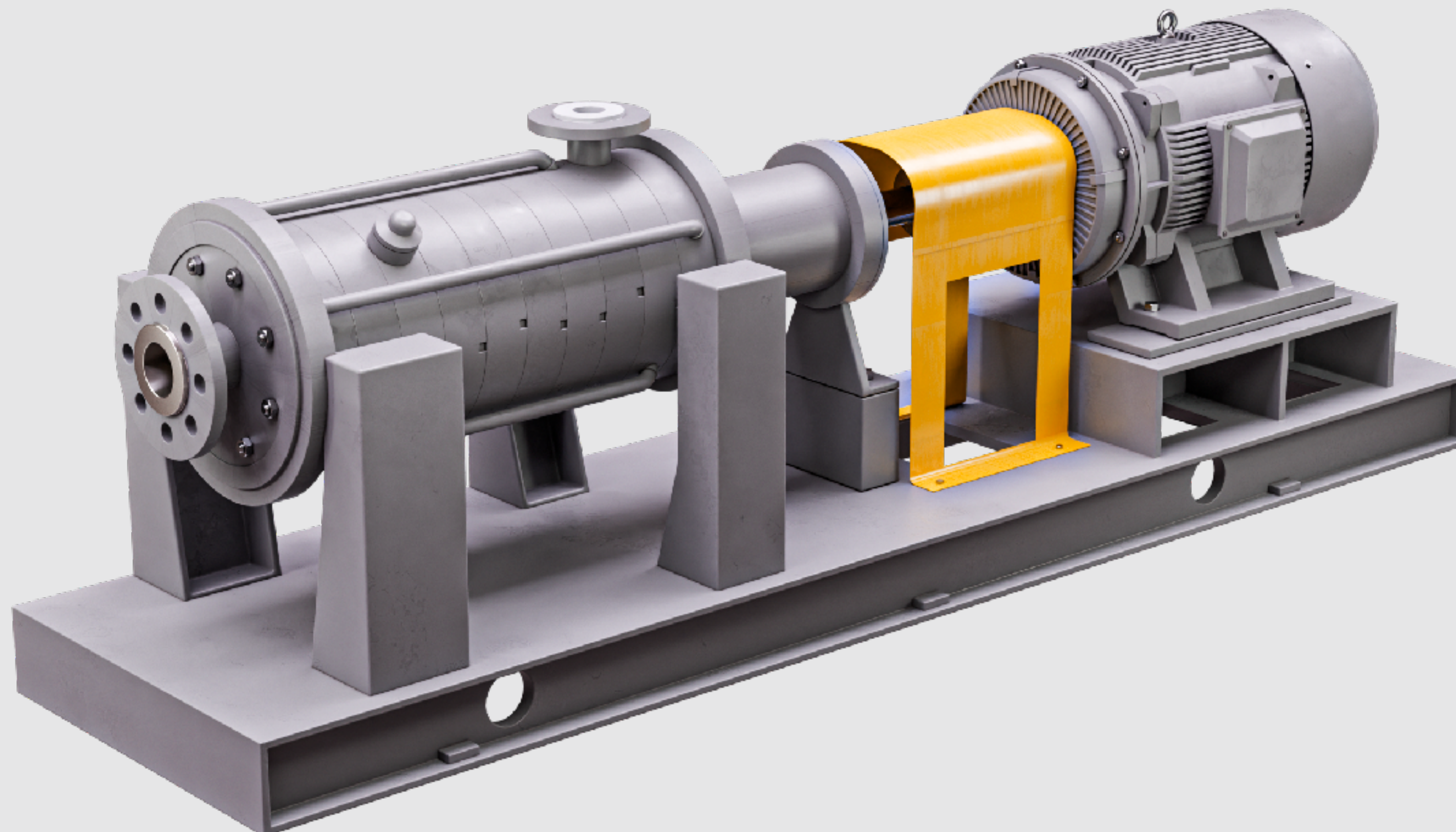
14. MULTI-STAGE, SEGMENTAL, DOUBLE SUPPORT STRUCTURE



Multi-stage, segmental, double support structure.

This type of pumps is suitable for high load conditions.

Additional cooling or insulation "jackets" are used in the pump, depending on the operating conditions.



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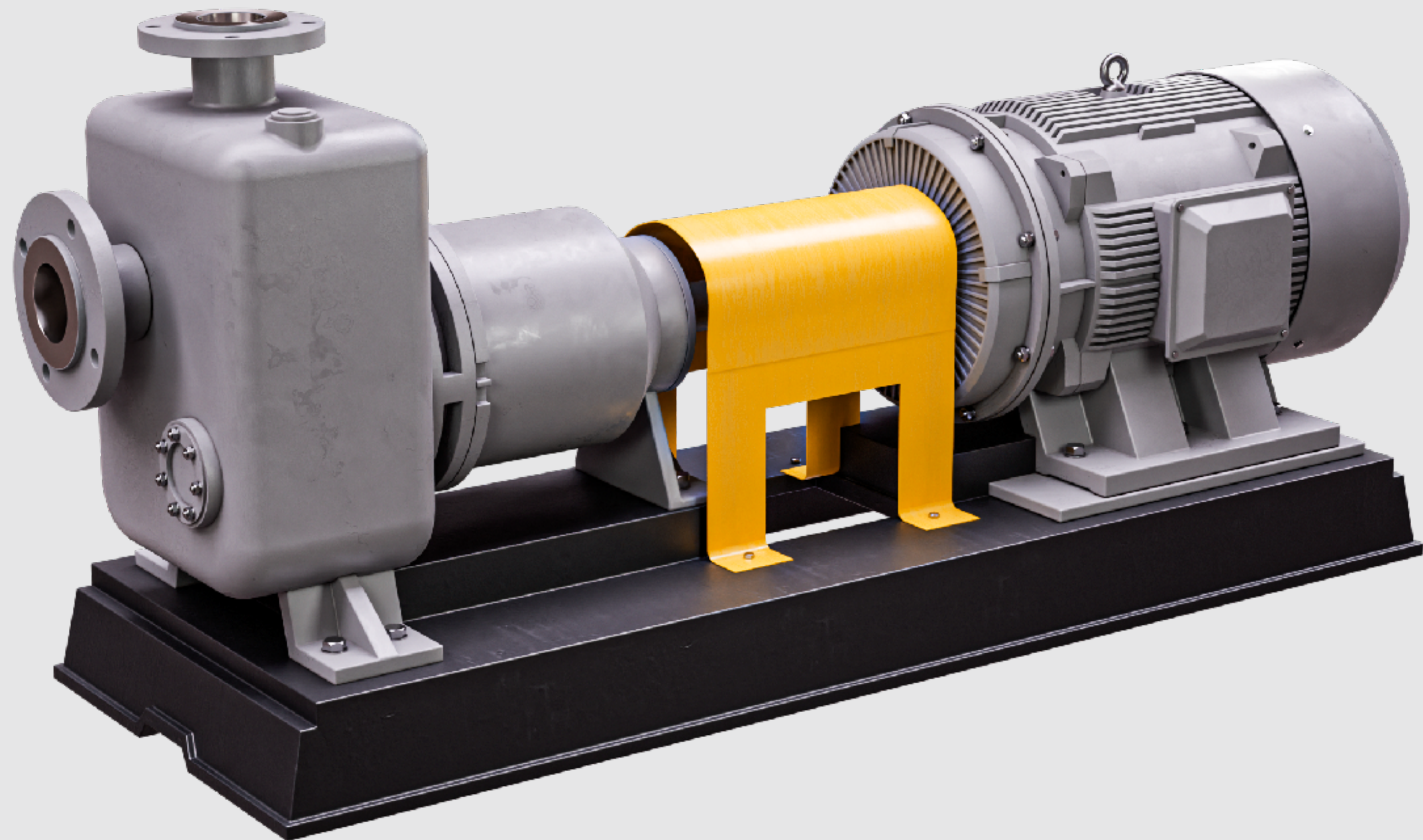
15. PUMP WITH SELF-SUCTION FUNCTION



Magnetic self-suction pump.

These pumps can suction to a suction height of **6 meters**.

They are used for underground pumping or top pumping of fluid from the tank.



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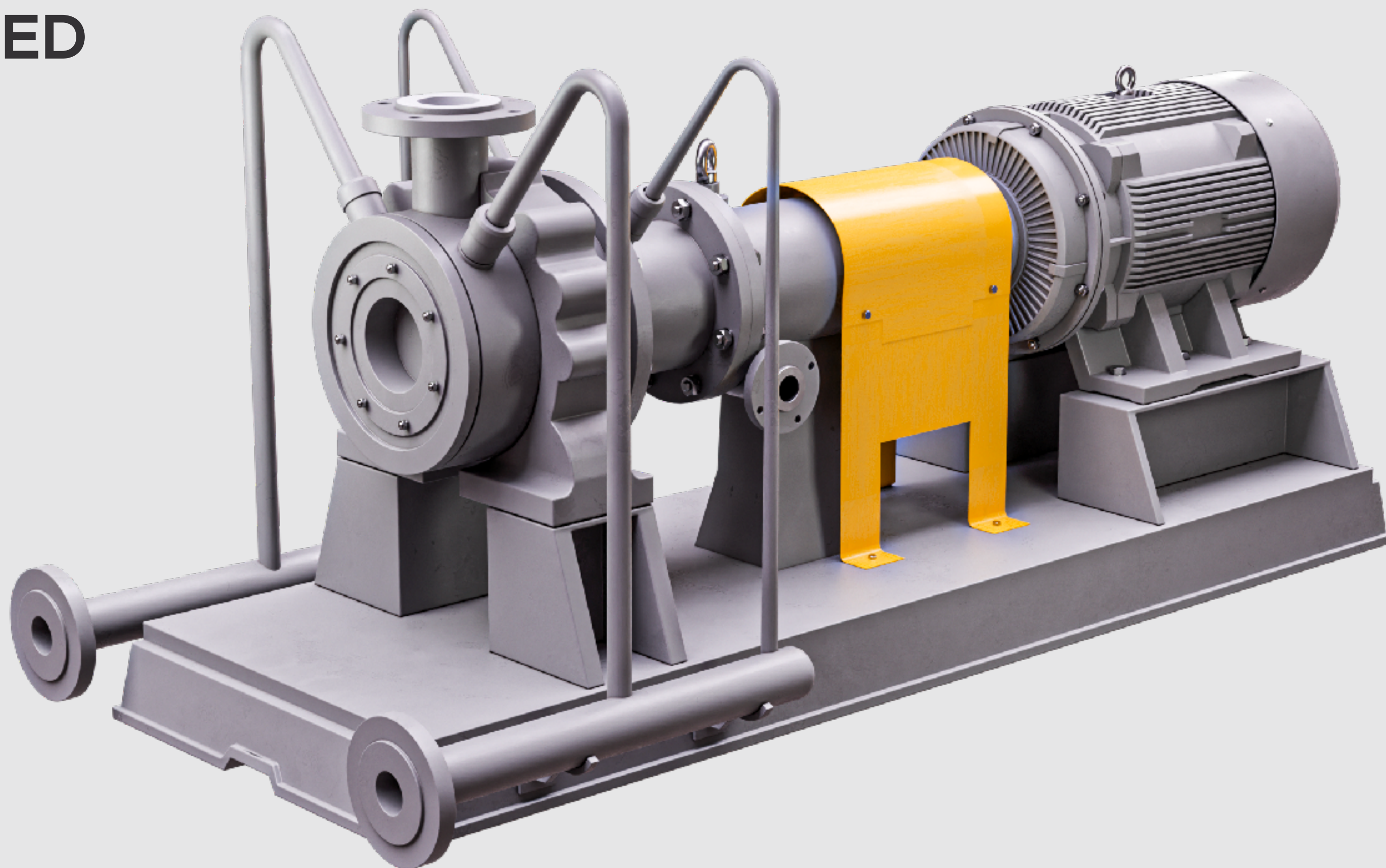
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16. OH1, WITH SUPPORT. FOR TRANSPORTING AN EASILY CRYSTALLIZED MEDIUM

With foot support and center installation.

With automatic axial force balancing technology
and insulation design.

It is used to transport **easily crystallized media.**



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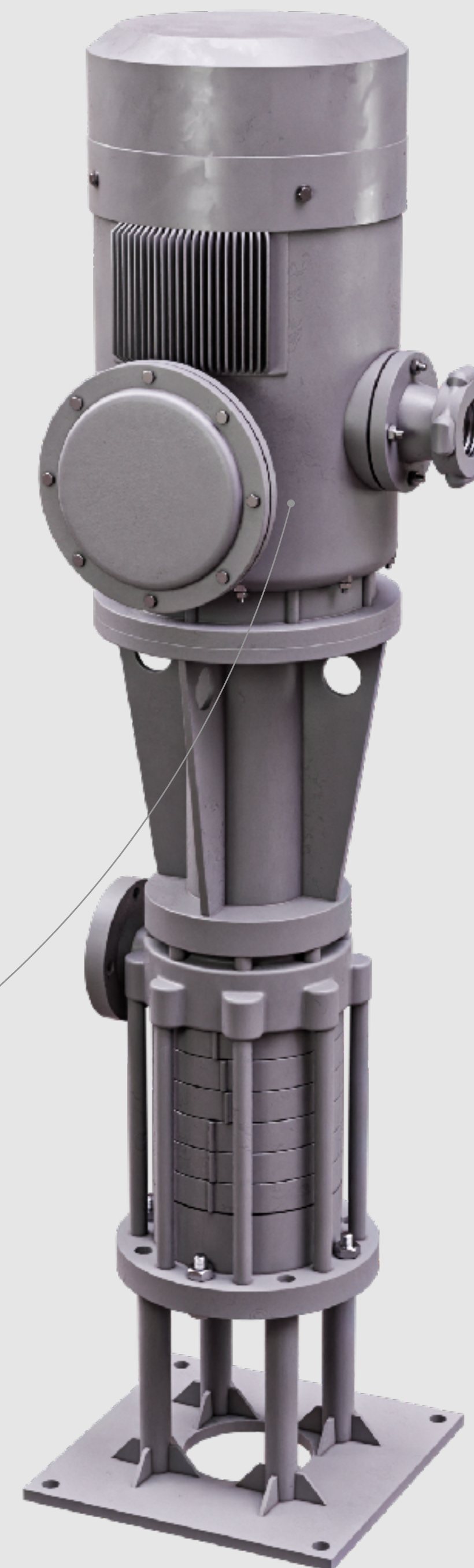
17. VERTICAL MULTI-STAGE MAGNETIC PUMP

Vertical multi-stage magnetic pump.

With automatic axial force balancing technology.

This type of pump is suitable **for conditions with low cavitation reserve NPSH.**

These pumps have a wide range of flow and high pressure.



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18. VERTICAL PIPELINE PUMP

Single stage, single suction and vertical pipeline magnetic pump.

It is a single-stage magnetic pump **with one suction and vertical pipeline.**

It has compact design, with pump input and outlet on the same line.

Vertical installation is suitable for conveying the medium under pressure through **the pipeline.**



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19. SEMI-SUBMERSIBLE

Single stage, single suction
and vertical long shaft semi-submersible structure.

The pump has a **single-stage design with single suction** and
vertical long barrel submerged in liquid.

Each support tube is supported by a sliding bearing and
notably that the slide bearing is **made of graphite or PEEK.**

Maximum immersion depth can reach **10 meters.**



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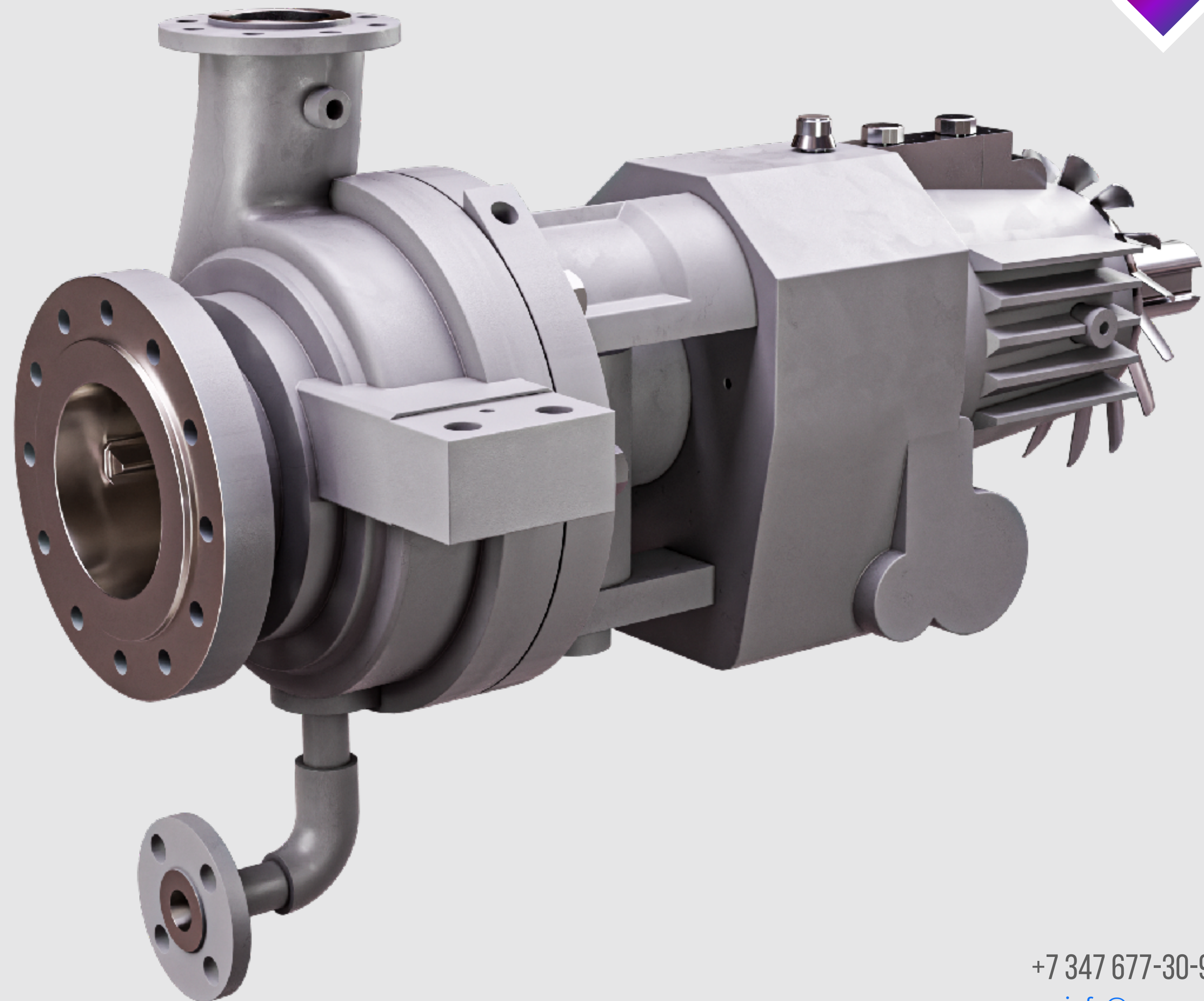
20. OH2



Horizontal single stage cantilever centerline-mounted pump (type OH2).

Bearing housing absorbs loads acting on pump shaft and supports the horizontal position of the pump body.

Type OH-2 as per API-610 **fully meets the API standard requirements** and is recommended to use with high temperatures liquids or under high pressure conditions.



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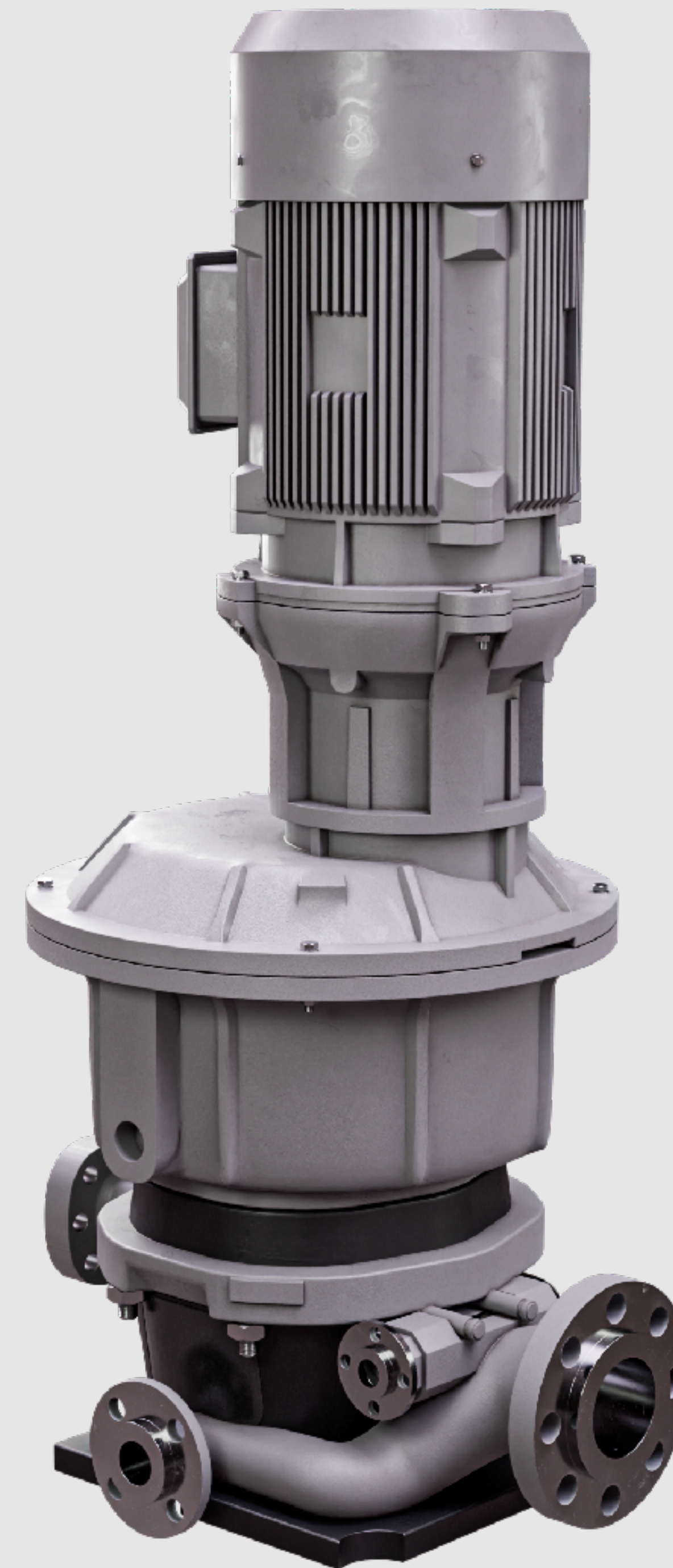
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21. OH6

High-speed, **driven through an intensifier** single stage pump (type OH6). The pumps are equipped with a multiplier to increase the impeller rotation speed. The impeller is mounted on a single shaft with the multiplier.

There is no coupling between multiplier and pump part, however the multiplier is connected to the engine through an elastic coupling. The pump is used **for transportation of hydrocarbons, chemical products and process fluids.**

Pumps provide high pressure, **maximum low cavitation values (NPSH)**. Housing connector allows easy installation and repair of pump. Material versions of carbon, stainless, chromium, monel and other steels are available upon customer request.



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22. BB2

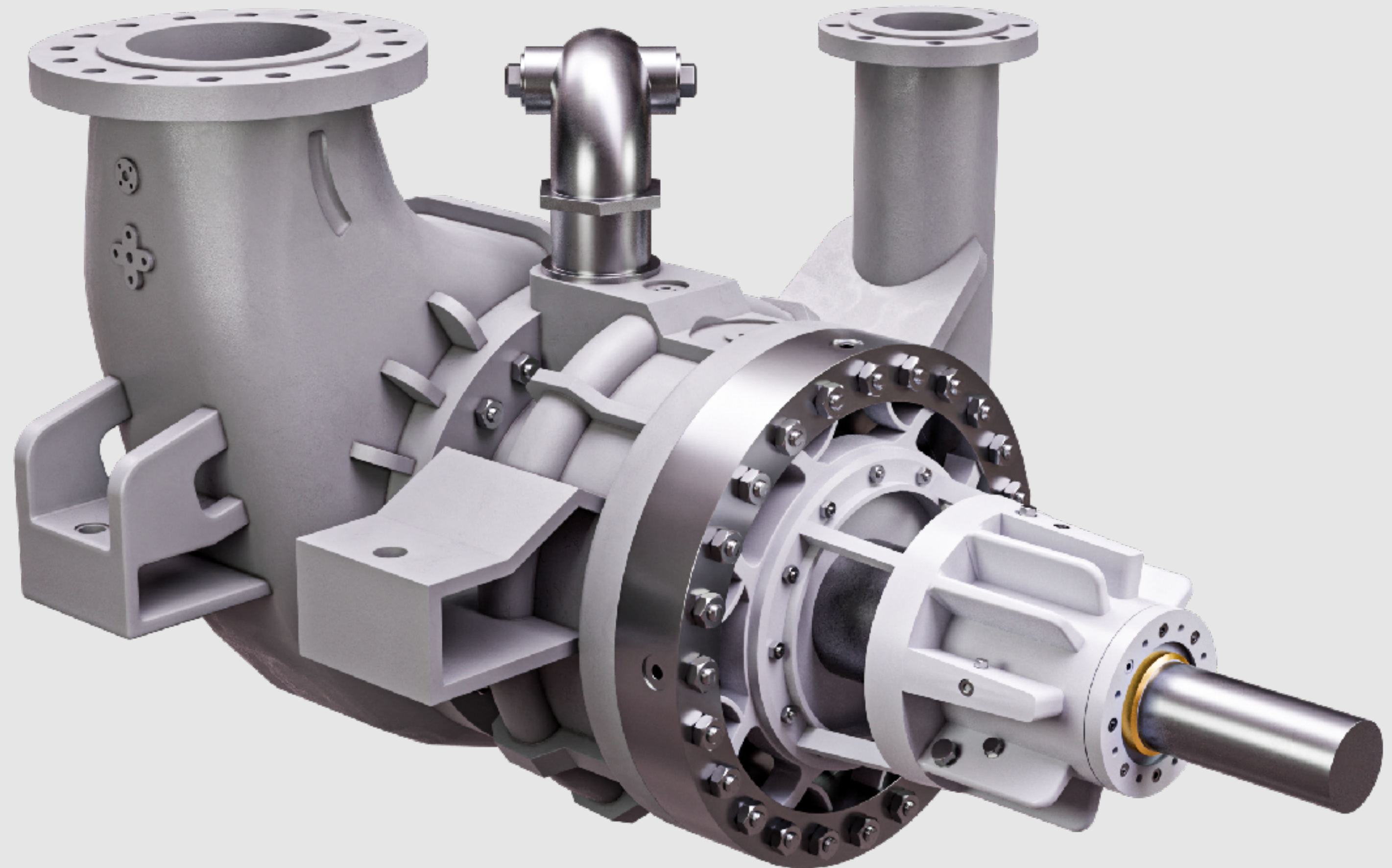


Horizontal two-stage pump with radial housing connector (type BB2).

Pumps are used in chemical and petrochemical industry for transportation of hydrocarbons, natural gas, kerosene, heavy gas oil, heating oil etc.

These pumps have low cavitation reserve and high efficiency.

Very suitable for high temperature environments. Material versions of carbon, stainless, chromium, monel and other steels are available upon customer request.



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23. BB3

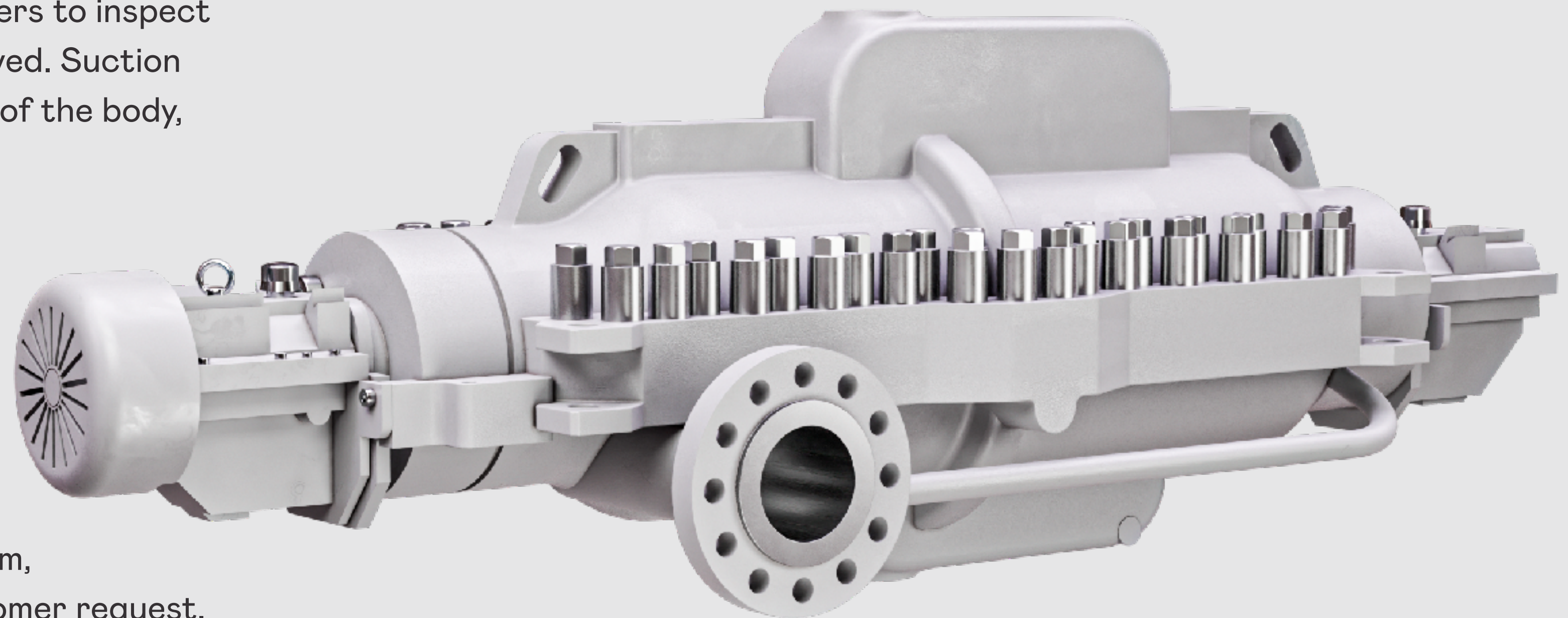


Axially split multistage pump with housing between bearings, two-bearing pump (type BB3).

The pump has an axial structure that allows users to inspect all parts inside the pump when the top is removed. Suction and pressure pipes are installed at the bottom of the body, which saves maintenance time and costs.

Wide coverage of parameters provides a wide range of choices for customers. The pump has good cavitation stability, wide efficiency range, good reliable performance and **high energy efficiency**.

Material versions of carbon, stainless, chromium, monel and other steels are available upon customer request.



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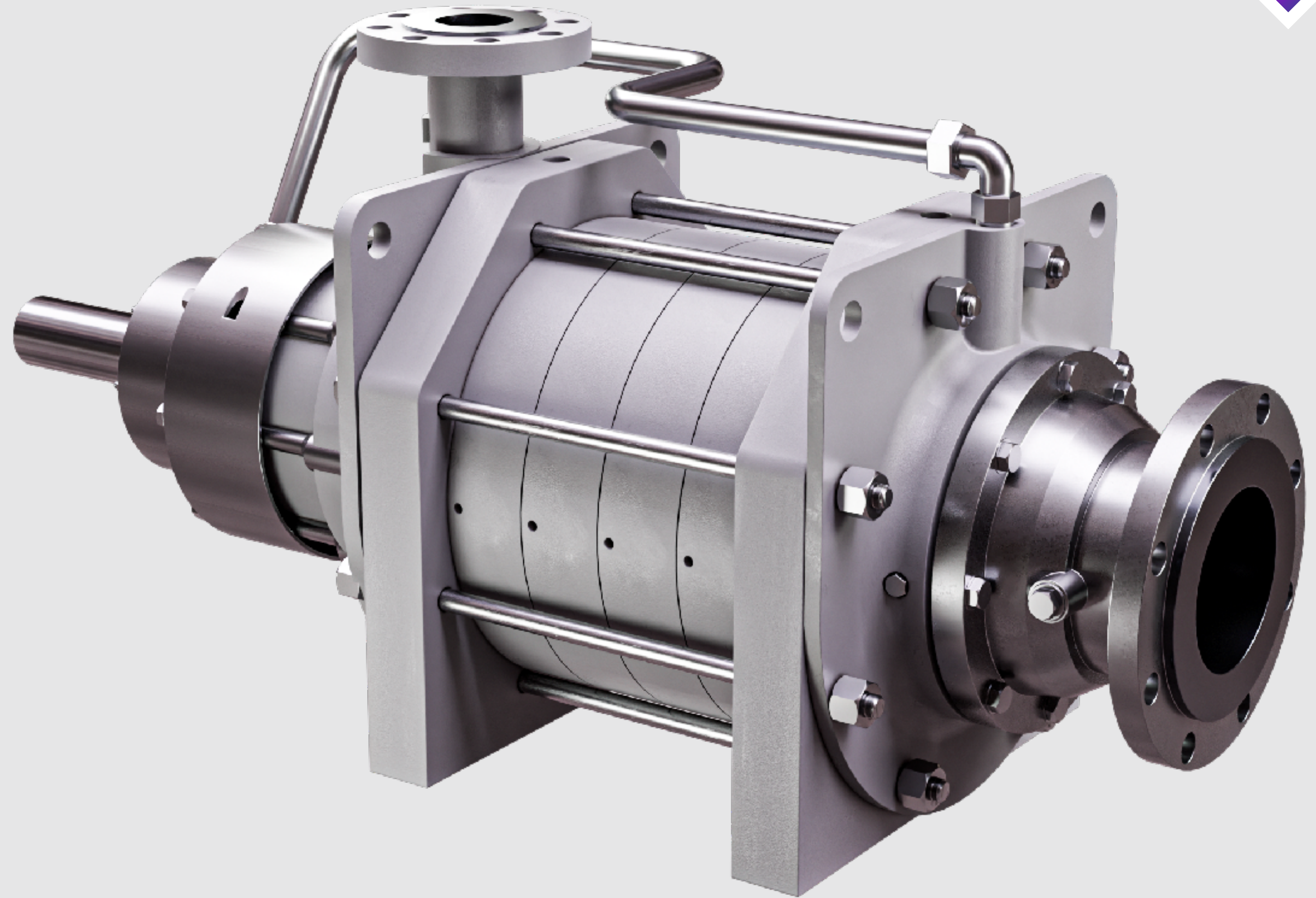
24. BB4



With radial housing connector multi-stage pump with housing between bearings (type BB4).

These pumps are sectional. They have potential leakage sites between each section.

The advantage of this type of pumps is their relatively low cost. **Pumps are used for water transport, in boiler power systems, for water injection into the fields, for maintaining reservoir pressure, etc.**



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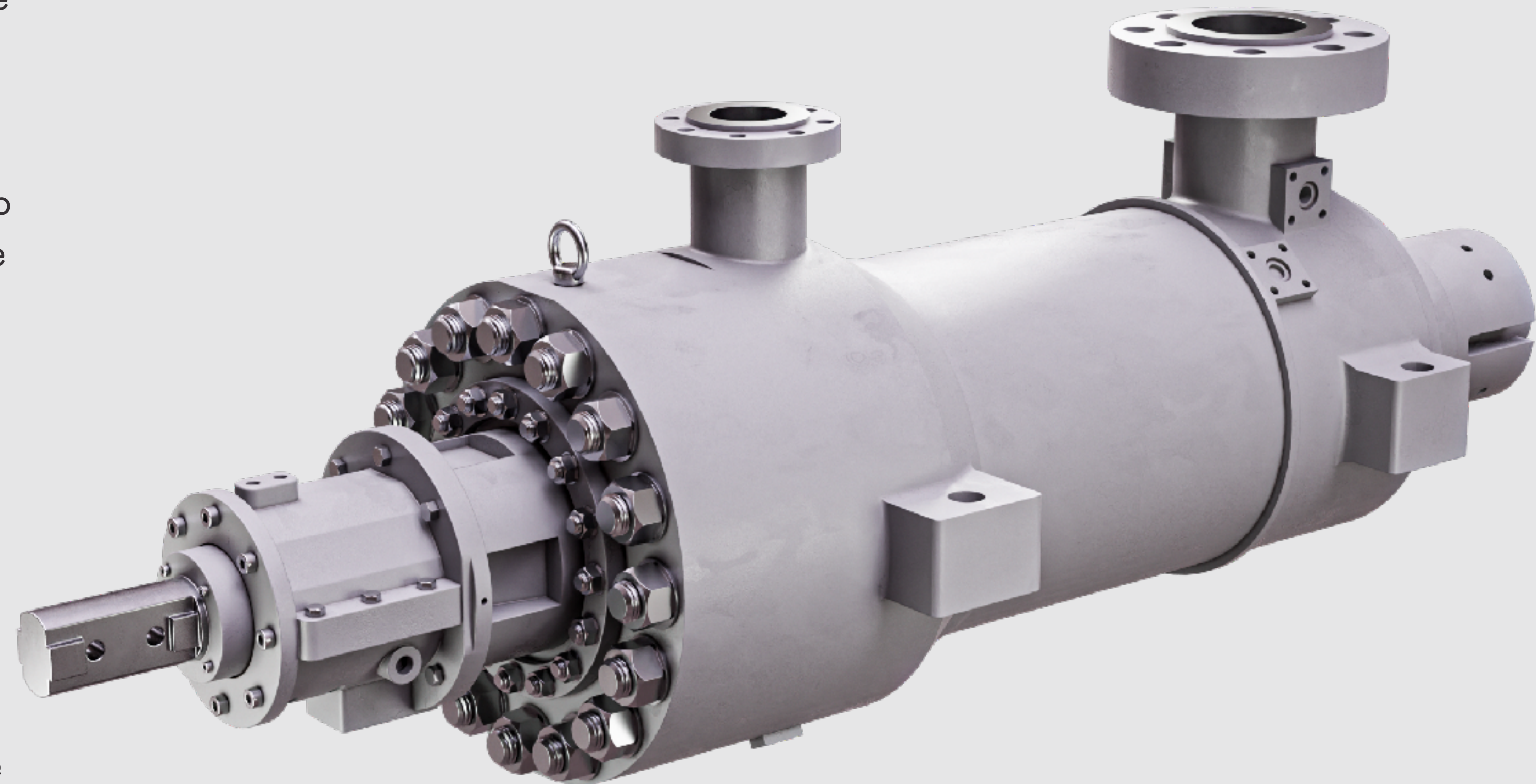
25. BB5



Barrel casing with radial housing connector, multi-stage pump with housing between bearings (type BB5). Pumps are designed **to inject water into the oil reservoirs to artificially maintain pore pressure during oil, gas and condensate extraction**, as well as to create high pressure during oil, gas and gas condensate preparation and processing, in oil and gas chemistry processes.

The pump has a hydraulically unloaded rotor due to the opposite position of the working wheels fixed to the shaft by means of press plantings, insertion rings and dowels. The internal body of the pump has cartridge type, consists of sections with radial connector, «metal to metal» seal and additional rubber rings completely excluding internal fluid circulation. Due to the cartridge design, the internal housing is replaced on site without dismantling the outer casing.

Material versions of carbon, stainless, chromium, monel and other steels are available upon customer request.



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26. VS1

Semi-submersible, vertical, single body, with pumping through column pump (VS1). The pump body is a column of different heights - **from 1 to 50 meters** and more.

These pumps are used **for extraction and processing of oil and gas, in metallurgy, chemical industry, fertilizer production, power engineering.**

Pumps **operate in systems where the level of liquid is below the ground level:** pumping from underground tanks, mines, storages of petroleum products, pumping of molten salts (liquid sulphur).

Material versions of carbon, stainless, chromium, monel and other steels are available upon customer request.



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27. VS2

Semi-submersible, vertical, single spiral body, with pumping through column pump (VS2).

The pump body is a column of different heights - **from 1 to 50 meters** and more.

Material versions of carbon, stainless, chromium, monel and other steels are available upon customer request.



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28. VS4

Vertical, semi-submersible, single spiral body, direct drive pump (VS4).

Semi-submersible, vertical oil pump with one housing and spiral outlet. The pump body is a column of different heights - **from 1 to 50 meters** and more. Pump shaft can consist of parts. These pumps are used in the **chemical industry, petrochemical industry, for fluids prone to crystallization and fluids with solid inclusions.**

For this purpose, a filter is installed on the suction.

The pump **can operate on the heaviest modes.** Material versions of carbon, stainless, chromium, monel and other steels are available upon customer request.



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29. VS5

Vertical, semi-submersible, cantilever pump (VS5). The pump can be equipped with steam or electric heating system.

These pumps are used in the chemical industry, petrochemical industry, for pumping fluids prone to crystallization and fluids with solid inclusions, for pumping hydrocarbons. For this purpose, a filter is installed on the suction.

The pump can operate on the heaviest modes. Material versions of carbon, stainless, chromium, monel and other steels are available upon customer request.



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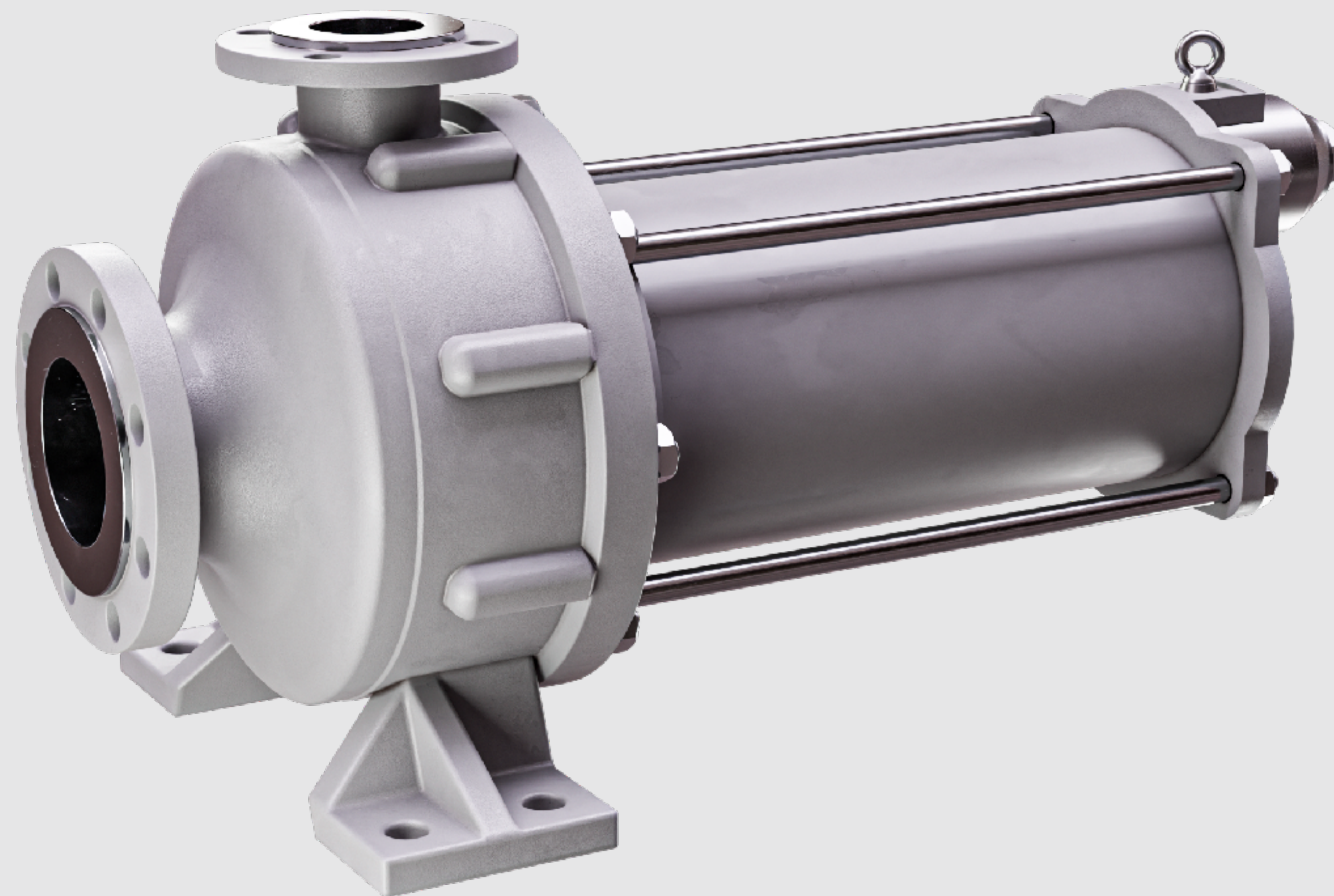
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30. SEALED PUMPS WITH CARTRIDGE ELECTRIC MOTOR



Canned motor pumps are used for industries where highly aggressive, explosive, fire-hazardous media are present. The advantage of such pumps is the absence of shaft sealing through which leakage is possible. The engine housing acts as a leak-proof component, also providing low noise level. The drive is electromagnetic with a shielded motor. These pumps are compact and seamless. This type of pumps is used for extremely hazardous liquids such as **hydrofluoride, monochloric acetic acid, chlorine, ammonia, amines, ethylene, ethane, propylene** etc.

Material versions of carbon, stainless, chromium, monel and other steels are available upon customer request.



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