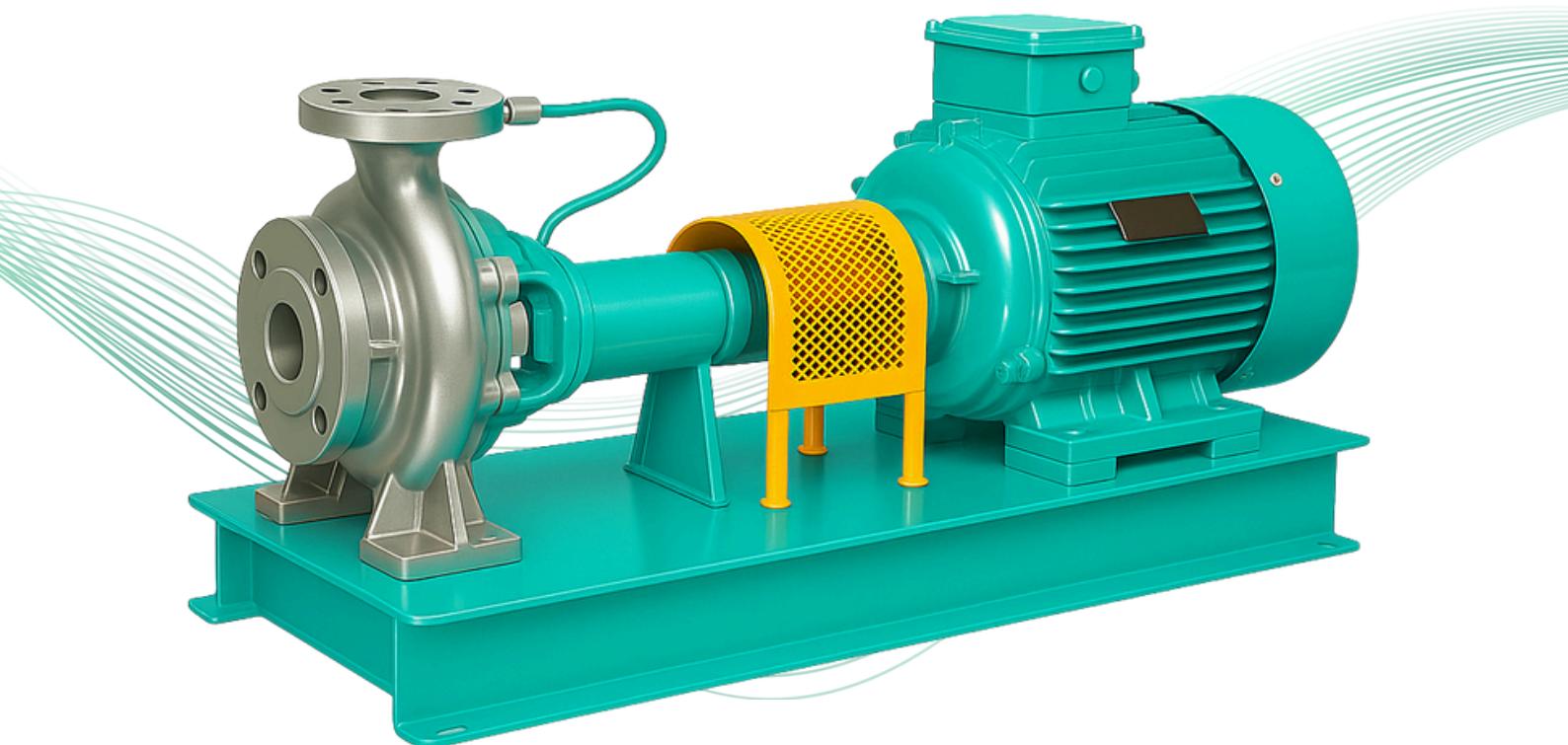




ChemNorm (TchemX)

Centrifugal pumps according to ISO 5199 and ISO 2858 / EN 22858 (DIN 24256)



ChemNorm

Inherent Reliability!

- The TRANSPUMPSERV ChemNorm series features a modular architecture, comprising single-stage centrifugal pumps with a high level of component interchangeability. This design enables flexibility, efficiency, and streamlined maintenance across diverse pump configurations.
- The ChemNorm pump series encompasses a wide range of centrifugal pumps, available in horizontal, vertical, and submerged configurations. Designed with adherence to multiple industry standards, including: EN 733 (DIN 24255), EN 22858 (ISO 2858 / DIN 24256), ISO 5199, API 610.

ChemNorm, a flagship product from TRANSPUMPSERV GLOBAL PVT LTD, is a modular system of single-stage centrifugal pumps designed for the chemical industry.

Key features include:

- **Modular Design:** High interchangeability of parts between pump constructions
- **ISO-Compliant:** Designed to ISO 2858/EN 22858 (DIN 24256) and ISO 5199 standards
- **Versatile:** Suitable for handling low-viscosity, clean or slightly contaminated liquids
- **Wide Range of Options:** Various shaft sealings, bearing constructions, and materials (stainless steel, bronze, nodular cast iron, cast iron)
- **Leak-Free Option:** TMag magnetic coupled centrifugal pump for chemical industry applications



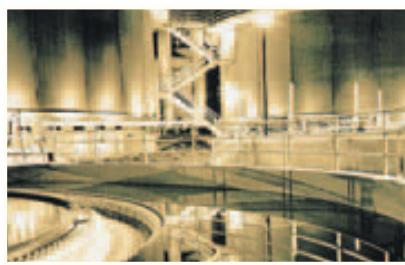
Application Scope :-

Turning Know-How into Innovative Solutions



Industrial Sector:-

The ChemNorm is engineered to meet the demanding needs of chemical industries, with a design that fully complies with the ISO 5199 standard. This ensures that the pump's technical specifications align with the requirements of ISO 2858/EN 22858 (DIN 24256), making it an ideal choice for chemical processing applications.

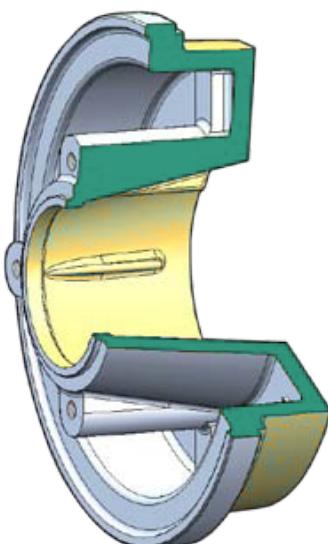
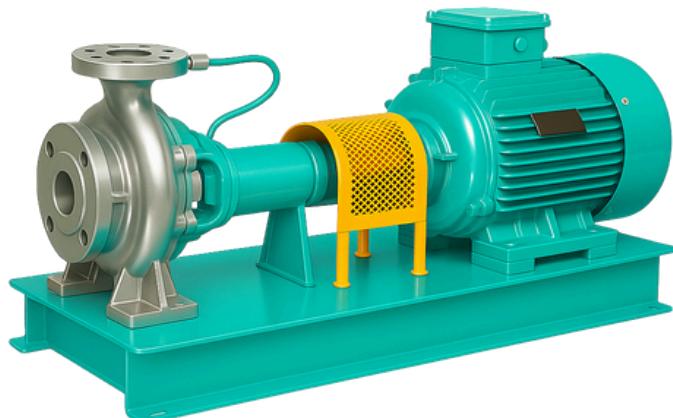


Utility:-

TchemX durable design, versatile materials, and flexible sealing options make it a dependable pump for general industry applications. Its adherence to international standards (ISO 2858, ISO 5199, and EN 22858/DIN 24256) guarantees optimal performance and reliability.

Product Advantages

1. Standard Seals: EN 12756 (DIN 24960) compliant
2. Seal Flexibility: Single and double cartridge seals
3. Wide Application Range
4. Multi-Material Options
5. Reduced Inventory: 4 bearing brackets for the whole range
6. Easy Maintenance: Back Pull Out principle
7. Customizable Covers: Cylindrical and tapered bore options



Enhanced Mechanical Seal Life:-

The ChemNorm pump features a conical seal chamber that improves seal durability by diverting abrasive materials and enhancing heat dissipation. The ribbed chamber design also eliminates vortex formation, contributing to increased seal reliability and lifespan.

Enhanced Pump Performance:-

- Streamlined Volute Design
- Smooth Surface Finish
- Minimized Internal Losses
- High-Efficiency Performance

Flexible Material Options:-

Our pump is crafted from various materials to suit your needs:

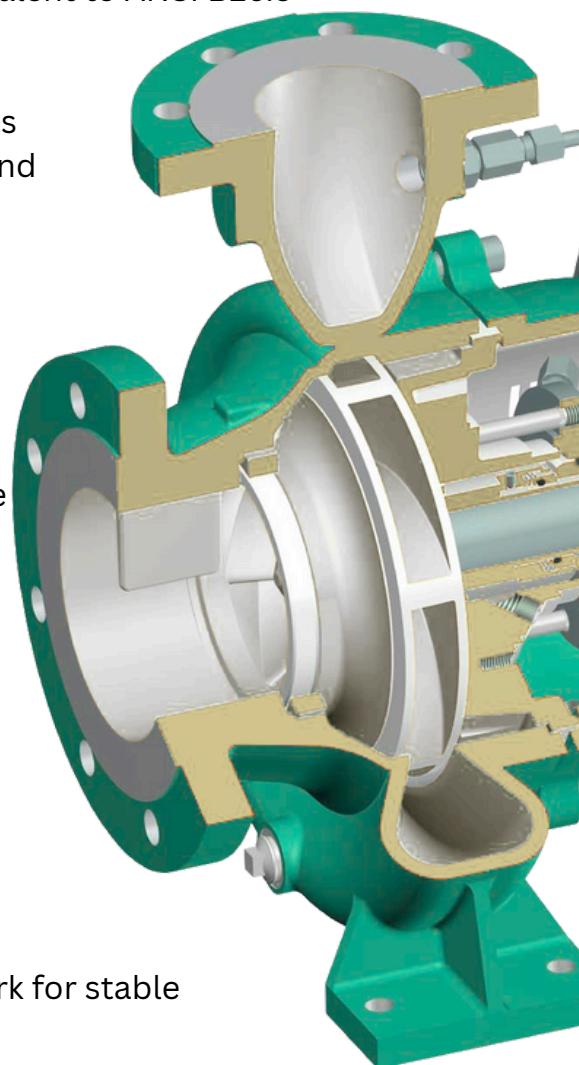
- Standard options: Cast Iron, Nodular Cast Iron, Bronze, and Stainless Steel
- Special request option: Duplex

Optimized Suction Performance:-

- Smooth suction entry
- Optimal NPSH values
- Anti-rotation vane for stable flow
- Low turbulence surfaces
- Reduced flow distortion

Robust Pump Casing:-

- Standardized Flanges: ISO 7005 PN 16 or PN 20 (equivalent to ANSI B16.5 150 lbs)
- High Working Pressure: Up to 16 bar
- Versatile Applications: Suitable for a wide range of uses
- Efficient Drainage: Large drain opening for complete and fast draining of the casing



Impeller Fastening:-

- Stainless Steel Cap Nut: Durable and corrosion-resistant
- Flat Gasket: Ensures a tight seal
- Reliable Locking: Securely fastens the impeller in place

Impeller Back Vane Benefits:-

- Improved Seal Performance through circulation flow
- Extended Bearing Life through reduced load
- Protection of Shaft Seal by keeping solids away

Stable Foot Mounting:-

- Machined for Precision
- Accurately Positioned on the baseplate and in pipework for stable operation

Robust Shaft Design:-

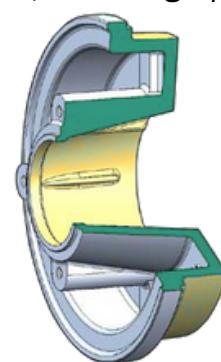
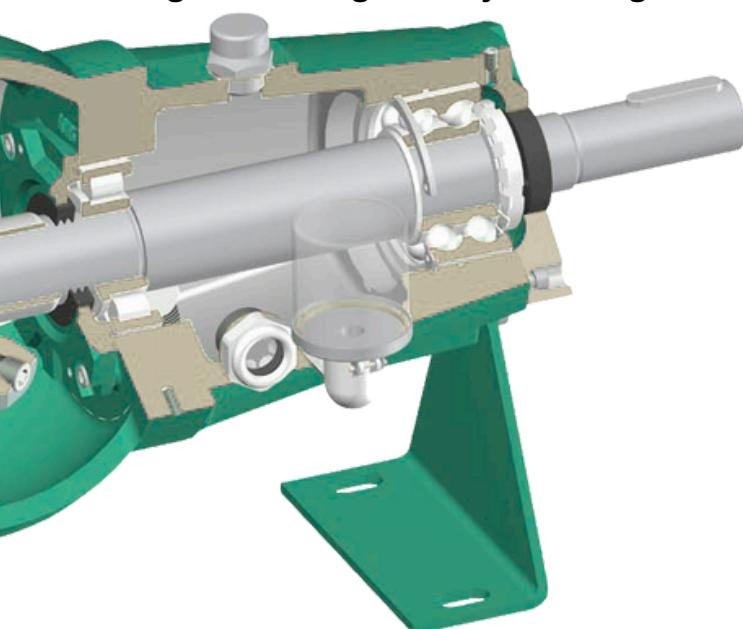
- High-Quality Materials: Stainless steel or steel alloy for strength and durability
- Precise Design: Minimal shaft deflection (0.05 mm) near the seal, extending seal life
- Shaft Sleeve: Ensures co-rotation of the shaft with the impeller
- Dry Shaft: Designed to prevent contact with the pumped liquid, reducing maintenance needs

Versatile Shaft Sealing Options:-

- Multiple Mechanical Seal Options: 7 EN-seal and cartridge seal choices
- Customizable Sealing: Various combinations of sealing rings and elastomers
- Quench and Flush Connections: Integrated into the sealing cover
- Gland Packing Options: 3 configurations, including cooling cover
- Wide Applicability: Suitable for diverse applications, liquids, and high temperatures
- Tapered Bore Seal Chamber: With or without flush plan, ensuring optimal sealing performance

Reliable Oil Lubrication System:-

- Oil Bath Lubrication for smooth operation
- Constant Level Oiler for consistent lubrication
- Convenient Breather/Filling Plug for maintenance
- Oil Sight Glass for easy monitoring
- Large Drain Plug for easy oil changes



Tapered bore seal chamber option

Robust Bearing Design:-

- Extended Bearing Life: 17,500 hours or more across the Q-H curve
- Reliable Lubrication: Oil bath or grease lubrication options
- Secure Bearing Lock-up: Shaft nut with lock washer ensures stability
- Rigid Bearing Bracket: Cast iron construction minimizes bearing movement
- Adjustable Clearances: For half-open impeller and wear plate, ensuring optimal performance

Advanced Pump Cover Design:-

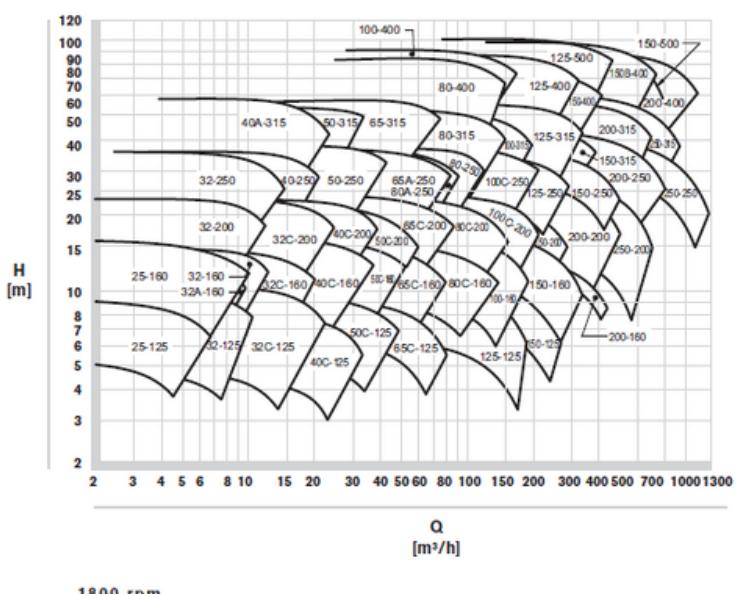
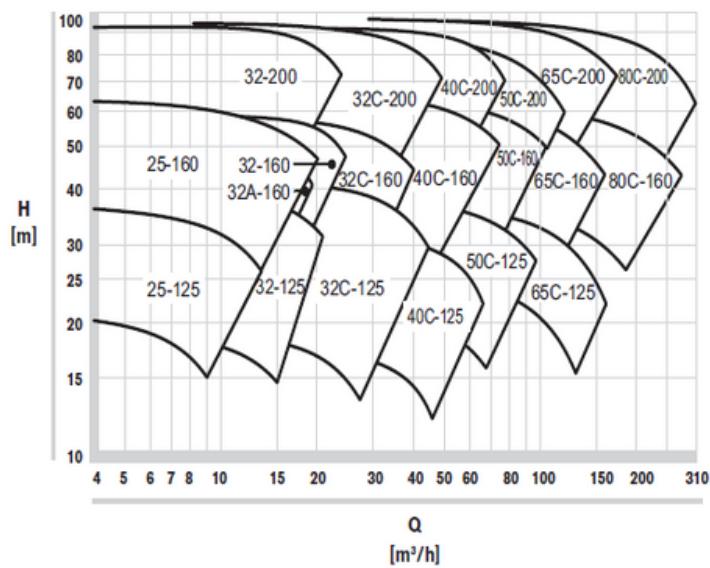
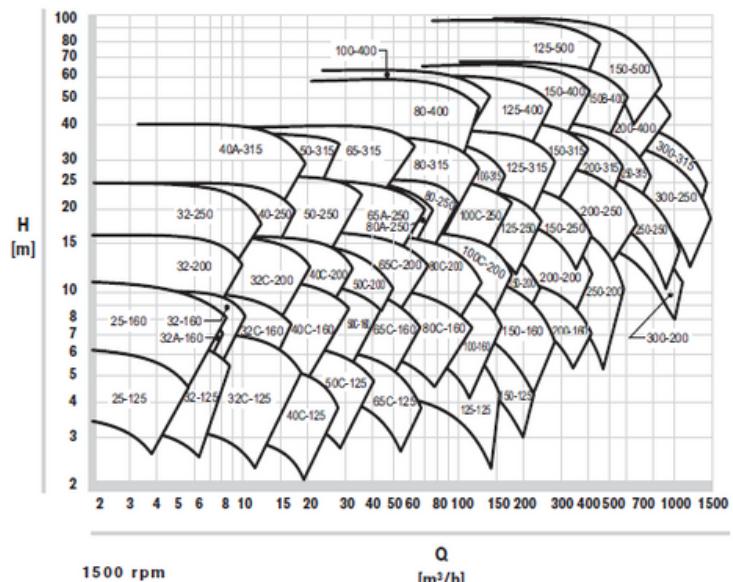
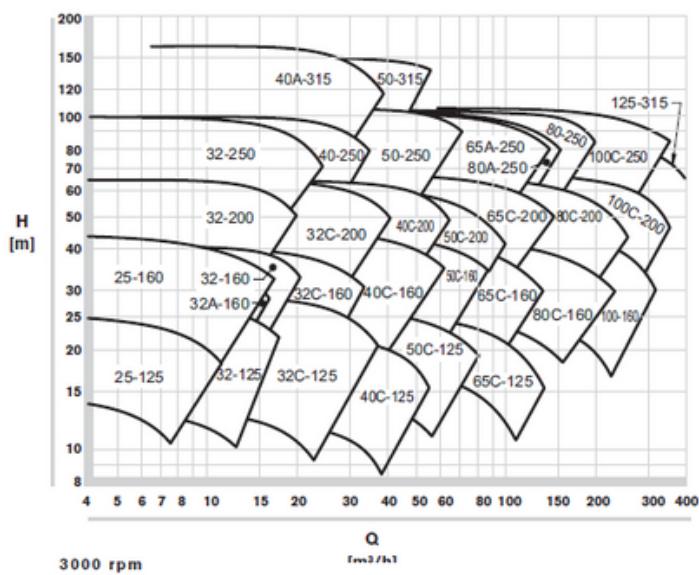
- Quick and Easy Maintenance through Back Pull Out principle
- Reduced Downtime for impeller replacement and seal maintenance
- Cost-Effective through reduced maintenance costs and longer-lasting components
- Easy-to-Replace Parts (cartridge seals, wear rings)
- Standardized Mechanical Seals (EN 12756/DIN 24960) for ease of replacement

- Secure Gasket System (flat gasket, fully chambered) to prevent blow-outs
- Tapered Bore Seal Chamber with flow-guiding ribs for optimal seal performance
- Improved Heat Dissipation for extended seal life
- Machined Fits for precise alignment
- Integrated Seal Chamber (stuffing box/mechanical seal) with cylindrical bore

Technical Data:-

Max. capacity	:-800 m ³ /h
Max. head	:-160 m
Max. working pressure	:-1600 kPa (16 bar)
Max. temperature	:-50 °C up to +200 °C
Max. speed	:-3600 rpm

Hydraulic Performance Data:-



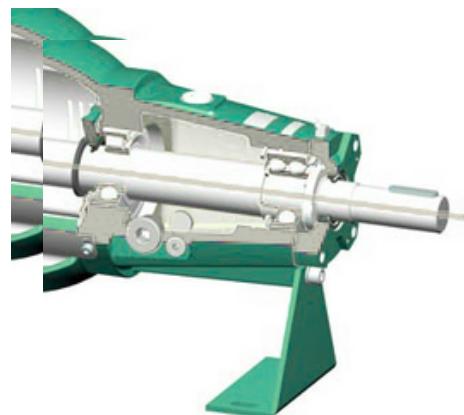
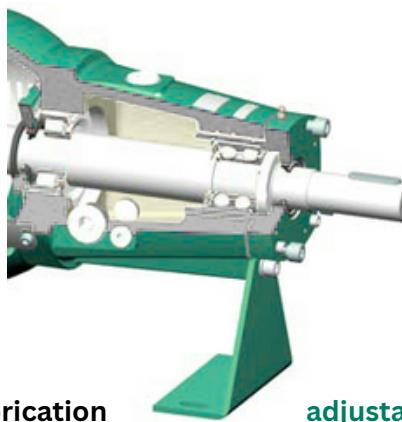


ChemNor

Bearing The ChemNorm has 2 bearing

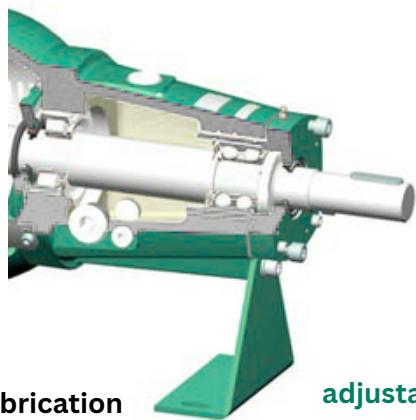
1. two deep-groove ball bearings (grease lubricated “sealed for life”) Centrifugal pump according to EN 733 (DIN 24255)
2. a double-row (two single – bearing group 4) angular contact ball bearing in combination with a roller bearing

Both versions can be provided grease lubricated as well as oil lubricated.



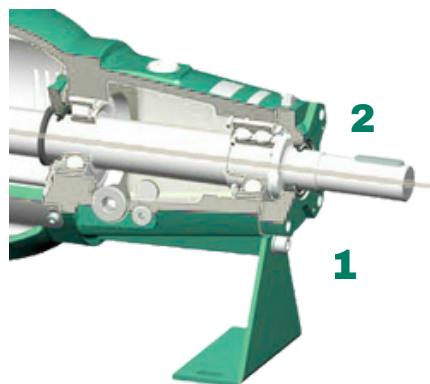
Grease lubrication

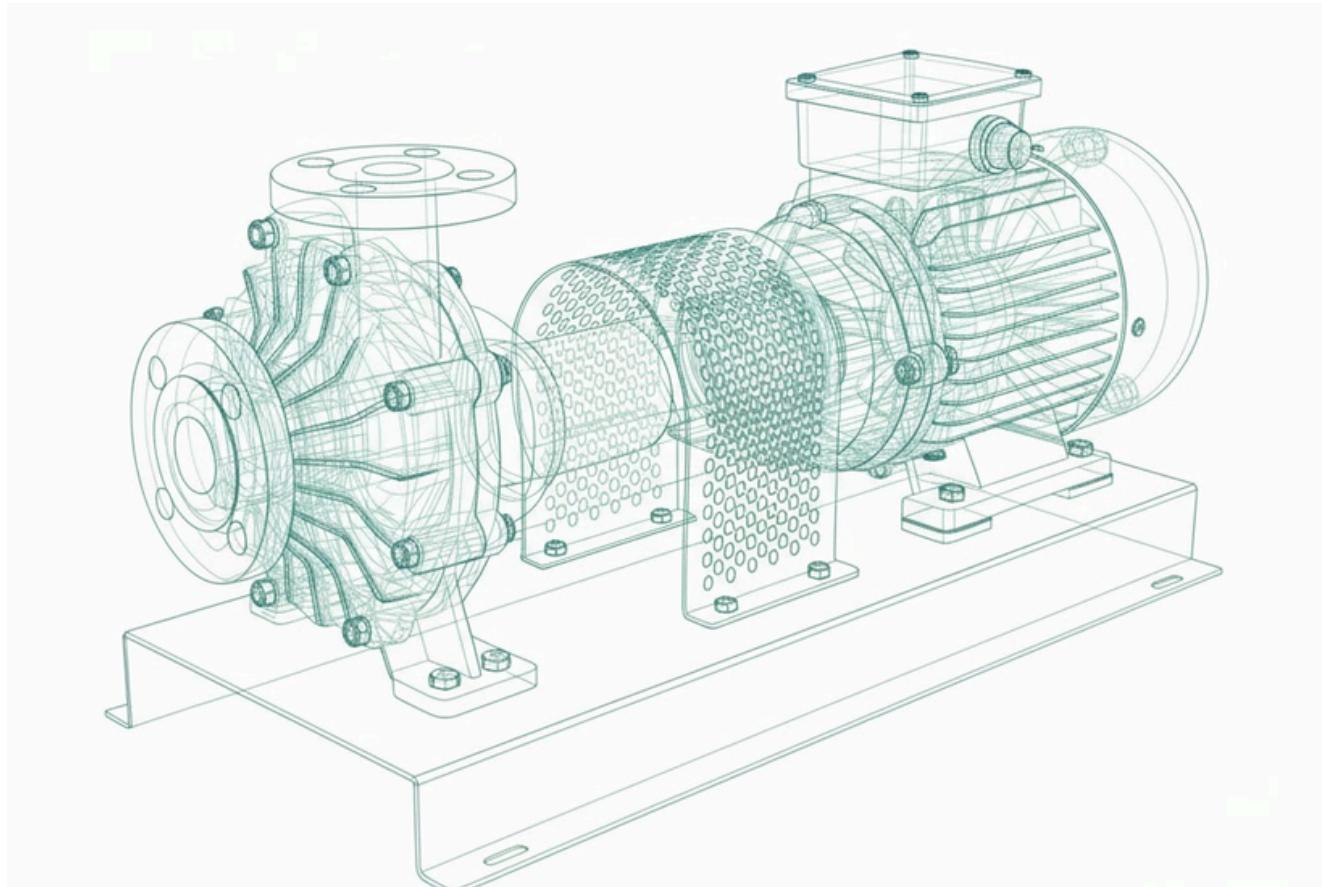
adjustable



Oil lubrication

adjustable





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