

Cam Rotor Pump

This cam rotor pump is composed of a cam rotor, shaft seal, and gearbox. Synchronous rotating gears drive the cam rotor to rotate, enabling the transmission of media.



Product Overview



External view of the 3RP series cam rotor pump showing the robust housing and flanged connections.

High-Efficiency 3RP Series Cam Rotor Pump

The 3RP series is a rotary volumetric pump engineered for high efficiency and a long service life across diverse industrial applications. It is specifically designed to handle suspended liquids containing solid particles, as well as media with high corrosive or hygienic requirements. With the ability to adjust rotor clearance without removing the gearbox, this pump offers exceptional ease of maintenance for professional operators.

Technical Performance

Key Performance Metrics

200 °C

Max Temperature

-30 °C

Min Temperature

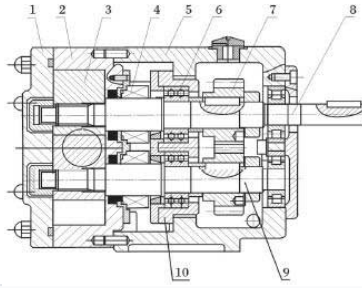
Operating Viscosity

30 to 1.0×10^5 cSt

Rotation Direction

Clockwise (from motor to pump)

Construction & Materials



Cross-section illustrating the internal components including the cam rotor and shaft assembly.

Main Components

- Cam rotor
- Shaft seal
- High-strength cast iron gearbox
- Spiral gear
- Heavy load bearing

Material Specifications

Component	Material / Type
Wetted Parts	Stainless Steel
Standard O-ring	Silicone Rubber
Corrosive Media O-ring	Polytetrafluoroethylene (PTFE)
Gearbox	High-strength Cast Iron

Available Shaft Seals

Packing Seal, Mechanical Seal

Applications



The 3RP pump is designed for demanding industrial environments including chemical and food processing.

Target Industries

Food • Beverage • Wine • Medicine • Daily Chemical • Petrochemical

Suitable Media

- Viscous liquids
- Shear-sensitive fluids
- Liquids with solid particles
- Corrosive media
- Hygienic grade fluids