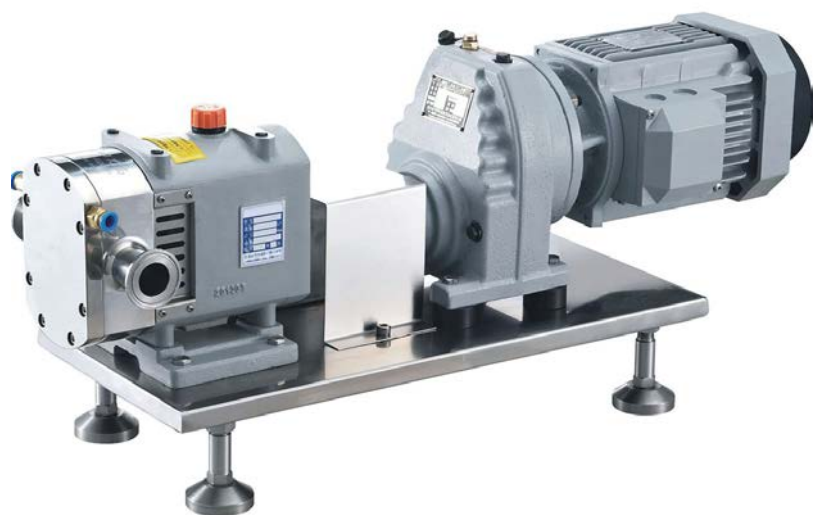


ROTAMAC

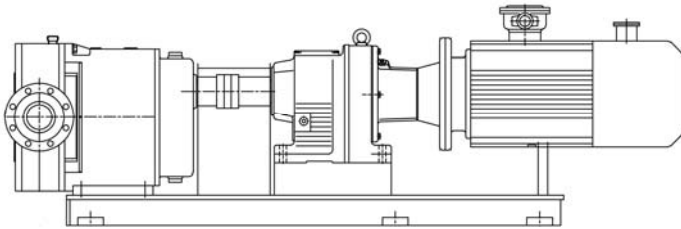
ROTAMAC RLL
Rotary Lobe Pumps



ROTAMAC

INTRODUCTION

This data booklet deals with RLL model, viscous fluids rotary lobe pump solutions for the most food, chemical and pharmacy applications



The RLL pump is a positive displacement rotary lobe pump with sanitary design suitable for use in the dairy, food-processing, beverage, cosmetics, pharmaceutical and fine chemicals industries.

This lobe pump is perfect for managing all kinds of fluid, of either low or high viscosity, as well as for filtering and bottling applications. Products containing fragile solids such as curd can be pumped without damage thanks to the specially designed lobes.

APPLICATIONS

The RLL rotary lobe pumps are used for industrial high viscous fluids application to ensure process reliability, high efficiency and low operating costs.

- Milk, fruit juice, syrup, beer, edible oil
- Face cream, shampoo, toothpaste, skin gel
- Gasoline, diesel, kerosene, crude oil
- Fat, solvents, resins, adhesives, latex,
- Extracts, emulsions, pills slurry
- Mud, manure, fertilizer solution, sewage
- Paints, coatings, organic solvents,

MATERIAL AND CONSTRUCTION

- Fluid in contact only with stainless steel AISI-304, 316, or 316L
- Single or double mechanical seal in different kinds of materials SiC/WC, SiC/SiC or WC/WC
- Oil lubrication
- Clamp connections, flanges, etc
- Ease of disassembly and cleaning
- Heating chamber on pump cover in options

TYPICAL ROTORS AND APPLICATION FEATURES



Tri-Lobe Rotor Pump

Especially suitable for the mediums that are easy to foaming or may be damaged during high-speed transportation. Output materials has been steadily delivered and its components will not be destroyed.

Butterfly Rotor Pump

It is superior to other rotor pump when transferring material with high viscosity, large powered or effectively transports extremely stiff material. Output material has been steady delivered and its components will not be destroyed.

Single Lobe Rotor Pump

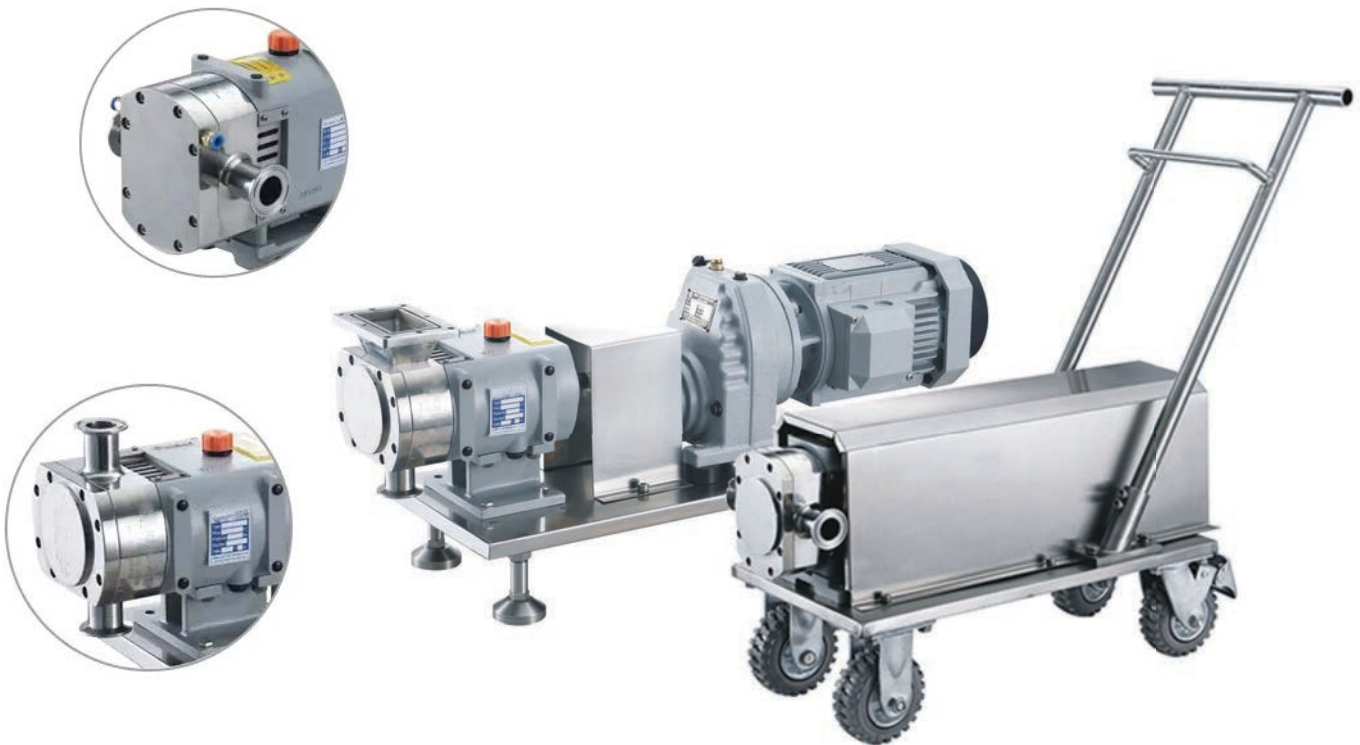
This pump is especially for material with large particles.

RLL Series, Rotary Lobe Pumps

PUMP PERFORMANCE

Model	Capacity	Flow	Speed	Max. Press.	Viscosity	Power	Connection	
	Litres / R	m ³ / hr	rpm	MPa	cP	kW	Hoop	Flange
RLL 1	0.05	0 ~ 1	40 ~ 700	1.0	1 ~ 500000	0.25 ~ 1.5	1"	DN20
RLL 2	0.10	0.2 ~ 2	40 ~ 700	1.2	1 ~ 500000	0.55 ~ 2.2	1.25"	DN25
RLL 3	0.17	0.4 ~ 3	40 ~ 500	1.5	1 ~ 1000000	0.75 ~ 3.0	1.5"	DN32
RLL 5	0.26	0.6 ~ 5	40 ~ 500	1.5	1 ~ 1000000	1.5 ~ 5.5	2"	DN40
RLL 8	0.46	1 ~ 8	40 ~ 450	1.5	1 ~ 1000000	2.2 ~ 11	2.5"	DN50
RLL 12	0.70	1.6 ~ 12	40 ~ 450	1.5	1 ~ 1000000	3.0 ~ 15	2.5"	DN50/65
RLL 20	1.20	2.8 ~ 20	40 ~ 400	1.5	1 ~ 1000000	4.0 ~ 18.5	3"	DN65/80
RLL 35	2.10	5 ~ 35	40 ~ 400	1.5	1 ~ 1000000	7.5 ~ 30	4"	DN100
RLL 55	4.20	10 ~ 55	40 ~ 350	1.5	1 ~ 1000000	11 ~ 45	-	DN125
RLL 80	6.70	16 ~ 80	40 ~ 350	1.5	1 ~ 1000000	15 ~ 75	-	DN125/150
RLL 120	11.00	26 ~ 120	40 ~ 300	1.5	1 ~ 1000000	22 ~ 90	-	DN150

CUSTOMIZED SOLUTIONS



V Shape Inlet - Vertical Inlet / Outlet - Heating /Cooling Jacket - Hand cart with base frame and wheels

ROTAMAC

- Standardized End Suction Pumps
EN733/DIN24255, ISO2858/ISO5199
ASME B73.1, API610
- Split Casing Double Suction Pumps
- Solid Handling Pumps
Slurry/Vortex/Semi-open/Open/Non clog
- High Pressure Multi-Stage Pumps
- Self-Priming Pumps
- Submersible Pumps
- Close Coupled Pumps
- Vertical Multi-Stage / Immersible Pumps
- Vertical Sump Pumps
- Vertical Turbine Pumps
- Mixed / Axial Flow Pumps
- Liquid Ring Vacuum Pumps
- Chemical Process Plastic Pumps
- Fire Fighting Pump Packages (NFPA20)
- Booster Pump Packages
- Trailer Mounted Pumps

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ROTAMAC can help relieve the stresses and reduce the life cycle costs associated with the most important aspects of plant operation.

Dedicated to delivering the highest quality support, ROTAMAC services and solutions integrates hydraulic, mechanical and materials engineering knowledge with creative solutions to improve equipment reliability and system performance, reduce energy consumption and improve the safety and environmental impact of operations.

Pump Services and Repair



Capabilities Overview

Design

- Equipment Selection and Optimization
- Material Selection
- System Design
- System Optimization

Start-up

- Equipment Installation
- Laser Alignment
- Commissioning and Running test
- Operator Training
- On-site Project Supervision
- On-site Troubleshooting

Operation and Maintenance

- Equipment Inspection
- Repair & Overhaul
- Advanced Diagnostics
- Service Maintenance Contracts