

Internal Gear pump



“RMIG Series”

Rotomake Internal Gear Pumps are designed to deliver superior performance, maximum reliability, and smooth flow for a wide range of industrial fluid-handling applications. With precision engineering and robust construction, Rotomake pumps ensure consistent operation even with highly viscous, abrasive, or temperature-sensitive liquids.

Using an optimized internal gear design with a rotor, idler gear, and crescent, our pumps provide gentle, pulseless flow with reduced shear—making them ideal for oils, polymers, food-grade materials, chemicals, adhesives, and lubrication applications. Rotomake’s advanced gear geometry minimizes internal leakage, enhances volumetric efficiency, and ensures quiet, vibration-free operation.

Rotomake offers internal gear pumps with multiple material options such as Cast Iron, Stainless Steel, Carbon Steel, and Hardened Alloy Steel to suit varied industrial needs. We also provide steam-jacketed models for heating bitumen, chocolate, resin, and high-viscosity fluids, ensuring trouble-free pumping in demanding environments.

TECHNICAL SPECIFICATIONS

Parameter	Typical Range
Pump Type	Internal Gear Pump
Flow Range	5 – 500 LPM
Pressure Rating	Up to 14 bar (low pressure) / Up to 210 bar (high pressure models)
Speed Range	200 – 1800 RPM
Viscosity Range	1 cSt – 100,000 cSt
Temperature Range	-40°C to +250°C (with suitable seals & materials)
Mounting Type	Foot / Flange
Rotation	CW / CCW
Seal Options	Mechanical Seal / Gland Packing / Double Seal

MATERIAL OF CONSTRUCTION (MOC)

Component	Material Options
Pump Casing	Cast Iron / Carbon Steel / Stainless Steel
Rotor & Idler Gear	Alloy Steel / SS316 / Hardened Steel
Shafts	EN8 / EN19 / SS304
Crescent	Hardened Steel / SS316
Bearings	Bronze / Carbon / Teflon
Seals	NBR / Viton / PTFE / Mechanical Seal

KEY FEATURES

- Smooth, pulseless flow
- Self-priming capability
- Excellent handling of high-viscosity liquids
- Low noise and vibration
- Highly efficient at low and medium pressures

APPLICATIONS

- Oil Transfer
- Lubrication Systems
- Adhesives, Paints & Chemicals
- Bitumen & Asphalt
- Fuel & Diesel Systems
- Food-grade liquids (chocolate, syrup, edible oils)
- Hydraulic oil transfer
- High-viscosity polymer pumping

AVAILABLE VARIANTS

- Jacketed internal gear pump (for heating with steam/oil)
- Stainless steel food-grade pump
- High-temperature model
- Reversible flow model
- Customized port size & mounting