

Vacuum pump



“RMVP Series”

Rotomake Vacuum Pumps are engineered to deliver reliable, high- performance vacuum generation for industrial, chemical, pharmaceutical, and utility applications. Designed with precision manufacturing and superior mechanical integrity, our vacuum pumps ensure consistent suction performance, low noise, and long operating life.

With a focus on durability and efficiency, Rotomake vacuum pumps are built to handle challenging environments and continuous-duty cycles. Our solutions provide excellent vacuum levels, smooth operation, and easy maintenance, making them a preferred choice for industries requiring dependable vacuum systems.

Rotomake continues to serve customers with trusted technology, high-quality components, and customized vacuum systems tailored to meet diverse application needs.

TYPES OF VACUUM PUMPS

- Oil-Lubricated Rotary Vane Vacuum Pump – Provides deep, stable vacuum with smooth operation.
- Dry Vacuum Pump – Oil-free, suitable for food, pharma, and electronics.
- Liquid Ring Vacuum Pump – Uses liquid as sealing medium, ideal for moisture-laden gas.
- Roots Blower Vacuum Pump – High-speed booster pump for deeper vacuum applications.

WORKING PRINCIPLE (Rotary Vane)

A rotor placed eccentrically inside a chamber rotates. Sliding vanes create increasing volume on the inlet side, pulling air inside. As rotation continues, the air is compressed and discharged, creating the vacuum.

TECHNICAL SPECIFICATIONS

Parameter	Typical Range
Pump Type	Rotary Vane / Dry / Liquid Ring / Roots
Capacity	5 – 500 m ³ /hr
Ultimate Vacuum	Up to 0.1 mbar
Pressure Range	Atmospheric to deep vacuum
Motor Power	0.5 HP to 20 HP
Noise Level	60 – 78 dB(A)
Operating Temperature	Ambient to 80°C
Cooling Type	Air / Water cooled
Lubrication	Oil / Dry type
Duty	Continuous 24/7 operation

MATERIAL OF CONSTRUCTION (MOC)

Component	Material
Pump Body	Cast Iron / Aluminum / Stainless Steel
Rotor	Alloy Steel / SG Iron
Vaness	Carbon / Graphite Composite
Shaft	EN8 / EN19
Seal	NBR / Viton / PTFE
Impeller (Liquid Ring)	Bronze / SS304 / SS316

KEY FEATURES

- High vacuum capability
- Compact, reliable, and low noise
- Continuous-duty operation
- Low maintenance design
- High efficiency & stable vacuum
- Anti-suck back valve protection
- Moisture & vapor handling (liquid ring type)

APPLICATIONS

- Packaging machines
- Pharma & chemical processing
- Degassing, filtration & drying
- CNC and wood industry
- Food processing & preservation
- Autoclaves and sterilizers
- Printing & lamination
- Laboratory vacuum systems

AVAILABLE OPTIONS

- Oil-lubricated / Dry vacuum models
- Single-stage / Two-stage
- SS construction for corrosive gases
- Air-cooled / Water-cooled
- Noise-reduced models
- Flameproof motor option