

Vacuum Pumps Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

The global vacuum pumps market size reached US\$ 5.9 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 8.5 Billion by 2028, exhibiting a growth rate (CAGR) of 5.9% during 2023-2028.

Vacuum pumps are compressors drawing gas molecules out of a sealed chamber to generate a partial vacuum or a low-pressure space. They have handles, motors, exhaust fittings, fan covers, and oil drains to help maintain a vacuum, reduce the boiling point of different gases and avoid adverse chemical reactions. They are available in various technologies to suit the pressure requirements and applications. At present, they find extensive applications in electronics, radiopharmacy, radiosurgery and radiotherapy across the globe.

Vacuum Pumps Market Trends:

The thriving chemical industry represents one of the key factors bolstering the growth of the market. Moreover, vacuum pumps are used in composite molding, flight instruments, electron microscopy, photolithography, uranium enrichment, mass spectrometers, cabinetry fabrication, and glass and stone-cutting factories. They are also employed in the food and beverage (F&B) industry for chocolate production, dairy processing, coffee roasting, deaeration of mineral water, and sterilization of tea and spices. In addition, vacuum pumps are utilized in the pharmaceutical industry for crystallization, distillation, drying, and degassing. Besides this, air conditioning and refrigeration systems become contaminated with moisture and incondensable gases like air. The presence of either or both of these elements in these systems can cause internal icing and corrosion. Consequently, there is an increase in the usage of vacuum pumps to eliminate moisture and air from these systems. This, coupled with rising oil

and gas exploration activities, is catalyzing the demand for vacuum pumps around the world. Furthermore, significant growth in the oil and gas sector and the rising use of vacuum pumps for the manufacturing of vacuum tubes and electric lamps are creating a positive outlook for the market.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global vacuum pumps market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on type, lubrication, pressure and application.

Breakup by Type:

- Rotary Vacuum Pumps
- Rotary Vane Pumps
- Screw and Claw Pumps
- Roots Pumps
- Reciprocating Vacuum Pumps
- Diaphragm Pumps
- Piston Pumps
- Kinetic Vacuum Pumps
- Ejector Pumps
- Turbomolecular Pumps
- Diffusion Pumps
- Dynamic Pumps
- Liquid Ring Pumps
- Side Channel Pumps
- Specialized Vacuum Pumps
- Getter Pumps
- Cryogenic Pumps

Breakup by Lubrication:

- Dry Vacuum Pump
- Wet Vacuum Pump

Breakup by Pressure:

- Rough Vacuum Pumps (103 Mbar to 1 Mbar)

Medium Vacuum Pumps (1 Mbar to 10⁻³ Mbar)
High Vacuum Pumps (10⁻³ Mbar to 10⁻⁷ Mbar)
Ultra-High Vacuum Pumps (10⁻⁷ Mbar to 10⁻¹² Mbar)
Extreme High Vacuum Pumps (Less Than 10⁻¹² Mbar)

Breakup by Application:

Oil and Gas
Electronics
Medical
Chemical Processing
Food and Beverages
Power Generation
Others

Breakup by Region:

North America
United States
Canada
Asia-Pacific
China
Japan
India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Atlas Copco AB, Becker Pumps Corporation, Busch Group, Cutes Corporation, Ebara Corporation, Flowserve Corporation, Graham Corporation, Ingersoll Rand Inc., Pfeiffer Vacuum GmbH, PPI Pumps Pvt. Ltd., Tsurumi Manufacturing Co. Ltd. and ULVAC Inc.

Key Questions Answered in This Report

1. What was the size of the global vacuum pumps market in 2022?
2. What is the expected growth rate of the global vacuum pumps market during 2023-2028?
3. What are the key factors driving the global vacuum pumps market?
4. What has been the impact of COVID-19 on the global vacuum pumps market?
5. What is the breakup of the global vacuum pumps market based on the type?
6. What is the breakup of the global vacuum pumps market based on the lubrication?
7. What is the breakup of the global vacuum pumps market based on pressure?
8. What is the breakup of the global vacuum pumps market based on the application?
9. What are the key regions in the global vacuum pumps market?
10. Who are the key players/companies in the global vacuum pumps market?

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