

Global Rotary Vane Vacuum Pumps Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Rotary Vane Vacuum Pumps market size was valued at USD 1217 million in 2023 and is forecast to a readjusted size of USD 1445.5 million by 2030 with a CAGR of 2.5% during review period.

Rotary vane vacuum pumps are mechanical vacuum pumps that operate via rotary positive displacement. Pumping system consist of a housing, an eccentrically installed rotor, vanes that move radially, and an inlet and outlet. Larger pumps may have additional impeller vanes.

Rotary vane vacuum pumps create regions of low pressure by moving fluid using a rotating vane assembly in the pumping chamber. Typically there are two or more rotating vanes that move the gas or fluid from inlet to outlet. Rotary vane pumps can be employed universally throughout the entire low and medium vacuum ranges.

As the rotor turns, the ends of the vane barely touch the housing, creating a seal from inlet to outlet. The inlet and outlet are often perpendicular, however for vacuum service applications two inlets may be used; one for air supply and the other for the pumped media. The rotor and vanes divide the working chamber into two separate spaces having variable volumes. As the rotor turns, gas flows into the enlarging suction chamber until it is sealed off by the second vane. The enclosed gas is compressed until the outlet valve opens against atmospheric pressure, pushing gas molecules out the port.

This report mainly introduces two types of rotary vane vacuum pumps: single-stage and

two-stage. Dual stage vacuum pumps compress the gas twice before exhausting it to atmosphere and therefore generate a lower ultimate vacuum pressure. Single stage pumps only compress the gas once delivering a higher pressure, but less heat.

The top four players of rotary vane vacuum pumps are Atlas Copco, Busch, Gardner Denver, Value Specializes, accounting for 44% of the total production.

China is the world's largest production area with the market share was about 38%. However, the price of Chinese products is very cheap. Similarly, China's product quality is also very backward. So, the revenue market share of China is only about 9%. On the production side, Value Specializes is the world's largest rotary vane vacuum pumps manufacturers. However, Value Specializes has a significant gap than Atlas Copco, Busch and Gardner Denver in revenue.

The Global Info Research report includes an overview of the development of the Rotary Vane Vacuum Pumps industry chain, the market status of Semiconductor and Electronic Industry (Single Stage Rotary Vane Vacuum Pumps, Two Stage Rotary Vane Vacuum Pumps), Chemical Industry (Single Stage Rotary Vane Vacuum Pumps, Two Stage Rotary Vane Vacuum Pumps), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Rotary Vane Vacuum Pumps.

Regionally, the report analyzes the Rotary Vane Vacuum Pumps markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Rotary Vane Vacuum Pumps market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Rotary Vane Vacuum Pumps market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Rotary Vane Vacuum Pumps industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size,

including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., Single Stage Rotary Vane Vacuum Pumps, Two Stage Rotary Vane Vacuum Pumps).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Rotary Vane Vacuum Pumps market.

Regional Analysis: The report involves examining the Rotary Vane Vacuum Pumps market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Rotary Vane Vacuum Pumps market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Rotary Vane Vacuum Pumps:

Company Analysis: Report covers individual Rotary Vane Vacuum Pumps manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Rotary Vane Vacuum Pumps This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Semiconductor and Electronic Industry, Chemical Industry).

Technology Analysis: Report covers specific technologies relevant to Rotary Vane Vacuum Pumps. It assesses the current state, advancements, and potential future developments in Rotary Vane Vacuum Pumps areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Rotary Vane Vacuum Pumps market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Rotary Vane Vacuum Pumps market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Single Stage Rotary Vane Vacuum Pumps

Two Stage Rotary Vane Vacuum Pumps

Market segment by Application

Semiconductor and Electronic Industry

Chemical Industry

Laboratory Research

Food Industry

Machinery Industry

Other

Major players covered

Atlas Copco

Busch

Gardner Denver

Pfeiffer Vacuum

Tuthill

Becker Pumps

Agilent

Gast(IDEX)

ULVAC

Value Specializes

Dekker Vacuum Technologies

Osaka Vacuum

Hokaido Vacuum Technology

Wenling Tingwei

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Rotary Vane Vacuum Pumps product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Rotary Vane Vacuum Pumps, with price, sales, revenue and global market share of Rotary Vane Vacuum Pumps from 2019 to 2024.

Chapter 3, the Rotary Vane Vacuum Pumps competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Rotary Vane Vacuum Pumps breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Rotary Vane Vacuum Pumps market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Rotary Vane Vacuum Pumps.

Chapter 14 and 15, to describe Rotary Vane Vacuum Pumps sales channel, distributors, customers, research findings and conclusion.

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