

Global Rotary Vane Vacuum Pumps Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Rotary Vane Vacuum Pumps market size was valued at US\$ 1281 million in 2024 and is forecast to a readjusted size of USD 1523 million by 2031 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.

This report is a detailed and comprehensive analysis for global Rotary Vane Vacuum Pumps market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Rotary Vane Vacuum Pumps market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (USD/Unit), 2020-2031

Global Rotary Vane Vacuum Pumps market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (USD/Unit), 2020-2031

Global Rotary Vane Vacuum Pumps market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (USD/Unit), 2020-2031

Global Rotary Vane Vacuum Pumps market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (USD/Unit), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Rotary Vane Vacuum Pumps

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Rotary Vane Vacuum Pumps market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Atlas Copco, Busch, Gardner Denver, Pfeiffer Vacuum, Tuthill, Becker Pumps, Agilent, Gast(IDEX), ULVAC, Value Specializes, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Rotary Vane Vacuum Pumps market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

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 quantity, revenue, and global market share of Rotary Vane Vacuum Pumps from 2020 to 2025.

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 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

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 2020 to 2025. and Rotary Vane Vacuum Pumps market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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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