

Global Permanent Magnet Variable Frequency Centrifugal Vacuum Pump Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Permanent Magnet Variable Frequency Centrifugal Vacuum Pump market size was valued at US\$ 242 million in 2025 and is forecast to a readjusted size of US\$ 297 million by 2032 with a CAGR of 3.0% during review period.

In 2025, the global production of permanent magnet variable frequency centrifugal vacuum pumps reached 7,250 units, with an average selling price of US\$32,500 per unit. The global annual production capacity of permanent magnet variable frequency centrifugal vacuum pumps is approximately 15,000 units, with a gross profit margin of approximately 27.6%. A permanent magnet variable frequency centrifugal vacuum pump is a high-efficiency vacuum device that combines permanent magnet synchronous motor technology with variable frequency speed control. It is mainly used in industrial production, scientific research, medical, and semiconductor manufacturing fields, aiming to provide a high-efficiency, energy-saving, and stable vacuum environment. The upstream of the permanent magnet variable frequency centrifugal vacuum pump industry chain includes magnetic materials, high-strength materials and coatings, pump bodies, impellers, and bearings; the midstream consists of permanent magnet variable frequency centrifugal vacuum pump manufacturers; and the downstream applications are mainly in industries such as manufacturing and semiconductors.

The permanent magnet variable frequency centrifugal vacuum pump market is showing steady expansion, primarily driven by the continued demand for high vacuum, low

energy consumption, and high stability from high-end manufacturing industries such as semiconductors, coating, lithography, and chemicals. Compared to traditional centrifugal pumps, permanent magnet variable frequency designs offer advantages in operating efficiency, smooth start/stop, and intelligent control, achieving lower energy consumption, less vibration, and longer lifespan. They also facilitate adaptation to variable pressure and variable speed processes. Market competition focuses on high vacuum capacity, ultimate pressure, noise control, ease of maintenance, after-sales service, and overall system integration capabilities. Domestic and international manufacturers are improving performance and reliability by enhancing magnet materials, pump body materials, drive control algorithms, and diagnostic functions. In the short term, global supply chain fluctuations, raw material costs, and industry certification requirements will impact prices and new capacity expansion, leading the market to concentrate on applications requiring higher stability, intelligence, and high added value.

This report is a detailed and comprehensive analysis for global Permanent Magnet Variable Frequency Centrifugal Vacuum Pump 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 Permanent Magnet Variable Frequency Centrifugal Vacuum Pump market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Permanent Magnet Variable Frequency Centrifugal Vacuum Pump market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Permanent Magnet Variable Frequency Centrifugal Vacuum Pump market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Permanent Magnet Variable Frequency Centrifugal Vacuum Pump market

shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

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 Permanent Magnet Variable Frequency Centrifugal Vacuum Pump
- 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 Permanent Magnet Variable Frequency Centrifugal Vacuum Pump 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 Kapa Air Compressor, Fluidcomp, Greatell, Edwards Vacuum, Pfeiffer Vacuum, Leybold, Kurt J. Lesker Company, XINLEI, BXWELL, Ingersoll Rand, etc.

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

Market Segmentation

Permanent Magnet Variable Frequency Centrifugal Vacuum Pump market is split by Type and by Application. For the period 2021-2032, 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 Pump

Multistage Pump

Market segment by Working Principle

Variable Volume Vacuum Pumps

Momentum Transfer Pumps

Market segment by Drive Method

Electric Drive

Hybrid Drive

Market segment by Application

Industrial

Semiconductor

Chemical

Others

Major players covered

Kapa Air Compressor

Fluidcomp

Greatell

Edwards Vacuum

Pfeiffer Vacuum

Leybold

Kurt J. Lesker Company

XINLEI

BXWELL

Ingersoll Rand

ZHANG GU GAO FU

JAGUAR

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 Permanent Magnet Variable Frequency Centrifugal Vacuum Pump product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Permanent Magnet Variable Frequency Centrifugal Vacuum Pump, with price, sales quantity, revenue, and global market share of Permanent Magnet Variable Frequency Centrifugal Vacuum Pump from 2021 to 2026.

Chapter 3, the Permanent Magnet Variable Frequency Centrifugal Vacuum Pump competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Permanent Magnet Variable Frequency Centrifugal Vacuum Pump breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and Permanent Magnet Variable Frequency Centrifugal Vacuum Pump market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Permanent Magnet Variable Frequency Centrifugal Vacuum Pump.

Chapter 14 and 15, to describe Permanent Magnet Variable Frequency Centrifugal Vacuum Pump sales channel, distributors, customers, research findings and conclusion.

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