

Global Permanent Magnet Variable Frequency Centrifugal Vacuum Pump Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Permanent Magnet Variable Frequency Centrifugal Vacuum Pump market size is expected to reach \$ 297 million by 2032, rising at a market growth of 3.0% CAGR during the forecast period (2026-2032).

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 studies the global Permanent Magnet Variable Frequency Centrifugal Vacuum Pump production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Permanent Magnet Variable Frequency Centrifugal Vacuum Pump and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Permanent Magnet Variable Frequency Centrifugal Vacuum Pump that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Permanent Magnet Variable Frequency Centrifugal Vacuum Pump total production and demand, 2021-2032, (Units)

Global Permanent Magnet Variable Frequency Centrifugal Vacuum Pump total production value, 2021-2032, (USD Million)

Global Permanent Magnet Variable Frequency Centrifugal Vacuum Pump production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Permanent Magnet Variable Frequency Centrifugal Vacuum Pump consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Permanent Magnet Variable Frequency Centrifugal Vacuum Pump domestic production, consumption, key domestic manufacturers and share

Global Permanent Magnet Variable Frequency Centrifugal Vacuum Pump production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Permanent Magnet Variable Frequency Centrifugal Vacuum Pump production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Permanent Magnet Variable Frequency Centrifugal Vacuum Pump production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Permanent Magnet Variable Frequency Centrifugal Vacuum Pump market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Permanent Magnet Variable Frequency Centrifugal Vacuum Pump market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Permanent Magnet Variable Frequency Centrifugal Vacuum Pump Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Permanent Magnet Variable Frequency Centrifugal Vacuum Pump Market,
Segmentation by Type:

Single-Stage Pump

Multistage Pump

Global Permanent Magnet Variable Frequency Centrifugal Vacuum Pump Market,
Segmentation by Working Principle:

Variable Volume Vacuum Pumps

Momentum Transfer Pumps

Global Permanent Magnet Variable Frequency Centrifugal Vacuum Pump Market,
Segmentation by Drive Method:

Electric Drive

Hybrid Drive

Global Permanent Magnet Variable Frequency Centrifugal Vacuum Pump Market,
Segmentation by Application:

Industrial

Semiconductor

Chemical

Others

Companies Profiled:

Kapa Air Compressor

Fluidcomp

Greatell

Edwards Vacuum

Pfeiffer Vacuum

Leybold

Kurt J. Lesker Company

XINLEI

BXWELL

Ingersoll Rand

ZHANG GU GAO FU

JAGUAR

Key Questions Answered:

1. How big is the global Permanent Magnet Variable Frequency Centrifugal Vacuum Pump market?
2. What is the demand of the global Permanent Magnet Variable Frequency Centrifugal Vacuum Pump market?
3. What is the year over year growth of the global Permanent Magnet Variable Frequency Centrifugal Vacuum Pump market?
4. What is the production and production value of the global Permanent Magnet Variable Frequency Centrifugal Vacuum Pump market?

5. Who are the key producers in the global Permanent Magnet Variable Frequency Centrifugal Vacuum Pump market?
6. What are the growth factors driving the market demand?

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