

# Global Permanent Magnet Variable Frequency Centrifugal Vacuum Pump Market Growth 2026-2032

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## Abstracts

The global Permanent Magnet Variable Frequency Centrifugal Vacuum Pump market size is predicted to grow from US\$ 231 million in 2025 to US\$ 286 million in 2032; it is expected to grow at a CAGR of 3.2% from 2026 to 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.

LP Information, Inc. (LPI) ' newest research report, the “Permanent Magnet Variable Frequency Centrifugal Vacuum Pump Industry Forecast” looks at past sales and reviews total world Permanent Magnet Variable Frequency Centrifugal Vacuum Pump sales in 2025, providing a comprehensive analysis by region and market sector of projected Permanent Magnet Variable Frequency Centrifugal Vacuum Pump sales for 2026 through 2032. With Permanent Magnet Variable Frequency Centrifugal Vacuum Pump sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Permanent Magnet Variable Frequency Centrifugal Vacuum Pump industry.

This Insight Report provides a comprehensive analysis of the global Permanent Magnet Variable Frequency Centrifugal Vacuum Pump landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Permanent Magnet Variable Frequency Centrifugal Vacuum Pump portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Permanent Magnet Variable Frequency Centrifugal Vacuum Pump market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Permanent Magnet Variable Frequency Centrifugal Vacuum Pump and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Permanent Magnet Variable Frequency Centrifugal Vacuum Pump.

This report presents a comprehensive overview, market shares, and growth opportunities of Permanent Magnet Variable Frequency Centrifugal Vacuum Pump market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Single-Stage Pump

Multistage Pump

Segmentation by Working Principle:

Variable Volume Vacuum Pumps

Momentum Transfer Pumps

Segmentation by Drive Method:

Electric Drive

Hybrid Drive

Segmentation by Application:

Industrial

Semiconductor

Chemical

Others

This report also splits the market by region:

## Americas

United States

Canada

Mexico

Brazil

## APAC

China

Japan

Korea

Southeast Asia

India

Australia

## Europe

Germany

France

UK

Italy

Russia

## Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global Permanent Magnet Variable Frequency Centrifugal Vacuum Pump market?

What factors are driving Permanent Magnet Variable Frequency Centrifugal Vacuum Pump market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Permanent Magnet Variable Frequency Centrifugal Vacuum Pump market opportunities vary by end market size?

How does Permanent Magnet Variable Frequency Centrifugal Vacuum Pump break out by Type, by Application?

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