

Global Permanent Magnet Variable Frequency Screw Vacuum Pumps 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 Screw Vacuum Pumps market size was valued at US\$ 443 million in 2025 and is forecast to a readjusted size of US\$ 617 million by 2032 with a CAGR of 4.9% during review period.

In 2024, global permanent magnet variable frequency screw vacuum pump production reached approximately 48260 units, with an average global market price of around US\$ 8500 per unit. Permanent magnet variable frequency screw vacuum pump is a screw vacuum pump driven by permanent magnet motor with variable frequency speed regulation function. This vacuum pump combines the high efficiency and energy saving characteristics of permanent magnet motor and the intelligent adjustment ability of frequency conversion technology, as well as the working principle of screw pump, which is widely used in various industrial occasions requiring efficient and stable vacuum environment.

The demand for permanent magnet variable frequency screw vacuum pumps is being driven by the dual drive of global industrial energy conservation and environmental protection policies and enterprise cost reduction and efficiency enhancement. Its core value lies in achieving significant energy consumption reduction through variable frequency speed regulation, which creates a broad market space for replacing traditional high energy consumption fixed frequency vacuum pumps. The current business opportunities are mainly concentrated in new energy production processes such as photovoltaic and lithium battery manufacturing, as well as semiconductor and chemical fields with high requirements for vacuum stability and reliability. For equipment manufacturers, the key opportunity lies in delivering efficient and reliable product

solutions while developing intelligent IoT-based monitoring and predictive maintenance services to differentiate and win customers through superior energy efficiency performance and full lifecycle cost advantages in an increasingly competitive market.

The annual production capacity of a single permanent magnet variable frequency screw vacuum pump production line is typically between 1,000 and 3,000 units, with a gross profit margin of around 28%.

Downstream consumers of permanent magnet variable frequency screw vacuum pumps include electronics (29%), pharmaceuticals (19%), chemicals (30%), aerospace (12%), and others (10%).

Market Concentration and Key Players:

Internationally, the permanent magnet inverter screw vacuum pump market concentration is relatively high, mainly concentrated in Europe, America and Japan and other developed countries. For example, Atlas Copco and Agilent and other large manufacturers; from the domestic point of view, permanent magnet inverter screw vacuum pump manufacturers have Shenzhen Coles compression machinery and Guangdong Geribao energy equipment technology.

Manufacturing Processes and Market Trends:

The core of the manufacturing process of permanent magnet variable frequency screw vacuum pump lies in the high integration and direct drive of high efficiency permanent magnet synchronous motor and precision screw rotor, which eliminates the energy loss and maintenance requirements brought by traditional gearbox. The key lies in precision grinding and dynamic balance correction of screw rotor profile to ensure stability and low vibration at high speed. The motor part needs to adopt high-performance NdFeB permanent magnets, and it is integrated with the inverter to achieve a wide range of stepless adjustment of speed. The process also involves optimization of efficient gas paths and cooling systems, as well as good acoustic packaging to ensure low noise operation.

The market trend is that the product is rapidly replacing traditional high-energy vacuum equipment with its excellent energy-saving advantages, mainly driven by increasingly stringent energy efficiency regulations worldwide and the urgent need for industrial enterprises to reduce operating costs. Its application in photovoltaic, lithium battery

manufacturing and other new energy fields as well as semiconductor, chemical and other process industries continues to expand. Future technologies will focus more on intelligence, enabling remote monitoring and predictive maintenance through integrated IoT modules, while moving towards higher energy efficiency levels, more compact designs and wider working ranges to meet diverse industrial scenarios.

This report is a detailed and comprehensive analysis for global Permanent Magnet Variable Frequency Screw Vacuum Pumps market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Screw 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 Screw Vacuum Pumps market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

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

Global Permanent Magnet Variable Frequency Screw Vacuum Pumps 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 Screw 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 Permanent Magnet Variable Frequency Screw 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, Agilent, Gardner Denver, Frank Compressors, Fluidcomp, Pfeiffer Vacuum Technology, Sollant Vacuum Technology, Xiamen Dongya Machinery Industry, Shenzhen Kelaisi Compression Machinery, Shanghai Demeng Compression Machinery, etc.

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

Market Segmentation

Permanent Magnet Variable Frequency Screw Vacuum Pumps market is split by Screw and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Screw, 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 Screw

Single-Stage

Multistage

Market segment by Cool

Air-cooled

Water-cooled

Market segment by Volume

Small-volume

Medium and Large Volume

Market segment by Application

Electronic

Pharmacy

Chemical

Aerospace

Others

Major players covered

Atlas Copco

Agilent

Gardner Denver

Frank Compressors

Fluidcomp

Pfeiffer Vacuum Technology

Sollant Vacuum Technology

Xiamen Dongya Machinery Industry

Shenzhen Kelaisi Compression Machinery

Shanghai Demeng Compression Machinery

Guangdong Geribao Energy Equipment Technology

Shanghai Scr Compressor

Shanghai Batesair Energy Saving Technology

Guangdong Copcouf Ultrafiltration Energy Saving Technology

Jiangsu Everblue Gas Equipment Technology

Shanghai Denair Energy Saving Technology

Shenzhen Jucai Industry

Shanghai Screw Compressor

Shenzhen INVT Electric

Shanghai Sollant Energy Saving Technology

Quanzhou Huade Mechanical & Equipment

Shanghai Auliss Intelligent Technology

Shanghai Hanbell Precision Machinery

Fusheng Corporation

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 Screw Vacuum Pumps product scope, market overview, market estimation caveats and base year.

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

Chapter 3, the Permanent Magnet Variable Frequency Screw Vacuum Pumps 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 Screw Vacuum Pumps 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 Screw and by Application, with sales market share and growth rate by Screw, 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 Screw Vacuum Pumps market forecast, by regions, by Screw, 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 Screw Vacuum Pumps.

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