

Global Positive Displacement Vacuum Pump Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Positive Displacement Vacuum Pump market size is expected to reach \$ 12492 million by 2032, rising at a market growth of 6.6% CAGR during the forecast period (2026-2032).

A Positive Displacement Vacuum Pump (PD pump) creates vacuum by trapping and mechanically displacing a fixed volume of gas or fluid in a repeating cycle, using components like pistons, gears, or lobes to create suction and force the medium out, making it ideal for handling viscous fluids, high pressures, and providing a constant flow in applications from food processing to chemical industries.

In 2025, the global production of positive displacement volume vacuum pumps is projected to reach 1.85 million units, with an average price of US\$4,270 per unit. Gross profit margins are typically between 30% and 40%.

The upstream supply chain of positive displacement vacuum pumps mainly includes metal materials such as cast iron, stainless steel, and aluminum alloys, as well as key components such as precision bearings, seals, lubricants, motors, and frequency converters. The reliability of upstream components directly affects vacuum stability and service life. Downstream applications are the core of demand, widely used in semiconductor and electronics manufacturing, pharmaceuticals and bioengineering, chemicals, food and packaging, medical equipment, and new energy industries, with semiconductors and pharmaceuticals accounting for the largest share. In semiconductor wafer manufacturing and packaging, positive displacement vacuum pumps are used for rough vacuum and front-end processes due to their stable pumping speed and strong controllability, requiring extremely high cleanliness and reliability. The pharmaceutical and bioengineering fields emphasize oil-free or low-pollution operation to meet GMP requirements. The food and packaging industry uses them extensively for vacuum packaging and forming, focusing on continuous operation and maintenance costs. The new energy and chemical fields prioritize corrosion resistance and adaptability to

complex media. Downstream customers are mainly equipment manufacturers and large end-user factories, with procurement characterized by project-based and long-term supply chains, and a high dependence on brands, certifications, and after-sales service.

Industry trends are characterized by oil-free operation, low energy consumption, and intelligent monitoring, while specialized models for high-end applications such as semiconductors and pharmaceuticals continue to increase. Driving factors primarily include semiconductor capacity expansion, rising requirements for pharmaceuticals and food safety, and increased investment in new energy and high-end manufacturing. Hindering factors include high initial equipment costs, high maintenance technical barriers, and the replacement of some applications by high-speed turbomolecular pumps or dry vacuum systems.

This report studies the global Positive Displacement Vacuum Pump production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Positive Displacement 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 Positive Displacement Vacuum Pump that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Positive Displacement Vacuum Pump total production and demand, 2021-2032, (K Units)

Global Positive Displacement Vacuum Pump total production value, 2021-2032, (USD Million)

Global Positive Displacement Vacuum Pump production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Positive Displacement Vacuum Pump consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Positive Displacement Vacuum Pump domestic production, consumption, key domestic manufacturers and share

Global Positive Displacement Vacuum Pump production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Positive Displacement Vacuum Pump production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Positive Displacement Vacuum Pump production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Positive Displacement 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 Busch Vacuum Solutions, Atlas Copco, Edwards Vacuum, Leybold, Pfeiffer Vacuum, ULVAC, EBARA Corporation, Ebara Technologies, Inc., Kashiya Industries, Becker Pumps, 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 Positive Displacement Vacuum Pump market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K 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 Positive Displacement Vacuum Pump Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Positive Displacement Vacuum Pump Market, Segmentation by Type:

Reciprocating

Rotary

Oscillating

Scroll

Screw

Claw

Global Positive Displacement Vacuum Pump Market, Segmentation by Lubrication Method:

Oil-Sealed

Oil-Free

Water-Sealed

Hybrid

Global Positive Displacement Vacuum Pump Market, Segmentation by Pressure Range:

10¹~10² Pa

10²~10³ Pa

10³~10⁴ Pa

10⁴~10⁵ Pa

Below 10⁵ Pa

Global Positive Displacement Vacuum Pump Market, Segmentation by Application:

Semiconductors

Vacuum Coating

Automotive

Chemicals

Medical

Food

Companies Profiled:

Busch Vacuum Solutions

Atlas Copco

Edwards Vacuum

Leybold

Pfeiffer Vacuum

ULVAC

EBARA Corporation

Ebara Technologies, Inc.

Kashiyama Industries

Becker Pumps

Elmo Rietschle

Nash

Robuschi

Ingersoll Rand

Kinney Vacuum

MD Pneumatics

Tuthill

AERZEN

Flowserve SIHI

Graham

DEKKER Vacuum Technologies

Pompetravaini

DVP Vacuum Technology

KAESER Kompressoren

Agilent Technologies

KNF Neuberger

VACUUBRAND

Welch Vacuum

ANEST IWATA

Gast Manufacturing

Thomas

VALUE

EVP Vacuum Technology

Key Questions Answered:

1. How big is the global Positive Displacement Vacuum Pump market?
2. What is the demand of the global Positive Displacement Vacuum Pump market?
3. What is the year over year growth of the global Positive Displacement Vacuum Pump market?
4. What is the production and production value of the global Positive Displacement Vacuum Pump market?
5. Who are the key producers in the global Positive Displacement Vacuum Pump market?
6. What are the growth factors driving the market demand?

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