

Global Positive Displacement Vacuum Pump Market Growth 2026-2032

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Abstracts

The global Positive Displacement Vacuum Pump market size is predicted to grow from US\$ 7728 million in 2025 to US\$ 12156 million in 2032; it is expected to grow at a CAGR of 7.1% from 2026 to 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.

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

This Insight Report provides a comprehensive analysis of the global Positive Displacement 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 Positive Displacement Vacuum Pump portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Positive Displacement Vacuum Pump market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Positive Displacement 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 Positive Displacement Vacuum Pump.

This report presents a comprehensive overview, market shares, and growth opportunities of Positive Displacement Vacuum Pump market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Reciprocating

Rotary

Oscillating

Scroll

Screw

Claw

Segmentation by Lubrication Method:

Oil-Sealed

Oil-Free

Water-Sealed

Hybrid

Segmentation by Pressure Range:

10⁻²~10⁻¹ Pa

10⁻¹~10⁰ Pa

10??~10?? Pa

10??~10?? Pa

Below 10?? Pa

Segmentation by Application:

Semiconductors

Vacuum Coating

Automotive

Chemicals

Medical

Food

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.

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 Addressed in this Report

What is the 10-year outlook for the global Positive Displacement Vacuum Pump market?

What factors are driving Positive Displacement Vacuum Pump market growth, globally and by region?

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

How do Positive Displacement Vacuum Pump market opportunities vary by end market size?

How does Positive Displacement Vacuum Pump break out by Type, by Application?

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