

# Global Vacuum Turbo Pumps Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Vacuum Turbo Pumps market size is expected to reach \$ 2948 million by 2032, rising at a market growth of 6.5% CAGR during the forecast period (2026-2032).

In 2025, the global production of Vacuum Turbo Pumps reached approximately 120,000 units, with an average global market price of around US\$12,000–20,000 per unit. In the same year, the global total production capacity of Vacuum Turbo Pumps reached 150,000 units. The industry average gross profit margin of this product reached 37%. Vacuum Turbo Pumps are high-vacuum devices that use a high-speed rotating impeller and stator alternating arrangement to compress and deliver gas molecules axially in stages to the backing pump. Their working principle is based on the 'momentum transfer' mechanism in molecular dynamics, achieving highly efficient pumping in the molecular flow region. They feature extremely high pumping speeds, low ultimate pressures, and oil-free cleanliness, and are widely used in semiconductor manufacturing, vacuum coating, scientific instruments, and high-end manufacturing.

The upstream of the Vacuum Turbo Pump industry chain mainly includes high-precision machining, high-speed motors, high-performance bearings, controllers, and key materials; the midstream consists of complete machine manufacturers and system integrators, responsible for aerodynamic design, dynamic balancing, vacuum performance optimization, and reliability testing; the downstream covers a wide range of fields including semiconductor equipment, flat panel displays, photovoltaics, analytical instruments, scientific research equipment, and industrial vacuum systems, and is typically sold as a complete system in conjunction with the backing pump.

Driven by the continued growth in demand for advanced semiconductor processes, third-generation semiconductors, high-efficiency photovoltaic cells, and high-end scientific

instruments, the Vacuum Turbo Pumps market is showing a long-term stable growth trend. Meanwhile, 'oil-free,' 'high cleanliness,' 'low vibration,' and 'intelligentization' are becoming the directions for technological upgrades. In addition, magnetic levitation bearings are replacing traditional mechanical bearings, improving equipment lifespan and reliability, and their penetration rate is continuously increasing in advanced manufacturing and ultra-high vacuum fields. Coupled with the needs of domestic substitution and supply chain security, the industry will still have strong growth potential and structural opportunities in the next 5-10 years.

This report studies the global Vacuum Turbo Pumps production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Vacuum Turbo Pumps total production and demand, 2021-2032, (K Units)

Global Vacuum Turbo Pumps total production value, 2021-2032, (USD Million)

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

Global Vacuum Turbo Pumps consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Vacuum Turbo Pumps domestic production, consumption, key domestic manufacturers and share

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

Global Vacuum Turbo Pumps production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Vacuum Turbo Pumps production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Vacuum Turbo Pumps 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 Pfeiffer Vacuum, Edwards, Osaka Vacuum, KYKY Vacuum, Ulvac, Shimadzu, Ebara Technologies, Leybold, Busch, Agilent, 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 Vacuum Turbo Pumps 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 Vacuum Turbo Pumps Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Vacuum Turbo Pumps Market, Segmentation by Type:

Mechanical Bearing Turbomolecular Pump

Magnetic Levitation Turbomolecular Pump

### Global Vacuum Turbo Pumps Market, Segmentation by Installation Type:

Vertical

Horizontal

Integrated

### Global Vacuum Turbo Pumps Market, Segmentation by Pumping Speed (L/s):

Small: 1000 L/s

### Global Vacuum Turbo Pumps Market, Segmentation by Application:

Semiconductor

Industrial

Scientific Research

Others

### Companies Profiled:

Pfeiffer Vacuum

Edwards

Osaka Vacuum

KYKY Vacuum

Ulvac

Shimadzu

Ebara Technologies

Leybold

Busch

Agilent

Agilent Technologies

Welch Vacuum

#### Key Questions Answered:

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

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