

Global Maglev Turbomolecular Pumps Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Maglev Turbomolecular Pumps market size is expected to reach \$ 1301 million by 2032, rising at a market growth of 6.3% CAGR during the forecast period (2026-2032).

In 2025, global Maglev Turbomolecular Pump production reached approximately 86 k units, the average price is 9500 usd/unit. Maglev Turbomolecular Pump uses the magnetic force to suspend the rotor in the air so that the rotor and the stator operate without contact. Its characteristics are as follows: without any lubricating oil, it can be completely oil-free. Since there is no mechanical contact between the rotor and the stator, the bearing life is very long.

Market Concentration and Key Players:

From the international point of view, the magnetic levitation turbo molecular pump market concentration is relatively high, mainly concentrated in Europe, America and Japan and other developed countries. For example, Edwards and Ebara and other large manufacturers; from the domestic point of view, maglev turbo molecular pump manufacturers have Suzhou Suci Intelligent Technology.

Manufacturing Processes and Market Trends:

The magnetic levitation turbomolecular pump realizes contact-free high-speed rotation of the rotor by virtue of magnetic levitation bearings, providing a clean ultra-high vacuum environment for the core industrial field. Its manufacturing process is sophisticated and complex, and the market development keeps up with high-end technology iteration. The core of manufacturing lies in the precise matching of magnetic bearing system and high-speed rotor. First, turbine rotor and stator blade are machined by five-axis CNC machine tool with high-strength alloy or special ceramic material to ensure dynamic balance accuracy control at 0.1 micron level to maintain stable suspension at tens of thousands of revolutions. The magnetic bearing system forms five-axis active control through multiple groups of electromagnets and displacement

sensors, adjusts the spatial position of the rotor in real time to achieve friction-free operation, and integrates an intelligent balance module to dynamically adjust the counterweight through a threaded counterweight hole. This process significantly reduces the pollution risk caused by the traditional grinding counterweight. The whole system needs to be precisely assembled in a clean environment, and has undergone rigorous high speed testing and vacuum performance verification.

At present, the global magnetic levitation turbomolecular pump market is growing steadily. The growth is mainly driven by the advancement of advanced semiconductor processes to nodes below 3 nm and the demand for ultra-high vacuum environments in photovoltaic and scientific research fields, with semiconductor manufacturing accounting for more than 55% of total demand. Future trends focus on intelligence and high performance, such as predictive maintenance through Internet of Things technology and continuous optimization of magnetic bearing control algorithms to improve pumping speed and extreme vacuum. China enterprises are actively expanding market share through cost-effective strategies, but they still face technical barriers and supply chain localization challenges in high-end fields.

This report studies the global Maglev Turbomolecular Pumps production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Maglev Turbomolecular Pumps total production and demand, 2021-2032, (K Units)

Global Maglev Turbomolecular Pumps total production value, 2021-2032, (USD Million)

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

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

U.S. VS China: Maglev Turbomolecular Pumps domestic production, consumption, key domestic manufacturers and share

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

Global Maglev Turbomolecular Pumps production by Function, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

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

This report profiles key players in the global Maglev Turbomolecular 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 Atlas Copco, Pfeiffer Vacuum GmbH, Shimadzu, Osaka Vacuum, Ltd, Ebara, Ulvac, Hangzhou Kuntai Maglev Technology, Zhongke Keyi, Suzhou Suci Intelligent Technology, 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 Maglev Turbomolecular 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 Function, 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 Maglev Turbomolecular Pumps Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Maglev Turbomolecular Pumps Market, Segmentation by Function:

Temperature Controlled Turbo Pump

Ultra High Vacuum Turbine Pump

Ultra Low Vibration Turbo Pump

Others

Global Maglev Turbomolecular Pumps Market, Segmentation by Structure:

Pure Turbo

Compound

Global Maglev Turbomolecular Pumps Market, Segmentation by Cooling:

Air Cooling

Water-cooling

Global Maglev Turbomolecular Pumps Market, Segmentation by Application:

Semiconductor Industrial

Photovoltaic

Electron Microscope

Medical Equipment

Others

Companies Profiled:

Atlas Copco

Pfeiffer Vacuum GmbH

Shimadzu

Osaka Vacuum, Ltd

Ebara

Ulvac

Hangzhou Kuntai Maglev Technology

Zhongke Keyi

Suzhou Suci Intelligent Technology

Key Questions Answered:

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

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