

# Global Cryo Vacuum Pumps Market Research Report 2026(Status and Outlook)

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## Abstracts

Cryo Vacuum Pumps (also known as cryogenic pumps, cold pumps) are advanced positive displacement vacuum pumps that cleverly combine the principles of cryogenic freezing and cryogenic adsorption to achieve efficient vacuuming. As an ideal device for obtaining an oil-free high vacuum environment, Cryo Vacuum Pumps are particularly suitable for those applications that require clean, oil-free, and fast vacuuming to achieve ultra-high vacuum. Cryo Vacuum Pumps play an indispensable role in high-tech manufacturing fields such as sputtering coating equipment, evaporation coating equipment, ion implantation equipment, molecular beam epitaxy equipment, as well as cutting-edge scientific research facilities such as space simulation equipment, high-energy physics research equipment, accelerator beam tubes, and ultra-high vacuum equipment. Its excellent performance and wide range of applications make Cryo Vacuum Pumps one of the important equipment in modern high-tech industries and scientific research fields. Global key players of Cryo Vacuum Pumps include Atlas Copco, SHI Cryogenics, ULVAC, etc. The top three players hold a share over 61%. China is the largest market, has a share about 37%, followed by North America and Japan, with share 19% and 16%, separately. In terms of product type, Water Cooled Cryo Vacuum Pumps is the largest segment, occupied for a share of 90%, and in terms of application, Semiconductor has a share about 36%. Cryo Vacuum Pumps are widely used in semiconductor manufacturing, vacuum coating, laboratory research and other fields due to their excellent performance. With the rapid development of the semiconductor and integrated circuit industries, the demand for high-performance cryogenic vacuum pumps continues to grow, becoming the main driving force for the development of the global and Chinese markets. In terms of market competition, due to the high technical barriers, talent barriers and capital barriers of the Cryo Vacuum Pumps industry, there are fewer global industry participants and the market concentration is high. International large companies occupy most of the global Cryo

Vacuum Pumps market. The main manufacturers include Atlas Copco, SHI Cryogenics, Zhejiang Bokai, Wanrui Cold Electric and ULVAC. The top five manufacturers account for 72.99% of the global market share. Chinese companies have certain disadvantages compared with international competitors in terms of capital, technology reserves, product series, production capacity and market awareness. However, as the world's major production base for semiconductor, optoelectronics and integrated circuit products, China has huge market potential. Thanks to the support of relevant national policies, it is expected that the Chinese market will continue to grow in the next few years and become an important development area for the Cryo Vacuum Pumps industry. In the future, Cryo Vacuum Pumps manufacturers need to increase R&D investment and improve product performance to adapt to the changing needs of high-precision fields such as semiconductors. At the same time, with the continuous changes in market demand and the acceleration of technological updates, the industry's innovation capabilities and production efficiency will become the key factors for companies to stand out in the competition.

The global Cryo Vacuum Pumps market size was estimated at USD 282.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 4.20% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Cryo Vacuum Pumps market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Cryo Vacuum Pumps market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone

planning to enter or expand their presence in the Cryo Vacuum Pumps market.

## **Global Cryo Vacuum Pumps Market: Market Segmentation Analysis**

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

### **Key Company**

Atlas Copco  
SHI Cryogenics Group  
ULVAC cryo  
PHPK Technologies  
Vacree  
Pengli  
Zhejiang Bokai  
Bama-supercon

### **Market Segmentation (by Type)**

Below 300mm  
300mm-500mm  
Above 500mm

### **Market Segmentation (by Application)**

Semiconductor  
Vacuum Coating  
Microelectronic Technology  
Laboratory

Other

## **Geographic Segmentation**

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

## **Key Benefits of This Market Research:**

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the Cryo Vacuum Pumps Market

Overview of the regional outlook of the Cryo Vacuum Pumps Market:

## **Customization of the Report**

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

## **Chapter Outline**

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product

type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Cryo Vacuum Pumps Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Cryo Vacuum Pumps, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development

potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

### **Key Reasons to Buy this Report:**

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

### **Customization of the Report**

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