

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

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Abstracts

The global Cryo Vacuum Pumps market size is expected to reach \$ 396 million by 2032, rising at a market growth of 7.0% CAGR during the forecast period (2026-2032).

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.

In 2025, global Cryo Vacuum Pumps production reached 8733 units with price US\$27140.

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 72.89% 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.

Report Scope

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Cryo Vacuum 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, SHI Cryogenics, Zhejiang Bokai, Vacree, ULVAC cryo, PHPK Technologies, CSSC Pride (Nanjing) Cryogenic Technology, Suzhou Bama Superconductive 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 Cryo Vacuum Pumps market

Detailed Segmentation:

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

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Cryo Vacuum Pumps Market, Segmentation by Type:

G-M Refrigerator Type

Pulse Tube Type

Others

Global Cryo Vacuum Pumps Market, Segmentation by Inlet Size:

Small Cryo Vacuum Pumps

Medium Cryo Vacuum Pumps

Large Cryo Vacuum Pumps

Others

Global Cryo Vacuum Pumps Market, Segmentation by System Configuration and Control:

Manual Regeneration

Automatic Regeneration

Global Cryo Vacuum Pumps Market, Segmentation by Application:

Semiconductor

Vacuum Coating

Microelectronic Technology

Laboratory

Other

Companies Profiled:

Atlas Copco

SHI Cryogenics

Zhejiang Bokai

Vacree

ULVAC cryo

PHPK Technologies

CSSC Pride (Nanjing) Cryogenic Technology

Suzhou Bama Superconductive Technology

Key Questions Answered:

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

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