

Global Cryopump for Semiconductor Market Growth 2026-2032

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Abstracts

The global Cryopump for Semiconductor market size is predicted to grow from US\$ 92.41 million in 2025 to US\$ 134 million in 2032; it is expected to grow at a CAGR of 5.6% from 2026 to 2032.

A Cryopump for Semiconductor is an ultra-high-vacuum pumping device that removes gases and vapors by cryocondensation, cryosorption, and cryotrapping using cryogenic temperatures generated by helium compressors, enabling clean, oil-free, particle-free vacuum environments essential for semiconductor manufacturing processes such as etching, deposition, ion implantation, and lithography.

The cryopump for semiconductor industry chain begins upstream with suppliers of helium compressors, cryogenic coolers, aluminum chambers, stainless-steel housings, activated charcoal adsorbents, sensors, vacuum valves, and electronic control components, followed midstream by manufacturers specializing in vacuum engineering, low-temperature technology, precision machining, sealing systems, performance calibration, and semiconductor equipment integration, and ends downstream with OEM semiconductor equipment companies, wafer fabs, advanced packaging houses, maintenance service providers, and global distributors that deliver installation, repair, monitoring, refurbishment, and lifecycle management for semiconductor-grade cryopumping systems.

Current projects under construction and planned include expansions of cryopump production capacity by major vacuum equipment manufacturers in the United States, Japan, South Korea, and China, new facilities for high-capacity Gifford-McMahon and pulse-tube cryopumps used in EUV and advanced etch/deposition tools, collaborative R&D centers focused on helium efficiency and low-vibration technologies, refurbishment

and upgrade programs for installed base cryopumps in global fabs, and semiconductor OEM-led initiatives to integrate smarter, energy-efficient, lower-maintenance cryopumping solutions into next-generation vacuum systems supporting nodes below 7 nm.

2025 Global Market Sales Volume: 4,056 units. Average Global Market Price: USD 23,290 per unit. Market Average Gross Profit Margin: 30%.

The cryopump market for semiconductor applications is experiencing strong growth driven by increased wafer fab expansions, advanced process equipment upgrades, and stricter requirements for oil-free ultra-high-vacuum environments. As semiconductor technology moves toward 7 nm, 5 nm, and 3 nm nodes, cryopumps have become increasingly important due to their ability to deliver clean vacuum performance without hydrocarbon contamination. Demand is particularly strong in etch and deposition chambers, where gas load is high and pumping stability directly affects yield and uniformity.

Regionally, the United States, Japan, and Europe lead in high-end cryopump manufacturing, while China and South Korea show rapid growth in capacity expansion and local substitution. Asia-Pacific remains the largest demand region due to large-scale fab investments.

Market opportunities arise from EUV lithography, where advanced cryogenic vacuum systems are required for both optical modules and chamber environments. However, the industry faces risks such as helium supply constraints, export control restrictions, and long product development cycles. Cryopump technology is gradually shifting toward higher efficiency, longer maintenance intervals, and regenerative functionality to minimize downtime. Competition is increasing as more Asian firms accelerate development of domestic cryogenic vacuum technologies. At the same time, refurbished cryopumps form an important secondary market, especially for aging fabs and non-leading-edge nodes. Industry trends include digital monitoring of cryogenic performance, predictive maintenance systems, and integration of low-vibration cooling technology for precision processes.

Overall, the market remains technologically intensive, highly specialized, and closely tied to semiconductor capital expenditure cycles, with strong long-term growth prospects aligned to global wafer capacity expansion.

LP Information, Inc. (LPI) ' newest research report, the "Cryopump for Semiconductor

Industry Forecast? looks at past sales and reviews total world Cryopump for Semiconductor sales in 2025, providing a comprehensive analysis by region and market sector of projected Cryopump for Semiconductor sales for 2026 through 2032. With Cryopump for Semiconductor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Cryopump for Semiconductor industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Cryopump for Semiconductor 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 Cryopump for Semiconductor.

This report presents a comprehensive overview, market shares, and growth opportunities of Cryopump for Semiconductor market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Diameter Below 300mm

Diameter 300mm-500mm

Diameter 500mm or Large

Segmentation by Cooling Stage Structure:

Single-Stage Cryopump

Multi-Stage Cryopump

Segmentation by Cooling Method:

Helium Mechanical Cryopump

Closed-Cycle Cryopump

Others

Segmentation by Application:

Semiconductor Etching

PVD/CVD Deposition

Ion Implantation

Others

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.

Atlas Copco

SHI Cryogenics

ULVAC, Inc.

PHPK Technologies

Cryofab

CSSC Pride (Nanjing) Cryogenic Technology Co., Ltd

Zhejiang Bwokai Electromechanical Technology Co

Suzhou Bama Superconductive Technology Co

Key Questions Addressed in this Report

What is the 10-year outlook for the global Cryopump for Semiconductor market?

What factors are driving Cryopump for Semiconductor market growth, globally and by region?

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

How do Cryopump for Semiconductor market opportunities vary by end market size?

How does Cryopump for Semiconductor break out by Type, by Application?

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