

Global SiC Epitaxial Growth Equipment Market Growth 2026-2032

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Abstracts

The global SiC Epitaxial Growth Equipment market size is predicted to grow from US\$ 761 million in 2025 to US\$ 1166 million in 2032; it is expected to grow at a CAGR of 6.5% from 2026 to 2032.

SiC epitaxial growth equipment refers to specialized semiconductor manufacturing systems used to deposit high-quality silicon carbide (SiC) epitaxial layers on SiC substrates through controlled chemical vapor deposition (CVD) processes, enabling the production of power electronic devices with superior electrical performance, high temperature resistance, and high breakdown voltage for applications in electric vehicles, renewable energy, and industrial power systems.

The SiC epitaxial growth equipment industry chain begins upstream with suppliers of high-purity gases, SiC substrates, graphite components, heating elements, vacuum systems, and precision control instruments, continues midstream with equipment manufacturers that design and produce epitaxial reactors, temperature control systems, and process software while ensuring uniform deposition and defect control, and extends downstream to semiconductor foundries and integrated device manufacturers that use epitaxial wafers to fabricate power devices such as MOSFETs and diodes, ultimately serving end markets including electric vehicles, renewable energy systems, industrial automation, and high-efficiency power conversion applications.

Current and planned projects in the SiC epitaxial growth equipment sector include expansion of production facilities for next-generation CVD reactors in Asia, Europe, and North America, establishment of new R&D centers focused on scaling epitaxial processes to 8-inch wafers, strategic collaborations between equipment manufacturers and semiconductor companies to improve yield and reduce defect density, government-

supported initiatives to localize SiC supply chains, pilot lines for high-volume manufacturing of automotive-grade SiC wafers, and investments in automation and digitalization technologies to enhance equipment performance, reduce operational costs, and support the rapidly growing demand for power electronics in electric mobility and energy infrastructure.

2025 Global Market sales Volume: 556 Units, Average Global Market Price: USD 1.4 Million/Unit, Market Average Gross Profit Margin: 35%.

The SiC epitaxial growth equipment market is in a high-growth phase driven by the accelerating adoption of silicon carbide power devices, particularly in electric vehicles, fast-charging infrastructure, and renewable energy systems, where SiC offers superior efficiency, higher voltage tolerance, and reduced energy losses compared to traditional silicon-based devices. The market remains relatively concentrated due to high technical barriers, long development cycles, and the need for precise process control, with demand closely tied to the expansion of SiC wafer production capacity and the transition from 6-inch to 8-inch wafer platforms.

From a regional perspective, Asia-Pacific leads in manufacturing expansion, especially in China, Japan, and South Korea, where strong government support and growing domestic demand for EVs and industrial power electronics are driving investments, while Europe and North America maintain leadership in technology innovation and high-end equipment development, supported by established semiconductor ecosystems and strategic initiatives to secure local supply chains.

Opportunities in the market are substantial, particularly with the rapid electrification of transportation, increasing deployment of renewable energy systems, and rising demand for energy-efficient industrial equipment, although risks include high capital investment requirements, technical challenges in scaling to larger wafer sizes, supply chain constraints for critical materials, and competition from alternative wide-bandgap materials such as gallium nitride in certain applications.

Key market trends include the transition toward larger wafer sizes, increasing automation and intelligence in epitaxial equipment, integration of advanced process control and AI-based optimization, and a focus on improving yield and reducing defect densities, while manufacturers are also emphasizing modular designs and cost reduction strategies to enable mass adoption.

Competitive dynamics are characterized by a small number of highly specialized

equipment suppliers competing on technology performance, process stability, and customer relationships, with strong barriers to entry due to intellectual property, engineering complexity, and the need for close collaboration with semiconductor device manufacturers.

LP Information, Inc. (LPI) ' newest research report, the "SiC Epitaxial Growth Equipment Industry Forecast" looks at past sales and reviews total world SiC Epitaxial Growth Equipment sales in 2025, providing a comprehensive analysis by region and market sector of projected SiC Epitaxial Growth Equipment sales for 2026 through 2032. With SiC Epitaxial Growth Equipment sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world SiC Epitaxial Growth Equipment industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for SiC Epitaxial Growth Equipment 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 SiC Epitaxial Growth Equipment.

This report presents a comprehensive overview, market shares, and growth opportunities of SiC Epitaxial Growth Equipment market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

CVD Equipment

MOCVD Equipment

Others

Segmentation by Wafer Size Compatibility:

4-Inch Wafer Equipment

6-Inch Wafer Equipment

8-Inch Wafer Equipment

Segmentation by Automation Level:

Semi-Automatic Equipment

Fully Automatic Equipment

Segmentation by Application:

Power Semiconductor Manufacturing

Electric Vehicle Power Device

Renewable Energy Inverter

Industrial Motor Drive

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.

Tokyo Electron Limited

Aixtron

NuFlare

Veeco

NAURA

ASMI

SiCentury

Leadprotech

Pioneer Semiconductor Research Co

Zhejiang Jingsheng Mechanical & Electrical Co., Ltd

Key Questions Addressed in this Report

What is the 10-year outlook for the global SiC Epitaxial Growth Equipment market?

What factors are driving SiC Epitaxial Growth Equipment market growth, globally and by region?

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

How do SiC Epitaxial Growth Equipment market opportunities vary by end market size?

How does SiC Epitaxial Growth Equipment break out by Type, by Application?

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