

Global SiC Parts for Semiconductor Equipment Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global SiC Parts for Semiconductor Equipment market size was valued at US\$ 1305 million in 2025 and is forecast to a readjusted size of US\$ 2529 million by 2032 with a CAGR of 9.2% during review period.

SiC Parts for semiconductor applications refer to silicon carbide components manufactured from high-purity SiC, CVD-SiC, SiC-coated graphite, sintered SiC, reaction-bonded SiC or recrystallized SiC for use in semiconductor manufacturing equipment. These components are produced through chemical vapor deposition, SiC coating, ceramic sintering, precision machining, surface finishing, ultra-cleaning and dimensional inspection, and are used as key structural parts, wafer-supporting parts, process-chamber functional parts and consumable parts. Typical products include SiC rings, SiC focus rings, SiC edge rings, SiC showerheads, gas distribution plates, SiC susceptors, SiC trays, SiC wafer carriers, SiC boats, SiC tubes, SiC dummy wafers, SiC chamber liners, SiC plates, SiC shields, SiC chucks and SiC end effectors. Their main functions are to improve high-temperature resistance, corrosion resistance, plasma erosion resistance, thermal stability, particle control and contamination performance inside semiconductor process tools. Ferrotec describes CVD-SiC parts as high-purity, corrosion-resistant, oxidation-resistant, heat-resistant and wear-resistant components used in semiconductor manufacturing, including wafer boats, tubes and dummy wafers, while TCK identifies CVD SiC components for dry etchers and diffusion chambers.

SiC Parts can be segmented into SiC rings, SiC showerheads and gas distribution plates, SiC susceptors, trays and wafer carriers, SiC boats, tubes and dummy wafers, SiC chamber liners, plates and shields, SiC chucks and handling components, and

other customized SiC components. SiC rings are the most suitable standalone category, covering focus rings, edge rings, shield rings and preheat rings used for edge control, plasma confinement, thermal-field control and chamber protection in etch, epitaxy, RTP and deposition tools. SiC showerheads and gas distribution plates are high-precision gas delivery and reaction-control parts with strict requirements for hole-pattern machining, cleanliness, corrosion resistance and consistency. SiC susceptors, trays and wafer carriers are mainly used for wafer support and thermal-field uniformity in Si, SiC and GaN epitaxy and MOCVD equipment. Morgan's CVD silicon carbide information lists applications such as susceptors, processing chambers, gas distribution plates, edge rings, heaters and electrostatic chucks, supporting component-form segmentation as a practical reporting framework.

SiC Parts are based on multiple material and process routes rather than a single manufacturing technology. CVD-SiC uses chemical vapor deposition to form high-purity, dense and low-porosity silicon carbide structures or coatings, making it suitable for process-chamber components that require particle control, low contamination, plasma erosion resistance and long lifetime. SiC-coated graphite uses graphite as the substrate and SiC coating as the protective and contamination-control layer, making it suitable for epitaxy susceptors, MOCVD trays, wafer carriers and high-temperature thermal-field parts. Sintered SiC, reaction-bonded SiC and recrystallized SiC are more commonly used in tubes, boats, plates, structural supports, handling parts and precision holding components. CoorsTek describes PureSiC CVD silicon carbide as a high-purity ceramic material and coating formed by CVD for semiconductor applications requiring high cleanliness, while Morgan highlights the conductivity, wear resistance, thermal-shock resistance and process-chamber suitability of CVD SiC.

SiC Parts are mainly used in etch, deposition, diffusion, annealing, RTP, epitaxy, MOCVD, wafer handling and selected inspection-related equipment. Etch equipment generates strong demand for focus rings, edge rings, showerheads, gas distribution plates and chamber liners. As advanced logic, DRAM and 3D NAND processes add more etch steps, the lifetime, particle performance and chamber matching of these consumables have a greater impact on yield and tool availability. Epitaxy and MOCVD equipment mainly require SiC-coated graphite susceptors, trays, wafer carriers and preheat rings, driven by Si, SiC and GaN epitaxial capacity expansion. Diffusion, annealing and high-temperature CVD tools require wafer boats, process tubes, dummy wafers and support parts with high thermal stability and cleanliness. SEMI expects worldwide 300mm fab equipment spending to reach USD 133 billion in 2026, up 18% year over year, and USD 151 billion in 2027, up 14%, providing a favorable demand base for key front-end equipment components.

Policy support in the United States, Europe, China, Japan and Korea is strengthening semiconductor manufacturing, key equipment, materials and component supply chains. CHIPS for America, led by the U.S. Department of Commerce, provides around USD 50 billion in programs to strengthen U.S. semiconductor R&D and manufacturing; the European Chips Act is designed to reinforce the EU semiconductor ecosystem, improve supply-chain resilience and reduce external dependencies; China's 14th Five-Year Plan identifies IC design tools, key equipment and high-purity target materials as key development priorities. Regionally, Japanese suppliers have deep experience in CVD-SiC, SiC coating, fine ceramics and high-temperature parts; Korean suppliers benefit from memory customers and etch consumable supply-chain clusters; U.S. and European suppliers have strong positions in high-purity ceramics, CVD-SiC, precision structures, epitaxy thermal-field parts and high-temperature process components; Chinese suppliers are accelerating qualification and capacity expansion around domestic equipment platforms, second-source adoption by fabs, standardized rings, epitaxy parts and selected CVD-SiC components.

Growth in SiC Parts is driven by rising process complexity, increasing etch intensity, higher 3D NAND layer counts, epitaxy and MOCVD capacity expansion, continued 300mm fab investment, multi-vendor qualification by equipment OEMs and fabs, and regionalized supply-chain strategies. In etch equipment, CVD-SiC focus rings, edge rings, showerheads and chamber liners are moving toward higher purity, lower particle generation, longer lifetime, lower defectivity, stable resistivity and better batch-to-batch consistency. In epitaxy and MOCVD equipment, SiC-coated graphite components are evolving toward larger size, better thermal uniformity, longer lifetime and multi-wafer carrier compatibility. In diffusion, RTP and high-temperature deposition tools, SiC components are increasingly evaluated by thermal-shock resistance, dimensional stability, cleanliness and reusable lifetime. Established overseas suppliers are expected to retain advantages in advanced-node and equipment-OEM-qualified applications, while Chinese suppliers are likely to gain incremental opportunities first in mature-node tools, domestic equipment platforms, epitaxy thermal-field parts, standardized rings and selected CVD-SiC components that have completed customer qualification.

This report is a detailed and comprehensive analysis for global SiC Parts for Semiconductor Equipment market. Both quantitative and qualitative analyses are presented by company, by region & country, By Product Form and By Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along

with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global SiC Parts for Semiconductor Equipment market size and forecasts, in consumption value (\$ Million), 2021-2032

Global SiC Parts for Semiconductor Equipment market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global SiC Parts for Semiconductor Equipment market size and forecasts, By Product Form and By Application, in consumption value (\$ Million), 2021-2032

Global SiC Parts for Semiconductor Equipment market shares of main players, in revenue (\$ Million), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for SiC Parts for Semiconductor Equipment

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global SiC Parts for Semiconductor Equipment market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Tokai Carbon, Morgan Advanced Materials, Ferrotec, Kyocera, CoorsTek, AGC, Saint-Gobain, Mersen, CeramTec, Japan Fine Ceramics Co., Ltd. (JFC), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market segmentation

SiC Parts for Semiconductor Equipment market is split By Product Form and By Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value By Product Form and By Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment By Product Form

- Solid CVD-SiC Components

- SiC-Coated Graphite Components

- Sintered / Reaction-Bonded SiC Components

- Recrystallized SiC Components

- Other SiC-Based Components

Market segment By Component Form

- SiC Rings

- SiC Showerheads / Gas Distribution Plates

- SiC Susceptors / Trays / Wafer Carriers

- SiC Boats / Tubes / Dummy Wafers

- SiC Chamber Liners / Plates / Shields

- SiC Chucks / Handling Components

- Other SiC Components

Market segment By Component Function

- Plasma-Facing Consumables

Wafer Support and Carrier Parts

Thermal Management and High-Temperature Parts

Chamber Structural Components

Precision Motion / Handling Parts

Other Functional Parts

Market segment By Application

Etch Equipment

Epitaxy/MOCVD Equipment

Diffusion/Furnace Equipment

RTP/Annealing Equipment

Deposition Equipment

Other Semiconductor Equipment

Market segment by players, this report covers

Tokai Carbon

Morgan Advanced Materials

Ferrotec

Kyocera

CoorsTek

AGC

Saint-Gobain

Mersen

CeramTec

Japan Fine Ceramics Co., Ltd. (JFC)

TOTO Advanced Ceramics

Schunk Xycarb Technology

SGL Carbon

Toyo Tanso

Bay Carbon

ASUZAC Fine Ceramics

Pacific Rundum

Bullen Ultrasonics

TKG Solmics

Hana Materials Inc.

Worldex Industry & Trading Co., Ltd.

DS Techno

AETS CO., LTD

Entegris

Suzhou KemaTek, Inc.

Hunan Dezhi New Materials

Shenzhen Zhicheng Semiconductor Materials

Chengdu Ultra Pure Applied Materials

Sanzer (Shanghai) New Materials Technology

Beijing YESEMI

Chongqing Xinhui Material Technology

Wuhu Jingchun Technology

Anhui Sixiang Semiconductor Materials Technology

Zhejiang Liufang Semiconductor Technology

JSM

Kallex Company,Ltd

Shaanxi UDC Materials Technology

Shandong Jinhong New Materials

NINGBO FLK TECHNOLOGY

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

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

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

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe SiC Parts for Semiconductor Equipment product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of SiC Parts for Semiconductor Equipment, with revenue, gross margin, and global market share of SiC Parts for Semiconductor Equipment from 2021 to 2026.

Chapter 3, the SiC Parts for Semiconductor Equipment competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size By Product Form and By Application, with consumption value and growth rate By Product Form, By Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and SiC Parts for Semiconductor Equipment market forecast, by regions, By Product Form and By Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of SiC Parts for Semiconductor Equipment.

Chapter 13, to describe SiC Parts for Semiconductor Equipment research findings and conclusion.

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