

# Global Silicon Carbide Components for Semiconductor Equipment Market Growth (Status and Outlook) 2026-2032

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## Abstracts

The global Silicon Carbide Components for Semiconductor Equipment market size is predicted to grow from US\$ 1241 million in 2025 to US\$ 2481 million in 2032; it is expected to grow at a CAGR of 9.8% from 2026 to 2032.

Silicon carbide (SiC) components/parts for semiconductor equipment refer to high-purity SiC, CVD-SiC, SiC-coated graphite, sintered SiC, reaction-bonded SiC and related precision ceramic components manufactured through chemical vapor deposition, SiC coating, solid CVD-SiC growth, precision machining, surface finishing, ultra-cleaning and metrology processes. These components are used in high-temperature, corrosive, plasma-intensive and contamination-sensitive environments inside front-end semiconductor processing equipment. Typical products include focus rings, edge rings, gas distribution plates, chamber liners and shower plates for plasma etch tools; SiC-coated graphite susceptors, trays and wafer carriers for epitaxy and MOCVD equipment; and wafer boats, tubes, dummy wafers, support parts and high-temperature fixtures for diffusion, annealing, RTP and CVD systems. Their key functions are to improve plasma erosion resistance, thermal stability, process uniformity, particle control, contamination performance and lifetime of consumable process-chamber parts.

Silicon carbide (SiC) parts for semiconductor equipment should be treated as a specialized front-end equipment parts and advanced ceramic consumables segment, rather than being mixed with SiC wafers, SiC power devices, SiC modules or general industrial silicon carbide ceramics. The core demand comes from process environments involving plasma, high temperature, corrosive gases and strict contamination control, especially dry etch, epitaxy, diffusion, RTP and MOCVD tools. CVD-SiC focus rings, edge rings, shower plates and chamber-related consumables represent the most

demanding part of the market, while SiC-coated graphite susceptors, trays and carriers have already formed a mature installed base in silicon, SiC and GaN epitaxy. As advanced logic, high-layer-count 3D NAND, compound semiconductor capacity and AI-driven fab investments continue to expand, the industry's value proposition is shifting from simple consumable replacement to chamber lifetime extension, process stability, yield protection and cost-of-ownership improvement.

From a supply perspective, Japan, Korea, the United States and Europe still dominate the global high-end market. Tokai Carbon/TCK, Ferrotec, CoorsTek, Entegris, Morgan Advanced Materials, SGL Carbon, Toyo Tanso, Schunk Xycarb, AGC and Mersen have accumulated long-standing capabilities in CVD-SiC, SiC-coated graphite, high-temperature furnace SiC components, epitaxy susceptors and precision ceramic structures. Korea has developed a strong cluster around etch consumables, with TCK, Hana Materials, Worldex and DS Techno serving memory and advanced-node customers. China is still in the transition from qualification to volume adoption, but suppliers such as Chongqing Genori, Hunan Dezhi, JSM Semiconductor, Shenzhen Zhicheng, Chengdu UPAM, KemaTek/Kaixin and Zhejiang Liufang are accelerating domestic substitution in CVD-SiC, SiC coating and solid SiC etch components.

From a product-route perspective, the market is not a single-technology race. CVD-SiC, SiC-coated graphite, recrystallized SiC, sintered SiC and reaction-bonded SiC each have distinct positioning. In etch tools, high-purity and plasma-resistant CVD-SiC is increasingly used to replace selected silicon, quartz and oxide ceramic parts. In epitaxy and MOCVD, SiC-coated graphite remains mainstream due to thermal uniformity, cost and manufacturability for large-size carriers. In diffusion, RTP, furnace and optomechanical structures, recrystallized SiC, sintered SiC and SiSiC are used according to thermal, mechanical and dimensional requirements. The next stage of competition will be driven by large-size CVD growth, coating uniformity, complex-shape machining, batch consistency, wafer-level contamination control and co-design with equipment OEM chambers.

In past few years, the global market for SiC parts for semiconductor equipment is fast growing, driven by increasing etch intensity in advanced logic and 3D NAND, higher demand for Si/SiC/GaN epitaxy consumables, continued 300mm fab investment, localization programs in China and multi-sourcing strategies among major fabs and equipment OEMs. Pricing will remain resilient for high-end CVD-SiC components, while more standardized SiC rings, SiC-coated graphite components and lower-complexity machined parts may face ASP pressure as Korean second-tier suppliers and Chinese entrants expand capacity.

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

This Insight Report provides a comprehensive analysis of the global Silicon Carbide Components for Semiconductor 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 analyses the strategies of leading global companies with a focus on Silicon Carbide Components for Semiconductor Equipment portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Silicon Carbide Components for Semiconductor Equipment market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Silicon Carbide Components for Semiconductor Equipment and breaks down the forecast By Product Form, 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 Silicon Carbide Components for Semiconductor Equipment.

This report presents a comprehensive overview, market shares, and growth opportunities of Silicon Carbide Components for Semiconductor Equipment market by product type, application, key players and key regions and countries.

Segmentation By Product Form:

Solid CVD-SiC Components

SiC-Coated Graphite Components

Sintered / Reaction-Bonded SiC Components

Recrystallized SiC Components

Other SiC-Based Components

#### Segmentation 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

#### Segmentation 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

#### Segmentation By Application:

Etch Equipment

Epitaxy/MOCVD Equipment

Diffusion/Furnace Equipment

RTP/Annealing Equipment

Deposition Equipment

Other Semiconductor Equipment

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 analyzing the company's coverage, product portfolio, its market penetration.

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

## Contents

### 1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

### 2 EXECUTIVE SUMMARY

#### 2.1 World Market Overview

2.1.1 Global Silicon Carbide Components for Semiconductor Equipment Market Size (2021-2032)

2.1.2 Silicon Carbide Components for Semiconductor Equipment Market Size CAGR by Region (2021 VS 2025 VS 2032)

2.1.3 World Current & Future Analysis for Silicon Carbide Components for Semiconductor Equipment by Country/Region (2021, 2025 & 2032)

#### 2.2 Silicon Carbide Components for Semiconductor Equipment Segment By Product Form

2.2.1 Solid CVD-SiC Components

2.2.2 SiC-Coated Graphite Components

2.2.3 Sintered / Reaction-Bonded SiC Components

2.2.4 Recrystallized SiC Components

2.2.5 Other SiC-Based Components

2.2.6 Silicon Carbide Components for Semiconductor Equipment Market Size By Product Form

2.2.6.1 Silicon Carbide Components for Semiconductor Equipment Market Size CAGR By Product Form (2021 VS 2025 VS 2032)

2.2.6.2 Global Silicon Carbide Components for Semiconductor Equipment Market Size Market Share By Product Form (2021-2026)

#### 2.3 Silicon Carbide Components for Semiconductor Equipment Segment By Component Form

2.3.1 SiC Rings

2.3.2 SiC Showerheads / Gas Distribution Plates

2.3.3 SiC Susceptors / Trays / Wafer Carriers

2.3.4 SiC Boats / Tubes / Dummy Wafers

2.3.5 SiC Chamber Liners / Plates / Shields

2.3.6 SiC Chucks / Handling Components

2.3.7 Other SiC Components

2.3.8 Silicon Carbide Components for Semiconductor Equipment Market Size By Component Form

2.3.8.1 Silicon Carbide Components for Semiconductor Equipment Market Size CAGR By Component Form (2021 VS 2025 VS 2032)

2.3.8.2 Global Silicon Carbide Components for Semiconductor Equipment Market Size Market Share By Component Form (2021-2026)

2.4 Silicon Carbide Components for Semiconductor Equipment Segment By Component Function

2.4.1 Plasma-Facing Consumables

2.4.2 Wafer Support and Carrier Parts

2.4.3 Thermal Management and High-Temperature Parts

2.4.4 Chamber Structural Components

2.4.5 Precision Motion / Handling Parts

2.4.6 Other Functional Parts

2.4.7 Silicon Carbide Components for Semiconductor Equipment Market Size By Component Function

2.4.7.1 Silicon Carbide Components for Semiconductor Equipment Market Size CAGR By Component Function (2021 VS 2025 VS 2032)

2.4.7.2 Global Silicon Carbide Components for Semiconductor Equipment Market Size Market Share By Component Function (2021-2026)

2.5 Silicon Carbide Components for Semiconductor Equipment Segment By Application

2.5.1 Etch Equipment

2.5.2 Epitaxy/MOCVD Equipment

2.5.3 Diffusion/Furnace Equipment

2.5.4 RTP/Annealing Equipment

2.5.5 Deposition Equipment

2.5.6 Other Semiconductor Equipment

2.5.7 Silicon Carbide Components for Semiconductor Equipment Market Size By Application

2.5.7.1 Silicon Carbide Components for Semiconductor Equipment Market Size CAGR By Application (2021 VS 2025 VS 2032)

2.5.7.2 Global Silicon Carbide Components for Semiconductor Equipment Market Size Market Share By Application (2021-2026)

### **3 SILICON CARBIDE COMPONENTS FOR SEMICONDUCTOR EQUIPMENT MARKET SIZE BY PLAYER**

#### **3.1 Silicon Carbide Components for Semiconductor Equipment Market Size Market Share by Player**

##### **3.1.1 Global Silicon Carbide Components for Semiconductor Equipment Revenue by Player (2021-2026)**

##### **3.1.2 Global Silicon Carbide Components for Semiconductor Equipment Revenue Market Share by Player (2021-2026)**

#### **3.2 Global Silicon Carbide Components for Semiconductor Equipment Key Players Head office and Products Offered**

#### **3.3 Market Concentration Rate Analysis**

##### **3.3.1 Competition Landscape Analysis**

##### **3.3.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)**

#### **3.4 New Products and Potential Entrants**

#### **3.5 Mergers & Acquisitions, Expansion**

### **4 SILICON CARBIDE COMPONENTS FOR SEMICONDUCTOR EQUIPMENT BY REGION**

#### **4.1 Silicon Carbide Components for Semiconductor Equipment Market Size by Region (2021-2026)**

#### **4.2 Global Silicon Carbide Components for Semiconductor Equipment Annual Revenue by Country/Region (2021-2026)**

#### **4.3 Americas Silicon Carbide Components for Semiconductor Equipment Market Size Growth (2021-2026)**

#### **4.4 APAC Silicon Carbide Components for Semiconductor Equipment Market Size Growth (2021-2026)**

#### **4.5 Europe Silicon Carbide Components for Semiconductor Equipment Market Size Growth (2021-2026)**

#### **4.6 Middle East & Africa Silicon Carbide Components for Semiconductor Equipment Market Size Growth (2021-2026)**

### **5 AMERICAS**

#### **5.1 Americas Silicon Carbide Components for Semiconductor Equipment Market Size by Country (2021-2026)**

#### **5.2 Americas Silicon Carbide Components for Semiconductor Equipment Market Size By Product Form (2021-2026)**

### 5.3 Americas Silicon Carbide Components for Semiconductor Equipment Market Size By Application (2021-2026)

#### 5.4 United States

#### 5.5 Canada

#### 5.6 Mexico

#### 5.7 Brazil

## 6 APAC

### 6.1 APAC Silicon Carbide Components for Semiconductor Equipment Market Size by Region (2021-2026)

#### 6.2 APAC Silicon Carbide Components for Semiconductor Equipment Market Size By Product Form (2021-2026)

#### 6.3 APAC Silicon Carbide Components for Semiconductor Equipment Market Size By Application (2021-2026)

#### 6.4 China

#### 6.5 Japan

#### 6.6 South Korea

#### 6.7 Southeast Asia

#### 6.8 India

#### 6.9 Australia

## 7 EUROPE

### 7.1 Europe Silicon Carbide Components for Semiconductor Equipment Market Size by Country (2021-2026)

#### 7.2 Europe Silicon Carbide Components for Semiconductor Equipment Market Size By Product Form (2021-2026)

#### 7.3 Europe Silicon Carbide Components for Semiconductor Equipment Market Size By Application (2021-2026)

#### 7.4 Germany

#### 7.5 France

#### 7.6 UK

#### 7.7 Italy

#### 7.8 Russia

## 8 MIDDLE EAST & AFRICA

### 8.1 Middle East & Africa Silicon Carbide Components for Semiconductor Equipment by

## Region (2021-2026)

### 8.2 Middle East & Africa Silicon Carbide Components for Semiconductor Equipment Market Size By Product Form (2021-2026)

### 8.3 Middle East & Africa Silicon Carbide Components for Semiconductor Equipment Market Size By Application (2021-2026)

#### 8.4 Egypt

#### 8.5 South Africa

#### 8.6 Israel

#### 8.7 Turkey

#### 8.8 GCC Countries

## **9 MARKET DRIVERS, CHALLENGES AND TRENDS**

### 9.1 Market Drivers & Growth Opportunities

### 9.2 Market Challenges & Risks

### 9.3 Industry Trends

## **10 GLOBAL SILICON CARBIDE COMPONENTS FOR SEMICONDUCTOR EQUIPMENT MARKET FORECAST**

### 10.1 Global Silicon Carbide Components for Semiconductor Equipment Forecast by Region (2027-2032)

#### 10.1.1 Global Silicon Carbide Components for Semiconductor Equipment Forecast by Region (2027-2032)

##### 10.1.2 Americas Silicon Carbide Components for Semiconductor Equipment Forecast

##### 10.1.3 APAC Silicon Carbide Components for Semiconductor Equipment Forecast

##### 10.1.4 Europe Silicon Carbide Components for Semiconductor Equipment Forecast

##### 10.1.5 Middle East & Africa Silicon Carbide Components for Semiconductor Equipment Forecast

### 10.2 Americas Silicon Carbide Components for Semiconductor Equipment Forecast by Country (2027-2032)

#### 10.2.1 United States Market Silicon Carbide Components for Semiconductor Equipment Forecast

#### 10.2.2 Canada Market Silicon Carbide Components for Semiconductor Equipment Forecast

#### 10.2.3 Mexico Market Silicon Carbide Components for Semiconductor Equipment Forecast

#### 10.2.4 Brazil Market Silicon Carbide Components for Semiconductor Equipment Forecast

### 10.3 APAC Silicon Carbide Components for Semiconductor Equipment Forecast by Region (2027-2032)

#### 10.3.1 China Silicon Carbide Components for Semiconductor Equipment Market Forecast

#### 10.3.2 Japan Market Silicon Carbide Components for Semiconductor Equipment Forecast

#### 10.3.3 Korea Market Silicon Carbide Components for Semiconductor Equipment Forecast

#### 10.3.4 Southeast Asia Market Silicon Carbide Components for Semiconductor Equipment Forecast

#### 10.3.5 India Market Silicon Carbide Components for Semiconductor Equipment Forecast

#### 10.3.6 Australia Market Silicon Carbide Components for Semiconductor Equipment Forecast

### 10.4 Europe Silicon Carbide Components for Semiconductor Equipment Forecast by Country (2027-2032)

#### 10.4.1 Germany Market Silicon Carbide Components for Semiconductor Equipment Forecast

#### 10.4.2 France Market Silicon Carbide Components for Semiconductor Equipment Forecast

#### 10.4.3 UK Market Silicon Carbide Components for Semiconductor Equipment Forecast

#### 10.4.4 Italy Market Silicon Carbide Components for Semiconductor Equipment Forecast

#### 10.4.5 Russia Market Silicon Carbide Components for Semiconductor Equipment Forecast

### 10.5 Middle East & Africa Silicon Carbide Components for Semiconductor Equipment Forecast by Region (2027-2032)

#### 10.5.1 Egypt Market Silicon Carbide Components for Semiconductor Equipment Forecast

#### 10.5.2 South Africa Market Silicon Carbide Components for Semiconductor Equipment Forecast

#### 10.5.3 Israel Market Silicon Carbide Components for Semiconductor Equipment Forecast

#### 10.5.4 Turkey Market Silicon Carbide Components for Semiconductor Equipment Forecast

### 10.6 Global Silicon Carbide Components for Semiconductor Equipment Forecast By Product Form (2027-2032)

### 10.7 Global Silicon Carbide Components for Semiconductor Equipment Forecast By Application (2027-2032)

### 10.7.1 GCC Countries Market Silicon Carbide Components for Semiconductor Equipment Forecast

## 11 KEY PLAYERS ANALYSIS

### 11.1 Tokai Carbon

#### 11.1.1 Tokai Carbon Company Information

#### 11.1.2 Tokai Carbon Silicon Carbide Components for Semiconductor Equipment Product Offered

#### 11.1.3 Tokai Carbon Silicon Carbide Components for Semiconductor Equipment Revenue, Gross Margin and Market Share (2021-2026)

#### 11.1.4 Tokai Carbon Main Business Overview

#### 11.1.5 Tokai Carbon Latest Developments

### 11.2 Morgan Advanced Materials

#### 11.2.1 Morgan Advanced Materials Company Information

#### 11.2.2 Morgan Advanced Materials Silicon Carbide Components for Semiconductor Equipment Product Offered

#### 11.2.3 Morgan Advanced Materials Silicon Carbide Components for Semiconductor Equipment Revenue, Gross Margin and Market Share (2021-2026)

#### 11.2.4 Morgan Advanced Materials Main Business Overview

#### 11.2.5 Morgan Advanced Materials Latest Developments

### 11.3 Ferrotec

#### 11.3.1 Ferrotec Company Information

#### 11.3.2 Ferrotec Silicon Carbide Components for Semiconductor Equipment Product Offered

#### 11.3.3 Ferrotec Silicon Carbide Components for Semiconductor Equipment Revenue, Gross Margin and Market Share (2021-2026)

#### 11.3.4 Ferrotec Main Business Overview

#### 11.3.5 Ferrotec Latest Developments

### 11.4 Kyocera

#### 11.4.1 Kyocera Company Information

#### 11.4.2 Kyocera Silicon Carbide Components for Semiconductor Equipment Product Offered

#### 11.4.3 Kyocera Silicon Carbide Components for Semiconductor Equipment Revenue, Gross Margin and Market Share (2021-2026)

#### 11.4.4 Kyocera Main Business Overview

#### 11.4.5 Kyocera Latest Developments

### 11.5 CoorsTek

#### 11.5.1 CoorsTek Company Information

11.5.2 CoorsTek Silicon Carbide Components for Semiconductor Equipment Product Offered

11.5.3 CoorsTek Silicon Carbide Components for Semiconductor Equipment Revenue, Gross Margin and Market Share (2021-2026)

11.5.4 CoorsTek Main Business Overview

11.5.5 CoorsTek Latest Developments

11.6 AGC

11.6.1 AGC Company Information

11.6.2 AGC Silicon Carbide Components for Semiconductor Equipment Product Offered

11.6.3 AGC Silicon Carbide Components for Semiconductor Equipment Revenue, Gross Margin and Market Share (2021-2026)

11.6.4 AGC Main Business Overview

11.6.5 AGC Latest Developments

11.7 Saint-Gobain

11.7.1 Saint-Gobain Company Information

11.7.2 Saint-Gobain Silicon Carbide Components for Semiconductor Equipment Product Offered

11.7.3 Saint-Gobain Silicon Carbide Components for Semiconductor Equipment Revenue, Gross Margin and Market Share (2021-2026)

11.7.4 Saint-Gobain Main Business Overview

11.7.5 Saint-Gobain Latest Developments

11.8 Mersen

11.8.1 Mersen Company Information

11.8.2 Mersen Silicon Carbide Components for Semiconductor Equipment Product Offered

11.8.3 Mersen Silicon Carbide Components for Semiconductor Equipment Revenue, Gross Margin and Market Share (2021-2026)

11.8.4 Mersen Main Business Overview

11.8.5 Mersen Latest Developments

11.9 CeramTec

11.9.1 CeramTec Company Information

11.9.2 CeramTec Silicon Carbide Components for Semiconductor Equipment Product Offered

11.9.3 CeramTec Silicon Carbide Components for Semiconductor Equipment Revenue, Gross Margin and Market Share (2021-2026)

11.9.4 CeramTec Main Business Overview

11.9.5 CeramTec Latest Developments

11.10 Japan Fine Ceramics Co., Ltd. (JFC)

- 11.10.1 Japan Fine Ceramics Co., Ltd. (JFC) Company Information
- 11.10.2 Japan Fine Ceramics Co., Ltd. (JFC) Silicon Carbide Components for Semiconductor Equipment Product Offered
- 11.10.3 Japan Fine Ceramics Co., Ltd. (JFC) Silicon Carbide Components for Semiconductor Equipment Revenue, Gross Margin and Market Share (2021-2026)
- 11.10.4 Japan Fine Ceramics Co., Ltd. (JFC) Main Business Overview
- 11.10.5 Japan Fine Ceramics Co., Ltd. (JFC) Latest Developments
- 11.11 TOTO Advanced Ceramics
  - 11.11.1 TOTO Advanced Ceramics Company Information
  - 11.11.2 TOTO Advanced Ceramics Silicon Carbide Components for Semiconductor Equipment Product Offered
  - 11.11.3 TOTO Advanced Ceramics Silicon Carbide Components for Semiconductor Equipment Revenue, Gross Margin and Market Share (2021-2026)
  - 11.11.4 TOTO Advanced Ceramics Main Business Overview
  - 11.11.5 TOTO Advanced Ceramics Latest Developments
- 11.12 Schunk Xycarb Technology
  - 11.12.1 Schunk Xycarb Technology Company Information
  - 11.12.2 Schunk Xycarb Technology Silicon Carbide Components for Semiconductor Equipment Product Offered
  - 11.12.3 Schunk Xycarb Technology Silicon Carbide Components for Semiconductor Equipment Revenue, Gross Margin and Market Share (2021-2026)
  - 11.12.4 Schunk Xycarb Technology Main Business Overview
  - 11.12.5 Schunk Xycarb Technology Latest Developments
- 11.13 SGL Carbon
  - 11.13.1 SGL Carbon Company Information
  - 11.13.2 SGL Carbon Silicon Carbide Components for Semiconductor Equipment Product Offered
  - 11.13.3 SGL Carbon Silicon Carbide Components for Semiconductor Equipment Revenue, Gross Margin and Market Share (2021-2026)
  - 11.13.4 SGL Carbon Main Business Overview
  - 11.13.5 SGL Carbon Latest Developments
- 11.14 Toyo Tanso
  - 11.14.1 Toyo Tanso Company Information
  - 11.14.2 Toyo Tanso Silicon Carbide Components for Semiconductor Equipment Product Offered
  - 11.14.3 Toyo Tanso Silicon Carbide Components for Semiconductor Equipment Revenue, Gross Margin and Market Share (2021-2026)
  - 11.14.4 Toyo Tanso Main Business Overview
  - 11.14.5 Toyo Tanso Latest Developments

## 11.15 Bay Carbon

### 11.15.1 Bay Carbon Company Information

### 11.15.2 Bay Carbon Silicon Carbide Components for Semiconductor Equipment Product Offered

### 11.15.3 Bay Carbon Silicon Carbide Components for Semiconductor Equipment Revenue, Gross Margin and Market Share (2021-2026)

### 11.15.4 Bay Carbon Main Business Overview

### 11.15.5 Bay Carbon Latest Developments

## 11.16 ASUZAC Fine Ceramics

### 11.16.1 ASUZAC Fine Ceramics Company Information

### 11.16.2 ASUZAC Fine Ceramics Silicon Carbide Components for Semiconductor Equipment Product Offered

### 11.16.3 ASUZAC Fine Ceramics Silicon Carbide Components for Semiconductor Equipment Revenue, Gross Margin and Market Share (2021-2026)

### 11.16.4 ASUZAC Fine Ceramics Main Business Overview

### 11.16.5 ASUZAC Fine Ceramics Latest Developments

## 11.17 Pacific Rundum

### 11.17.1 Pacific Rundum Company Information

### 11.17.2 Pacific Rundum Silicon Carbide Components for Semiconductor Equipment Product Offered

### 11.17.3 Pacific Rundum Silicon Carbide Components for Semiconductor Equipment Revenue, Gross Margin and Market Share (2021-2026)

### 11.17.4 Pacific Rundum Main Business Overview

### 11.17.5 Pacific Rundum Latest Developments

## 11.18 Bullen Ultrasonics

### 11.18.1 Bullen Ultrasonics Company Information

### 11.18.2 Bullen Ultrasonics Silicon Carbide Components for Semiconductor Equipment Product Offered

### 11.18.3 Bullen Ultrasonics Silicon Carbide Components for Semiconductor Equipment Revenue, Gross Margin and Market Share (2021-2026)

### 11.18.4 Bullen Ultrasonics Main Business Overview

### 11.18.5 Bullen Ultrasonics Latest Developments

## 11.19 TKG Solmics

### 11.19.1 TKG Solmics Company Information

### 11.19.2 TKG Solmics Silicon Carbide Components for Semiconductor Equipment Product Offered

### 11.19.3 TKG Solmics Silicon Carbide Components for Semiconductor Equipment Revenue, Gross Margin and Market Share (2021-2026)

### 11.19.4 TKG Solmics Main Business Overview

- 11.19.5 TKG Solmics Latest Developments
- 11.20 Hana Materials Inc.
  - 11.20.1 Hana Materials Inc. Company Information
  - 11.20.2 Hana Materials Inc. Silicon Carbide Components for Semiconductor Equipment Product Offered
  - 11.20.3 Hana Materials Inc. Silicon Carbide Components for Semiconductor Equipment Revenue, Gross Margin and Market Share (2021-2026)
  - 11.20.4 Hana Materials Inc. Main Business Overview
  - 11.20.5 Hana Materials Inc. Latest Developments
- 11.21 Worldex Industry & Trading Co., Ltd.
  - 11.21.1 Worldex Industry & Trading Co., Ltd. Company Information
  - 11.21.2 Worldex Industry & Trading Co., Ltd. Silicon Carbide Components for Semiconductor Equipment Product Offered
  - 11.21.3 Worldex Industry & Trading Co., Ltd. Silicon Carbide Components for Semiconductor Equipment Revenue, Gross Margin and Market Share (2021-2026)
  - 11.21.4 Worldex Industry & Trading Co., Ltd. Main Business Overview
  - 11.21.5 Worldex Industry & Trading Co., Ltd. Latest Developments
- 11.22 DS Techno
  - 11.22.1 DS Techno Company Information
  - 11.22.2 DS Techno Silicon Carbide Components for Semiconductor Equipment Product Offered
  - 11.22.3 DS Techno Silicon Carbide Components for Semiconductor Equipment Revenue, Gross Margin and Market Share (2021-2026)
  - 11.22.4 DS Techno Main Business Overview
  - 11.22.5 DS Techno Latest Developments
- 11.23 AETS CO., LTD
  - 11.23.1 AETS CO., LTD Company Information
  - 11.23.2 AETS CO., LTD Silicon Carbide Components for Semiconductor Equipment Product Offered
  - 11.23.3 AETS CO., LTD Silicon Carbide Components for Semiconductor Equipment Revenue, Gross Margin and Market Share (2021-2026)
  - 11.23.4 AETS CO., LTD Main Business Overview
  - 11.23.5 AETS CO., LTD Latest Developments
- 11.24 Entegris
  - 11.24.1 Entegris Company Information
  - 11.24.2 Entegris Silicon Carbide Components for Semiconductor Equipment Product Offered
  - 11.24.3 Entegris Silicon Carbide Components for Semiconductor Equipment Revenue, Gross Margin and Market Share (2021-2026)

- 11.24.4 Entegris Main Business Overview
- 11.24.5 Entegris Latest Developments
- 11.25 Suzhou KemaTek, Inc.
  - 11.25.1 Suzhou KemaTek, Inc. Company Information
  - 11.25.2 Suzhou KemaTek, Inc. Silicon Carbide Components for Semiconductor Equipment Product Offered
  - 11.25.3 Suzhou KemaTek, Inc. Silicon Carbide Components for Semiconductor Equipment Revenue, Gross Margin and Market Share (2021-2026)
  - 11.25.4 Suzhou KemaTek, Inc. Main Business Overview
  - 11.25.5 Suzhou KemaTek, Inc. Latest Developments
- 11.26 Hunan Dezhi New Materials
  - 11.26.1 Hunan Dezhi New Materials Company Information
  - 11.26.2 Hunan Dezhi New Materials Silicon Carbide Components for Semiconductor Equipment Product Offered
  - 11.26.3 Hunan Dezhi New Materials Silicon Carbide Components for Semiconductor Equipment Revenue, Gross Margin and Market Share (2021-2026)
  - 11.26.4 Hunan Dezhi New Materials Main Business Overview
  - 11.26.5 Hunan Dezhi New Materials Latest Developments
- 11.27 Shenzhen Zhicheng Semiconductor Materials
  - 11.27.1 Shenzhen Zhicheng Semiconductor Materials Company Information
  - 11.27.2 Shenzhen Zhicheng Semiconductor Materials Silicon Carbide Components for Semiconductor Equipment Product Offered
  - 11.27.3 Shenzhen Zhicheng Semiconductor Materials Silicon Carbide Components for Semiconductor Equipment Revenue, Gross Margin and Market Share (2021-2026)
  - 11.27.4 Shenzhen Zhicheng Semiconductor Materials Main Business Overview
  - 11.27.5 Shenzhen Zhicheng Semiconductor Materials Latest Developments
- 11.28 Chengdu Ultra Pure Applied Materials
  - 11.28.1 Chengdu Ultra Pure Applied Materials Company Information
  - 11.28.2 Chengdu Ultra Pure Applied Materials Silicon Carbide Components for Semiconductor Equipment Product Offered
  - 11.28.3 Chengdu Ultra Pure Applied Materials Silicon Carbide Components for Semiconductor Equipment Revenue, Gross Margin and Market Share (2021-2026)
  - 11.28.4 Chengdu Ultra Pure Applied Materials Main Business Overview
  - 11.28.5 Chengdu Ultra Pure Applied Materials Latest Developments
- 11.29 Sanzer (Shanghai) New Materials Technology
  - 11.29.1 Sanzer (Shanghai) New Materials Technology Company Information
  - 11.29.2 Sanzer (Shanghai) New Materials Technology Silicon Carbide Components for Semiconductor Equipment Product Offered
  - 11.29.3 Sanzer (Shanghai) New Materials Technology Silicon Carbide Components for

Semiconductor Equipment Revenue, Gross Margin and Market Share (2021-2026)

11.29.4 Sanzer (Shanghai) New Materials Technology Main Business Overview

11.29.5 Sanzer (Shanghai) New Materials Technology Latest Developments

11.30 Beijing YESEMi

11.30.1 Beijing YESEMi Company Information

11.30.2 Beijing YESEMi Silicon Carbide Components for Semiconductor Equipment Product Offered

11.30.3 Beijing YESEMi Silicon Carbide Components for Semiconductor Equipment Revenue, Gross Margin and Market Share (2021-2026)

11.30.4 Beijing YESEMi Main Business Overview

11.30.5 Beijing YESEMi Latest Developments

11.31 Chongqing Xinhui Material Technology

11.31.1 Chongqing Xinhui Material Technology Company Information

11.31.2 Chongqing Xinhui Material Technology Silicon Carbide Components for Semiconductor Equipment Product Offered

11.31.3 Chongqing Xinhui Material Technology Silicon Carbide Components for Semiconductor Equipment Revenue, Gross Margin and Market Share (2021-2026)

11.31.4 Chongqing Xinhui Material Technology Main Business Overview

11.31.5 Chongqing Xinhui Material Technology Latest Developments

11.32 Wuhu Jingchun Technology

11.32.1 Wuhu Jingchun Technology Company Information

11.32.2 Wuhu Jingchun Technology Silicon Carbide Components for Semiconductor Equipment Product Offered

11.32.3 Wuhu Jingchun Technology Silicon Carbide Components for Semiconductor Equipment Revenue, Gross Margin and Market Share (2021-2026)

11.32.4 Wuhu Jingchun Technology Main Business Overview

11.32.5 Wuhu Jingchun Technology Latest Developments

11.33 Anhui Sixiang Semiconductor Materials Technology

11.33.1 Anhui Sixiang Semiconductor Materials Technology Company Information

11.33.2 Anhui Sixiang Semiconductor Materials Technology Silicon Carbide Components for Semiconductor Equipment Product Offered

11.33.3 Anhui Sixiang Semiconductor Materials Technology Silicon Carbide Components for Semiconductor Equipment Revenue, Gross Margin and Market Share (2021-2026)

11.33.4 Anhui Sixiang Semiconductor Materials Technology Main Business Overview

11.33.5 Anhui Sixiang Semiconductor Materials Technology Latest Developments

11.34 Zhejiang Liufang Semiconductor Technology

11.34.1 Zhejiang Liufang Semiconductor Technology Company Information

11.34.2 Zhejiang Liufang Semiconductor Technology Silicon Carbide Components for

## Semiconductor Equipment Product Offered

11.34.3 Zhejiang Liufang Semiconductor Technology Silicon Carbide Components for Semiconductor Equipment Revenue, Gross Margin and Market Share (2021-2026)

11.34.4 Zhejiang Liufang Semiconductor Technology Main Business Overview

11.34.5 Zhejiang Liufang Semiconductor Technology Latest Developments

## 11.35 JSM

11.35.1 JSM Company Information

11.35.2 JSM Silicon Carbide Components for Semiconductor Equipment Product Offered

11.35.3 JSM Silicon Carbide Components for Semiconductor Equipment Revenue, Gross Margin and Market Share (2021-2026)

11.35.4 JSM Main Business Overview

11.35.5 JSM Latest Developments

## 11.36 Kallex Company,Ltd

11.36.1 Kallex Company,Ltd Company Information

11.36.2 Kallex Company,Ltd Silicon Carbide Components for Semiconductor Equipment Product Offered

11.36.3 Kallex Company,Ltd Silicon Carbide Components for Semiconductor Equipment Revenue, Gross Margin and Market Share (2021-2026)

11.36.4 Kallex Company,Ltd Main Business Overview

11.36.5 Kallex Company,Ltd Latest Developments

## 11.37 Shaanxi UDC Materials Technology

11.37.1 Shaanxi UDC Materials Technology Company Information

11.37.2 Shaanxi UDC Materials Technology Silicon Carbide Components for Semiconductor Equipment Product Offered

11.37.3 Shaanxi UDC Materials Technology Silicon Carbide Components for Semiconductor Equipment Revenue, Gross Margin and Market Share (2021-2026)

11.37.4 Shaanxi UDC Materials Technology Main Business Overview

11.37.5 Shaanxi UDC Materials Technology Latest Developments

## 11.38 Shandong Jinhong New Materials

11.38.1 Shandong Jinhong New Materials Company Information

11.38.2 Shandong Jinhong New Materials Silicon Carbide Components for Semiconductor Equipment Product Offered

11.38.3 Shandong Jinhong New Materials Silicon Carbide Components for Semiconductor Equipment Revenue, Gross Margin and Market Share (2021-2026)

11.38.4 Shandong Jinhong New Materials Main Business Overview

11.38.5 Shandong Jinhong New Materials Latest Developments

## 11.39 NINGBO FLK TECHNOLOGY

11.39.1 NINGBO FLK TECHNOLOGY Company Information

11.39.2 NINGBO FLK TECHNOLOGY Silicon Carbide Components for Semiconductor Equipment Product Offered

11.39.3 NINGBO FLK TECHNOLOGY Silicon Carbide Components for Semiconductor Equipment Revenue, Gross Margin and Market Share (2021-2026)

11.39.4 NINGBO FLK TECHNOLOGY Main Business Overview

11.39.5 NINGBO FLK TECHNOLOGY Latest Developments

## **12 RESEARCH FINDINGS AND CONCLUSION**

## List Of Tables

### LIST OF TABLES

Table 1. Silicon Carbide Components for Semiconductor Equipment Market Size CAGR by Region (2021 VS 2025 VS 2032) & (\$ millions)

Table 2. Silicon Carbide Components for Semiconductor Equipment Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Solid CVD-SiC Components

Table 4. Major Players of SiC-Coated Graphite Components

Table 5. Major Players of Sintered / Reaction-Bonded SiC Components

Table 6. Major Players of Recrystallized SiC Components

Table 7. Major Players of Other SiC-Based Components

Table 8. Silicon Carbide Components for Semiconductor Equipment Market Size CAGR By Product Form (2021 VS 2025 VS 2032) & (\$ millions)

Table 9. Global Silicon Carbide Components for Semiconductor Equipment Market Size By Product Form (2021-2026) & (\$ millions)

Table 10. Global Silicon Carbide Components for Semiconductor Equipment Market Size Market Share By Product Form (2021-2026)

Table 11. Major Players of SiC Rings

Table 12. Major Players of SiC Showerheads / Gas Distribution Plates

Table 13. Major Players of SiC Susceptors / Trays / Wafer Carriers

Table 14. Major Players of SiC Boats / Tubes / Dummy Wafers

Table 15. Major Players of SiC Chamber Liners / Plates / Shields

Table 16. Major Players of SiC Chucks / Handling Components

Table 17. Major Players of Other SiC Components

Table 18. Silicon Carbide Components for Semiconductor Equipment Market Size CAGR By Component Form (2021 VS 2025 VS 2032) & (\$ millions)

Table 19. Global Silicon Carbide Components for Semiconductor Equipment Market Size By Component Form (2021-2026) & (\$ millions)

Table 20. Global Silicon Carbide Components for Semiconductor Equipment Market Size Market Share By Component Form (2021-2026)

Table 21. Major Players of Plasma-Facing Consumables

Table 22. Major Players of Wafer Support and Carrier Parts

Table 23. Major Players of Thermal Management and High-Temperature Parts

Table 24. Major Players of Chamber Structural Components

Table 25. Major Players of Precision Motion / Handling Parts

Table 26. Major Players of Other Functional Parts

Table 27. Silicon Carbide Components for Semiconductor Equipment Market Size

CAGR By Component Function (2021 VS 2025 VS 2032) & (\$ millions)

Table 28. Global Silicon Carbide Components for Semiconductor Equipment Market Size By Component Function (2021-2026) & (\$ millions)

Table 29. Global Silicon Carbide Components for Semiconductor Equipment Market Size Market Share By Component Function (2021-2026)

Table 30. Silicon Carbide Components for Semiconductor Equipment Market Size CAGR By Application (2021 VS 2025 VS 2032) & (\$ millions)

Table 31. Global Silicon Carbide Components for Semiconductor Equipment Market Size By Application (2021-2026) & (\$ millions)

Table 32. Global Silicon Carbide Components for Semiconductor Equipment Market Size Market Share By Application (2021-2026)

Table 33. Global Silicon Carbide Components for Semiconductor Equipment Revenue by Player (2021-2026) & (\$ millions)

Table 34. Global Silicon Carbide Components for Semiconductor Equipment Revenue Market Share by Player (2021-2026)

Table 35. Silicon Carbide Components for Semiconductor Equipment Key Players Head office and Products Offered

Table 36. Silicon Carbide Components for Semiconductor Equipment Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 37. New Products and Potential Entrants

Table 38. Mergers & Acquisitions, Expansion

Table 39. Global Silicon Carbide Components for Semiconductor Equipment Market Size by Region (2021-2026) & (\$ millions)

Table 40. Global Silicon Carbide Components for Semiconductor Equipment Market Size Market Share by Region (2021-2026)

Table 41. Global Silicon Carbide Components for Semiconductor Equipment Revenue by Country/Region (2021-2026) & (\$ millions)

Table 42. Global Silicon Carbide Components for Semiconductor Equipment Revenue Market Share by Country/Region (2021-2026)

Table 43. Americas Silicon Carbide Components for Semiconductor Equipment Market Size by Country (2021-2026) & (\$ millions)

Table 44. Americas Silicon Carbide Components for Semiconductor Equipment Market Size Market Share by Country (2021-2026)

Table 45. Americas Silicon Carbide Components for Semiconductor Equipment Market Size By Product Form (2021-2026) & (\$ millions)

Table 46. Americas Silicon Carbide Components for Semiconductor Equipment Market Size Market Share By Product Form (2021-2026)

Table 47. Americas Silicon Carbide Components for Semiconductor Equipment Market Size By Application (2021-2026) & (\$ millions)

Table 48. Americas Silicon Carbide Components for Semiconductor Equipment Market Size Market Share By Application (2021-2026)

Table 49. APAC Silicon Carbide Components for Semiconductor Equipment Market Size by Region (2021-2026) & (\$ millions)

Table 50. APAC Silicon Carbide Components for Semiconductor Equipment Market Size Market Share by Region (2021-2026)

Table 51. APAC Silicon Carbide Components for Semiconductor Equipment Market Size By Product Form (2021-2026) & (\$ millions)

Table 52. APAC Silicon Carbide Components for Semiconductor Equipment Market Size By Application (2021-2026) & (\$ millions)

Table 53. Europe Silicon Carbide Components for Semiconductor Equipment Market Size by Country (2021-2026) & (\$ millions)

Table 54. Europe Silicon Carbide Components for Semiconductor Equipment Market Size Market Share by Country (2021-2026)

Table 55. Europe Silicon Carbide Components for Semiconductor Equipment Market Size By Product Form (2021-2026) & (\$ millions)

Table 56. Europe Silicon Carbide Components for Semiconductor Equipment Market Size By Application (2021-2026) & (\$ millions)

Table 57. Middle East & Africa Silicon Carbide Components for Semiconductor Equipment Market Size by Region (2021-2026) & (\$ millions)

Table 58. Middle East & Africa Silicon Carbide Components for Semiconductor Equipment Market Size By Product Form (2021-2026) & (\$ millions)

Table 59. Middle East & Africa Silicon Carbide Components for Semiconductor Equipment Market Size By Application (2021-2026) & (\$ millions)

Table 60. Key Market Drivers & Growth Opportunities of Silicon Carbide Components for Semiconductor Equipment

Table 61. Key Market Challenges & Risks of Silicon Carbide Components for Semiconductor Equipment

Table 62. Key Industry Trends of Silicon Carbide Components for Semiconductor Equipment

Table 63. Global Silicon Carbide Components for Semiconductor Equipment Market Size Forecast by Region (2027-2032) & (\$ millions)

Table 64. Global Silicon Carbide Components for Semiconductor Equipment Market Size Market Share Forecast by Region (2027-2032)

Table 65. Global Silicon Carbide Components for Semiconductor Equipment Market Size Forecast By Product Form (2027-2032) & (\$ millions)

Table 66. Global Silicon Carbide Components for Semiconductor Equipment Market Size Forecast By Application (2027-2032) & (\$ millions)

Table 67. Tokai Carbon Details, Company Type, Silicon Carbide Components for

Semiconductor Equipment Area Served and Its Competitors

Table 68. Tokai Carbon Silicon Carbide Components for Semiconductor Equipment Product Offered

Table 69. Tokai Carbon Silicon Carbide Components for Semiconductor Equipment Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 70. Tokai Carbon Main Business

Table 71. Tokai Carbon Latest Developments

Table 72. Morgan Advanced Materials Details, Company Type, Silicon Carbide Components for Semiconductor Equipment Area Served and Its Competitors

Table 73. Morgan Advanced Materials Silicon Carbide Components for Semiconductor Equipment Product Offered

Table 74. Morgan Advanced Materials Silicon Carbide Components for Semiconductor Equipment Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 75. Morgan Advanced Materials Main Business

Table 76. Morgan Advanced Materials Latest Developments

Table 77. Ferrotec Details, Company Type, Silicon Carbide Components for Semiconductor Equipment Area Served and Its Competitors

Table 78. Ferrotec Silicon Carbide Components for Semiconductor Equipment Product Offered

Table 79. Ferrotec Silicon Carbide Components for Semiconductor Equipment Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 80. Ferrotec Main Business

Table 81. Ferrotec Latest Developments

Table 82. Kyocera Details, Company Type, Silicon Carbide Components for Semiconductor Equipment Area Served and Its Competitors

Table 83. Kyocera Silicon Carbide Components for Semiconductor Equipment Product Offered

Table 84. Kyocera Silicon Carbide Components for Semiconductor Equipment Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 85. Kyocera Main Business

Table 86. Kyocera Latest Developments

Table 87. CoorsTek Details, Company Type, Silicon Carbide Components for Semiconductor Equipment Area Served and Its Competitors

Table 88. CoorsTek Silicon Carbide Components for Semiconductor Equipment Product Offered

Table 89. CoorsTek Silicon Carbide Components for Semiconductor Equipment Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 90. CoorsTek Main Business

Table 91. CoorsTek Latest Developments

Table 92. AGC Details, Company Type, Silicon Carbide Components for Semiconductor Equipment Area Served and Its Competitors

Table 93. AGC Silicon Carbide Components for Semiconductor Equipment Product Offered

Table 94. AGC Silicon Carbide Components for Semiconductor Equipment Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 95. AGC Main Business

Table 96. AGC Latest Developments

Table 97. Saint-Gobain Details, Company Type, Silicon Carbide Components for Semiconductor Equipment Area Served and Its Competitors

Table 98. Saint-Gobain Silicon Carbide Components for Semiconductor Equipment Product Offered

Table 99. Saint-Gobain Silicon Carbide Components for Semiconductor Equipment Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 100. Saint-Gobain Main Business

Table 101. Saint-Gobain Latest Developments

Table 102. Mersen Details, Company Type, Silicon Carbide Components for Semiconductor Equipment Area Served and Its Competitors

Table 103. Mersen Silicon Carbide Components for Semiconductor Equipment Product Offered

Table 104. Mersen Silicon Carbide Components for Semiconductor Equipment Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 105. Mersen Main Business

Table 106. Mersen Latest Developments

Table 107. CeramTec Details, Company Type, Silicon Carbide Components for Semiconductor Equipment Area Served and Its Competitors

Table 108. CeramTec Silicon Carbide Components for Semiconductor Equipment Product Offered

Table 109. CeramTec Silicon Carbide Components for Semiconductor Equipment Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 110. CeramTec Main Business

Table 111. CeramTec Latest Developments

Table 112. Japan Fine Ceramics Co., Ltd. (JFC) Details, Company Type, Silicon Carbide Components for Semiconductor Equipment Area Served and Its Competitors

Table 113. Japan Fine Ceramics Co., Ltd. (JFC) Silicon Carbide Components for Semiconductor Equipment Product Offered

Table 114. Japan Fine Ceramics Co., Ltd. (JFC) Silicon Carbide Components for Semiconductor Equipment Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 115. Japan Fine Ceramics Co., Ltd. (JFC) Main Business

Table 116. Japan Fine Ceramics Co., Ltd. (JFC) Latest Developments

Table 117. TOTO Advanced Ceramics Details, Company Type, Silicon Carbide Components for Semiconductor Equipment Area Served and Its Competitors

Table 118. TOTO Advanced Ceramics Silicon Carbide Components for Semiconductor Equipment Product Offered

Table 119. TOTO Advanced Ceramics Silicon Carbide Components for Semiconductor Equipment Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 120. TOTO Advanced Ceramics Main Business

Table 121. TOTO Advanced Ceramics Latest Developments

Table 122. Schunk Xycarb Technology Details, Company Type, Silicon Carbide Components for Semiconductor Equipment Area Served and Its Competitors

Table 123. Schunk Xycarb Technology Silicon Carbide Components for Semiconductor Equipment Product Offered

Table 124. Schunk Xycarb Technology Silicon Carbide Components for Semiconductor Equipment Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 125. Schunk Xycarb Technology Main Business

Table 126. Schunk Xycarb Technology Latest Developments

Table 127. SGL Carbon Details, Company Type, Silicon Carbide Components for Semiconductor Equipment Area Served and Its Competitors

Table 128. SGL Carbon Silicon Carbide Components for Semiconductor Equipment Product Offered

Table 129. SGL Carbon Silicon Carbide Components for Semiconductor Equipment Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 130. SGL Carbon Main Business

Table 131. SGL Carbon Latest Developments

Table 132. Toyo Tanso Details, Company Type, Silicon Carbide Components for Semiconductor Equipment Area Served and Its Competitors

Table 133. Toyo Tanso Silicon Carbide Components for Semiconductor Equipment Product Offered

Table 134. Toyo Tanso Silicon Carbide Components for Semiconductor Equipment Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 135. Toyo Tanso Main Business

Table 136. Toyo Tanso Latest Developments

Table 137. Bay Carbon Details, Company Type, Silicon Carbide Components for Semiconductor Equipment Area Served and Its Competitors

Table 138. Bay Carbon Silicon Carbide Components for Semiconductor Equipment Product Offered

Table 139. Bay Carbon Silicon Carbide Components for Semiconductor Equipment

Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 140. Bay Carbon Main Business

Table 141. Bay Carbon Latest Developments

Table 142. ASUZAC Fine Ceramics Details, Company Type, Silicon Carbide Components for Semiconductor Equipment Area Served and Its Competitors

Table 143. ASUZAC Fine Ceramics Silicon Carbide Components for Semiconductor Equipment Product Offered

Table 144. ASUZAC Fine Ceramics Silicon Carbide Components for Semiconductor Equipment Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 145. ASUZAC Fine Ceramics Main Business

Table 146. ASUZAC Fine Ceramics Latest Developments

Table 147. Pacific Rundum Details, Company Type, Silicon Carbide Components for Semiconductor Equipment Area Served and Its Competitors

Table 148. Pacific Rundum Silicon Carbide Components for Semiconductor Equipment Product Offered

Table 149. Pacific Rundum Silicon Carbide Components for Semiconductor Equipment Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 150. Pacific Rundum Main Business

Table 151. Pacific Rundum Latest Developments

Table 152. Bullen Ultrasonics Details, Company Type, Silicon Carbide Components for Semiconductor Equipment Area Served and Its Competitors

Table 153. Bullen Ultrasonics Silicon Carbide Components for Semiconductor Equipment Product Offered

Table 154. Bullen Ultrasonics Silicon Carbide Components for Semiconductor Equipment Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 155. Bullen Ultrasonics Main Business

Table 156. Bullen Ultrasonics Latest Developments

Table 157. TKG Solmics Details, Company Type, Silicon Carbide Components for Semiconductor Equipment Area Served and Its Competitors

Table 158. TKG Solmics Silicon Carbide Components for Semiconductor Equipment Product Offered

Table 159. TKG Solmics Silicon Carbide Components for Semiconductor Equipment Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 160. TKG Solmics Main Business

Table 161. TKG Solmics Latest Developments

Table 162. Hana Materials Inc. Details, Company Type, Silicon Carbide Components for Semiconductor Equipment Area Served and Its Competitors

Table 163. Hana Materials Inc. Silicon Carbide Components for Semiconductor Equipment Product Offered

Table 164. Hana Materials Inc. Silicon Carbide Components for Semiconductor Equipment Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 165. Hana Materials Inc. Main Business

Table 166. Hana Materials Inc. Latest Developments

Table 167. Worldex Industry & Trading Co., Ltd. Details, Company Type, Silicon Carbide Components for Semiconductor Equipment Area Served and Its Competitors

Table 168. Worldex Industry & Trading Co., Ltd. Silicon Carbide Components for Semiconductor Equipment Product Offered

Table 169. Worldex Industry & Trading Co., Ltd. Silicon Carbide Components for Semiconductor Equipment Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 170. Worldex Industry & Trading Co., Ltd. Main Business

Table 171. Worldex Industry & Trading Co., Ltd. Latest Developments

Table 172. DS Techno Details, Company Type, Silicon Carbide Components for Semiconductor Equipment Area Served and Its Competitors

Table 173. DS Techno Silicon Carbide Components for Semiconductor Equipment Product Offered

Table 174. DS Techno Silicon Carbide Components for Semiconductor Equipment Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 175. DS Techno Main Business

Table 176. DS Techno Latest Developments

Table 177. AETS CO., LTD Details, Company Type, Silicon Carbide Components for Semiconductor Equipment Area Served and Its Competitors

Table 178. AETS CO., LTD Silicon Carbide Components for Semiconductor Equipment Product Offered

Table 179. AETS CO., LTD Silicon Carbide Components for Semiconductor Equipment Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 180. AETS CO., LTD Main Business

Table 181. AETS CO., LTD Latest Developments

Table 182. Entegris Details, Company Type, Silicon Carbide Components for Semiconductor Equipment Area Served and Its Competitors

Table 183. Entegris Silicon Carbide Components for Semiconductor Equipment Product Offered

Table 184. Entegris Silicon Carbide Components for Semiconductor Equipment Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 185. Entegris Main Business

Table 186. Entegris Latest Developments

Table 187. Suzhou KemaTek, Inc. Details, Company Type, Silicon Carbide Components for Semiconductor Equipment Area Served and Its Competitors

Table 188. Suzhou KemaTek, Inc. Silicon Carbide Components for Semiconductor Equipment Product Offered

Table 189. Suzhou KemaTek, Inc. Silicon Carbide Components for Semiconductor Equipment Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 190. Suzhou KemaTek, Inc. Main Business

Table 191. Suzhou KemaTek, Inc. Latest Developments

Table 192. Hunan Dezhi New Materials Details, Company Type, Silicon Carbide Components for Semiconductor Equipment Area Served and Its Competitors

Table 193. Hunan Dezhi New Materials Silicon Carbide Components for Semiconductor Equipment Product Offered

Table 194. Hunan Dezhi New Materials Silicon Carbide Components for Semiconductor Equipment Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 195. Hunan Dezhi New Materials Main Business

Table 196. Hunan Dezhi New Materials Latest Developments

Table 197. Shenzhen Zhicheng Semiconductor Materials Details, Company Type, Silicon Carbide Components for Semiconductor Equipment Area Served and Its Competitors

Table 198. Shenzhen Zhicheng Semiconductor Materials Silicon Carbide Components for Semiconductor Equipment Product Offered

Table 199. Shenzhen Zhicheng Semiconductor Materials Silicon Carbide Components for Semiconductor Equipment Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 200. Shenzhen Zhicheng Semiconductor Materials Main Business

Table 201. Shenzhen Zhicheng Semiconductor Materials Latest Developments

Table 202. Chengdu Ultra Pure Applied Materials Details, Company Type, Silicon Carbide Components for Semiconductor Equipment Area Served and Its Competitors

Table 203. Chengdu Ultra Pure Applied Materials Silicon Carbide Components for Semiconductor Equipment Product Offered

Table 204. Chengdu Ultra Pure Applied Materials Silicon Carbide Components for Semiconductor Equipment Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 205. Chengdu Ultra Pure Applied Materials Main Business

Table 206. Chengdu Ultra Pure Applied Materials Latest Developments

Table 207. Sanzer (Shanghai) New Materials Technology Details, Company Type, Silicon Carbide Components for Semiconductor Equipment Area Served and Its Competitors

Table 208. Sanzer (Shanghai) New Materials Technology Silicon Carbide Components for Semiconductor Equipment Product Offered

Table 209. Sanzer (Shanghai) New Materials Technology Silicon Carbide Components

for Semiconductor Equipment Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 210. Sanzer (Shanghai) New Materials Technology Main Business

Table 211. Sanzer (Shanghai) New Materials Technology Latest Developments

Table 212. Beijing YESEMi Details, Company Type, Silicon Carbide Components for Semiconductor Equipment Area Served and Its Competitors

Table 213. Beijing YESEMi Silicon Carbide Components for Semiconductor Equipment Product Offered

Table 214. Beijing YESEMi Silicon Carbide Components for Semiconductor Equipment Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 215. Beijing YESEMi Main Business

Table 216. Beijing YESEMi Latest Developments

Table 217. Chongqing Xinhui Material Technology Details, Company Type, Silicon Carbide Components for Semiconductor Equipment Area Served and Its Competitors

Table 218. Chongqing Xinhui Material Technology Silicon Carbide Components for Semiconductor Equipment Product Offered

Table 219. Chongqing Xinhui Material Technology Silicon Carbide Components for Semiconductor Equipment Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 220. Chongqing Xinhui Material Technology Main Business

Table 221. Chongqing Xinhui Material Technology Latest Developments

Table 222. Wuhu Jingchun Technology Details, Company Type, Silicon Carbide Components for Semiconductor Equipment Area Served and Its Competitors

Table 223. Wuhu Jingchun Technology Silicon Carbide Components for Semiconductor Equipment Product Offered

Table 224. Wuhu Jingchun Technology Silicon Carbide Components for Semiconductor Equipment Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 225. Wuhu Jingchun Technology Main Business

Table 226. Wuhu Jingchun Technology Latest Developments

Table 227. Anhui Sixiang Semiconductor Materials Technology Details, Company Type, Silicon Carbide Components for Semiconductor Equipment Area Served and Its Competitors

Table 228. Anhui Sixiang Semiconductor Materials Technology Silicon Carbide Components for Semiconductor Equipment Product Offered

Table 229. Anhui Sixiang Semiconductor Materials Technology Silicon Carbide Components for Semiconductor Equipment Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 230. Anhui Sixiang Semiconductor Materials Technology Main Business

Table 231. Anhui Sixiang Semiconductor Materials Technology Latest Developments

Table 232. Zhejiang Liufang Semiconductor Technology Details, Company Type, Silicon Carbide Components for Semiconductor Equipment Area Served and Its Competitors

Table 233. Zhejiang Liufang Semiconductor Technology Silicon Carbide Components for Semiconductor Equipment Product Offered

Table 234. Zhejiang Liufang Semiconductor Technology Silicon Carbide Components for Semiconductor Equipment Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 235. Zhejiang Liufang Semiconductor Technology Main Business

Table 236. Zhejiang Liufang Semiconductor Technology Latest Developments

Table 237. JSM Details, Company Type, Silicon Carbide Components for Semiconductor Equipment Area Served and Its Competitors

Table 238. JSM Silicon Carbide Components for Semiconductor Equipment Product Offered

Table 239. JSM Silicon Carbide Components for Semiconductor Equipment Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 240. JSM Main Business

Table 241. JSM Latest Developments

Table 242. Kallex Company,Ltd Details, Company Type, Silicon Carbide Components for Semiconductor Equipment Area Served and Its Competitors

Table 243. Kallex Company,Ltd Silicon Carbide Components for Semiconductor Equipment Product Offered

Table 244. Kallex Company,Ltd Silicon Carbide Components for Semiconductor Equipment Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 245. Kallex Company,Ltd Main Business

Table 246. Kallex Company,Ltd Latest Developments

Table 247. Shaanxi UDC Materials Technology Details, Company Type, Silicon Carbide Components for Semiconductor Equipment Area Served and Its Competitors

Table 248. Shaanxi UDC Materials Technology Silicon Carbide Components for Semiconductor Equipment Product Offered

Table 249. Shaanxi UDC Materials Technology Silicon Carbide Components for Semiconductor Equipment Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 250. Shaanxi UDC Materials Technology Main Business

Table 251. Shaanxi UDC Materials Technology Latest Developments

Table 252. Shandong Jinhong New Materials Details, Company Type, Silicon Carbide Components for Semiconductor Equipment Area Served and Its Competitors

Table 253. Shandong Jinhong New Materials Silicon Carbide Components for Semiconductor Equipment Product Offered

Table 254. Shandong Jinhong New Materials Silicon Carbide Components for

Semiconductor Equipment Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 255. Shandong Jinhong New Materials Main Business

Table 256. Shandong Jinhong New Materials Latest Developments

Table 257. NINGBO FLK TECHNOLOGY Details, Company Type, Silicon Carbide Components for Semiconductor Equipment Area Served and Its Competitors

Table 258. NINGBO FLK TECHNOLOGY Silicon Carbide Components for Semiconductor Equipment Product Offered

Table 259. NINGBO FLK TECHNOLOGY Silicon Carbide Components for Semiconductor Equipment Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 260. NINGBO FLK TECHNOLOGY Main Business

Table 261. NINGBO FLK TECHNOLOGY Latest Developments

## List Of Figures

### LIST OF FIGURES

Figure 1. Silicon Carbide Components for Semiconductor Equipment Report Years Considered

Figure 2. Research Objectives

Figure 3. Research Methodology

Figure 4. Research Process and Data Source

Figure 5. Global Silicon Carbide Components for Semiconductor Equipment Market Size Growth Rate (2021-2032) (\$ millions)

Figure 6. Silicon Carbide Components for Semiconductor Equipment Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Figure 7. Silicon Carbide Components for Semiconductor Equipment Sales Market Share by Country/Region (2025)

Figure 8. Silicon Carbide Components for Semiconductor Equipment Sales Market Share by Country/Region (2021, 2025 & 2032)

Figure 9. Global Silicon Carbide Components for Semiconductor Equipment Market Size Market Share By Product Form in 2025

Figure 10. Global Silicon Carbide Components for Semiconductor Equipment Market Size Market Share By Component Form in 2025

Figure 11. Global Silicon Carbide Components for Semiconductor Equipment Market Size Market Share By Component Function in 2025

Figure 12. Silicon Carbide Components for Semiconductor Equipment in Etch Equipment

Figure 13. Global Silicon Carbide Components for Semiconductor Equipment Market: Etch Equipment (2021-2026) & (\$ millions)

Figure 14. Silicon Carbide Components for Semiconductor Equipment in Epitaxy/MOCVD Equipment

Figure 15. Global Silicon Carbide Components for Semiconductor Equipment Market: Epitaxy/MOCVD Equipment (2021-2026) & (\$ millions)

Figure 16. Silicon Carbide Components for Semiconductor Equipment in Diffusion/Furnace Equipment

Figure 17. Global Silicon Carbide Components for Semiconductor Equipment Market: Diffusion/Furnace Equipment (2021-2026) & (\$ millions)

Figure 18. Silicon Carbide Components for Semiconductor Equipment in RTP/Annealing Equipment

Figure 19. Global Silicon Carbide Components for Semiconductor Equipment Market: RTP/Annealing Equipment (2021-2026) & (\$ millions)

Figure 20. Silicon Carbide Components for Semiconductor Equipment in Deposition Equipment

Figure 21. Global Silicon Carbide Components for Semiconductor Equipment Market: Deposition Equipment (2021-2026) & (\$ millions)

Figure 22. Silicon Carbide Components for Semiconductor Equipment in Other Semiconductor Equipment

Figure 23. Global Silicon Carbide Components for Semiconductor Equipment Market: Other Semiconductor Equipment (2021-2026) & (\$ millions)

Figure 24. Global Silicon Carbide Components for Semiconductor Equipment Market Size Market Share By Application in 2025

Figure 25. Global Silicon Carbide Components for Semiconductor Equipment Revenue Market Share by Player in 2025

Figure 26. Global Silicon Carbide Components for Semiconductor Equipment Market Size Market Share by Region (2021-2026)

Figure 27. Americas Silicon Carbide Components for Semiconductor Equipment Market Size 2021-2026 (\$ millions)

Figure 28. APAC Silicon Carbide Components for Semiconductor Equipment Market Size 2021-2026 (\$ millions)

Figure 29. Europe Silicon Carbide Components for Semiconductor Equipment Market Size 2021-2026 (\$ millions)

Figure 30. Middle East & Africa Silicon Carbide Components for Semiconductor Equipment Market Size 2021-2026 (\$ millions)

Figure 31. Americas Silicon Carbide Components for Semiconductor Equipment Value Market Share by Country in 2025

Figure 32. United States Silicon Carbide Components for Semiconductor Equipment Market Size Growth 2021-2026 (\$ millions)

Figure 33. Canada Silicon Carbide Components for Semiconductor Equipment Market Size Growth 2021-2026 (\$ millions)

Figure 34. Mexico Silicon Carbide Components for Semiconductor Equipment Market Size Growth 2021-2026 (\$ millions)

Figure 35. Brazil Silicon Carbide Components for Semiconductor Equipment Market Size Growth 2021-2026 (\$ millions)

Figure 36. APAC Silicon Carbide Components for Semiconductor Equipment Market Size Market Share by Region in 2025

Figure 37. APAC Silicon Carbide Components for Semiconductor Equipment Market Size Market Share By Product Form (2021-2026)

Figure 38. APAC Silicon Carbide Components for Semiconductor Equipment Market Size Market Share By Application (2021-2026)

Figure 39. China Silicon Carbide Components for Semiconductor Equipment Market

Size Growth 2021-2026 (\$ millions)

Figure 40. Japan Silicon Carbide Components for Semiconductor Equipment Market

Size Growth 2021-2026 (\$ millions)

Figure 41. South Korea Silicon Carbide Components for Semiconductor Equipment

Market Size Growth 2021-2026 (\$ millions)

Figure 42. Southeast Asia Silicon Carbide Components for Semiconductor Equipment

Market Size Growth 2021-2026 (\$ millions)

Figure 43. India Silicon Carbide Components for Semiconductor Equipment Market Size

Growth 2021-2026 (\$ millions)

Figure 44. Australia Silicon Carbide Components for Semiconductor Equipment Market

Size Growth 2021-2026 (\$ millions)

Figure 45. Europe Silicon Carbide Components for Semiconductor Equipment Market

Size Market Share by Country in 2025

Figure 46. Europe Silicon Carbide Components for Semiconductor Equipment Market

Size Market Share By Product Form (2021-2026)

Figure 47. Europe Silicon Carbide Components for Semiconductor Equipment Market

Size Market Share By Application (2021-2026)

Figure 48. Germany Silicon Carbide Components for Semiconductor Equipment Market

Size Growth 2021-2026 (\$ millions)

Figure 49. France Silicon Carbide Components for Semiconductor Equipment Market

Size Growth 2021-2026 (\$ millions)

Figure 50. UK Silicon Carbide Components for Semiconductor Equipment Market Size

Growth 2021-2026 (\$ millions)

Figure 51. Italy Silicon Carbide Components for Semiconductor Equipment Market Size

Growth 2021-2026 (\$ millions)

Figure 52. Russia Silicon Carbide Components for Semiconductor Equipment Market

Size Growth 2021-2026 (\$ million)

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