

Global SiC CVD System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global SiC CVD System market size is expected to reach \$ 905 million by 2032, rising at a market growth of 8.3% CAGR during the forecast period (2026-2032).

A Silicon Carbide Chemical Vapor Deposition (SiC CVD) system is a high-temperature epitaxial growth platform used to deposit high-purity, crystalline SiC layers onto wafers (typically SiC or Silicon substrates). Unlike standard silicon epitaxy, SiC CVD requires extreme thermal environments?often exceeding 1,600°C?to facilitate the chemical reaction between precursor gases like Silane (SiH₄) and Propane (C₃H₈). In 2026, the technology has reached a critical '8-inch (200mm) transition,' where systems are being re-engineered for larger wafer diameters to reduce the per-unit cost of power electronics. These systems are the technological linchpin for the next generation of Wide Bandgap (WBG) semiconductors, enabling the production of MOSFETs and Schottky barrier diodes that offer higher efficiency, faster switching, and superior thermal management compared to legacy silicon-based power devices.

In 2025, global Silicon Carbide Chemical Vapor Deposition (SiC CVD) system production reached approximately 544 units, with an average global market price of around US\$ 945 thousand per unit. And global Silicon Carbide Chemical Vapor Deposition (SiC CVD) system production capacity reached approximately 750 units. The average gross margin in this industry reached 26.78%.

The upstream supply chain for SiC CVD systems is a high-barrier ecosystem focused on extreme-environment hardware and ultra-pure chemical precursors. The performance of these systems is dictated by the durability of their internal 'hot zones' and the precision of their gas delivery networks. Key upstream suppliers include Tokai Carbon and Morgan Advanced Materials (providing high-purity, SiC-coated graphite

susceptors and heating elements), Heraeus (supplying high-temperature quartz and ceramic components), and Horiba (delivering the high-precision mass flow controllers [MFCs] required for stable precursor delivery). Additionally, the supply of ultra-high-purity gases from providers like Air Liquide and Linde is critical, as any trace metallic or oxygen contamination can lead to lattice defects and 'killer' dislocations in the epitaxial layer.

The downstream segment involves the mass fabrication of SiC-based power modules and high-frequency devices. Value is generated here through the 'yield-per-wafer,' where the uniformity and defect density of the CVD-grown layer directly impact the profitability of the chip fab. Significant downstream customers and high-volume institutional users include STMicroelectronics and Infineon Technologies (the primary users of high-throughput CVD systems for EV power module production), Wolfspeed (which operates highly integrated SiC material and device fabs), and ON Semiconductor (utilizing CVD for its 'EliteSiC' portfolio). The downstream market in 2026 is increasingly driven by the Automotive OEM sector, where companies like Tesla and BYD are mandating SiC-based inverters to extend the range and charging speeds of their electric vehicle fleets.

This report studies the global SiC CVD System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for SiC CVD System and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of SiC CVD System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global SiC CVD System total production and demand, 2021-2032, (K Units)

Global SiC CVD System total production value, 2021-2032, (USD Million)

Global SiC CVD System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global SiC CVD System consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: SiC CVD System domestic production, consumption, key domestic manufacturers and share

Global SiC CVD System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global SiC CVD System production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global SiC CVD System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global SiC CVD System market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Veeco, Tokyo Electron, AIXTRON, Nuflare, JSG, Sicientury, Shenzhen Naso Tech, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World SiC CVD System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (K US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global SiC CVD System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global SiC CVD System Market, Segmentation by Type:

Wafer Diameter 200mm

Wafer Diameter 150mm

Others

Global SiC CVD System Market, Segmentation by Process Type:

Epitaxial Growth

Bulk Growth

Homoepitaxy

Global SiC CVD System Market, Segmentation by Deposition Method:

Hot-Wall

Cold-Wall

Global SiC CVD System Market, Segmentation by Application:

Power Electronics

RF Devices

LED Substrates

Companies Profiled:

Veeco

Tokyo Electron

AIXTRON

Nuflare

JSG

Sicentury

Shenzhen Naso Tech

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

- 1.1 SiC CVD System Introduction
- 1.2 World SiC CVD System Supply & Forecast
 - 1.2.1 World SiC CVD System Production Value (2021 & 2025 & 2032)
 - 1.2.2 World SiC CVD System Production (2021-2032)
 - 1.2.3 World SiC CVD System Pricing Trends (2021-2032)
- 1.3 World SiC CVD System Production by Region (Based on Production Site)
 - 1.3.1 World SiC CVD System Production Value by Region (2021-2032)
 - 1.3.2 World SiC CVD System Production by Region (2021-2032)
 - 1.3.3 World SiC CVD System Average Price by Region (2021-2032)
 - 1.3.4 North America SiC CVD System Production (2021-2032)
 - 1.3.5 Europe SiC CVD System Production (2021-2032)
 - 1.3.6 China SiC CVD System Production (2021-2032)
 - 1.3.7 Japan SiC CVD System Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 SiC CVD System Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 SiC CVD System Major Market Trends

2 DEMAND SUMMARY

- 2.1 World SiC CVD System Demand (2021-2032)
- 2.2 World SiC CVD System Consumption by Region
 - 2.2.1 World SiC CVD System Consumption by Region (2021-2026)
 - 2.2.2 World SiC CVD System Consumption Forecast by Region (2027-2032)
- 2.3 United States SiC CVD System Consumption (2021-2032)
- 2.4 China SiC CVD System Consumption (2021-2032)
- 2.5 Europe SiC CVD System Consumption (2021-2032)
- 2.6 Japan SiC CVD System Consumption (2021-2032)
- 2.7 South Korea SiC CVD System Consumption (2021-2032)
- 2.8 ASEAN SiC CVD System Consumption (2021-2032)
- 2.9 India SiC CVD System Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World SiC CVD System Production Value by Manufacturer (2021-2026)

- 3.2 World SiC CVD System Production by Manufacturer (2021-2026)
- 3.3 World SiC CVD System Average Price by Manufacturer (2021-2026)
- 3.4 SiC CVD System Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global SiC CVD System Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for SiC CVD System in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for SiC CVD System in 2025
- 3.6 SiC CVD System Market: Overall Company Footprint Analysis
 - 3.6.1 SiC CVD System Market: Region Footprint
 - 3.6.2 SiC CVD System Market: Company Product Type Footprint
 - 3.6.3 SiC CVD System Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: SiC CVD System Production Value Comparison
 - 4.1.1 United States VS China: SiC CVD System Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: SiC CVD System Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: SiC CVD System Production Comparison
 - 4.2.1 United States VS China: SiC CVD System Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: SiC CVD System Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: SiC CVD System Consumption Comparison
 - 4.3.1 United States VS China: SiC CVD System Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: SiC CVD System Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based SiC CVD System Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based SiC CVD System Manufacturers, Headquarters and Production Site (States, Country)
 - 4.4.2 United States Based Manufacturers SiC CVD System Production Value

(2021-2026)

4.4.3 United States Based Manufacturers SiC CVD System Production (2021-2026)

4.5 China Based SiC CVD System Manufacturers and Market Share

4.5.1 China Based SiC CVD System Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers SiC CVD System Production Value (2021-2026)

4.5.3 China Based Manufacturers SiC CVD System Production (2021-2026)

4.6 Rest of World Based SiC CVD System Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based SiC CVD System Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers SiC CVD System Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers SiC CVD System Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World SiC CVD System Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Wafer Diameter 200mm

5.2.2 Wafer Diameter 150mm

5.2.3 Others

5.3 Market Segment by Type

5.3.1 World SiC CVD System Production by Type (2021-2032)

5.3.2 World SiC CVD System Production Value by Type (2021-2032)

5.3.3 World SiC CVD System Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY PROCESS TYPE

6.1 World SiC CVD System Market Size Overview by Process Type: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Process Type

6.2.1 Epitaxial Growth

6.2.2 Bulk Growth

6.2.3 Homoepitaxy

6.3 Market Segment by Process Type

6.3.1 World SiC CVD System Production by Process Type (2021-2032)

6.3.2 World SiC CVD System Production Value by Process Type (2021-2032)

6.3.3 World SiC CVD System Average Price by Process Type (2021-2032)

7 MARKET ANALYSIS BY DEPOSITION METHOD

7.1 World SiC CVD System Market Size Overview by Deposition Method: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Deposition Method

7.2.1 Hot-Wall

7.2.2 Cold-Wall

7.3 Market Segment by Deposition Method

7.3.1 World SiC CVD System Production by Deposition Method (2021-2032)

7.3.2 World SiC CVD System Production Value by Deposition Method (2021-2032)

7.3.3 World SiC CVD System Average Price by Deposition Method (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World SiC CVD System Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Power Electronics

8.2.2 RF Devices

8.2.3 LED Substrates

8.3 Market Segment by Application

8.3.1 World SiC CVD System Production by Application (2021-2032)

8.3.2 World SiC CVD System Production Value by Application (2021-2032)

8.3.3 World SiC CVD System Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Veeco

9.1.1 Veeco Details

9.1.2 Veeco Major Business

9.1.3 Veeco SiC CVD System Product and Services

9.1.4 Veeco SiC CVD System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Veeco Recent Developments/Updates

9.1.6 Veeco Competitive Strengths & Weaknesses

9.2 Tokyo Electron

9.2.1 Tokyo Electron Details

9.2.2 Tokyo Electron Major Business

9.2.3 Tokyo Electron SiC CVD System Product and Services

9.2.4 Tokyo Electron SiC CVD System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Tokyo Electron Recent Developments/Updates

9.2.6 Tokyo Electron Competitive Strengths & Weaknesses

9.3 AIXTRON

9.3.1 AIXTRON Details

9.3.2 AIXTRON Major Business

9.3.3 AIXTRON SiC CVD System Product and Services

9.3.4 AIXTRON SiC CVD System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 AIXTRON Recent Developments/Updates

9.3.6 AIXTRON Competitive Strengths & Weaknesses

9.4 Nuflare

9.4.1 Nuflare Details

9.4.2 Nuflare Major Business

9.4.3 Nuflare SiC CVD System Product and Services

9.4.4 Nuflare SiC CVD System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Nuflare Recent Developments/Updates

9.4.6 Nuflare Competitive Strengths & Weaknesses

9.5 JSG

9.5.1 JSG Details

9.5.2 JSG Major Business

9.5.3 JSG SiC CVD System Product and Services

9.5.4 JSG SiC CVD System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 JSG Recent Developments/Updates

9.5.6 JSG Competitive Strengths & Weaknesses

9.6 Sicentury

9.6.1 Sicentury Details

9.6.2 Sicentury Major Business

9.6.3 Sicentury SiC CVD System Product and Services

9.6.4 Sicentury SiC CVD System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Sicentury Recent Developments/Updates

9.6.6 Sicentury Competitive Strengths & Weaknesses

9.7 Shenzhen Naso Tech

9.7.1 Shenzhen Naso Tech Details

9.7.2 Shenzhen Naso Tech Major Business

- 9.7.3 Shenzhen Naso Tech SiC CVD System Product and Services
- 9.7.4 Shenzhen Naso Tech SiC CVD System Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.7.5 Shenzhen Naso Tech Recent Developments/Updates
- 9.7.6 Shenzhen Naso Tech Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 SiC CVD System Industry Chain
- 10.2 SiC CVD System Upstream Analysis
 - 10.2.1 SiC CVD System Core Raw Materials
 - 10.2.2 Main Manufacturers of SiC CVD System Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 SiC CVD System Production Mode
- 10.6 SiC CVD System Procurement Model
- 10.7 SiC CVD System Industry Sales Model and Sales Channels
 - 10.7.1 SiC CVD System Sales Model
 - 10.7.2 SiC CVD System Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. World SiC CVD System Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World SiC CVD System Production Value by Region (2021-2026) & (USD Million)
- Table 3. World SiC CVD System Production Value by Region (2027-2032) & (USD Million)
- Table 4. World SiC CVD System Production Value Market Share by Region (2021-2026)
- Table 5. World SiC CVD System Production Value Market Share by Region (2027-2032)
- Table 6. World SiC CVD System Production by Region (2021-2026) & (K Units)
- Table 7. World SiC CVD System Production by Region (2027-2032) & (K Units)
- Table 8. World SiC CVD System Production Market Share by Region (2021-2026)
- Table 9. World SiC CVD System Production Market Share by Region (2027-2032)
- Table 10. World SiC CVD System Average Price by Region (2021-2026) & (K US\$/Unit)
- Table 11. World SiC CVD System Average Price by Region (2027-2032) & (K US\$/Unit)
- Table 12. SiC CVD System Major Market Trends
- Table 13. World SiC CVD System Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)
- Table 14. World SiC CVD System Consumption by Region (2021-2026) & (K Units)
- Table 15. World SiC CVD System Consumption Forecast by Region (2027-2032) & (K Units)
- Table 16. World SiC CVD System Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key SiC CVD System Producers in 2025
- Table 18. World SiC CVD System Production by Manufacturer (2021-2026) & (K Units)
- Table 19. Production Market Share of Key SiC CVD System Producers in 2025
- Table 20. World SiC CVD System Average Price by Manufacturer (2021-2026) & (K US\$/Unit)
- Table 21. Global SiC CVD System Company Evaluation Quadrant
- Table 22. World SiC CVD System Industry Rank of Major Manufacturers, Based on Production Value in 2025
- Table 23. Head Office and SiC CVD System Production Site of Key Manufacturer
- Table 24. SiC CVD System Market: Company Product Type Footprint
- Table 25. SiC CVD System Market: Company Product Application Footprint

Table 26. SiC CVD System Competitive Factors
Table 27. SiC CVD System New Entrant and Capacity Expansion Plans
Table 28. SiC CVD System Mergers & Acquisitions Activity
Table 29. United States VS China SiC CVD System Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
Table 30. United States VS China SiC CVD System Production Comparison, (2021 & 2025 & 2032) & (K Units)
Table 31. United States VS China SiC CVD System Consumption Comparison, (2021 & 2025 & 2032) & (K Units)
Table 32. United States Based SiC CVD System Manufacturers, Headquarters and Production Site (States, Country)
Table 33. United States Based Manufacturers SiC CVD System Production Value, (2021-2026) & (USD Million)
Table 34. United States Based Manufacturers SiC CVD System Production Value Market Share (2021-2026)
Table 35. United States Based Manufacturers SiC CVD System Production (2021-2026) & (K Units)
Table 36. United States Based Manufacturers SiC CVD System Production Market Share (2021-2026)
Table 37. China Based SiC CVD System Manufacturers, Headquarters and Production Site (Province, Country)
Table 38. China Based Manufacturers SiC CVD System Production Value, (2021-2026) & (USD Million)
Table 39. China Based Manufacturers SiC CVD System Production Value Market Share (2021-2026)
Table 40. China Based Manufacturers SiC CVD System Production, (2021-2026) & (K Units)
Table 41. China Based Manufacturers SiC CVD System Production Market Share (2021-2026)
Table 42. Rest of World Based SiC CVD System Manufacturers, Headquarters and Production Site (State, Country)
Table 43. Rest of World Based Manufacturers SiC CVD System Production Value, (2021-2026) & (USD Million)
Table 44. Rest of World Based Manufacturers SiC CVD System Production Value Market Share (2021-2026)
Table 45. Rest of World Based Manufacturers SiC CVD System Production, (2021-2026) & (K Units)
Table 46. Rest of World Based Manufacturers SiC CVD System Production Market Share (2021-2026)

Table 47. World SiC CVD System Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World SiC CVD System Production by Type (2021-2026) & (K Units)

Table 49. World SiC CVD System Production by Type (2027-2032) & (K Units)

Table 50. World SiC CVD System Production Value by Type (2021-2026) & (USD Million)

Table 51. World SiC CVD System Production Value by Type (2027-2032) & (USD Million)

Table 52. World SiC CVD System Average Price by Type (2021-2026) & (K US\$/Unit)

Table 53. World SiC CVD System Average Price by Type (2027-2032) & (K US\$/Unit)

Table 54. World SiC CVD System Production Value by Process Type, (USD Million), 2021 & 2025 & 2032

Table 55. World SiC CVD System Production by Process Type (2021-2026) & (K Units)

Table 56. World SiC CVD System Production by Process Type (2027-2032) & (K Units)

Table 57. World SiC CVD System Production Value by Process Type (2021-2026) & (USD Million)

Table 58. World SiC CVD System Production Value by Process Type (2027-2032) & (USD Million)

Table 59. World SiC CVD System Average Price by Process Type (2021-2026) & (K US\$/Unit)

Table 60. World SiC CVD System Average Price by Process Type (2027-2032) & (K US\$/Unit)

Table 61. World SiC CVD System Production Value by Deposition Method, (USD Million), 2021 & 2025 & 2032

Table 62. World SiC CVD System Production by Deposition Method (2021-2026) & (K Units)

Table 63. World SiC CVD System Production by Deposition Method (2027-2032) & (K Units)

Table 64. World SiC CVD System Production Value by Deposition Method (2021-2026) & (USD Million)

Table 65. World SiC CVD System Production Value by Deposition Method (2027-2032) & (USD Million)

Table 66. World SiC CVD System Average Price by Deposition Method (2021-2026) & (K US\$/Unit)

Table 67. World SiC CVD System Average Price by Deposition Method (2027-2032) & (K US\$/Unit)

Table 68. World SiC CVD System Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World SiC CVD System Production by Application (2021-2026) & (K Units)

Table 70. World SiC CVD System Production by Application (2027-2032) & (K Units)

Table 71. World SiC CVD System Production Value by Application (2021-2026) & (USD Million)

Table 72. World SiC CVD System Production Value by Application (2027-2032) & (USD Million)

Table 73. World SiC CVD System Average Price by Application (2021-2026) & (K US\$/Unit)

Table 74. World SiC CVD System Average Price by Application (2027-2032) & (K US\$/Unit)

Table 75. Veeco Basic Information, Manufacturing Base and Competitors

Table 76. Veeco Major Business

Table 77. Veeco SiC CVD System Product and Services

Table 78. Veeco SiC CVD System Production (K Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Veeco Recent Developments/Updates

Table 80. Veeco Competitive Strengths & Weaknesses

Table 81. Tokyo Electron Basic Information, Manufacturing Base and Competitors

Table 82. Tokyo Electron Major Business

Table 83. Tokyo Electron SiC CVD System Product and Services

Table 84. Tokyo Electron SiC CVD System Production (K Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Tokyo Electron Recent Developments/Updates

Table 86. Tokyo Electron Competitive Strengths & Weaknesses

Table 87. AIXTRON Basic Information, Manufacturing Base and Competitors

Table 88. AIXTRON Major Business

Table 89. AIXTRON SiC CVD System Product and Services

Table 90. AIXTRON SiC CVD System Production (K Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. AIXTRON Recent Developments/Updates

Table 92. AIXTRON Competitive Strengths & Weaknesses

Table 93. Nuflare Basic Information, Manufacturing Base and Competitors

Table 94. Nuflare Major Business

Table 95. Nuflare SiC CVD System Product and Services

Table 96. Nuflare SiC CVD System Production (K Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Nuflare Recent Developments/Updates

Table 98. Nuflare Competitive Strengths & Weaknesses

Table 99. JSG Basic Information, Manufacturing Base and Competitors

Table 100. JSG Major Business

Table 101. JSG SiC CVD System Product and Services
Table 102. JSG SiC CVD System Production (K Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. JSG Recent Developments/Updates
Table 104. JSG Competitive Strengths & Weaknesses
Table 105. Sicentury Basic Information, Manufacturing Base and Competitors
Table 106. Sicentury Major Business
Table 107. Sicentury SiC CVD System Product and Services
Table 108. Sicentury SiC CVD System Production (K Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 109. Sicentury Recent Developments/Updates
Table 110. Sicentury Competitive Strengths & Weaknesses
Table 111. Shenzhen Naso Tech Basic Information, Manufacturing Base and Competitors
Table 112. Shenzhen Naso Tech Major Business
Table 113. Shenzhen Naso Tech SiC CVD System Product and Services
Table 114. Shenzhen Naso Tech SiC CVD System Production (K Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 115. Shenzhen Naso Tech Recent Developments/Updates
Table 116. Shenzhen Naso Tech Competitive Strengths & Weaknesses
Table 117. Global Key Players of SiC CVD System Upstream (Raw Materials)
Table 118. Global SiC CVD System Typical Customers
Table 119. SiC CVD System Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. SiC CVD System Picture

Figure 2. World SiC CVD System Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World SiC CVD System Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World SiC CVD System Production (2021-2032) & (K Units)

Figure 5. World SiC CVD System Average Price (2021-2032) & (K US\$/Unit)

Figure 6. World SiC CVD System Production Value Market Share by Region (2021-2032)

Figure 7. World SiC CVD System Production Market Share by Region (2021-2032)

Figure 8. North America SiC CVD System Production (2021-2032) & (K Units)

Figure 9. Europe SiC CVD System Production (2021-2032) & (K Units)

Figure 10. China SiC CVD System Production (2021-2032) & (K Units)

Figure 11. Japan SiC CVD System Production (2021-2032) & (K Units)

Figure 12. SiC CVD System Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World SiC CVD System Consumption (2021-2032) & (K Units)

Figure 15. World SiC CVD System Consumption Market Share by Region (2021-2032)

Figure 16. United States SiC CVD System Consumption (2021-2032) & (K Units)

Figure 17. China SiC CVD System Consumption (2021-2032) & (K Units)

Figure 18. Europe SiC CVD System Consumption (2021-2032) & (K Units)

Figure 19. Japan SiC CVD System Consumption (2021-2032) & (K Units)

Figure 20. South Korea SiC CVD System Consumption (2021-2032) & (K Units)

Figure 21. ASEAN SiC CVD System Consumption (2021-2032) & (K Units)

Figure 22. India SiC CVD System Consumption (2021-2032) & (K Units)

Figure 23. Producer Shipments of SiC CVD System by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for SiC CVD System Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for SiC CVD System Markets in 2025

Figure 26. United States VS China: SiC CVD System Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: SiC CVD System Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: SiC CVD System Consumption Market Share

Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers SiC CVD System Production Market Share 2025

Figure 30. China Based Manufacturers SiC CVD System Production Market Share 2025

Figure 31. Rest of World Based Manufacturers SiC CVD System Production Market Share 2025

Figure 32. World SiC CVD System Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World SiC CVD System Production Value Market Share by Type in 2025

Figure 34. Wafer Diameter 200mm

Figure 35. Wafer Diameter 150mm

Figure 36. Others

Figure 37. World SiC CVD System Production Market Share by Type (2021-2032)

Figure 38. World SiC CVD System Production Value Market Share by Type (2021-2032)

Figure 39. World SiC CVD System Average Price by Type (2021-2032) & (K US\$/Unit)

Figure 40. World SiC CVD System Production Value by Process Type, (USD Million), 2021 & 2025 & 2032

Figure 41. World SiC CVD System Production Value Market Share by Process Type in 2025

Figure 42. Epitaxial Growth

Figure 43. Bulk Growth

Figure 44. Homoepitaxy

Figure 45. World SiC CVD System Production Market Share by Process Type (2021-2032)

Figure 46. World SiC CVD System Production Value Market Share by Process Type (2021-2032)

Figure 47. World SiC CVD System Average Price by Process Type (2021-2032) & (K US\$/Unit)

Figure 48. World SiC CVD System Production Value by Deposition Method, (USD Million), 2021 & 2025 & 2032

Figure 49. World SiC CVD System Production Value Market Share by Deposition Method in 2025

Figure 50. Hot-Wall

Figure 51. Cold-Wall

Figure 52. World SiC CVD System Production Market Share by Deposition Method (2021-2032)

Figure 53. World SiC CVD System Production Value Market Share by Deposition Method (2021-2032)

Figure 54. World SiC CVD System Average Price by Deposition Method (2021-2032) & (K US\$/Unit)

Figure 55. World SiC CVD System Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 56. World SiC CVD System Production Value Market Share by Application in 2025

Figure 57. Power Electronics

Figure 58. RF Devices

Figure 59. LED Substrates

Figure 60. World SiC CVD System Production Market Share by Application (2021-2032)

Figure 61. World SiC CVD System Production Value Market Share by Application (2021-2032)

Figure 62. World SiC CVD System Average Price by Application (2021-2032) & (K US\$/Unit)

Figure 63. SiC CVD System Industry Chain

Figure 64. SiC CVD System Procurement Model

Figure 65. SiC CVD System Sales Model

Figure 66. SiC CVD System Sales Channels, Direct Sales, and Distribution

Figure 67. Methodology

Figure 68. Research Process and Data Source

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