

# Global SiC Wafer Laser Cutting Equipment Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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# **Abstracts**

According to our (Global Info Research) latest study, the global SiC Wafer Laser Cutting Equipment market size was valued at USD 94 million in 2023 and is forecast to a readjusted size of USD 257.8 million by 2030 with a CAGR of 15.6% during review period.

Silicon carbide (SiC) was discovered in 1893 as an industrial abrasive for grinding wheels and automotive brakes. The scheme of laser cutting silicon carbide is laser modified cutting technology. The principle is to use a laser beam with a high transmission wavelength to focus on the inside of the wafer through a lens, and multiphoton absorption occurs, resulting in a local deformation layer, namely modified layer. The layer is mainly composed of holes, high dislocation density layers and cracks. The modified layer is the starting point of subsequent wafer dicing and cracking. The modified layer can be confined inside the wafer by optimizing the laser and optical path system, and no thermal damage is caused to the surface and bottom of the wafer. Then, use external force to guide the cracks to the surface and bottom of the wafer, separating the wafer into the required size.

Global key players of SiC wafer laser cutting equipment include DISCO Corporation, SuZhou Delphi Laser and Han's Laser, etc. The top three players hold a share over 60%. From the perspective of consumption value by region? Asia-Pacific (excluding China) is the largest market of SiC wafer laser cutting equipment, followed by China, North America, and Europe. In terms of type, processing sizes up to 6 Inches account for more than 75% of the market share. In terms of application, foundry has a share over 60 %.



The Global Info Research report includes an overview of the development of the SiC Wafer Laser Cutting Equipment industry chain, the market status of Foundry (Processing Sizes up to 6 Inches, Processing Sizes up to 8 Inches), IDM (Processing Sizes up to 6 Inches, Processing Sizes up to 8 Inches), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of SiC Wafer Laser Cutting Equipment.

Regionally, the report analyzes the SiC Wafer Laser Cutting Equipment markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global SiC Wafer Laser Cutting Equipment market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the SiC Wafer Laser Cutting Equipment market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the SiC Wafer Laser Cutting Equipment industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (Units), revenue generated, and market share of different by Type (e.g., Processing Sizes up to 6 Inches, Processing Sizes up to 8 Inches).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the SiC Wafer Laser Cutting Equipment market.

Regional Analysis: The report involves examining the SiC Wafer Laser Cutting Equipment market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the SiC Wafer Laser Cutting Equipment market. This may



include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to SiC Wafer Laser Cutting Equipment:

Company Analysis: Report covers individual SiC Wafer Laser Cutting Equipment manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards SiC Wafer Laser Cutting Equipment This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Foundry, IDM).

Technology Analysis: Report covers specific technologies relevant to SiC Wafer Laser Cutting Equipment. It assesses the current state, advancements, and potential future developments in SiC Wafer Laser Cutting Equipment areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the SiC Wafer Laser Cutting Equipment market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

SiC Wafer Laser Cutting Equipment market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Processing Sizes up to 6 Inches



Processing Sizes up to 8 Inches

| Market segment by Application                      |   |  |
|--|---|--|
|  | Foundry   |  |
|  | IDM   |  |
| Major players covered                              |   |  |
|  | DISCO Corporation   |  |
|  | Suzhou Delphi Laser Co  |  |
|  | Han's Laser Technology  |  |
|  | 3D-Micromac   |  |
|  | Synova S.A.   |  |
|  | HGTECH  |  |
|  | ASMPT   |  |
|  | GHN.GIE   |  |
|  | Wuhan DR Laser Technology   |  |
| Market segment by region, regional analysis covers |   |  |
|  | North America (United States, Canada and Mexico)                            |  |
|  | Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe) |  |
|  | Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)    |  |



South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe SiC Wafer Laser Cutting Equipment product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of SiC Wafer Laser Cutting Equipment, with price, sales, revenue and global market share of SiC Wafer Laser Cutting Equipment from 2019 to 2024.

Chapter 3, the SiC Wafer Laser Cutting Equipment competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the SiC Wafer Laser Cutting Equipment breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023.and SiC Wafer Laser Cutting Equipment market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of SiC Wafer Laser Cutting Equipment.

Chapter 14 and 15, to describe SiC Wafer Laser Cutting Equipment sales channel, distributors, customers, research findings and conclusion.



# **Contents**

#### 1 MARKET OVERVIEW

- 1.1 Product Overview and Scope of SiC Wafer Laser Cutting Equipment
- 1.2 Market Estimation Caveats and Base Year
- 1.3 Market Analysis by Type
  - 1.3.1 Overview: Global SiC Wafer Laser Cutting Equipment Consumption Value by
- Type: 2019 Versus 2023 Versus 2030
  - 1.3.2 Processing Sizes up to 6 Inches
  - 1.3.3 Processing Sizes up to 8 Inches
- 1.4 Market Analysis by Application
- 1.4.1 Overview: Global SiC Wafer Laser Cutting Equipment Consumption Value by Application: 2019 Versus 2023 Versus 2030
  - 1.4.2 Foundry
  - 1.4.3 IDM
- 1.5 Global SiC Wafer Laser Cutting Equipment Market Size & Forecast
- 1.5.1 Global SiC Wafer Laser Cutting Equipment Consumption Value (2019 & 2023 & 2030)
  - 1.5.2 Global SiC Wafer Laser Cutting Equipment Sales Quantity (2019-2030)
  - 1.5.3 Global SiC Wafer Laser Cutting Equipment Average Price (2019-2030)

#### **2 MANUFACTURERS PROFILES**

- 2.1 DISCO Corporation
  - 2.1.1 DISCO Corporation Details
  - 2.1.2 DISCO Corporation Major Business
  - 2.1.3 DISCO Corporation SiC Wafer Laser Cutting Equipment Product and Services
  - 2.1.4 DISCO Corporation SiC Wafer Laser Cutting Equipment Sales Quantity, Average
- Price, Revenue, Gross Margin and Market Share (2019-2024) 2.1.5 DISCO Corporation Recent Developments/Updates
- 2.2 Suzhou Delphi Laser Co
  - 2.2.1 Suzhou Delphi Laser Co Details
  - 2.2.2 Suzhou Delphi Laser Co Major Business
- 2.2.3 Suzhou Delphi Laser Co SiC Wafer Laser Cutting Equipment Product and Services
- 2.2.4 Suzhou Delphi Laser Co SiC Wafer Laser Cutting Equipment Sales Quantity,
- Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.2.5 Suzhou Delphi Laser Co Recent Developments/Updates



- 2.3 Han's Laser Technology
  - 2.3.1 Han's Laser Technology Details
  - 2.3.2 Han's Laser Technology Major Business
- 2.3.3 Han's Laser Technology SiC Wafer Laser Cutting Equipment Product and Services
- 2.3.4 Han's Laser Technology SiC Wafer Laser Cutting Equipment Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
- 2.3.5 Han's Laser Technology Recent Developments/Updates
- 2.4 3D-Micromac
  - 2.4.1 3D-Micromac Details
  - 2.4.2 3D-Micromac Major Business
  - 2.4.3 3D-Micromac SiC Wafer Laser Cutting Equipment Product and Services
  - 2.4.4 3D-Micromac SiC Wafer Laser Cutting Equipment Sales Quantity, Average

Price, Revenue, Gross Margin and Market Share (2019-2024)

- 2.4.5 3D-Micromac Recent Developments/Updates
- 2.5 Synova S.A.
  - 2.5.1 Synova S.A. Details
  - 2.5.2 Synova S.A. Major Business
  - 2.5.3 Synova S.A. SiC Wafer Laser Cutting Equipment Product and Services
  - 2.5.4 Synova S.A. SiC Wafer Laser Cutting Equipment Sales Quantity, Average Price,

Revenue, Gross Margin and Market Share (2019-2024)

- 2.5.5 Synova S.A. Recent Developments/Updates
- 2.6 HGTECH
  - 2.6.1 HGTECH Details
  - 2.6.2 HGTECH Major Business
  - 2.6.3 HGTECH SiC Wafer Laser Cutting Equipment Product and Services
  - 2.6.4 HGTECH SiC Wafer Laser Cutting Equipment Sales Quantity, Average Price,

Revenue, Gross Margin and Market Share (2019-2024)

- 2.6.5 HGTECH Recent Developments/Updates
- 2.7 ASMPT
  - 2.7.1 ASMPT Details
  - 2.7.2 ASMPT Major Business
  - 2.7.3 ASMPT SiC Wafer Laser Cutting Equipment Product and Services
  - 2.7.4 ASMPT SiC Wafer Laser Cutting Equipment Sales Quantity, Average Price,

Revenue, Gross Margin and Market Share (2019-2024)

- 2.7.5 ASMPT Recent Developments/Updates
- 2.8 GHN.GIE
  - 2.8.1 GHN.GIE Details
  - 2.8.2 GHN.GIE Major Business



- 2.8.3 GHN.GIE SiC Wafer Laser Cutting Equipment Product and Services
- 2.8.4 GHN.GIE SiC Wafer Laser Cutting Equipment Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
- 2.8.5 GHN.GIE Recent Developments/Updates
- 2.9 Wuhan DR Laser Technology
  - 2.9.1 Wuhan DR Laser Technology Details
  - 2.9.2 Wuhan DR Laser Technology Major Business
- 2.9.3 Wuhan DR Laser Technology SiC Wafer Laser Cutting Equipment Product and Services
- 2.9.4 Wuhan DR Laser Technology SiC Wafer Laser Cutting Equipment Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024) 2.9.5 Wuhan DR Laser Technology Recent Developments/Updates

# 3 COMPETITIVE ENVIRONMENT: SIC WAFER LASER CUTTING EQUIPMENT BY MANUFACTURER

- 3.1 Global SiC Wafer Laser Cutting Equipment Sales Quantity by Manufacturer (2019-2024)
- 3.2 Global SiC Wafer Laser Cutting Equipment Revenue by Manufacturer (2019-2024)
- 3.3 Global SiC Wafer Laser Cutting Equipment Average Price by Manufacturer (2019-2024)
- 3.4 Market Share Analysis (2023)
- 3.4.1 Producer Shipments of SiC Wafer Laser Cutting Equipment by Manufacturer Revenue (\$MM) and Market Share (%): 2023
- 3.4.2 Top 3 SiC Wafer Laser Cutting Equipment Manufacturer Market Share in 2023
- 3.4.2 Top 6 SiC Wafer Laser Cutting Equipment Manufacturer Market Share in 2023
- 3.5 SiC Wafer Laser Cutting Equipment Market: Overall Company Footprint Analysis
  - 3.5.1 SiC Wafer Laser Cutting Equipment Market: Region Footprint
  - 3.5.2 SiC Wafer Laser Cutting Equipment Market: Company Product Type Footprint
- 3.5.3 SiC Wafer Laser Cutting Equipment Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

#### 4 CONSUMPTION ANALYSIS BY REGION

4.1 Global SiC Wafer Laser Cutting Equipment Market Size by Region 4.1.1 Global SiC Wafer Laser Cutting Equipment Sales Quantity by Region (2019-2030)



- 4.1.2 Global SiC Wafer Laser Cutting Equipment Consumption Value by Region (2019-2030)
- 4.1.3 Global SiC Wafer Laser Cutting Equipment Average Price by Region (2019-2030)
- 4.2 North America SiC Wafer Laser Cutting Equipment Consumption Value (2019-2030)
- 4.3 Europe SiC Wafer Laser Cutting Equipment Consumption Value (2019-2030)
- 4.4 Asia-Pacific SiC Wafer Laser Cutting Equipment Consumption Value (2019-2030)
- 4.5 South America SiC Wafer Laser Cutting Equipment Consumption Value (2019-2030)
- 4.6 Middle East and Africa SiC Wafer Laser Cutting Equipment Consumption Value (2019-2030)

#### **5 MARKET SEGMENT BY TYPE**

- 5.1 Global SiC Wafer Laser Cutting Equipment Sales Quantity by Type (2019-2030)
- 5.2 Global SiC Wafer Laser Cutting Equipment Consumption Value by Type (2019-2030)
- 5.3 Global SiC Wafer Laser Cutting Equipment Average Price by Type (2019-2030)

#### **6 MARKET SEGMENT BY APPLICATION**

- 6.1 Global SiC Wafer Laser Cutting Equipment Sales Quantity by Application (2019-2030)
- 6.2 Global SiC Wafer Laser Cutting Equipment Consumption Value by Application (2019-2030)
- 6.3 Global SiC Wafer Laser Cutting Equipment Average Price by Application (2019-2030)

#### 7 NORTH AMERICA

(2019-2030)

- 7.1 North America SiC Wafer Laser Cutting Equipment Sales Quantity by Type (2019-2030)
- 7.2 North America SiC Wafer Laser Cutting Equipment Sales Quantity by Application (2019-2030)
- 7.3 North America SiC Wafer Laser Cutting Equipment Market Size by Country7.3.1 North America SiC Wafer Laser Cutting Equipment Sales Quantity by Country
- 7.3.2 North America SiC Wafer Laser Cutting Equipment Consumption Value by Country (2019-2030)



- 7.3.3 United States Market Size and Forecast (2019-2030)
- 7.3.4 Canada Market Size and Forecast (2019-2030)
- 7.3.5 Mexico Market Size and Forecast (2019-2030)

#### **8 EUROPE**

- 8.1 Europe SiC Wafer Laser Cutting Equipment Sales Quantity by Type (2019-2030)
- 8.2 Europe SiC Wafer Laser Cutting Equipment Sales Quantity by Application (2019-2030)
- 8.3 Europe SiC Wafer Laser Cutting Equipment Market Size by Country
- 8.3.1 Europe SiC Wafer Laser Cutting Equipment Sales Quantity by Country (2019-2030)
- 8.3.2 Europe SiC Wafer Laser Cutting Equipment Consumption Value by Country (2019-2030)
  - 8.3.3 Germany Market Size and Forecast (2019-2030)
- 8.3.4 France Market Size and Forecast (2019-2030)
- 8.3.5 United Kingdom Market Size and Forecast (2019-2030)
- 8.3.6 Russia Market Size and Forecast (2019-2030)
- 8.3.7 Italy Market Size and Forecast (2019-2030)

#### 9 ASIA-PACIFIC

- 9.1 Asia-Pacific SiC Wafer Laser Cutting Equipment Sales Quantity by Type (2019-2030)
- 9.2 Asia-Pacific SiC Wafer Laser Cutting Equipment Sales Quantity by Application (2019-2030)
- 9.3 Asia-Pacific SiC Wafer Laser Cutting Equipment Market Size by Region
- 9.3.1 Asia-Pacific SiC Wafer Laser Cutting Equipment Sales Quantity by Region (2019-2030)
- 9.3.2 Asia-Pacific SiC Wafer Laser Cutting Equipment Consumption Value by Region (2019-2030)
  - 9.3.3 China Market Size and Forecast (2019-2030)
  - 9.3.4 Japan Market Size and Forecast (2019-2030)
  - 9.3.5 Korea Market Size and Forecast (2019-2030)
  - 9.3.6 India Market Size and Forecast (2019-2030)
  - 9.3.7 Southeast Asia Market Size and Forecast (2019-2030)
  - 9.3.8 Australia Market Size and Forecast (2019-2030)

#### 10 SOUTH AMERICA



- 10.1 South America SiC Wafer Laser Cutting Equipment Sales Quantity by Type (2019-2030)
- 10.2 South America SiC Wafer Laser Cutting Equipment Sales Quantity by Application (2019-2030)
- 10.3 South America SiC Wafer Laser Cutting Equipment Market Size by Country
- 10.3.1 South America SiC Wafer Laser Cutting Equipment Sales Quantity by Country (2019-2030)
- 10.3.2 South America SiC Wafer Laser Cutting Equipment Consumption Value by Country (2019-2030)
  - 10.3.3 Brazil Market Size and Forecast (2019-2030)
  - 10.3.4 Argentina Market Size and Forecast (2019-2030)

#### 11 MIDDLE EAST & AFRICA

- 11.1 Middle East & Africa SiC Wafer Laser Cutting Equipment Sales Quantity by Type (2019-2030)
- 11.2 Middle East & Africa SiC Wafer Laser Cutting Equipment Sales Quantity by Application (2019-2030)
- 11.3 Middle East & Africa SiC Wafer Laser Cutting Equipment Market Size by Country
- 11.3.1 Middle East & Africa SiC Wafer Laser Cutting Equipment Sales Quantity by Country (2019-2030)
- 11.3.2 Middle East & Africa SiC Wafer Laser Cutting Equipment Consumption Value by Country (2019-2030)
  - 11.3.3 Turkey Market Size and Forecast (2019-2030)
  - 11.3.4 Egypt Market Size and Forecast (2019-2030)
  - 11.3.5 Saudi Arabia Market Size and Forecast (2019-2030)
  - 11.3.6 South Africa Market Size and Forecast (2019-2030)

#### 12 MARKET DYNAMICS

- 12.1 SiC Wafer Laser Cutting Equipment Market Drivers
- 12.2 SiC Wafer Laser Cutting Equipment Market Restraints
- 12.3 SiC Wafer Laser Cutting Equipment Trends Analysis
- 12.4 Porters Five Forces Analysis
  - 12.4.1 Threat of New Entrants
  - 12.4.2 Bargaining Power of Suppliers
  - 12.4.3 Bargaining Power of Buyers
  - 12.4.4 Threat of Substitutes



### 12.4.5 Competitive Rivalry

#### 13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of SiC Wafer Laser Cutting Equipment and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of SiC Wafer Laser Cutting Equipment
- 13.3 SiC Wafer Laser Cutting Equipment Production Process
- 13.4 SiC Wafer Laser Cutting Equipment Industrial Chain

#### 14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
  - 14.1.1 Direct to End-User
  - 14.1.2 Distributors
- 14.2 SiC Wafer Laser Cutting Equipment Typical Distributors
- 14.3 SiC Wafer Laser Cutting Equipment Typical Customers

#### 15 RESEARCH FINDINGS AND CONCLUSION

#### **16 APPENDIX**

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer



# **List Of Tables**

#### LIST OF TABLES

- Table 1. Global SiC Wafer Laser Cutting Equipment Consumption Value by Type, (USD Million), 2019 & 2023 & 2030
- Table 2. Global SiC Wafer Laser Cutting Equipment Consumption Value by Application, (USD Million), 2019 & 2023 & 2030
- Table 3. DISCO Corporation Basic Information, Manufacturing Base and Competitors
- Table 4. DISCO Corporation Major Business
- Table 5. DISCO Corporation SiC Wafer Laser Cutting Equipment Product and Services
- Table 6. DISCO Corporation SiC Wafer Laser Cutting Equipment Sales Quantity (Units),
- Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 7. DISCO Corporation Recent Developments/Updates
- Table 8. Suzhou Delphi Laser Co Basic Information, Manufacturing Base and Competitors
- Table 9. Suzhou Delphi Laser Co Major Business
- Table 10. Suzhou Delphi Laser Co SiC Wafer Laser Cutting Equipment Product and Services
- Table 11. Suzhou Delphi Laser Co SiC Wafer Laser Cutting Equipment Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 12. Suzhou Delphi Laser Co Recent Developments/Updates
- Table 13. Han's Laser Technology Basic Information, Manufacturing Base and Competitors
- Table 14. Han's Laser Technology Major Business
- Table 15. Han's Laser Technology SiC Wafer Laser Cutting Equipment Product and Services
- Table 16. Han's Laser Technology SiC Wafer Laser Cutting Equipment Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 17. Han's Laser Technology Recent Developments/Updates
- Table 18. 3D-Micromac Basic Information, Manufacturing Base and Competitors
- Table 19. 3D-Micromac Major Business
- Table 20. 3D-Micromac SiC Wafer Laser Cutting Equipment Product and Services
- Table 21. 3D-Micromac SiC Wafer Laser Cutting Equipment Sales Quantity (Units),
- Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)



- Table 22. 3D-Micromac Recent Developments/Updates
- Table 23. Synova S.A. Basic Information, Manufacturing Base and Competitors
- Table 24. Synova S.A. Major Business
- Table 25. Synova S.A. SiC Wafer Laser Cutting Equipment Product and Services
- Table 26. Synova S.A. SiC Wafer Laser Cutting Equipment Sales Quantity (Units),
- Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 27. Synova S.A. Recent Developments/Updates
- Table 28. HGTECH Basic Information, Manufacturing Base and Competitors
- Table 29. HGTECH Major Business
- Table 30. HGTECH SiC Wafer Laser Cutting Equipment Product and Services
- Table 31. HGTECH SiC Wafer Laser Cutting Equipment Sales Quantity (Units),
- Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 32. HGTECH Recent Developments/Updates
- Table 33. ASMPT Basic Information, Manufacturing Base and Competitors
- Table 34. ASMPT Major Business
- Table 35. ASMPT SiC Wafer Laser Cutting Equipment Product and Services
- Table 36. ASMPT SiC Wafer Laser Cutting Equipment Sales Quantity (Units), Average
- Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 37. ASMPT Recent Developments/Updates
- Table 38. GHN.GIE Basic Information, Manufacturing Base and Competitors
- Table 39. GHN.GIE Major Business
- Table 40. GHN.GIE SiC Wafer Laser Cutting Equipment Product and Services
- Table 41. GHN.GIE SiC Wafer Laser Cutting Equipment Sales Quantity (Units),
- Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 42. GHN.GIE Recent Developments/Updates
- Table 43. Wuhan DR Laser Technology Basic Information, Manufacturing Base and Competitors
- Table 44. Wuhan DR Laser Technology Major Business
- Table 45. Wuhan DR Laser Technology SiC Wafer Laser Cutting Equipment Product and Services
- Table 46. Wuhan DR Laser Technology SiC Wafer Laser Cutting Equipment Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 47. Wuhan DR Laser Technology Recent Developments/Updates
- Table 48. Global SiC Wafer Laser Cutting Equipment Sales Quantity by Manufacturer (2019-2024) & (Units)



Table 49. Global SiC Wafer Laser Cutting Equipment Revenue by Manufacturer (2019-2024) & (USD Million)

Table 50. Global SiC Wafer Laser Cutting Equipment Average Price by Manufacturer (2019-2024) & (US\$/Unit)

Table 51. Market Position of Manufacturers in SiC Wafer Laser Cutting Equipment, (Tier 1, Tier 2, and Tier 3), Based on Consumption Value in 2023

Table 52. Head Office and SiC Wafer Laser Cutting Equipment Production Site of Key Manufacturer

Table 53. SiC Wafer Laser Cutting Equipment Market: Company Product Type Footprint

Table 54. SiC Wafer Laser Cutting Equipment Market: Company Product Application Footprint

Table 55. SiC Wafer Laser Cutting Equipment New Market Entrants and Barriers to Market Entry

Table 56. SiC Wafer Laser Cutting Equipment Mergers, Acquisition, Agreements, and Collaborations

Table 57. Global SiC Wafer Laser Cutting Equipment Sales Quantity by Region (2019-2024) & (Units)

Table 58. Global SiC Wafer Laser Cutting Equipment Sales Quantity by Region (2025-2030) & (Units)

Table 59. Global SiC Wafer Laser Cutting Equipment Consumption Value by Region (2019-2024) & (USD Million)

Table 60. Global SiC Wafer Laser Cutting Equipment Consumption Value by Region (2025-2030) & (USD Million)

Table 61. Global SiC Wafer Laser Cutting Equipment Average Price by Region (2019-2024) & (US\$/Unit)

Table 62. Global SiC Wafer Laser Cutting Equipment Average Price by Region (2025-2030) & (US\$/Unit)

Table 63. Global SiC Wafer Laser Cutting Equipment Sales Quantity by Type (2019-2024) & (Units)

Table 64. Global SiC Wafer Laser Cutting Equipment Sales Quantity by Type (2025-2030) & (Units)

Table 65. Global SiC Wafer Laser Cutting Equipment Consumption Value by Type (2019-2024) & (USD Million)

Table 66. Global SiC Wafer Laser Cutting Equipment Consumption Value by Type (2025-2030) & (USD Million)

Table 67. Global SiC Wafer Laser Cutting Equipment Average Price by Type (2019-2024) & (US\$/Unit)

Table 68. Global SiC Wafer Laser Cutting Equipment Average Price by Type (2025-2030) & (US\$/Unit)



Table 69. Global SiC Wafer Laser Cutting Equipment Sales Quantity by Application (2019-2024) & (Units)

Table 70. Global SiC Wafer Laser Cutting Equipment Sales Quantity by Application (2025-2030) & (Units)

Table 71. Global SiC Wafer Laser Cutting Equipment Consumption Value by Application (2019-2024) & (USD Million)

Table 72. Global SiC Wafer Laser Cutting Equipment Consumption Value by Application (2025-2030) & (USD Million)

Table 73. Global SiC Wafer Laser Cutting Equipment Average Price by Application (2019-2024) & (US\$/Unit)

Table 74. Global SiC Wafer Laser Cutting Equipment Average Price by Application (2025-2030) & (US\$/Unit)

Table 75. North America SiC Wafer Laser Cutting Equipment Sales Quantity by Type (2019-2024) & (Units)

Table 76. North America SiC Wafer Laser Cutting Equipment Sales Quantity by Type (2025-2030) & (Units)

Table 77. North America SiC Wafer Laser Cutting Equipment Sales Quantity by Application (2019-2024) & (Units)

Table 78. North America SiC Wafer Laser Cutting Equipment Sales Quantity by Application (2025-2030) & (Units)

Table 79. North America SiC Wafer Laser Cutting Equipment Sales Quantity by Country (2019-2024) & (Units)

Table 80. North America SiC Wafer Laser Cutting Equipment Sales Quantity by Country (2025-2030) & (Units)

Table 81. North America SiC Wafer Laser Cutting Equipment Consumption Value by Country (2019-2024) & (USD Million)

Table 82. North America SiC Wafer Laser Cutting Equipment Consumption Value by Country (2025-2030) & (USD Million)

Table 83. Europe SiC Wafer Laser Cutting Equipment Sales Quantity by Type (2019-2024) & (Units)

Table 84. Europe SiC Wafer Laser Cutting Equipment Sales Quantity by Type (2025-2030) & (Units)

Table 85. Europe SiC Wafer Laser Cutting Equipment Sales Quantity by Application (2019-2024) & (Units)

Table 86. Europe SiC Wafer Laser Cutting Equipment Sales Quantity by Application (2025-2030) & (Units)

Table 87. Europe SiC Wafer Laser Cutting Equipment Sales Quantity by Country (2019-2024) & (Units)

Table 88. Europe SiC Wafer Laser Cutting Equipment Sales Quantity by Country



(2025-2030) & (Units)

Table 89. Europe SiC Wafer Laser Cutting Equipment Consumption Value by Country (2019-2024) & (USD Million)

Table 90. Europe SiC Wafer Laser Cutting Equipment Consumption Value by Country (2025-2030) & (USD Million)

Table 91. Asia-Pacific SiC Wafer Laser Cutting Equipment Sales Quantity by Type (2019-2024) & (Units)

Table 92. Asia-Pacific SiC Wafer Laser Cutting Equipment Sales Quantity by Type (2025-2030) & (Units)

Table 93. Asia-Pacific SiC Wafer Laser Cutting Equipment Sales Quantity by Application (2019-2024) & (Units)

Table 94. Asia-Pacific SiC Wafer Laser Cutting Equipment Sales Quantity by Application (2025-2030) & (Units)

Table 95. Asia-Pacific SiC Wafer Laser Cutting Equipment Sales Quantity by Region (2019-2024) & (Units)

Table 96. Asia-Pacific SiC Wafer Laser Cutting Equipment Sales Quantity by Region (2025-2030) & (Units)

Table 97. Asia-Pacific SiC Wafer Laser Cutting Equipment Consumption Value by Region (2019-2024) & (USD Million)

Table 98. Asia-Pacific SiC Wafer Laser Cutting Equipment Consumption Value by Region (2025-2030) & (USD Million)

Table 99. South America SiC Wafer Laser Cutting Equipment Sales Quantity by Type (2019-2024) & (Units)

Table 100. South America SiC Wafer Laser Cutting Equipment Sales Quantity by Type (2025-2030) & (Units)

Table 101. South America SiC Wafer Laser Cutting Equipment Sales Quantity by Application (2019-2024) & (Units)

Table 102. South America SiC Wafer Laser Cutting Equipment Sales Quantity by Application (2025-2030) & (Units)

Table 103. South America SiC Wafer Laser Cutting Equipment Sales Quantity by Country (2019-2024) & (Units)

Table 104. South America SiC Wafer Laser Cutting Equipment Sales Quantity by Country (2025-2030) & (Units)

Table 105. South America SiC Wafer Laser Cutting Equipment Consumption Value by Country (2019-2024) & (USD Million)

Table 106. South America SiC Wafer Laser Cutting Equipment Consumption Value by Country (2025-2030) & (USD Million)

Table 107. Middle East & Africa SiC Wafer Laser Cutting Equipment Sales Quantity by Type (2019-2024) & (Units)



Table 108. Middle East & Africa SiC Wafer Laser Cutting Equipment Sales Quantity by Type (2025-2030) & (Units)

Table 109. Middle East & Africa SiC Wafer Laser Cutting Equipment Sales Quantity by Application (2019-2024) & (Units)

Table 110. Middle East & Africa SiC Wafer Laser Cutting Equipment Sales Quantity by Application (2025-2030) & (Units)

Table 111. Middle East & Africa SiC Wafer Laser Cutting Equipment Sales Quantity by Region (2019-2024) & (Units)

Table 112. Middle East & Africa SiC Wafer Laser Cutting Equipment Sales Quantity by Region (2025-2030) & (Units)

Table 113. Middle East & Africa SiC Wafer Laser Cutting Equipment Consumption Value by Region (2019-2024) & (USD Million)

Table 114. Middle East & Africa SiC Wafer Laser Cutting Equipment Consumption Value by Region (2025-2030) & (USD Million)

Table 115. SiC Wafer Laser Cutting Equipment Raw Material

Table 116. Key Manufacturers of SiC Wafer Laser Cutting Equipment Raw Materials

Table 117. SiC Wafer Laser Cutting Equipment Typical Distributors

Table 118. SiC Wafer Laser Cutting Equipment Typical Customers



# **List Of Figures**

#### **LIST OF FIGURES**

Figure 1. SiC Wafer Laser Cutting Equipment Picture

Figure 2. Global SiC Wafer Laser Cutting Equipment Consumption Value by Type, (USD Million), 2019 & 2023 & 2030

Figure 3. Global SiC Wafer Laser Cutting Equipment Consumption Value Market Share by Type in 2023

Figure 4. Processing Sizes up to 6 Inches Examples

Figure 5. Processing Sizes up to 8 Inches Examples

Figure 6. Global SiC Wafer Laser Cutting Equipment Consumption Value by

Application, (USD Million), 2019 & 2023 & 2030

Figure 7. Global SiC Wafer Laser Cutting Equipment Consumption Value Market Share by Application in 2023

Figure 8. Foundry Examples

Figure 9. IDM Examples

Figure 10. Global SiC Wafer Laser Cutting Equipment Consumption Value, (USD

Million): 2019 & 2023 & 2030

Figure 11. Global SiC Wafer Laser Cutting Equipment Consumption Value and Forecast (2019-2030) & (USD Million)

Figure 12. Global SiC Wafer Laser Cutting Equipment Sales Quantity (2019-2030) & (Units)

Figure 13. Global SiC Wafer Laser Cutting Equipment Average Price (2019-2030) & (US\$/Unit)

Figure 14. Global SiC Wafer Laser Cutting Equipment Sales Quantity Market Share by Manufacturer in 2023

Figure 15. Global SiC Wafer Laser Cutting Equipment Consumption Value Market Share by Manufacturer in 2023

Figure 16. Producer Shipments of SiC Wafer Laser Cutting Equipment by Manufacturer Sales Quantity (\$MM) and Market Share (%): 2023

Figure 17. Top 3 SiC Wafer Laser Cutting Equipment Manufacturer (Consumption Value) Market Share in 2023

Figure 18. Top 6 SiC Wafer Laser Cutting Equipment Manufacturer (Consumption Value) Market Share in 2023

Figure 19. Global SiC Wafer Laser Cutting Equipment Sales Quantity Market Share by Region (2019-2030)

Figure 20. Global SiC Wafer Laser Cutting Equipment Consumption Value Market Share by Region (2019-2030)



Figure 21. North America SiC Wafer Laser Cutting Equipment Consumption Value (2019-2030) & (USD Million)

Figure 22. Europe SiC Wafer Laser Cutting Equipment Consumption Value (2019-2030) & (USD Million)

Figure 23. Asia-Pacific SiC Wafer Laser Cutting Equipment Consumption Value (2019-2030) & (USD Million)

Figure 24. South America SiC Wafer Laser Cutting Equipment Consumption Value (2019-2030) & (USD Million)

Figure 25. Middle East & Africa SiC Wafer Laser Cutting Equipment Consumption Value (2019-2030) & (USD Million)

Figure 26. Global SiC Wafer Laser Cutting Equipment Sales Quantity Market Share by Type (2019-2030)

Figure 27. Global SiC Wafer Laser Cutting Equipment Consumption Value Market Share by Type (2019-2030)

Figure 28. Global SiC Wafer Laser Cutting Equipment Average Price by Type (2019-2030) & (US\$/Unit)

Figure 29. Global SiC Wafer Laser Cutting Equipment Sales Quantity Market Share by Application (2019-2030)

Figure 30. Global SiC Wafer Laser Cutting Equipment Consumption Value Market Share by Application (2019-2030)

Figure 31. Global SiC Wafer Laser Cutting Equipment Average Price by Application (2019-2030) & (US\$/Unit)

Figure 32. North America SiC Wafer Laser Cutting Equipment Sales Quantity Market Share by Type (2019-2030)

Figure 33. North America SiC Wafer Laser Cutting Equipment Sales Quantity Market Share by Application (2019-2030)

Figure 34. North America SiC Wafer Laser Cutting Equipment Sales Quantity Market Share by Country (2019-2030)

Figure 35. North America SiC Wafer Laser Cutting Equipment Consumption Value Market Share by Country (2019-2030)

Figure 36. United States SiC Wafer Laser Cutting Equipment Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 37. Canada SiC Wafer Laser Cutting Equipment Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 38. Mexico SiC Wafer Laser Cutting Equipment Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 39. Europe SiC Wafer Laser Cutting Equipment Sales Quantity Market Share by Type (2019-2030)

Figure 40. Europe SiC Wafer Laser Cutting Equipment Sales Quantity Market Share by



Application (2019-2030)

Figure 41. Europe SiC Wafer Laser Cutting Equipment Sales Quantity Market Share by Country (2019-2030)

Figure 42. Europe SiC Wafer Laser Cutting Equipment Consumption Value Market Share by Country (2019-2030)

Figure 43. Germany SiC Wafer Laser Cutting Equipment Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 44. France SiC Wafer Laser Cutting Equipment Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 45. United Kingdom SiC Wafer Laser Cutting Equipment Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 46. Russia SiC Wafer Laser Cutting Equipment Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 47. Italy SiC Wafer Laser Cutting Equipment Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 48. Asia-Pacific SiC Wafer Laser Cutting Equipment Sales Quantity Market Share by Type (2019-2030)

Figure 49. Asia-Pacific SiC Wafer Laser Cutting Equipment Sales Quantity Market Share by Application (2019-2030)

Figure 50. Asia-Pacific SiC Wafer Laser Cutting Equipment Sales Quantity Market Share by Region (2019-2030)

Figure 51. Asia-Pacific SiC Wafer Laser Cutting Equipment Consumption Value Market Share by Region (2019-2030)

Figure 52. China SiC Wafer Laser Cutting Equipment Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 53. Japan SiC Wafer Laser Cutting Equipment Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 54. Korea SiC Wafer Laser Cutting Equipment Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 55. India SiC Wafer Laser Cutting Equipment Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 56. Southeast Asia SiC Wafer Laser Cutting Equipment Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 57. Australia SiC Wafer Laser Cutting Equipment Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 58. South America SiC Wafer Laser Cutting Equipment Sales Quantity Market Share by Type (2019-2030)

Figure 59. South America SiC Wafer Laser Cutting Equipment Sales Quantity Market Share by Application (2019-2030)



Figure 60. South America SiC Wafer Laser Cutting Equipment Sales Quantity Market Share by Country (2019-2030)

Figure 61. South America SiC Wafer Laser Cutting Equipment Consumption Value Market Share by Country (2019-2030)

Figure 62. Brazil SiC Wafer Laser Cutting Equipment Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 63. Argentina SiC Wafer Laser Cutting Equipment Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 64. Middle East & Africa SiC Wafer Laser Cutting Equipment Sales Quantity Market Share by Type (2019-2030)

Figure 65. Middle East & Africa SiC Wafer Laser Cutting Equipment Sales Quantity Market Share by Application (2019-2030)

Figure 66. Middle East & Africa SiC Wafer Laser Cutting Equipment Sales Quantity Market Share by Region (2019-2030)

Figure 67. Middle East & Africa SiC Wafer Laser Cutting Equipment Consumption Value Market Share by Region (2019-2030)

Figure 68. Turkey SiC Wafer Laser Cutting Equipment Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 69. Egypt SiC Wafer Laser Cutting Equipment Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 70. Saudi Arabia SiC Wafer Laser Cutting Equipment Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 71. South Africa SiC Wafer Laser Cutting Equipment Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 72. SiC Wafer Laser Cutting Equipment Market Drivers

Figure 73. SiC Wafer Laser Cutting Equipment Market Restraints

Figure 74. SiC Wafer Laser Cutting Equipment Market Trends

Figure 75. Porters Five Forces Analysis

Figure 76. Manufacturing Cost Structure Analysis of SiC Wafer Laser Cutting Equipment in 2023

Figure 77. Manufacturing Process Analysis of SiC Wafer Laser Cutting Equipment

Figure 78. SiC Wafer Laser Cutting Equipment Industrial Chain

Figure 79. Sales Quantity Channel: Direct to End-User vs Distributors

Figure 80. Direct Channel Pros & Cons

Figure 81. Indirect Channel Pros & Cons

Figure 82. Methodology

Figure 83. Research Process and Data Source



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