

Global Ion Implantation Equipment for Semiconductors Market Growth 2025-2031

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Abstracts

The global Ion Implantation Equipment for Semiconductors market size is predicted to grow from US\$ 3977 million in 2025 to US\$ 6078 million in 2031; it is expected to grow at a CAGR of 7.3% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

Ion Implantation Equipment for Semiconductors refers to specialized machinery used in the semiconductor manufacturing process to introduce dopant ions into silicon wafers, altering their electrical properties to create the desired semiconductor characteristics. This equipment accelerates ions to high energies and precisely implants them into specific regions of the wafer, enabling the formation of transistors, diodes, and other microelectronic components. It is a critical tool in advanced chip fabrication, particularly for achieving high precision and uniformity in modern process nodes, such as 3nm and below, to meet the demands of cutting-edge technologies like 5G, AI, and IoT.

The ion implanter market is highly concentrated, with around 10 commercial enterprises globally. Applied Materials maintains the largest global market share, having sold 686 units ion implanters in 2024, capturing 62.65% of the global sales market share. Axcelis Technologies ranks second worldwide, with its market share steadily increasing in recent years, reaching 21.19% of the global sales market share in 2024. The sales of other companies are relatively smaller, with other key players including Nissin Ion Equipment, Advanced Ion Beam Technology, Sumitomo Heavy Industries, and others.

The primary drivers of the ion implanter market are the rapid development of the

semiconductor industry and the increasing demand for advanced process technologies. With the proliferation of emerging technologies such as 5G, artificial intelligence, and the Internet of Things (IoT), the demand for high-performance chips has surged, driving the widespread application of ion implanters in wafer manufacturing. Additionally, the expansion of the global semiconductor supply chain and the emphasis on domestic chip manufacturing capabilities in various countries have further stimulated the growth of the ion implanter market.

In terms of market trends, ion implanters are evolving towards higher precision, greater efficiency, and smaller dimensions. To meet the requirements of advanced process nodes (such as 3nm and below), equipment manufacturers are continuously optimizing technologies to enhance implantation accuracy and uniformity. At the same time, green manufacturing and energy efficiency have become key industry focuses, driving the development of equipment towards lower energy consumption and reduced environmental impact. Furthermore, the introduction of modular designs and intelligent control systems has further improved the flexibility and production efficiency of the equipment.

LP Information, Inc. (LPI) ' newest research report, the “Ion Implantation Equipment for Semiconductors Industry Forecast” looks at past sales and reviews total world Ion Implantation Equipment for Semiconductors sales in 2024, providing a comprehensive analysis by region and market sector of projected Ion Implantation Equipment for Semiconductors sales for 2025 through 2031. With Ion Implantation Equipment for Semiconductors sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Ion Implantation Equipment for Semiconductors industry.

This Insight Report provides a comprehensive analysis of the global Ion Implantation Equipment for Semiconductors landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Ion Implantation Equipment for Semiconductors portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Ion Implantation Equipment for Semiconductors market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Ion Implantation Equipment for Semiconductors and breaks down the forecast by Type, by Application, geography, and market size to

highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Ion Implantation Equipment for Semiconductors.

This report presents a comprehensive overview, market shares, and growth opportunities of Ion Implantation Equipment for Semiconductors market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Medium-Current Implanter

High-Current Implanter

High-Energy Implanter

Segmentation by Application:

Foundry

IDM

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its

market penetration.

AMAT (Applied Materials)

Axcelis Technologies

Sumitomo Heavy Industries

Nissin Ion Equipment

Advanced Ion Beam Technology (AIBT)

Beijing Shuoke Zhongkexin Electronic Equipment

ULVAC Technologies

Shanghai Kingstone Semiconductor

Veeco Instruments

Teradyne

Qingdao Sirui Intelligent Technology

Wuxi Songyu Technology

IBS

Key Questions Addressed in this Report

What is the 10-year outlook for the global Ion Implantation Equipment for Semiconductors market?

What factors are driving Ion Implantation Equipment for Semiconductors market growth, globally and by region?

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

How do Ion Implantation Equipment for Semiconductors market opportunities vary by end market size?

How does Ion Implantation Equipment for Semiconductors break out by Type, by Application?

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 Ion Implantation Equipment for Semiconductors Annual Sales 2020-2031
- 2.1.2 World Current & Future Analysis for Ion Implantation Equipment for Semiconductors by Geographic Region, 2020, 2024 & 2031
- 2.1.3 World Current & Future Analysis for Ion Implantation Equipment for Semiconductors by Country/Region, 2020, 2024 & 2031

2.2 Ion Implantation Equipment for Semiconductors Segment by Type

- 2.2.1 Medium-Current Implanter
- 2.2.2 High-Current Implanter
- 2.2.3 High-Energy Implanter

2.3 Ion Implantation Equipment for Semiconductors Sales by Type

- 2.3.1 Global Ion Implantation Equipment for Semiconductors Sales Market Share by Type (2020-2025)
- 2.3.2 Global Ion Implantation Equipment for Semiconductors Revenue and Market Share by Type (2020-2025)
- 2.3.3 Global Ion Implantation Equipment for Semiconductors Sale Price by Type (2020-2025)

2.4 Ion Implantation Equipment for Semiconductors Segment by Application

- 2.4.1 Foundry
- 2.4.2 IDM

2.5 Ion Implantation Equipment for Semiconductors Sales by Application

- 2.5.1 Global Ion Implantation Equipment for Semiconductors Sale Market Share by Application (2020-2025)
- 2.5.2 Global Ion Implantation Equipment for Semiconductors Revenue and Market

Share by Application (2020-2025)

2.5.3 Global Ion Implantation Equipment for Semiconductors Sale Price by Application (2020-2025)

3 GLOBAL BY COMPANY

3.1 Global Ion Implantation Equipment for Semiconductors Breakdown Data by Company

3.1.1 Global Ion Implantation Equipment for Semiconductors Annual Sales by Company (2020-2025)

3.1.2 Global Ion Implantation Equipment for Semiconductors Sales Market Share by Company (2020-2025)

3.2 Global Ion Implantation Equipment for Semiconductors Annual Revenue by Company (2020-2025)

3.2.1 Global Ion Implantation Equipment for Semiconductors Revenue by Company (2020-2025)

3.2.2 Global Ion Implantation Equipment for Semiconductors Revenue Market Share by Company (2020-2025)

3.3 Global Ion Implantation Equipment for Semiconductors Sale Price by Company

3.4 Key Manufacturers Ion Implantation Equipment for Semiconductors Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Ion Implantation Equipment for Semiconductors Product Location Distribution

3.4.2 Players Ion Implantation Equipment for Semiconductors Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR ION IMPLANTATION EQUIPMENT FOR SEMICONDUCTORS BY GEOGRAPHIC REGION

4.1 World Historic Ion Implantation Equipment for Semiconductors Market Size by Geographic Region (2020-2025)

4.1.1 Global Ion Implantation Equipment for Semiconductors Annual Sales by Geographic Region (2020-2025)

4.1.2 Global Ion Implantation Equipment for Semiconductors Annual Revenue by Geographic Region (2020-2025)

4.2 World Historic Ion Implantation Equipment for Semiconductors Market Size by Country/Region (2020-2025)

4.2.1 Global Ion Implantation Equipment for Semiconductors Annual Sales by Country/Region (2020-2025)

4.2.2 Global Ion Implantation Equipment for Semiconductors Annual Revenue by Country/Region (2020-2025)

4.3 Americas Ion Implantation Equipment for Semiconductors Sales Growth

4.4 APAC Ion Implantation Equipment for Semiconductors Sales Growth

4.5 Europe Ion Implantation Equipment for Semiconductors Sales Growth

4.6 Middle East & Africa Ion Implantation Equipment for Semiconductors Sales Growth

5 AMERICAS

5.1 Americas Ion Implantation Equipment for Semiconductors Sales by Country

5.1.1 Americas Ion Implantation Equipment for Semiconductors Sales by Country (2020-2025)

5.1.2 Americas Ion Implantation Equipment for Semiconductors Revenue by Country (2020-2025)

5.2 Americas Ion Implantation Equipment for Semiconductors Sales by Type (2020-2025)

5.3 Americas Ion Implantation Equipment for Semiconductors Sales by Application (2020-2025)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Ion Implantation Equipment for Semiconductors Sales by Region

6.1.1 APAC Ion Implantation Equipment for Semiconductors Sales by Region (2020-2025)

6.1.2 APAC Ion Implantation Equipment for Semiconductors Revenue by Region (2020-2025)

6.2 APAC Ion Implantation Equipment for Semiconductors Sales by Type (2020-2025)

6.3 APAC Ion Implantation Equipment for Semiconductors Sales by Application (2020-2025)

6.4 China

6.5 Japan

- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia
- 6.10 China Taiwan

7 EUROPE

- 7.1 Europe Ion Implantation Equipment for Semiconductors by Country
 - 7.1.1 Europe Ion Implantation Equipment for Semiconductors Sales by Country (2020-2025)
 - 7.1.2 Europe Ion Implantation Equipment for Semiconductors Revenue by Country (2020-2025)
- 7.2 Europe Ion Implantation Equipment for Semiconductors Sales by Type (2020-2025)
- 7.3 Europe Ion Implantation Equipment for Semiconductors Sales by Application (2020-2025)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa Ion Implantation Equipment for Semiconductors by Country
 - 8.1.1 Middle East & Africa Ion Implantation Equipment for Semiconductors Sales by Country (2020-2025)
 - 8.1.2 Middle East & Africa Ion Implantation Equipment for Semiconductors Revenue by Country (2020-2025)
- 8.2 Middle East & Africa Ion Implantation Equipment for Semiconductors Sales by Type (2020-2025)
- 8.3 Middle East & Africa Ion Implantation Equipment for Semiconductors Sales by Application (2020-2025)
- 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 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Ion Implantation Equipment for Semiconductors

10.3 Manufacturing Process Analysis of Ion Implantation Equipment for Semiconductors

10.4 Industry Chain Structure of Ion Implantation Equipment for Semiconductors

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Ion Implantation Equipment for Semiconductors Distributors

11.3 Ion Implantation Equipment for Semiconductors Customer

12 WORLD FORECAST REVIEW FOR ION IMPLANTATION EQUIPMENT FOR SEMICONDUCTORS BY GEOGRAPHIC REGION

12.1 Global Ion Implantation Equipment for Semiconductors Market Size Forecast by Region

12.1.1 Global Ion Implantation Equipment for Semiconductors Forecast by Region (2026-2031)

12.1.2 Global Ion Implantation Equipment for Semiconductors Annual Revenue Forecast by Region (2026-2031)

12.2 Americas Forecast by Country (2026-2031)

12.3 APAC Forecast by Region (2026-2031)

12.4 Europe Forecast by Country (2026-2031)

12.5 Middle East & Africa Forecast by Country (2026-2031)

12.6 Global Ion Implantation Equipment for Semiconductors Forecast by Type (2026-2031)

12.7 Global Ion Implantation Equipment for Semiconductors Forecast by Application (2026-2031)

13 KEY PLAYERS ANALYSIS

13.1 AMAT (Applied Materials)

13.1.1 AMAT (Applied Materials) Company Information

13.1.2 AMAT (Applied Materials) Ion Implantation Equipment for Semiconductors Product Portfolios and Specifications

13.1.3 AMAT (Applied Materials) Ion Implantation Equipment for Semiconductors Sales, Revenue, Price and Gross Margin (2020-2025)

13.1.4 AMAT (Applied Materials) Main Business Overview

13.1.5 AMAT (Applied Materials) Latest Developments

13.2 Axcelis Technologies

13.2.1 Axcelis Technologies Company Information

13.2.2 Axcelis Technologies Ion Implantation Equipment for Semiconductors Product Portfolios and Specifications

13.2.3 Axcelis Technologies Ion Implantation Equipment for Semiconductors Sales, Revenue, Price and Gross Margin (2020-2025)

13.2.4 Axcelis Technologies Main Business Overview

13.2.5 Axcelis Technologies Latest Developments

13.3 Sumitomo Heavy Industries

13.3.1 Sumitomo Heavy Industries Company Information

13.3.2 Sumitomo Heavy Industries Ion Implantation Equipment for Semiconductors Product Portfolios and Specifications

13.3.3 Sumitomo Heavy Industries Ion Implantation Equipment for Semiconductors Sales, Revenue, Price and Gross Margin (2020-2025)

13.3.4 Sumitomo Heavy Industries Main Business Overview

13.3.5 Sumitomo Heavy Industries Latest Developments

13.4 Nissin Ion Equipment

13.4.1 Nissin Ion Equipment Company Information

13.4.2 Nissin Ion Equipment Ion Implantation Equipment for Semiconductors Product Portfolios and Specifications

13.4.3 Nissin Ion Equipment Ion Implantation Equipment for Semiconductors Sales, Revenue, Price and Gross Margin (2020-2025)

13.4.4 Nissin Ion Equipment Main Business Overview

13.4.5 Nissin Ion Equipment Latest Developments

13.5 Advanced Ion Beam Technology (AIBT)

13.5.1 Advanced Ion Beam Technology (AIBT) Company Information

13.5.2 Advanced Ion Beam Technology (AIBT) Ion Implantation Equipment for Semiconductors Product Portfolios and Specifications

13.5.3 Advanced Ion Beam Technology (AIBT) Ion Implantation Equipment for Semiconductors Sales, Revenue, Price and Gross Margin (2020-2025)

13.5.4 Advanced Ion Beam Technology (AIBT) Main Business Overview

13.5.5 Advanced Ion Beam Technology (AIBT) Latest Developments

13.6 Beijing Shuoke Zhongkexin Electronic Equipment

13.6.1 Beijing Shuoke Zhongkexin Electronic Equipment Company Information

13.6.2 Beijing Shuoke Zhongkexin Electronic Equipment Ion Implantation Equipment for Semiconductors Product Portfolios and Specifications

13.6.3 Beijing Shuoke Zhongkexin Electronic Equipment Ion Implantation Equipment for Semiconductors Sales, Revenue, Price and Gross Margin (2020-2025)

13.6.4 Beijing Shuoke Zhongkexin Electronic Equipment Main Business Overview

13.6.5 Beijing Shuoke Zhongkexin Electronic Equipment Latest Developments

13.7 ULVAC Technologies

13.7.1 ULVAC Technologies Company Information

13.7.2 ULVAC Technologies Ion Implantation Equipment for Semiconductors Product Portfolios and Specifications

13.7.3 ULVAC Technologies Ion Implantation Equipment for Semiconductors Sales, Revenue, Price and Gross Margin (2020-2025)

13.7.4 ULVAC Technologies Main Business Overview

13.7.5 ULVAC Technologies Latest Developments

13.8 Shanghai Kingstone Semiconductor

13.8.1 Shanghai Kingstone Semiconductor Company Information

13.8.2 Shanghai Kingstone Semiconductor Ion Implantation Equipment for Semiconductors Product Portfolios and Specifications

13.8.3 Shanghai Kingstone Semiconductor Ion Implantation Equipment for Semiconductors Sales, Revenue, Price and Gross Margin (2020-2025)

13.8.4 Shanghai Kingstone Semiconductor Main Business Overview

13.8.5 Shanghai Kingstone Semiconductor Latest Developments

13.9 Veeco Instruments

13.9.1 Veeco Instruments Company Information

13.9.2 Veeco Instruments Ion Implantation Equipment for Semiconductors Product Portfolios and Specifications

13.9.3 Veeco Instruments Ion Implantation Equipment for Semiconductors Sales, Revenue, Price and Gross Margin (2020-2025)

13.9.4 Veeco Instruments Main Business Overview

13.9.5 Veeco Instruments Latest Developments

13.10 Teradyne

13.10.1 Teradyne Company Information

13.10.2 Teradyne Ion Implantation Equipment for Semiconductors Product Portfolios

and Specifications

13.10.3 Teradyne Ion Implantation Equipment for Semiconductors Sales, Revenue, Price and Gross Margin (2020-2025)

13.10.4 Teradyne Main Business Overview

13.10.5 Teradyne Latest Developments

13.11 Qingdao Sirui Intelligent Technology

13.11.1 Qingdao Sirui Intelligent Technology Company Information

13.11.2 Qingdao Sirui Intelligent Technology Ion Implantation Equipment for Semiconductors Product Portfolios and Specifications

13.11.3 Qingdao Sirui Intelligent Technology Ion Implantation Equipment for Semiconductors Sales, Revenue, Price and Gross Margin (2020-2025)

13.11.4 Qingdao Sirui Intelligent Technology Main Business Overview

13.11.5 Qingdao Sirui Intelligent Technology Latest Developments

13.12 Wuxi Songyu Technology

13.12.1 Wuxi Songyu Technology Company Information

13.12.2 Wuxi Songyu Technology Ion Implantation Equipment for Semiconductors Product Portfolios and Specifications

13.12.3 Wuxi Songyu Technology Ion Implantation Equipment for Semiconductors Sales, Revenue, Price and Gross Margin (2020-2025)

13.12.4 Wuxi Songyu Technology Main Business Overview

13.12.5 Wuxi Songyu Technology Latest Developments

13.13 IBS

13.13.1 IBS Company Information

13.13.2 IBS Ion Implantation Equipment for Semiconductors Product Portfolios and Specifications

13.13.3 IBS Ion Implantation Equipment for Semiconductors Sales, Revenue, Price and Gross Margin (2020-2025)

13.13.4 IBS Main Business Overview

13.13.5 IBS Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Ion Implantation Equipment for Semiconductors Annual Sales CAGR by Geographic Region (2020, 2024 & 2031) & (\$ millions)

Table 2. Ion Implantation Equipment for Semiconductors Annual Sales CAGR by Country/Region (2020, 2024 & 2031) & (\$ millions)

Table 3. Major Players of Medium-Current Implanter

Table 4. Major Players of High-Current Implanter

Table 5. Major Players of High-Energy Implanter

Table 6. Global Ion Implantation Equipment for Semiconductors Sales by Type (2020-2025) & (Units)

Table 7. Global Ion Implantation Equipment for Semiconductors Sales Market Share by Type (2020-2025)

Table 8. Global Ion Implantation Equipment for Semiconductors Revenue by Type (2020-2025) & (\$ million)

Table 9. Global Ion Implantation Equipment for Semiconductors Revenue Market Share by Type (2020-2025)

Table 10. Global Ion Implantation Equipment for Semiconductors Sale Price by Type (2020-2025) & (K US\$/Unit)

Table 11. Global Ion Implantation Equipment for Semiconductors Sale by Application (2020-2025) & (Units)

Table 12. Global Ion Implantation Equipment for Semiconductors Sale Market Share by Application (2020-2025)

Table 13. Global Ion Implantation Equipment for Semiconductors Revenue by Application (2020-2025) & (\$ million)

Table 14. Global Ion Implantation Equipment for Semiconductors Revenue Market Share by Application (2020-2025)

Table 15. Global Ion Implantation Equipment for Semiconductors Sale Price by Application (2020-2025) & (K US\$/Unit)

Table 16. Global Ion Implantation Equipment for Semiconductors Sales by Company (2020-2025) & (Units)

Table 17. Global Ion Implantation Equipment for Semiconductors Sales Market Share by Company (2020-2025)

Table 18. Global Ion Implantation Equipment for Semiconductors Revenue by Company (2020-2025) & (\$ millions)

Table 19. Global Ion Implantation Equipment for Semiconductors Revenue Market Share by Company (2020-2025)

- Table 20. Global Ion Implantation Equipment for Semiconductors Sale Price by Company (2020-2025) & (K US\$/Unit)
- Table 21. Key Manufacturers Ion Implantation Equipment for Semiconductors Producing Area Distribution and Sales Area
- Table 22. Players Ion Implantation Equipment for Semiconductors Products Offered
- Table 23. Ion Implantation Equipment for Semiconductors Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)
- Table 24. New Products and Potential Entrants
- Table 25. Market M&A Activity & Strategy
- Table 26. Global Ion Implantation Equipment for Semiconductors Sales by Geographic Region (2020-2025) & (Units)
- Table 27. Global Ion Implantation Equipment for Semiconductors Sales Market Share Geographic Region (2020-2025)
- Table 28. Global Ion Implantation Equipment for Semiconductors Revenue by Geographic Region (2020-2025) & (\$ millions)
- Table 29. Global Ion Implantation Equipment for Semiconductors Revenue Market Share by Geographic Region (2020-2025)
- Table 30. Global Ion Implantation Equipment for Semiconductors Sales by Country/Region (2020-2025) & (Units)
- Table 31. Global Ion Implantation Equipment for Semiconductors Sales Market Share by Country/Region (2020-2025)
- Table 32. Global Ion Implantation Equipment for Semiconductors Revenue by Country/Region (2020-2025) & (\$ millions)
- Table 33. Global Ion Implantation Equipment for Semiconductors Revenue Market Share by Country/Region (2020-2025)
- Table 34. Americas Ion Implantation Equipment for Semiconductors Sales by Country (2020-2025) & (Units)
- Table 35. Americas Ion Implantation Equipment for Semiconductors Sales Market Share by Country (2020-2025)
- Table 36. Americas Ion Implantation Equipment for Semiconductors Revenue by Country (2020-2025) & (\$ millions)
- Table 37. Americas Ion Implantation Equipment for Semiconductors Sales by Type (2020-2025) & (Units)
- Table 38. Americas Ion Implantation Equipment for Semiconductors Sales by Application (2020-2025) & (Units)
- Table 39. APAC Ion Implantation Equipment for Semiconductors Sales by Region (2020-2025) & (Units)
- Table 40. APAC Ion Implantation Equipment for Semiconductors Sales Market Share by Region (2020-2025)

Table 41. APAC Ion Implantation Equipment for Semiconductors Revenue by Region (2020-2025) & (\$ millions)

Table 42. APAC Ion Implantation Equipment for Semiconductors Sales by Type (2020-2025) & (Units)

Table 43. APAC Ion Implantation Equipment for Semiconductors Sales by Application (2020-2025) & (Units)

Table 44. Europe Ion Implantation Equipment for Semiconductors Sales by Country (2020-2025) & (Units)

Table 45. Europe Ion Implantation Equipment for Semiconductors Revenue by Country (2020-2025) & (\$ millions)

Table 46. Europe Ion Implantation Equipment for Semiconductors Sales by Type (2020-2025) & (Units)

Table 47. Europe Ion Implantation Equipment for Semiconductors Sales by Application (2020-2025) & (Units)

Table 48. Middle East & Africa Ion Implantation Equipment for Semiconductors Sales by Country (2020-2025) & (Units)

Table 49. Middle East & Africa Ion Implantation Equipment for Semiconductors Revenue Market Share by Country (2020-2025)

Table 50. Middle East & Africa Ion Implantation Equipment for Semiconductors Sales by Type (2020-2025) & (Units)

Table 51. Middle East & Africa Ion Implantation Equipment for Semiconductors Sales by Application (2020-2025) & (Units)

Table 52. Key Market Drivers & Growth Opportunities of Ion Implantation Equipment for Semiconductors

Table 53. Key Market Challenges & Risks of Ion Implantation Equipment for Semiconductors

Table 54. Key Industry Trends of Ion Implantation Equipment for Semiconductors

Table 55. Ion Implantation Equipment for Semiconductors Raw Material

Table 56. Key Suppliers of Raw Materials

Table 57. Ion Implantation Equipment for Semiconductors Distributors List

Table 58. Ion Implantation Equipment for Semiconductors Customer List

Table 59. Global Ion Implantation Equipment for Semiconductors Sales Forecast by Region (2026-2031) & (Units)

Table 60. Global Ion Implantation Equipment for Semiconductors Revenue Forecast by Region (2026-2031) & (\$ millions)

Table 61. Americas Ion Implantation Equipment for Semiconductors Sales Forecast by Country (2026-2031) & (Units)

Table 62. Americas Ion Implantation Equipment for Semiconductors Annual Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 63. APAC Ion Implantation Equipment for Semiconductors Sales Forecast by Region (2026-2031) & (Units)

Table 64. APAC Ion Implantation Equipment for Semiconductors Annual Revenue Forecast by Region (2026-2031) & (\$ millions)

Table 65. Europe Ion Implantation Equipment for Semiconductors Sales Forecast by Country (2026-2031) & (Units)

Table 66. Europe Ion Implantation Equipment for Semiconductors Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 67. Middle East & Africa Ion Implantation Equipment for Semiconductors Sales Forecast by Country (2026-2031) & (Units)

Table 68. Middle East & Africa Ion Implantation Equipment for Semiconductors Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 69. Global Ion Implantation Equipment for Semiconductors Sales Forecast by Type (2026-2031) & (Units)

Table 70. Global Ion Implantation Equipment for Semiconductors Revenue Forecast by Type (2026-2031) & (\$ millions)

Table 71. Global Ion Implantation Equipment for Semiconductors Sales Forecast by Application (2026-2031) & (Units)

Table 72. Global Ion Implantation Equipment for Semiconductors Revenue Forecast by Application (2026-2031) & (\$ millions)

Table 73. AMAT (Applied Materials) Basic Information, Ion Implantation Equipment for Semiconductors Manufacturing Base, Sales Area and Its Competitors

Table 74. AMAT (Applied Materials) Ion Implantation Equipment for Semiconductors Product Portfolios and Specifications

Table 75. AMAT (Applied Materials) Ion Implantation Equipment for Semiconductors Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2020-2025)

Table 76. AMAT (Applied Materials) Main Business

Table 77. AMAT (Applied Materials) Latest Developments

Table 78. Axcelis Technologies Basic Information, Ion Implantation Equipment for Semiconductors Manufacturing Base, Sales Area and Its Competitors

Table 79. Axcelis Technologies Ion Implantation Equipment for Semiconductors Product Portfolios and Specifications

Table 80. Axcelis Technologies Ion Implantation Equipment for Semiconductors Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2020-2025)

Table 81. Axcelis Technologies Main Business

Table 82. Axcelis Technologies Latest Developments

Table 83. Sumitomo Heavy Industries Basic Information, Ion Implantation Equipment for Semiconductors Manufacturing Base, Sales Area and Its Competitors

Table 84. Sumitomo Heavy Industries Ion Implantation Equipment for Semiconductors

Product Portfolios and Specifications

Table 85. Sumitomo Heavy Industries Ion Implantation Equipment for Semiconductors Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2020-2025)

Table 86. Sumitomo Heavy Industries Main Business

Table 87. Sumitomo Heavy Industries Latest Developments

Table 88. Nissin Ion Equipment Basic Information, Ion Implantation Equipment for Semiconductors Manufacturing Base, Sales Area and Its Competitors

Table 89. Nissin Ion Equipment Ion Implantation Equipment for Semiconductors Product Portfolios and Specifications

Table 90. Nissin Ion Equipment Ion Implantation Equipment for Semiconductors Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2020-2025)

Table 91. Nissin Ion Equipment Main Business

Table 92. Nissin Ion Equipment Latest Developments

Table 93. Advanced Ion Beam Technology (AIBT) Basic Information, Ion Implantation Equipment for Semiconductors Manufacturing Base, Sales Area and Its Competitors

Table 94. Advanced Ion Beam Technology (AIBT) Ion Implantation Equipment for Semiconductors Product Portfolios and Specifications

Table 95. Advanced Ion Beam Technology (AIBT) Ion Implantation Equipment for Semiconductors Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2020-2025)

Table 96. Advanced Ion Beam Technology (AIBT) Main Business

Table 97. Advanced Ion Beam Technology (AIBT) Latest Developments

Table 98. Beijing Shuoke Zhongkexin Electronic Equipment Basic Information, Ion Implantation Equipment for Semiconductors Manufacturing Base, Sales Area and Its Competitors

Table 99. Beijing Shuoke Zhongkexin Electronic Equipment Ion Implantation Equipment for Semiconductors Product Portfolios and Specifications

Table 100. Beijing Shuoke Zhongkexin Electronic Equipment Ion Implantation Equipment for Semiconductors Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2020-2025)

Table 101. Beijing Shuoke Zhongkexin Electronic Equipment Main Business

Table 102. Beijing Shuoke Zhongkexin Electronic Equipment Latest Developments

Table 103. ULVAC Technologies Basic Information, Ion Implantation Equipment for Semiconductors Manufacturing Base, Sales Area and Its Competitors

Table 104. ULVAC Technologies Ion Implantation Equipment for Semiconductors Product Portfolios and Specifications

Table 105. ULVAC Technologies Ion Implantation Equipment for Semiconductors Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2020-2025)

Table 106. ULVAC Technologies Main Business

Table 107. ULVAC Technologies Latest Developments

Table 108. Shanghai Kingstone Semiconductor Basic Information, Ion Implantation Equipment for Semiconductors Manufacturing Base, Sales Area and Its Competitors

Table 109. Shanghai Kingstone Semiconductor Ion Implantation Equipment for Semiconductors Product Portfolios and Specifications

Table 110. Shanghai Kingstone Semiconductor Ion Implantation Equipment for Semiconductors Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2020-2025)

Table 111. Shanghai Kingstone Semiconductor Main Business

Table 112. Shanghai Kingstone Semiconductor Latest Developments

Table 113. Veeco Instruments Basic Information, Ion Implantation Equipment for Semiconductors Manufacturing Base, Sales Area and Its Competitors

Table 114. Veeco Instruments Ion Implantation Equipment for Semiconductors Product Portfolios and Specifications

Table 115. Veeco Instruments Ion Implantation Equipment for Semiconductors Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2020-2025)

Table 116. Veeco Instruments Main Business

Table 117. Veeco Instruments Latest Developments

Table 118. Teradyne Basic Information, Ion Implantation Equipment for Semiconductors Manufacturing Base, Sales Area and Its Competitors

Table 119. Teradyne Ion Implantation Equipment for Semiconductors Product Portfolios and Specifications

Table 120. Teradyne Ion Implantation Equipment for Semiconductors Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2020-2025)

Table 121. Teradyne Main Business

Table 122. Teradyne Latest Developments

Table 123. Qingdao Sirui Intelligent Technology Basic Information, Ion Implantation Equipment for Semiconductors Manufacturing Base, Sales Area and Its Competitors

Table 124. Qingdao Sirui Intelligent Technology Ion Implantation Equipment for Semiconductors Product Portfolios and Specifications

Table 125. Qingdao Sirui Intelligent Technology Ion Implantation Equipment for Semiconductors Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2020-2025)

Table 126. Qingdao Sirui Intelligent Technology Main Business

Table 127. Qingdao Sirui Intelligent Technology Latest Developments

Table 128. Wuxi Songyu Technology Basic Information, Ion Implantation Equipment for Semiconductors Manufacturing Base, Sales Area and Its Competitors

Table 129. Wuxi Songyu Technology Ion Implantation Equipment for Semiconductors Product Portfolios and Specifications

Table 130. Wuxi Songyu Technology Ion Implantation Equipment for Semiconductors Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2020-2025)

Table 131. Wuxi Songyu Technology Main Business

Table 132. Wuxi Songyu Technology Latest Developments

Table 133. IBS Basic Information, Ion Implantation Equipment for Semiconductors Manufacturing Base, Sales Area and Its Competitors

Table 134. IBS Ion Implantation Equipment for Semiconductors Product Portfolios and Specifications

Table 135. IBS Ion Implantation Equipment for Semiconductors Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2020-2025)

Table 136. IBS Main Business

Table 137. IBS Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Ion Implantation Equipment for Semiconductors
- Figure 2. Ion Implantation Equipment for Semiconductors Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Ion Implantation Equipment for Semiconductors Sales Growth Rate 2020-2031 (Units)
- Figure 7. Global Ion Implantation Equipment for Semiconductors Revenue Growth Rate 2020-2031 (\$ millions)
- Figure 8. Ion Implantation Equipment for Semiconductors Sales by Geographic Region (2020, 2024 & 2031) & (\$ millions)
- Figure 9. Ion Implantation Equipment for Semiconductors Sales Market Share by Country/Region (2024)
- Figure 10. Ion Implantation Equipment for Semiconductors Sales Market Share by Country/Region (2020, 2024 & 2031)
- Figure 11. Product Picture of Medium-Current Implanter
- Figure 12. Product Picture of High-Current Implanter
- Figure 13. Product Picture of High-Energy Implanter
- Figure 14. Global Ion Implantation Equipment for Semiconductors Sales Market Share by Type in 2025
- Figure 15. Global Ion Implantation Equipment for Semiconductors Revenue Market Share by Type (2020-2025)
- Figure 16. Ion Implantation Equipment for Semiconductors Consumed in Foundry
- Figure 17. Global Ion Implantation Equipment for Semiconductors Market: Foundry (2020-2025) & (Units)
- Figure 18. Ion Implantation Equipment for Semiconductors Consumed in IDM
- Figure 19. Global Ion Implantation Equipment for Semiconductors Market: IDM (2020-2025) & (Units)
- Figure 20. Global Ion Implantation Equipment for Semiconductors Sale Market Share by Application (2024)
- Figure 21. Global Ion Implantation Equipment for Semiconductors Revenue Market Share by Application in 2025
- Figure 22. Ion Implantation Equipment for Semiconductors Sales by Company in 2025 (Units)
- Figure 23. Global Ion Implantation Equipment for Semiconductors Sales Market Share

by Company in 2025

Figure 24. Ion Implantation Equipment for Semiconductors Revenue by Company in 2025 (\$ millions)

Figure 25. Global Ion Implantation Equipment for Semiconductors Revenue Market Share by Company in 2025

Figure 26. Global Ion Implantation Equipment for Semiconductors Sales Market Share by Geographic Region (2020-2025)

Figure 27. Global Ion Implantation Equipment for Semiconductors Revenue Market Share by Geographic Region in 2025

Figure 28. Americas Ion Implantation Equipment for Semiconductors Sales 2020-2025 (Units)

Figure 29. Americas Ion Implantation Equipment for Semiconductors Revenue 2020-2025 (\$ millions)

Figure 30. APAC Ion Implantation Equipment for Semiconductors Sales 2020-2025 (Units)

Figure 31. APAC Ion Implantation Equipment for Semiconductors Revenue 2020-2025 (\$ millions)

Figure 32. Europe Ion Implantation Equipment for Semiconductors Sales 2020-2025 (Units)

Figure 33. Europe Ion Implantation Equipment for Semiconductors Revenue 2020-2025 (\$ millions)

Figure 34. Middle East & Africa Ion Implantation Equipment for Semiconductors Sales 2020-2025 (Units)

Figure 35. Middle East & Africa Ion Implantation Equipment for Semiconductors Revenue 2020-2025 (\$ millions)

Figure 36. Americas Ion Implantation Equipment for Semiconductors Sales Market Share by Country in 2025

Figure 37. Americas Ion Implantation Equipment for Semiconductors Revenue Market Share by Country (2020-2025)

Figure 38. Americas Ion Implantation Equipment for Semiconductors Sales Market Share by Type (2020-2025)

Figure 39. Americas Ion Implantation Equipment for Semiconductors Sales Market Share by Application (2020-2025)

Figure 40. United States Ion Implantation Equipment for Semiconductors Revenue Growth 2020-2025 (\$ millions)

Figure 41. Canada Ion Implantation Equipment for Semiconductors Revenue Growth 2020-2025 (\$ millions)

Figure 42. Mexico Ion Implantation Equipment for Semiconductors Revenue Growth 2020-2025 (\$ millions)

Figure 43. Brazil Ion Implantation Equipment for Semiconductors Revenue Growth 2020-2025 (\$ millions)

Figure 44. APAC Ion Implantation Equipment for Semiconductors Sales Market Share by Region in 2025

Figure 45. APAC Ion Implantation Equipment for Semiconductors Revenue Market Share by Region (2020-2025)

Figure 46. APAC Ion Implantation Equipment for Semiconductors Sales Market Share by Type (2020-2025)

Figure 47. APAC Ion Implantation Equipment for Semiconductors Sales Market Share by Application (2020-2025)

Figure 48. China Ion Implantation Equipment for Semiconductors Revenue Growth 2020-2025 (\$ millions)

Figure 49. Japan Ion Implantation Equipment for Semiconductors Revenue Growth 2020-2025 (\$ millions)

Figure 50. South Korea Ion Implantation Equipment for Semiconductors Revenue Growth 2020-2025 (\$ millions)

Figure 51. Southeast Asia Ion Implantation Equipment for Semiconductors Revenue Growth 2020-2025 (\$ millions)

Figure 52. India Ion Implantation Equipment for Semiconductors Revenue Growth 2020-2025 (\$ millions)

Figure 53. Australia Ion Implantation Equipment for Semiconductors Revenue Growth 2020-2025 (\$ millions)

Figure 54. China Taiwan Ion Implantation Equipment for Semiconductors Revenue Growth 2020-2025 (\$ millions)

Figure 55. Europe Ion Implantation Equipment for Semiconductors Sales Market Share by Country in 2025

Figure 56. Europe Ion Implantation Equipment for Semiconductors Revenue Market Share by Country (2020-2025)

Figure 57. Europe Ion Implantation Equipment for Semiconductors Sales Market Share by Type (2020-2025)

Figure 58. Europe Ion Implantation Equipment for Semiconductors Sales Market Share by Application (2020-2025)

Figure 59. Germany Ion Implantation Equipment for Semiconductors Revenue Growth 2020-2025 (\$ millions)

Figure 60. France Ion Implantation Equipment for Semiconductors Revenue Growth 2020-2025 (\$ millions)

Figure 61. UK Ion Implantation Equipment for Semiconductors Revenue Growth 2020-2025 (\$ millions)

Figure 62. Italy Ion Implantation Equipment for Semiconductors Revenue Growth

2020-2025 (\$ millions)

Figure 63. Russia Ion Implantation Equipment for Semiconductors Revenue Growth

2020-2025 (\$ millions)

Figure 64. Middle East & Africa Ion Implantation Equipment for Semiconductors Sales Market Share by Country (2020-2025)

Figure 65. Middle East & Africa Ion Implantation Equipment for Semiconductors Sales Market Share by Type (2020-2025)

Figure 66. Middle East & Africa Ion Implantation Equipment for Semiconductors Sales Market Share by Application (2020-2025)

Figure 67. Egypt Ion Implantation Equipment for Semiconductors Revenue Growth 2020-2025 (\$ millions)

Figure 68. South Africa Ion Implantation Equipment for Semiconductors Revenue Growth 2020-2025 (\$ millions)

Figure 69. Israel Ion Implantation Equipment for Semiconductors Revenue Growth 2020-2025 (\$ millions)

Figure 70. Turkey Ion Implantation Equipment for Semiconductors Revenue Growth 2020-2025 (\$ millions)

Figure 71. GCC Countries Ion Implantation Equipment for Semiconductors Revenue Growth 2020-2025 (\$ millions)

Figure 72. Manufacturing Cost Structure Analysis of Ion Implantation Equipment for Semiconductors in 2025

Figure 73. Manufacturing Process Analysis of Ion Implantation Equipment for Semiconductors

Figure 74. Industry Chain Structure of Ion Implantation Equipment for Semiconductors

Figure 75. Channels of Distribution

Figure 76. Global Ion Implantation Equipment for Semiconductors Sales Market Forecast by Region (2026-2031)

Figure 77. Global Ion Implantation Equipment for Semiconductors Revenue Market Share Forecast by Region (2026-2031)

Figure 78. Global Ion Implantation Equipment for Semiconductors Sales Market Share Forecast by Type (2026-2031)

Figure 79. Global Ion Implantation Equipment for Semiconductors Revenue Market Share Forecast by Type (2026-2031)

Figure 80. Global Ion Implantation Equipment for Semiconductors Sales Market Share Forecast by Application (2026-2031)

Figure 81. Global Ion Implantation Equipment for Semiconductors Revenue Market Share Forecast by Application (2026-2031)

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