

# Global IGBT Laser Annealing Equipment Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global IGBT Laser Annealing Equipment market size is expected to reach \$ 87.79 million by 2032, rising at a market growth of 9.5% CAGR during the forecast period (2026-2032).

Laser annealing equipment refers to special equipment that uses high-energy laser beams to automatically anneal wafers. Its main function is to project a laser beam spot of a specific shape and uniform energy distribution onto a semiconductor wafer, and the moving table carries and adsorbs the wafer for scanning to complete the annealing of the entire wafer. Laser annealing equipment mainly includes IGBT laser annealing and IC front-end laser annealing equipment.

Among them, IGBT laser annealing is mainly aimed at the manufacture of IGBT power devices. For 4-inch, 6-inch, 8-inch, and 12-inch wafers, high-energy laser beams are used for automatic annealing process processing, which has the advantages of high instantaneous temperature, short action time, and low thermal budget. It can better meet the process requirements of plate processing and efficient activation.

In the manufacturing process of semiconductor devices, in order to form specific doping in silicon wafers, multiple ion implantation processes are required during the manufacturing process. During the ion input process, the bombardment of impurity ions will cause a certain degree of lattice damage to the silicon atoms in the wafer, resulting in the impurity ions not being able to be located in the correct lattice position and not having the proper electrical activity. Therefore, the wafer needs to be heat treated to repair the lattice and activate the electrical activity of the impurity ions. This heat treatment process is called annealing.

IGBT has become one of the fastest-growing power devices with its excellent performance. With the maturity of wafer thinning technology, thin-film high-voltage IGBT will become a future development trend; in addition, as the research and development of the third-generation wide bandgap semiconductor material SiC becomes more

mature, the demand for SiC devices will gradually increase. IGBT laser annealing will still be one of the mainstream technologies in the future.

This report studies the global IGBT Laser Annealing Equipment production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for IGBT Laser Annealing Equipment 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 IGBT Laser Annealing Equipment that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global IGBT Laser Annealing Equipment total production and demand, 2021-2032, (Units)

Global IGBT Laser Annealing Equipment total production value, 2021-2032, (USD Million)

Global IGBT Laser Annealing Equipment production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global IGBT Laser Annealing Equipment consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: IGBT Laser Annealing Equipment domestic production, consumption, key domestic manufacturers and share

Global IGBT Laser Annealing Equipment production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global IGBT Laser Annealing Equipment production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global IGBT Laser Annealing Equipment production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global IGBT Laser Annealing Equipment 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 Mitsui Group (JSW), Sumitomo Heavy Industries, SCREEN Semiconductor Solutions, DIT, YAC BEAM, SMEE, EO Technics, Beijing U-PRECISION Tech, Chengdu Laipu Technology, Hans DSI, 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 IGBT Laser Annealing Equipment market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (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 IGBT Laser Annealing Equipment Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global IGBT Laser Annealing Equipment Market, Segmentation by Type:

200mm

300mm

Others

Global IGBT Laser Annealing Equipment Market, Segmentation by Application:

Automotive

Industrial Control

Home Appliances

Wind Power and Photovoltaics

Rail Transportation

Aerospace

Others

### **Companies Profiled:**

Mitsui Group (JSW)

Sumitomo Heavy Industries

SCREEN Semiconductor Solutions

DIT

YAC BEAM

SMEE

EO Technics

Beijing U-PRECISION Tech

Chengdu Laipu Technology

Hans DSI

ETA Semitech

### **Key Questions Answered:**

1. How big is the global IGBT Laser Annealing Equipment market?
2. What is the demand of the global IGBT Laser Annealing Equipment market?
3. What is the year over year growth of the global IGBT Laser Annealing Equipment market?

4. What is the production and production value of the global IGBT Laser Annealing Equipment market?
5. Who are the key producers in the global IGBT Laser Annealing Equipment market?
6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

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

### 2 DEMAND SUMMARY

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

### 3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World IGBT Laser Annealing Equipment Production Value by Manufacturer (2021-2026)
- 3.2 World IGBT Laser Annealing Equipment Production by Manufacturer (2021-2026)
- 3.3 World IGBT Laser Annealing Equipment Average Price by Manufacturer (2021-2026)
- 3.4 IGBT Laser Annealing Equipment Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
  - 3.5.1 Global IGBT Laser Annealing Equipment Industry Rank of Major Manufacturers
  - 3.5.2 Global Concentration Ratios (CR4) for IGBT Laser Annealing Equipment in 2025
  - 3.5.3 Global Concentration Ratios (CR8) for IGBT Laser Annealing Equipment in 2025
- 3.6 IGBT Laser Annealing Equipment Market: Overall Company Footprint Analysis
  - 3.6.1 IGBT Laser Annealing Equipment Market: Region Footprint
  - 3.6.2 IGBT Laser Annealing Equipment Market: Company Product Type Footprint
  - 3.6.3 IGBT Laser Annealing Equipment 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: IGBT Laser Annealing Equipment Production Value Comparison
  - 4.1.1 United States VS China: IGBT Laser Annealing Equipment Production Value Comparison (2021 & 2025 & 2032)
  - 4.1.2 United States VS China: IGBT Laser Annealing Equipment Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: IGBT Laser Annealing Equipment Production Comparison
  - 4.2.1 United States VS China: IGBT Laser Annealing Equipment Production Comparison (2021 & 2025 & 2032)
  - 4.2.2 United States VS China: IGBT Laser Annealing Equipment Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: IGBT Laser Annealing Equipment Consumption Comparison
  - 4.3.1 United States VS China: IGBT Laser Annealing Equipment Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: IGBT Laser Annealing Equipment Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based IGBT Laser Annealing Equipment Manufacturers and Market Share, 2021-2026

4.4.1 United States Based IGBT Laser Annealing Equipment Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers IGBT Laser Annealing Equipment Production Value (2021-2026)

4.4.3 United States Based Manufacturers IGBT Laser Annealing Equipment Production (2021-2026)

4.5 China Based IGBT Laser Annealing Equipment Manufacturers and Market Share

4.5.1 China Based IGBT Laser Annealing Equipment Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers IGBT Laser Annealing Equipment Production Value (2021-2026)

4.5.3 China Based Manufacturers IGBT Laser Annealing Equipment Production (2021-2026)

4.6 Rest of World Based IGBT Laser Annealing Equipment Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based IGBT Laser Annealing Equipment Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers IGBT Laser Annealing Equipment Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers IGBT Laser Annealing Equipment Production (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

5.1 World IGBT Laser Annealing Equipment Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 200mm

5.2.2 300mm

5.2.3 Others

5.3 Market Segment by Type

5.3.1 World IGBT Laser Annealing Equipment Production by Type (2021-2032)

5.3.2 World IGBT Laser Annealing Equipment Production Value by Type (2021-2032)

5.3.3 World IGBT Laser Annealing Equipment Average Price by Type (2021-2032)

## **6 MARKET ANALYSIS BY APPLICATION**

6.1 World IGBT Laser Annealing Equipment Market Size Overview by Application: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Application

6.2.1 Automotice

6.2.2 Industrial Control

6.2.3 Home Appliances

6.2.4 Wind Power and Photovoltaics

6.2.5 Rail Transportation

6.2.6 Aerospace

6.2.7 Others

6.3 Market Segment by Application

6.3.1 World IGBT Laser Annealing Equipment Production by Application (2021-2032)

6.3.2 World IGBT Laser Annealing Equipment Production Value by Application (2021-2032)

6.3.3 World IGBT Laser Annealing Equipment Average Price by Application (2021-2032)

## **7 COMPANY PROFILES**

7.1 Mitsui Group (JSW)

7.1.1 Mitsui Group (JSW) Details

7.1.2 Mitsui Group (JSW) Major Business

7.1.3 Mitsui Group (JSW) IGBT Laser Annealing Equipment Product and Services

7.1.4 Mitsui Group (JSW) IGBT Laser Annealing Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.1.5 Mitsui Group (JSW) Recent Developments/Updates

7.1.6 Mitsui Group (JSW) Competitive Strengths & Weaknesses

7.2 Sumitomo Heavy Industries

7.2.1 Sumitomo Heavy Industries Details

7.2.2 Sumitomo Heavy Industries Major Business

7.2.3 Sumitomo Heavy Industries IGBT Laser Annealing Equipment Product and Services

7.2.4 Sumitomo Heavy Industries IGBT Laser Annealing Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.2.5 Sumitomo Heavy Industries Recent Developments/Updates

7.2.6 Sumitomo Heavy Industries Competitive Strengths & Weaknesses

7.3 SCREEN Semiconductor Solutions

- 7.3.1 SCREEN Semiconductor Solutions Details
- 7.3.2 SCREEN Semiconductor Solutions Major Business
- 7.3.3 SCREEN Semiconductor Solutions IGBT Laser Annealing Equipment Product and Services
- 7.3.4 SCREEN Semiconductor Solutions IGBT Laser Annealing Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 7.3.5 SCREEN Semiconductor Solutions Recent Developments/Updates
- 7.3.6 SCREEN Semiconductor Solutions Competitive Strengths & Weaknesses
- 7.4 DIT
  - 7.4.1 DIT Details
  - 7.4.2 DIT Major Business
  - 7.4.3 DIT IGBT Laser Annealing Equipment Product and Services
  - 7.4.4 DIT IGBT Laser Annealing Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 7.4.5 DIT Recent Developments/Updates
  - 7.4.6 DIT Competitive Strengths & Weaknesses
- 7.5 YAC BEAM
  - 7.5.1 YAC BEAM Details
  - 7.5.2 YAC BEAM Major Business
  - 7.5.3 YAC BEAM IGBT Laser Annealing Equipment Product and Services
  - 7.5.4 YAC BEAM IGBT Laser Annealing Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 7.5.5 YAC BEAM Recent Developments/Updates
  - 7.5.6 YAC BEAM Competitive Strengths & Weaknesses
- 7.6 SMEE
  - 7.6.1 SMEE Details
  - 7.6.2 SMEE Major Business
  - 7.6.3 SMEE IGBT Laser Annealing Equipment Product and Services
  - 7.6.4 SMEE IGBT Laser Annealing Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 7.6.5 SMEE Recent Developments/Updates
  - 7.6.6 SMEE Competitive Strengths & Weaknesses
- 7.7 EO Technics
  - 7.7.1 EO Technics Details
  - 7.7.2 EO Technics Major Business
  - 7.7.3 EO Technics IGBT Laser Annealing Equipment Product and Services
  - 7.7.4 EO Technics IGBT Laser Annealing Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 7.7.5 EO Technics Recent Developments/Updates

- 7.7.6 EO Technics Competitive Strengths & Weaknesses
- 7.8 Beijing U-PRECISION Tech
  - 7.8.1 Beijing U-PRECISION Tech Details
  - 7.8.2 Beijing U-PRECISION Tech Major Business
  - 7.8.3 Beijing U-PRECISION Tech IGBT Laser Annealing Equipment Product and Services
  - 7.8.4 Beijing U-PRECISION Tech IGBT Laser Annealing Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 7.8.5 Beijing U-PRECISION Tech Recent Developments/Updates
  - 7.8.6 Beijing U-PRECISION Tech Competitive Strengths & Weaknesses
- 7.9 Chengdu Laipu Technology
  - 7.9.1 Chengdu Laipu Technology Details
  - 7.9.2 Chengdu Laipu Technology Major Business
  - 7.9.3 Chengdu Laipu Technology IGBT Laser Annealing Equipment Product and Services
  - 7.9.4 Chengdu Laipu Technology IGBT Laser Annealing Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 7.9.5 Chengdu Laipu Technology Recent Developments/Updates
  - 7.9.6 Chengdu Laipu Technology Competitive Strengths & Weaknesses
- 7.10 Hans DSI
  - 7.10.1 Hans DSI Details
  - 7.10.2 Hans DSI Major Business
  - 7.10.3 Hans DSI IGBT Laser Annealing Equipment Product and Services
  - 7.10.4 Hans DSI IGBT Laser Annealing Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 7.10.5 Hans DSI Recent Developments/Updates
  - 7.10.6 Hans DSI Competitive Strengths & Weaknesses
- 7.11 ETA Semitech
  - 7.11.1 ETA Semitech Details
  - 7.11.2 ETA Semitech Major Business
  - 7.11.3 ETA Semitech IGBT Laser Annealing Equipment Product and Services
  - 7.11.4 ETA Semitech IGBT Laser Annealing Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 7.11.5 ETA Semitech Recent Developments/Updates
  - 7.11.6 ETA Semitech Competitive Strengths & Weaknesses

## **8 INDUSTRY CHAIN ANALYSIS**

### **8.1 IGBT Laser Annealing Equipment Industry Chain**

## 8.2 IGBT Laser Annealing Equipment Upstream Analysis

### 8.2.1 IGBT Laser Annealing Equipment Core Raw Materials

### 8.2.2 Main Manufacturers of IGBT Laser Annealing Equipment Core Raw Materials

## 8.3 Midstream Analysis

## 8.4 Downstream Analysis

## 8.5 IGBT Laser Annealing Equipment Production Mode

## 8.6 IGBT Laser Annealing Equipment Procurement Model

## 8.7 IGBT Laser Annealing Equipment Industry Sales Model and Sales Channels

### 8.7.1 IGBT Laser Annealing Equipment Sales Model

### 8.7.2 IGBT Laser Annealing Equipment Typical Distributors

## **9 RESEARCH FINDINGS AND CONCLUSION**

## **10 APPENDIX**

### 10.1 Methodology

### 10.2 Research Process and Data Source

### 10.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World IGBT Laser Annealing Equipment Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World IGBT Laser Annealing Equipment Production Value by Region (2021-2026) & (USD Million)

Table 3. World IGBT Laser Annealing Equipment Production Value by Region (2027-2032) & (USD Million)

Table 4. World IGBT Laser Annealing Equipment Production Value Market Share by Region (2021-2026)

Table 5. World IGBT Laser Annealing Equipment Production Value Market Share by Region (2027-2032)

Table 6. World IGBT Laser Annealing Equipment Production by Region (2021-2026) & (Units)

Table 7. World IGBT Laser Annealing Equipment Production by Region (2027-2032) & (Units)

Table 8. World IGBT Laser Annealing Equipment Production Market Share by Region (2021-2026)

Table 9. World IGBT Laser Annealing Equipment Production Market Share by Region (2027-2032)

Table 10. World IGBT Laser Annealing Equipment Average Price by Region (2021-2026) & (K US\$/Unit)

Table 11. World IGBT Laser Annealing Equipment Average Price by Region (2027-2032) & (K US\$/Unit)

Table 12. IGBT Laser Annealing Equipment Major Market Trends

Table 13. World IGBT Laser Annealing Equipment Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World IGBT Laser Annealing Equipment Consumption by Region (2021-2026) & (Units)

Table 15. World IGBT Laser Annealing Equipment Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World IGBT Laser Annealing Equipment Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key IGBT Laser Annealing Equipment Producers in 2025

Table 18. World IGBT Laser Annealing Equipment Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key IGBT Laser Annealing Equipment Producers in 2025

Table 20. World IGBT Laser Annealing Equipment Average Price by Manufacturer (2021-2026) & (K US\$/Unit)

Table 21. Global IGBT Laser Annealing Equipment Company Evaluation Quadrant

Table 22. World IGBT Laser Annealing Equipment Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and IGBT Laser Annealing Equipment Production Site of Key Manufacturer

Table 24. IGBT Laser Annealing Equipment Market: Company Product Type Footprint

Table 25. IGBT Laser Annealing Equipment Market: Company Product Application Footprint

Table 26. IGBT Laser Annealing Equipment Competitive Factors

Table 27. IGBT Laser Annealing Equipment New Entrant and Capacity Expansion Plans

Table 28. IGBT Laser Annealing Equipment Mergers & Acquisitions Activity

Table 29. United States VS China IGBT Laser Annealing Equipment Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China IGBT Laser Annealing Equipment Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China IGBT Laser Annealing Equipment Consumption Comparison, (2021 & 2025 & 2032) & (Units)

Table 32. United States Based IGBT Laser Annealing Equipment Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers IGBT Laser Annealing Equipment Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers IGBT Laser Annealing Equipment Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers IGBT Laser Annealing Equipment Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers IGBT Laser Annealing Equipment Production Market Share (2021-2026)

Table 37. China Based IGBT Laser Annealing Equipment Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers IGBT Laser Annealing Equipment Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers IGBT Laser Annealing Equipment Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers IGBT Laser Annealing Equipment Production, (2021-2026) & (Units)

Table 41. China Based Manufacturers IGBT Laser Annealing Equipment Production Market Share (2021-2026)

Table 42. Rest of World Based IGBT Laser Annealing Equipment Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers IGBT Laser Annealing Equipment Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers IGBT Laser Annealing Equipment Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers IGBT Laser Annealing Equipment Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers IGBT Laser Annealing Equipment Production Market Share (2021-2026)

Table 47. World IGBT Laser Annealing Equipment Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World IGBT Laser Annealing Equipment Production by Type (2021-2026) & (Units)

Table 49. World IGBT Laser Annealing Equipment Production by Type (2027-2032) & (Units)

Table 50. World IGBT Laser Annealing Equipment Production Value by Type (2021-2026) & (USD Million)

Table 51. World IGBT Laser Annealing Equipment Production Value by Type (2027-2032) & (USD Million)

Table 52. World IGBT Laser Annealing Equipment Average Price by Type (2021-2026) & (K US\$/Unit)

Table 53. World IGBT Laser Annealing Equipment Average Price by Type (2027-2032) & (K US\$/Unit)

Table 54. World IGBT Laser Annealing Equipment Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 55. World IGBT Laser Annealing Equipment Production by Application (2021-2026) & (Units)

Table 56. World IGBT Laser Annealing Equipment Production by Application (2027-2032) & (Units)

Table 57. World IGBT Laser Annealing Equipment Production Value by Application (2021-2026) & (USD Million)

Table 58. World IGBT Laser Annealing Equipment Production Value by Application (2027-2032) & (USD Million)

Table 59. World IGBT Laser Annealing Equipment Average Price by Application (2021-2026) & (K US\$/Unit)

Table 60. World IGBT Laser Annealing Equipment Average Price by Application

(2027-2032) & (K US\$/Unit)

Table 61. Mitsui Group (JSW) Basic Information, Manufacturing Base and Competitors

Table 62. Mitsui Group (JSW) Major Business

Table 63. Mitsui Group (JSW) IGBT Laser Annealing Equipment Product and Services

Table 64. Mitsui Group (JSW) IGBT Laser Annealing Equipment Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 65. Mitsui Group (JSW) Recent Developments/Updates

Table 66. Mitsui Group (JSW) Competitive Strengths & Weaknesses

Table 67. Sumitomo Heavy Industries Basic Information, Manufacturing Base and Competitors

Table 68. Sumitomo Heavy Industries Major Business

Table 69. Sumitomo Heavy Industries IGBT Laser Annealing Equipment Product and Services

Table 70. Sumitomo Heavy Industries IGBT Laser Annealing Equipment Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 71. Sumitomo Heavy Industries Recent Developments/Updates

Table 72. Sumitomo Heavy Industries Competitive Strengths & Weaknesses

Table 73. SCREEN Semiconductor Solutions Basic Information, Manufacturing Base and Competitors

Table 74. SCREEN Semiconductor Solutions Major Business

Table 75. SCREEN Semiconductor Solutions IGBT Laser Annealing Equipment Product and Services

Table 76. SCREEN Semiconductor Solutions IGBT Laser Annealing Equipment Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 77. SCREEN Semiconductor Solutions Recent Developments/Updates

Table 78. SCREEN Semiconductor Solutions Competitive Strengths & Weaknesses

Table 79. DIT Basic Information, Manufacturing Base and Competitors

Table 80. DIT Major Business

Table 81. DIT IGBT Laser Annealing Equipment Product and Services

Table 82. DIT IGBT Laser Annealing Equipment Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 83. DIT Recent Developments/Updates

Table 84. DIT Competitive Strengths & Weaknesses

Table 85. YAC BEAM Basic Information, Manufacturing Base and Competitors

Table 86. YAC BEAM Major Business

Table 87. YAC BEAM IGBT Laser Annealing Equipment Product and Services

Table 88. YAC BEAM IGBT Laser Annealing Equipment Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 89. YAC BEAM Recent Developments/Updates

Table 90. YAC BEAM Competitive Strengths & Weaknesses

Table 91. SMEE Basic Information, Manufacturing Base and Competitors

Table 92. SMEE Major Business

Table 93. SMEE IGBT Laser Annealing Equipment Product and Services

Table 94. SMEE IGBT Laser Annealing Equipment Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 95. SMEE Recent Developments/Updates

Table 96. SMEE Competitive Strengths & Weaknesses

Table 97. EO Technics Basic Information, Manufacturing Base and Competitors

Table 98. EO Technics Major Business

Table 99. EO Technics IGBT Laser Annealing Equipment Product and Services

Table 100. EO Technics IGBT Laser Annealing Equipment Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 101. EO Technics Recent Developments/Updates

Table 102. EO Technics Competitive Strengths & Weaknesses

Table 103. Beijing U-PRECISION Tech Basic Information, Manufacturing Base and Competitors

Table 104. Beijing U-PRECISION Tech Major Business

Table 105. Beijing U-PRECISION Tech IGBT Laser Annealing Equipment Product and Services

Table 106. Beijing U-PRECISION Tech IGBT Laser Annealing Equipment Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 107. Beijing U-PRECISION Tech Recent Developments/Updates

Table 108. Beijing U-PRECISION Tech Competitive Strengths & Weaknesses

Table 109. Chengdu Laipu Technology Basic Information, Manufacturing Base and Competitors

Table 110. Chengdu Laipu Technology Major Business

Table 111. Chengdu Laipu Technology IGBT Laser Annealing Equipment Product and Services

Table 112. Chengdu Laipu Technology IGBT Laser Annealing Equipment Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

- Table 113. Chengdu Laipu Technology Recent Developments/Updates
- Table 114. Chengdu Laipu Technology Competitive Strengths & Weaknesses
- Table 115. Hans DSI Basic Information, Manufacturing Base and Competitors
- Table 116. Hans DSI Major Business
- Table 117. Hans DSI IGBT Laser Annealing Equipment Product and Services
- Table 118. Hans DSI IGBT Laser Annealing Equipment Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 119. Hans DSI Recent Developments/Updates
- Table 120. Hans DSI Competitive Strengths & Weaknesses
- Table 121. ETA Semitech Basic Information, Manufacturing Base and Competitors
- Table 122. ETA Semitech Major Business
- Table 123. ETA Semitech IGBT Laser Annealing Equipment Product and Services
- Table 124. ETA Semitech IGBT Laser Annealing Equipment Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 125. ETA Semitech Recent Developments/Updates
- Table 126. ETA Semitech Competitive Strengths & Weaknesses
- Table 127. Global Key Players of IGBT Laser Annealing Equipment Upstream (Raw Materials)
- Table 128. Global IGBT Laser Annealing Equipment Typical Customers
- Table 129. IGBT Laser Annealing Equipment Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. IGBT Laser Annealing Equipment Picture

Figure 2. World IGBT Laser Annealing Equipment Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World IGBT Laser Annealing Equipment Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World IGBT Laser Annealing Equipment Production (2021-2032) & (Units)

Figure 5. World IGBT Laser Annealing Equipment Average Price (2021-2032) & (K US\$/Unit)

Figure 6. World IGBT Laser Annealing Equipment Production Value Market Share by Region (2021-2032)

Figure 7. World IGBT Laser Annealing Equipment Production Market Share by Region (2021-2032)

Figure 8. Japan IGBT Laser Annealing Equipment Production (2021-2032) & (Units)

Figure 9. China IGBT Laser Annealing Equipment Production (2021-2032) & (Units)

Figure 10. IGBT Laser Annealing Equipment Market Drivers

Figure 11. Factors Affecting Demand

Figure 12. World IGBT Laser Annealing Equipment Consumption (2021-2032) & (Units)

Figure 13. World IGBT Laser Annealing Equipment Consumption Market Share by Region (2021-2032)

Figure 14. United States IGBT Laser Annealing Equipment Consumption (2021-2032) & (Units)

Figure 15. China IGBT Laser Annealing Equipment Consumption (2021-2032) & (Units)

Figure 16. Europe IGBT Laser Annealing Equipment Consumption (2021-2032) & (Units)

Figure 17. Japan IGBT Laser Annealing Equipment Consumption (2021-2032) & (Units)

Figure 18. South Korea IGBT Laser Annealing Equipment Consumption (2021-2032) & (Units)

Figure 19. ASEAN IGBT Laser Annealing Equipment Consumption (2021-2032) & (Units)

Figure 20. India IGBT Laser Annealing Equipment Consumption (2021-2032) & (Units)

Figure 21. Producer Shipments of IGBT Laser Annealing Equipment by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 22. Global Four-firm Concentration Ratios (CR4) for IGBT Laser Annealing Equipment Markets in 2025

Figure 23. Global Four-firm Concentration Ratios (CR8) for IGBT Laser Annealing

## Equipment Markets in 2025

Figure 24. United States VS China: IGBT Laser Annealing Equipment Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 25. United States VS China: IGBT Laser Annealing Equipment Production Market Share Comparison (2021 & 2025 & 2032)

Figure 26. United States VS China: IGBT Laser Annealing Equipment Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States Based Manufacturers IGBT Laser Annealing Equipment Production Market Share 2025

Figure 28. China Based Manufacturers IGBT Laser Annealing Equipment Production Market Share 2025

Figure 29. Rest of World Based Manufacturers IGBT Laser Annealing Equipment Production Market Share 2025

Figure 30. World IGBT Laser Annealing Equipment Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 31. World IGBT Laser Annealing Equipment Production Value Market Share by Type in 2025

Figure 32. 200mm

Figure 33. 300mm

Figure 34. Others

Figure 35. World IGBT Laser Annealing Equipment Production Market Share by Type (2021-2032)

Figure 36. World IGBT Laser Annealing Equipment Production Value Market Share by Type (2021-2032)

Figure 37. World IGBT Laser Annealing Equipment Average Price by Type (2021-2032) & (K US\$/Unit)

Figure 38. World IGBT Laser Annealing Equipment Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 39. World IGBT Laser Annealing Equipment Production Value Market Share by Application in 2025

Figure 40. Automotice

Figure 41. Industrial Control

Figure 42. Home Appliances

Figure 43. Wind Power and Photovoltaics

Figure 44. Rail Transportation

Figure 45. Aerospace

Figure 46. Others

Figure 47. World IGBT Laser Annealing Equipment Production Market Share by Application (2021-2032)

Figure 48. World IGBT Laser Annealing Equipment Production Value Market Share by Application (2021-2032)

Figure 49. World IGBT Laser Annealing Equipment Average Price by Application (2021-2032) & (K US\$/Unit)

Figure 50. IGBT Laser Annealing Equipment Industry Chain

Figure 51. IGBT Laser Annealing Equipment Procurement Model

Figure 52. IGBT Laser Annealing Equipment Sales Model

Figure 53. IGBT Laser Annealing Equipment Sales Channels, Direct Sales, and Distribution

Figure 54. Methodology

Figure 55. Research Process and Data Source

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