

Global Power Laser Annealing Equipment Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Power Laser Annealing Equipment market size was valued at US\$ 376 million in 2025 and is forecast to a readjusted size of US\$ 789 million by 2032 with a CAGR of 11.1% during review period.

Power laser annealing equipment is mainly used for the manufacturing of power devices such as IGBT and SiC. For 4-inch, 6-inch, 8-inch, and 12-inch wafers, high-energy laser beams are used for automatic annealing process, 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.

Semiconductors are a key enabling technology for a wide range of products in nearly every sector of our economy. Following strong growth of 26.2% in 2021, the global semiconductor market will show single-digit growth in 2022, with a total size of US\$580 billion and a growth rate of 4.4%. In 2022, all geographic regions except Asia Pacific will show double-digit growth. Sales in the Americas were US\$142.1 billion, a year-on-year increase of 17.0%, sales in Europe were US\$53.8 billion, a year-on-year increase of 12.6%, sales in Japan were US\$48.1 billion, a year-on-year increase of 10.0%, while sales in the largest region, the Asia-Pacific region, were US\$336.2 billion, a year-on-year decrease of 2.0%. According to the World Semiconductor Trade Statistics (WSTS), the industry experienced major ups and downs in 2022. While chip sales reached their highest annual total ever in 2022, a slowdown in the second half of the year significantly limited growth. In 2022, global semiconductor sales will reach US\$574 billion, of which US semiconductor companies' sales total US\$275 billion, accounting for 48% of the global market. In order to maintain industry competitiveness, U.S. semiconductor companies' investment in R&D has also reached a record high of US\$58.8 billion.

Historically, the PC/computer and communications end markets have accounted for approximately two-thirds of total sales, with industries such as automotive, industrial and consumer electronics accounting for the remainder. But according to WSTS's 2022 Semiconductor End-Use Survey, sales in end markets in 2022 show clear changes. Although the PC/computer and communication terminal market will still account for the largest share of semiconductor sales in 2022, its lead has narrowed. Meanwhile, automotive and industrial applications experienced the largest growth this year.

As the research and development of third-generation wide-bandgap semiconductor material SiC becomes more mature, the demand for SiC devices will gradually increase. Laser annealing technology is suitable for thin-film high-voltage IGBTs and SiC products and will remain one of the mainstream technologies in the future.

This report is a detailed and comprehensive analysis for global Power Laser Annealing Equipment market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Power Laser Annealing Equipment market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Power Laser Annealing Equipment market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Power Laser Annealing Equipment market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Power Laser Annealing Equipment market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Power Laser Annealing Equipment

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Power Laser Annealing Equipment market based on the following parameters - company overview, sales quantity, revenue, 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, Applied Materials, Veeco, IDT, YAC BEAM, EO Technics, Beijing U-PRECISION Tech, Hans DSI, etc.

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

Market Segmentation

Power Laser Annealing Equipment market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Fiber Lasr

Solid-state Laser

Others

Market segment by Wafer Size

6 Inch

8 Inch

12 Inch

Others

Market segment by Application

SiC Power Device

IGBT Power Device

Others

Major players covered

Mitsui Group (JSW)

Sumitomo Heavy Industries

SCREEN Semiconductor Solutions

Applied Materials

Veeco

IDT

YAC BEAM

EO Technics

Beijing U-PRECISION Tech

Hans DSI

Shanghai Micro Electronics Equipment

Chengdu Laipu 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 Power Laser Annealing Equipment product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Power Laser Annealing Equipment, with price, sales quantity, revenue, and global market share of Power Laser Annealing Equipment from 2021 to 2026.

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

Chapter 4, the Power Laser Annealing Equipment breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

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 2021 to 2026. and Power Laser Annealing Equipment market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Power Laser Annealing Equipment.

Chapter 14 and 15, to describe Power Laser Annealing Equipment sales channel, distributors, customers, research findings and conclusion.

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