

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

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Abstracts

The global Power Laser Annealing Equipment market size is expected to reach \$ 789 million by 2032, rising at a market growth of 11.1% CAGR during the forecast period (2026-2032).

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 studies the global Power Laser Annealing Equipment production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Power 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, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Power 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 Power Laser Annealing Equipment Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Power Laser Annealing Equipment Market, Segmentation by Type:

Fiber Lasr

Solid-state Laser

Others

Global Power Laser Annealing Equipment Market, Segmentation by Wafer Size:

6 Inch

8 Inch

12 Inch

Others

Global Power Laser Annealing Equipment Market, Segmentation by Application:

SiC Power Device

IGBT Power Device

Others

Companies Profiled:

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

Key Questions Answered:

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

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