

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

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Abstracts

The global Laser Annealing Equipment market size is expected to reach \$ 1454 million by 2032, rising at a market growth of 9.7% CAGR during the forecast period (2026-2032).

During the manufacturing process of semiconductor devices, in order to form specific doping in the silicon wafer, 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, causing the impurity ions to not be located in the correct lattice position and not have the proper electrical activity. Therefore, the wafer needs to be Heat treatment is performed to repair the crystal lattice and activate the electrical activity of impurity ions. This heat treatment process is called annealing.

Laser annealing equipment refers to special equipment that uses high-energy laser beams for automated annealing processes. Its main function is to project a beam spot of a specific shape and uniform energy distribution onto the semiconductor wafer, and anneal, scan and process the wafer. Compared with traditional furnace tube annealing and rapid annealing technology, laser annealing can better meet the process requirements of thin sheet processing and efficient activation due to its advantages such as high instantaneous temperature, short action time, low thermal budget, and optional area processing. At present, laser annealing equipment has been widely used in the field of cutting-edge logic chip manufacturing.

At present, the market for laser annealing equipment is mainly concentrated in North America, Europe and Asia Pacific. North America and Europe have a high market share due to their relatively mature technology research and development and application. The Asia-Pacific region is the world's largest market, accounting for nearly 72% of the market share, especially in China, with the booming electronics manufacturing industry, the demand for laser annealing equipment has increased rapidly. Major players in the

market include Mitsui Group (JSW), Sumitomo Heavy Industries, Veeco, SCREEN Semiconductor Solutions, Applied Materials and Hitachi, etc. The top three manufacturers account for approximately 53% of the global share. These companies meet the needs of different industries for laser annealing equipment through continuous technological innovation and product upgrades. In addition, with the promotion of intelligent manufacturing and Industry 4.0, laser annealing equipment is gradually developing in the direction of automation and intelligence to improve production efficiency and product quality.

In terms of product type, Power Laser Annealing Equipment occupies a dominant position, accounting for 58% of the market share. At the same time, in terms of application, power semiconductors are the largest application field, accounting for 55%. Despite the broad market prospects, the promotion and application of laser annealing equipment still faces some challenges. First, the equipment cost is high, especially in small enterprises and emerging markets, the financial pressure to purchase laser annealing equipment is relatively large. Secondly, the operating skills requirements are high, and professional technicians are required to operate and maintain the equipment, which to a certain extent limits the popularization of laser annealing technology. In addition, with the intensification of market competition, companies need to continuously carry out technological innovation and service upgrades to maintain their competitive advantage.

Looking ahead, the market for laser annealing equipment will continue to grow. As electronic products move toward miniaturization and high performance, the requirements for material processing accuracy and efficiency are also increasing, which will drive the continued advancement of laser annealing technology. In addition, environmental protection and sustainable development will become important considerations in the development of laser annealing equipment. The use of more environmentally friendly laser technology and materials will help companies reduce energy consumption and emissions in the production process.

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

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

Highlights and key features of the study

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

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

Global Laser Annealing Equipment production by region & country, production, value,

CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

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

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

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

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

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

This report profiles key players in the global 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, Veeco, Applied Materials, Hitachi, YAC BEAM, EO Technics, Beijing U-PRECISION Tech, Shanghai Micro Electronics Equipment, 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 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 Laser Annealing Equipment Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Laser Annealing Equipment Market, Segmentation by Type:

Power Laser Annealing Equipment

IC front-end Laser Annealing Equipment

Global Laser Annealing Equipment Market, Segmentation by Application:

Power Semiconductor

Advanced Process Chip

Companies Profiled:

Mitsui Group (JSW)

Sumitomo Heavy Industries

SCREEN Semiconductor Solutions

Veeco

Applied Materials

Hitachi

YAC BEAM

EO Technics

Beijing U-PRECISION Tech

Shanghai Micro Electronics Equipment

Chengdu Laipu Technology

Hans DSI

ETA Semitech

Key Questions Answered:

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

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