

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

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Abstracts

The global Silicon Carbide Laser Annealing Equipment market size is expected to reach \$ 512 million by 2032, rising at a market growth of 5.2% CAGR during the forecast period (2026-2032).

SiC 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 with a specific shape and uniform energy distribution onto the semiconductor wafer, which is carried and absorbed by a moving workbench for scanning to complete the annealing process of the entire wafer.

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, SCREEN Semiconductor Solutions, Veeco, Applied Materials and Hitachi, etc. The top three manufacturers account for approximately 50% 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 recent years, SiC has received increasing attention as a next-generation power semiconductor. Compared to Si, SiC has a bandgap three times larger and a dielectric breakdown capability ten times greater, demonstrating superior device performance. However, it is more expensive in terms of materials and processing costs, and is

typically used in electrified railways and power transmission applications. Meanwhile, the recent trend of tightening emissions regulations in many countries has expanded the use of SiC in consumer products such as electric vehicles (EVs, PHEVs, HEVs) and EV charging stations. Against this backdrop, companies have undertaken a series of efforts to increase the diameter of SiC fibers, improve productivity, and simplify manufacturing processes, thereby enabling its cost to meet the requirements of consumer products.

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 Silicon Carbide Laser Annealing Equipment production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

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

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

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

site)

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

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

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

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

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

This report profiles key players in the global Silicon Carbide 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 Sumitomo Heavy Industries, Veeco, SCREEN Semiconductor Solutions, Mitsui Group (JSW), Applied Materials, Shanghai Micro Electronics Equipment, DIT, EO Technics, Chengdu Laipu Technology, Beijing U-PRECISION Tech, 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 Silicon Carbide 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 Silicon Carbide Laser Annealing Equipment Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Silicon Carbide Laser Annealing Equipment Market, Segmentation by Type:

Fiber Laser

Solid-state Laser

Others

Global Silicon Carbide Laser Annealing Equipment Market, Segmentation by Application:

6 Inch

8 Inch

12 Inch

Other

Companies Profiled:

Sumitomo Heavy Industries

Veeco

SCREEN Semiconductor Solutions

Mitsui Group (JSW)

Applied Materials

Shanghai Micro Electronics Equipment

DIT

EO Technics

Chengdu Laipu Technology

Beijing U-PRECISION Tech

Hans DSI

YAC BEAM

ETA Semitech

Key Questions Answered:

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

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