

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

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## Abstracts

The global Laser Annealing Machine 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). Laser annealing machine 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 machine has been widely used in the field of cutting-edge logic chip manufacturing.

The laser annealing machine market is a specific niche market within the semiconductor processing industry. These machines use laser technology to perform annealing processes on semiconductor wafers. Laser annealing involves heating the surface of a material with a precisely controlled laser beam to alter its properties, such as conductivity, crystallinity, or hardness. This technology is crucial for manufacturing advanced semiconductor devices, particularly in the production of high-performance integrated circuits. The laser annealing machine market is expected to experience significant growth due to the continued demand for smaller, faster, and more energy-efficient electronic components. Furthermore, the increasing use of innovative materials such as silicon carbide and gallium nitride in semiconductor manufacturing further drives the demand for laser annealing systems, as they enable precise control over material properties, improving device performance and reliability.

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

This report is a detailed and comprehensive analysis of the world market for Laser

Annealing Machine 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 Machine that contribute to its increasing demand across many markets.

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

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

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

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

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

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

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

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

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

This report profiles key players in the global Laser Annealing Machine 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, Hitachi, Shanghai Micro Electronics Equipment, DIT, EO Technics, Chengdu Laipu Technology, 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 Machine 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 Machine Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Laser Annealing Machine Market, Segmentation by Type:

Power Laser Annealing Machine

IC front-end Laser Annealing Machine

#### Global Laser Annealing Machine Market, Segmentation by Application:

Power Semiconductor

Advanced Process Chip

#### **Companies Profiled:**

Sumitomo Heavy Industries

Veeco

SCREEN Semiconductor Solutions

Mitsui Group (JSW)

Applied Materials

Hitachi

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

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