

Global Laser Welding Machinery Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Laser Welding Machinery market size is expected to reach \$ 4275 million by 2032, rising at a market growth of 7.1% CAGR during the forecast period (2026-2032).

Laser welding is a joining process for metals. Like all welding and joining processes, laser welding exerts heat at specific points. In laser welding, two components are joined together. For this purpose, both sides of the abutting material are melted. Laser welding machinery is a welding device that uses a high-energy-density laser beam as a heat source to locally melt and join metallic or non-metallic materials. It typically consists of a laser, an optical transmission system, a welding head, a motion control system, a cooling system, and an automated control unit. This device features a small heat-affected zone, fine welds, high welding speed, minimal deformation, and ease of automation integration. It is widely used in automotive manufacturing, power batteries, electronics, aerospace, medical devices, and precision manufacturing, and is one of the key pieces of equipment for achieving high-efficiency, high-precision connections in modern high-end manufacturing. In 2025, global sales were approximately 74,900 units.

In recent years, as the global manufacturing industry accelerates its upgrade towards higher precision, higher efficiency, and intelligent manufacturing, the market demand for laser welding machinery, as an important component of advanced manufacturing equipment, has continued to grow. Compared with traditional welding methods, laser welding has advantages such as faster welding speed, smaller heat-affected zone, lower deformation, higher weld quality, and easier automation integration, meeting the needs of complex structural parts, thin-walled materials, and high-consistency production scenarios. Driven by the rapid development of industries such as new energy vehicles, power batteries, consumer electronics, and aerospace, the laser welding machinery market has entered a stage of stable growth.

From the perspective of demand structure, new energy vehicles and power batteries are among the fastest-growing application areas for laser welding machinery. Battery casings, tabs, busbars, module structural components, and electric drive system parts all place high demands on welding precision and stability, driving the continuous expansion of demand for laser welding equipment. Meanwhile, in the fields of automotive body manufacturing, electronic components, medical devices, and precision hardware, laser welding, with its advantages of high precision and low damage, is gradually replacing some traditional welding processes, becoming an important technological path to improve product quality and production efficiency.

In terms of product structure, fiber laser welding machinery has become the mainstream in the market, characterized by high electro-optical conversion efficiency, good beam quality, and low maintenance costs. Based on automation levels, the market can be divided into handheld laser welding machinery, semi-automatic welding systems, and fully automated laser welding production lines. Among these, fully automated systems are experiencing rapid growth in the application of power batteries, automotive parts, and electronics manufacturing. Technologically, the industry is developing towards higher power, higher stability, intelligent monitoring, and flexibility, with weld seam tracking, visual positioning, online quality inspection, and robot integration gradually becoming important features of high-end products.

In terms of the industry chain, upstream suppliers include laser manufacturers, optical component suppliers, welding head suppliers, motion control system suppliers, cooling system suppliers, and industrial software suppliers; midstream suppliers are laser welding machinery and automation system integrators; and downstream suppliers cover industries such as automotive, battery, electronics, machinery manufacturing, aerospace, and medical devices. The industry as a whole has high technical barriers to entry, with core competitiveness lying in understanding laser processes, system integration capabilities, automation control levels, and adaptability to customer operating conditions. As downstream customers increase their requirements for yield, cycle time, and stability, companies with complete production line solutions will have a greater competitive advantage.

From a regional market perspective, the Asia-Pacific region is the world's largest market for laser welding machinery. China, Japan, and South Korea, leveraging their advantages in the new energy vehicle, electronics manufacturing, and power battery industry chains, occupy important positions. The European and North American markets have stable demand in the automotive manufacturing, aerospace, and high-end

industrial sectors, with high requirements for equipment precision, reliability, and automation levels. Overall, the global market exhibits a development pattern of strong demand from Asian manufacturing and stable high-end applications in Europe and America.

This report studies the global Laser Welding Machinery production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Laser Welding Machinery total production and demand, 2021-2032, (Units)

Global Laser Welding Machinery total production value, 2021-2032, (USD Million)

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

Global Laser Welding Machinery consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Laser Welding Machinery domestic production, consumption, key domestic manufacturers and share

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

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

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

This report profiles key players in the global Laser Welding Machinery 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 Trumpf, Coherent, Han's Laser, IPG Photonics, Emerson Electric Company, AMADA GROUP, Hero Laser, United Winners Laser, LaserStar Technologies, HGTECH, 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 Welding Machinery market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (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 Welding Machinery Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Laser Welding Machinery Market, Segmentation by Type:

Fiber Laser Welding Machine

Solid-State Laser Welding Machine

CO2 Laser Welding Machine

Global Laser Welding Machinery Market, Segmentation by Working Method:

Handheld

Workbench

Robot

Global Laser Welding Machinery Market, Segmentation by Power:

Low Power

Medium Power

High Power

Global Laser Welding Machinery Market, Segmentation by Application:

Lithium Battery

Automobile

Medical

Electronics

Tool and Mold-making

Others

Companies Profiled:

Trumpf

Coherent

Han's Laser

IPG Photonics

Emerson Electric Company

AMADA GROUP

Hero Laser

United Winners Laser

LaserStar Technologies

HGTECH

Chutian Laser

Key Questions Answered:

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

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