

# Global Laser Welding and Brazing Head Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Laser Welding and Brazing Head market size is expected to reach \$ 285 million by 2032, rising at a market growth of 4.9% CAGR during the forecast period (2026-2032).

Laser welding heads and laser brazing heads are two core components and methods in laser processing and joining technologies. Laser welding (fusion welding) uses a high-energy-density laser to melt the base material, forming a metallurgical bond without the need for filler material, resulting in a small heat-affected zone. Laser brazing, on the other hand, uses a filler material with a melting point lower than that of the base material. The laser melts the filler material, allowing it to wet the gap between the base materials and form a connection. This is suitable for industries such as precision electronics and automotive manufacturing.

The upstream supply chain primarily relies on suppliers of high-precision optical components (such as fused silica lenses, mirrors, and protective lenses), fiber optic coupling devices, precision sensors (for weld seam tracking and visual monitoring), and high-performance motor systems. Downstream applications cover fields such as automotive, aerospace, and electronics.

In 2025, global sales of Laser Welding and Brazing Heads are projected to reach approximately 62,100 units, with an average selling price of approximately US\$3,200 per unit and an average gross profit margin of 20-40%.

Driven by the trends of precision manufacturing and lightweight design, the laser welding and brazing head industry is undergoing a transformation from traditional energy transfer components to highly integrated, intelligent sensing terminals. The core logic of the industry is no longer limited to the precision of optical focusing, but rather deeply integrates closed-loop control systems and real-time sensing technologies. In particular, laser brazing heads have established an irreplaceable position in automotive body manufacturing, with their exceptional control over thermal distortion and aesthetic

weld quality becoming a benchmark for measuring the overall manufacturing process level of vehicles.

The global surge in new energy vehicle production capacity is the strongest engine driving the industry's growth. Power battery packs (cells, modules, and packs) have extremely stringent requirements for high-efficiency welding with minimal heat-affected zones, directly driving the market penetration of high-power, intelligent scanning welding heads.

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

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

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

Global Laser Welding and Brazing Head total production and demand, 2021-2032, (K Units)

Global Laser Welding and Brazing Head total production value, 2021-2032, (USD Million)

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

Global Laser Welding and Brazing Head consumption by region & country, CAGR, 2021-2032 & (K Units)

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

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

Global Laser Welding and Brazing Head production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Laser Welding and Brazing Head production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Laser Welding and Brazing Head 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 Precitec, Coherent, TRUMPF, IPG Photonics, AMADA WELD TECH, Laser Mechanisms, Scansonic, ABICOR BINZEL, Han's Laser, Empower, 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 and Brazing Head market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K 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 and Brazing Head Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Laser Welding and Brazing Head Market, Segmentation by Type:

Laser Welding Head

Laser Brazing Head

Global Laser Welding and Brazing Head Market, Segmentation by Control Method:

Fixed

Scanning

## Global Laser Welding and Brazing Head Market, Segmentation by Power:

Low and Medium Power

High Power

## Global Laser Welding and Brazing Head Market, Segmentation by Application:

Medical

Semiconductors

Aerospace

Automotive

Others

## **Companies Profiled:**

Precitec

Coherent

TRUMPF

IPG Photonics

AMADA WELD TECH

Laser Mechanisms

Scansonic

ABICOR BINZEL

Han's Laser

Empower

Shenzhen Worthing Technology

OSPRI

Wavelength Opto-Electronic

**Key Questions Answered:**

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

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