

Global Automatic Fiber Laser Welding Machine Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Automatic Fiber Laser Welding Machine market size is expected to reach \$ 1612 million by 2032, rising at a market growth of 7.8% CAGR during the forecast period (2026-2032).

An automated fiber laser welding machine is an automated welding device that uses a fiber laser as its core heat source and integrates a motion control system, welding head, tooling fixtures, cooling system, and vision positioning or automatic loading/unloading device. This equipment uses a high-energy-density laser beam to locally melt metal materials, achieving high-precision, high-speed, and high-consistency welding processes. Compared to handheld devices, it is more suitable for batch and continuous production. Automated fiber laser welding machines feature stable weld quality, a small heat-affected zone, minimal deformation, high automation, and integration with robots or production lines. They are widely used in new energy vehicles, power batteries, automotive parts, consumer electronics, precision hardware, medical devices, and aerospace industries. Global sales are approximately 14,000 units.

In recent years, as global manufacturing continues to upgrade towards automation, precision, and intelligence, the market demand for automatic fiber laser welding machines, as an important sub-category of advanced welding equipment, has grown rapidly. Compared to handheld or traditional welding equipment, automatic fiber laser welding machines use fiber lasers as the core heat source and integrate motion control, vision positioning, tooling fixtures, automatic loading and unloading, and online inspection systems. This enables high-speed, high-precision, and high-consistency welding processes, making them particularly suitable for high-volume, continuous, and high-yield production scenarios.

From a demand structure perspective, power batteries are currently the fastest-growing application area for automatic fiber laser welding machines. Power battery top covers, tabs, busbars, housings, module structural components, and electric drive system parts all place high demands on welding precision, stability, and consistency, driving the rapid popularization of automated laser welding systems in battery manufacturing. Simultaneously, in the automotive parts, consumer electronics, precision hardware, medical devices, and aerospace industries, automatic fiber laser welding machines, with their advantages of small heat-affected zones, stable weld quality, minimal deformation, and ease of integration into production lines, are gradually replacing some traditional welding processes, becoming crucial equipment for improving product quality and production efficiency.

In terms of product structure, automated fiber laser welding machines mainly include platform-type automated welding machines, robotic laser welding systems, specialized laser welding equipment, and integrated welding line systems. Robotic laser welding systems offer high flexibility and are suitable for welding complex trajectories; specialized equipment is designed for specific products, such as battery top cover welding, electrode welding, pipe welding, and precision structural component welding; integrated welding line systems are widely used in large-scale production scenarios for power batteries and automotive parts.

Technically, automated fiber laser welding machines are developing towards high power, high stability, intelligent inspection, and flexible manufacturing. Visual positioning, weld seam tracking, oscillating welding, molten pool monitoring, online quality inspection, and MES system integration are gradually becoming important configurations for high-end equipment. As downstream customers continuously increase their requirements for production cycle time, yield, and traceability, the competitive focus for equipment suppliers is no longer limited to single-machine performance but is gradually shifting towards process databases, automation system integration capabilities, and complete production line delivery capabilities.

In terms of the industry chain, upstream suppliers include fiber laser manufacturers, welding heads, optical components, servo systems, cooling systems, sensors, and industrial software suppliers; midstream suppliers are manufacturers of automated fiber laser welding machines and automation system integrators; and downstream suppliers cover industries such as new energy vehicles, power batteries, electronics, auto parts, machinery manufacturing, and medical devices. The industry as a whole has high technical barriers to entry, with core competitiveness lying in laser process understanding, automation control, on-site debugging capabilities, and customer

industry experience.

From a regional market perspective, the Asia-Pacific region is the world's largest market for automated fiber laser welding machines. China, Japan, and South Korea, leveraging their advantages in the power battery, automotive, and electronics manufacturing industry chains, are experiencing continuous growth in market demand. Europe and North America maintain stable demand in high-end automotive manufacturing, aerospace, medical devices, and precision industries, with higher requirements for equipment reliability, intelligence, and process stability. Overall, the global market exhibits a development pattern of rapid growth in Asian demand and stable upgrades in high-end applications in Europe and the United States.

Looking ahead, the global automated fiber laser welding machine market will be driven by three core factors: first, the continued expansion of new energy vehicle and power battery production capacity; second, the increasing demand for automation and flexible production in the manufacturing industry; and third, continuous advancements in intelligent inspection, robot integration, and high-power laser technology. Market growth is reflected not only in the increase in the number of devices, but also in the increased value of high-end automation systems and process solutions.

This report studies the global Automatic Fiber Laser Welding Machine production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Automatic Fiber Laser Welding Machine total production and demand, 2021-2032, (K Units)

Global Automatic Fiber Laser Welding Machine total production value, 2021-2032, (USD Million)

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

Global Automatic Fiber Laser Welding Machine consumption by region & country,

CAGR, 2021-2032 & (K Units)

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

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

Global Automatic Fiber Laser Welding Machine production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Automatic Fiber Laser Welding Machine production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Automatic Fiber Laser Welding 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 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 Automatic Fiber Laser Welding Machine 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 Automatic Fiber Laser Welding Machine Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automatic Fiber Laser Welding Machine Market, Segmentation by Type:

Continuous Fiber Laser

Pulsed Fiber Laser

Other

Global Automatic Fiber Laser Welding Machine Market, Segmentation by Working Method:

Workbench

Robot

Global Automatic Fiber Laser Welding Machine Market, Segmentation by Power:

Low Power

Medium Power

High Power

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

Contents

1 SUPPLY SUMMARY

- 1.1 Automatic Fiber Laser Welding Machine Introduction
- 1.2 World Automatic Fiber Laser Welding Machine Supply & Forecast
 - 1.2.1 World Automatic Fiber Laser Welding Machine Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Automatic Fiber Laser Welding Machine Production (2021-2032)
 - 1.2.3 World Automatic Fiber Laser Welding Machine Pricing Trends (2021-2032)
- 1.3 World Automatic Fiber Laser Welding Machine Production by Region (Based on Production Site)
 - 1.3.1 World Automatic Fiber Laser Welding Machine Production Value by Region (2021-2032)
 - 1.3.2 World Automatic Fiber Laser Welding Machine Production by Region (2021-2032)
 - 1.3.3 World Automatic Fiber Laser Welding Machine Average Price by Region (2021-2032)
 - 1.3.4 North America Automatic Fiber Laser Welding Machine Production (2021-2032)
 - 1.3.5 Europe Automatic Fiber Laser Welding Machine Production (2021-2032)
 - 1.3.6 China Automatic Fiber Laser Welding Machine Production (2021-2032)
 - 1.3.7 Japan Automatic Fiber Laser Welding Machine Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Automatic Fiber Laser Welding Machine Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Automatic Fiber Laser Welding Machine Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Automatic Fiber Laser Welding Machine Demand (2021-2032)
- 2.2 World Automatic Fiber Laser Welding Machine Consumption by Region
 - 2.2.1 World Automatic Fiber Laser Welding Machine Consumption by Region (2021-2026)
 - 2.2.2 World Automatic Fiber Laser Welding Machine Consumption Forecast by Region (2027-2032)
- 2.3 United States Automatic Fiber Laser Welding Machine Consumption (2021-2032)
- 2.4 China Automatic Fiber Laser Welding Machine Consumption (2021-2032)
- 2.5 Europe Automatic Fiber Laser Welding Machine Consumption (2021-2032)
- 2.6 Japan Automatic Fiber Laser Welding Machine Consumption (2021-2032)

2.7 South Korea Automatic Fiber Laser Welding Machine Consumption (2021-2032)

2.8 ASEAN Automatic Fiber Laser Welding Machine Consumption (2021-2032)

2.9 India Automatic Fiber Laser Welding Machine Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Automatic Fiber Laser Welding Machine Production Value by Manufacturer (2021-2026)

3.2 World Automatic Fiber Laser Welding Machine Production by Manufacturer (2021-2026)

3.3 World Automatic Fiber Laser Welding Machine Average Price by Manufacturer (2021-2026)

3.4 Automatic Fiber Laser Welding Machine Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Automatic Fiber Laser Welding Machine Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Automatic Fiber Laser Welding Machine in 2025

3.5.3 Global Concentration Ratios (CR8) for Automatic Fiber Laser Welding Machine in 2025

3.6 Automatic Fiber Laser Welding Machine Market: Overall Company Footprint Analysis

3.6.1 Automatic Fiber Laser Welding Machine Market: Region Footprint

3.6.2 Automatic Fiber Laser Welding Machine Market: Company Product Type Footprint

3.6.3 Automatic Fiber Laser Welding Machine Market: Company Product Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Automatic Fiber Laser Welding Machine Production Value Comparison

4.1.1 United States VS China: Automatic Fiber Laser Welding Machine Production

Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Automatic Fiber Laser Welding Machine Production

Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Automatic Fiber Laser Welding Machine Production Comparison

4.2.1 United States VS China: Automatic Fiber Laser Welding Machine Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Automatic Fiber Laser Welding Machine Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Automatic Fiber Laser Welding Machine Consumption Comparison

4.3.1 United States VS China: Automatic Fiber Laser Welding Machine Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Automatic Fiber Laser Welding Machine Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Automatic Fiber Laser Welding Machine Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Automatic Fiber Laser Welding Machine Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Automatic Fiber Laser Welding Machine Production Value (2021-2026)

4.4.3 United States Based Manufacturers Automatic Fiber Laser Welding Machine Production (2021-2026)

4.5 China Based Automatic Fiber Laser Welding Machine Manufacturers and Market Share

4.5.1 China Based Automatic Fiber Laser Welding Machine Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Automatic Fiber Laser Welding Machine Production Value (2021-2026)

4.5.3 China Based Manufacturers Automatic Fiber Laser Welding Machine Production (2021-2026)

4.6 Rest of World Based Automatic Fiber Laser Welding Machine Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Automatic Fiber Laser Welding Machine Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Automatic Fiber Laser Welding Machine Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Automatic Fiber Laser Welding Machine Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Automatic Fiber Laser Welding Machine Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Continuous Fiber Laser

5.2.2 Pulsed Fiber Laser

5.2.3 Other

5.3 Market Segment by Type

5.3.1 World Automatic Fiber Laser Welding Machine Production by Type (2021-2032)

5.3.2 World Automatic Fiber Laser Welding Machine Production Value by Type (2021-2032)

5.3.3 World Automatic Fiber Laser Welding Machine Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY WORKING METHOD

6.1 World Automatic Fiber Laser Welding Machine Market Size Overview by Working Method: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Working Method

6.2.1 Workbench

6.2.2 Robot

6.3 Market Segment by Working Method

6.3.1 World Automatic Fiber Laser Welding Machine Production by Working Method (2021-2032)

6.3.2 World Automatic Fiber Laser Welding Machine Production Value by Working Method (2021-2032)

6.3.3 World Automatic Fiber Laser Welding Machine Average Price by Working Method (2021-2032)

7 MARKET ANALYSIS BY POWER

7.1 World Automatic Fiber Laser Welding Machine Market Size Overview by Power: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Power

7.2.1 Low Power

7.2.2 Medium Power

7.2.3 High Power

7.3 Market Segment by Power

7.3.1 World Automatic Fiber Laser Welding Machine Production by Power (2021-2032)

7.3.2 World Automatic Fiber Laser Welding Machine Production Value by Power (2021-2032)

7.3.3 World Automatic Fiber Laser Welding Machine Average Price by Power (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Automatic Fiber Laser Welding Machine Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Lithium Battery

8.2.2 Automobile

8.2.3 Medical

8.2.4 Electronics

8.2.5 Tool and Mold-making

8.2.6 Others

8.3 Market Segment by Application

8.3.1 World Automatic Fiber Laser Welding Machine Production by Application (2021-2032)

8.3.2 World Automatic Fiber Laser Welding Machine Production Value by Application (2021-2032)

8.3.3 World Automatic Fiber Laser Welding Machine Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Trumpf

9.1.1 Trumpf Details

9.1.2 Trumpf Major Business

9.1.3 Trumpf Automatic Fiber Laser Welding Machine Product and Services

9.1.4 Trumpf Automatic Fiber Laser Welding Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Trumpf Recent Developments/Updates

9.1.6 Trumpf Competitive Strengths & Weaknesses

9.2 Coherent

9.2.1 Coherent Details

9.2.2 Coherent Major Business

- 9.2.3 Coherent Automatic Fiber Laser Welding Machine Product and Services
- 9.2.4 Coherent Automatic Fiber Laser Welding Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.2.5 Coherent Recent Developments/Updates
- 9.2.6 Coherent Competitive Strengths & Weaknesses
- 9.3 Han's Laser
 - 9.3.1 Han's Laser Details
 - 9.3.2 Han's Laser Major Business
 - 9.3.3 Han's Laser Automatic Fiber Laser Welding Machine Product and Services
 - 9.3.4 Han's Laser Automatic Fiber Laser Welding Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 Han's Laser Recent Developments/Updates
 - 9.3.6 Han's Laser Competitive Strengths & Weaknesses
- 9.4 IPG Photonics
 - 9.4.1 IPG Photonics Details
 - 9.4.2 IPG Photonics Major Business
 - 9.4.3 IPG Photonics Automatic Fiber Laser Welding Machine Product and Services
 - 9.4.4 IPG Photonics Automatic Fiber Laser Welding Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 IPG Photonics Recent Developments/Updates
 - 9.4.6 IPG Photonics Competitive Strengths & Weaknesses
- 9.5 Emerson Electric Company
 - 9.5.1 Emerson Electric Company Details
 - 9.5.2 Emerson Electric Company Major Business
 - 9.5.3 Emerson Electric Company Automatic Fiber Laser Welding Machine Product and Services
 - 9.5.4 Emerson Electric Company Automatic Fiber Laser Welding Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Emerson Electric Company Recent Developments/Updates
 - 9.5.6 Emerson Electric Company Competitive Strengths & Weaknesses
- 9.6 AMADA GROUP
 - 9.6.1 AMADA GROUP Details
 - 9.6.2 AMADA GROUP Major Business
 - 9.6.3 AMADA GROUP Automatic Fiber Laser Welding Machine Product and Services
 - 9.6.4 AMADA GROUP Automatic Fiber Laser Welding Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 AMADA GROUP Recent Developments/Updates
 - 9.6.6 AMADA GROUP Competitive Strengths & Weaknesses
- 9.7 Hero Laser

- 9.7.1 Hero Laser Details
- 9.7.2 Hero Laser Major Business
- 9.7.3 Hero Laser Automatic Fiber Laser Welding Machine Product and Services
- 9.7.4 Hero Laser Automatic Fiber Laser Welding Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.7.5 Hero Laser Recent Developments/Updates
- 9.7.6 Hero Laser Competitive Strengths & Weaknesses
- 9.8 United Winners Laser
 - 9.8.1 United Winners Laser Details
 - 9.8.2 United Winners Laser Major Business
 - 9.8.3 United Winners Laser Automatic Fiber Laser Welding Machine Product and Services
 - 9.8.4 United Winners Laser Automatic Fiber Laser Welding Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 United Winners Laser Recent Developments/Updates
 - 9.8.6 United Winners Laser Competitive Strengths & Weaknesses
- 9.9 LaserStar Technologies
 - 9.9.1 LaserStar Technologies Details
 - 9.9.2 LaserStar Technologies Major Business
 - 9.9.3 LaserStar Technologies Automatic Fiber Laser Welding Machine Product and Services
 - 9.9.4 LaserStar Technologies Automatic Fiber Laser Welding Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 LaserStar Technologies Recent Developments/Updates
 - 9.9.6 LaserStar Technologies Competitive Strengths & Weaknesses
- 9.10 HGTECH
 - 9.10.1 HGTECH Details
 - 9.10.2 HGTECH Major Business
 - 9.10.3 HGTECH Automatic Fiber Laser Welding Machine Product and Services
 - 9.10.4 HGTECH Automatic Fiber Laser Welding Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 HGTECH Recent Developments/Updates
 - 9.10.6 HGTECH Competitive Strengths & Weaknesses
- 9.11 Chutian Laser
 - 9.11.1 Chutian Laser Details
 - 9.11.2 Chutian Laser Major Business
 - 9.11.3 Chutian Laser Automatic Fiber Laser Welding Machine Product and Services
 - 9.11.4 Chutian Laser Automatic Fiber Laser Welding Machine Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Chutian Laser Recent Developments/Updates

9.11.6 Chutian Laser Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Automatic Fiber Laser Welding Machine Industry Chain

10.2 Automatic Fiber Laser Welding Machine Upstream Analysis

10.2.1 Automatic Fiber Laser Welding Machine Core Raw Materials

10.2.2 Main Manufacturers of Automatic Fiber Laser Welding Machine Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Automatic Fiber Laser Welding Machine Production Mode

10.6 Automatic Fiber Laser Welding Machine Procurement Model

10.7 Automatic Fiber Laser Welding Machine Industry Sales Model and Sales Channels

10.7.1 Automatic Fiber Laser Welding Machine Sales Model

10.7.2 Automatic Fiber Laser Welding Machine Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Automatic Fiber Laser Welding Machine Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Automatic Fiber Laser Welding Machine Production Value by Region (2021-2026) & (USD Million)

Table 3. World Automatic Fiber Laser Welding Machine Production Value by Region (2027-2032) & (USD Million)

Table 4. World Automatic Fiber Laser Welding Machine Production Value Market Share by Region (2021-2026)

Table 5. World Automatic Fiber Laser Welding Machine Production Value Market Share by Region (2027-2032)

Table 6. World Automatic Fiber Laser Welding Machine Production by Region (2021-2026) & (K Units)

Table 7. World Automatic Fiber Laser Welding Machine Production by Region (2027-2032) & (K Units)

Table 8. World Automatic Fiber Laser Welding Machine Production Market Share by Region (2021-2026)

Table 9. World Automatic Fiber Laser Welding Machine Production Market Share by Region (2027-2032)

Table 10. World Automatic Fiber Laser Welding Machine Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Automatic Fiber Laser Welding Machine Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Automatic Fiber Laser Welding Machine Major Market Trends

Table 13. World Automatic Fiber Laser Welding Machine Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Automatic Fiber Laser Welding Machine Consumption by Region (2021-2026) & (K Units)

Table 15. World Automatic Fiber Laser Welding Machine Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Automatic Fiber Laser Welding Machine Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Automatic Fiber Laser Welding Machine Producers in 2025

Table 18. World Automatic Fiber Laser Welding Machine Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Automatic Fiber Laser Welding Machine Producers in 2025

Table 20. World Automatic Fiber Laser Welding Machine Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Automatic Fiber Laser Welding Machine Company Evaluation Quadrant

Table 22. World Automatic Fiber Laser Welding Machine Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Automatic Fiber Laser Welding Machine Production Site of Key Manufacturer

Table 24. Automatic Fiber Laser Welding Machine Market: Company Product Type Footprint

Table 25. Automatic Fiber Laser Welding Machine Market: Company Product Application Footprint

Table 26. Automatic Fiber Laser Welding Machine Competitive Factors

Table 27. Automatic Fiber Laser Welding Machine New Entrant and Capacity Expansion Plans

Table 28. Automatic Fiber Laser Welding Machine Mergers & Acquisitions Activity

Table 29. United States VS China Automatic Fiber Laser Welding Machine Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Automatic Fiber Laser Welding Machine Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Automatic Fiber Laser Welding Machine Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Automatic Fiber Laser Welding Machine Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Automatic Fiber Laser Welding Machine Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Automatic Fiber Laser Welding Machine Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Automatic Fiber Laser Welding Machine Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Automatic Fiber Laser Welding Machine Production Market Share (2021-2026)

Table 37. China Based Automatic Fiber Laser Welding Machine Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Automatic Fiber Laser Welding Machine Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Automatic Fiber Laser Welding Machine

Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Automatic Fiber Laser Welding Machine Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Automatic Fiber Laser Welding Machine Production Market Share (2021-2026)

Table 42. Rest of World Based Automatic Fiber Laser Welding Machine Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Automatic Fiber Laser Welding Machine Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Automatic Fiber Laser Welding Machine Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Automatic Fiber Laser Welding Machine Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Automatic Fiber Laser Welding Machine Production Market Share (2021-2026)

Table 47. World Automatic Fiber Laser Welding Machine Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Automatic Fiber Laser Welding Machine Production by Type (2021-2026) & (K Units)

Table 49. World Automatic Fiber Laser Welding Machine Production by Type (2027-2032) & (K Units)

Table 50. World Automatic Fiber Laser Welding Machine Production Value by Type (2021-2026) & (USD Million)

Table 51. World Automatic Fiber Laser Welding Machine Production Value by Type (2027-2032) & (USD Million)

Table 52. World Automatic Fiber Laser Welding Machine Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Automatic Fiber Laser Welding Machine Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Automatic Fiber Laser Welding Machine Production Value by Working Method, (USD Million), 2021 & 2025 & 2032

Table 55. World Automatic Fiber Laser Welding Machine Production by Working Method (2021-2026) & (K Units)

Table 56. World Automatic Fiber Laser Welding Machine Production by Working Method (2027-2032) & (K Units)

Table 57. World Automatic Fiber Laser Welding Machine Production Value by Working Method (2021-2026) & (USD Million)

Table 58. World Automatic Fiber Laser Welding Machine Production Value by Working Method (2027-2032) & (USD Million)

Table 59. World Automatic Fiber Laser Welding Machine Average Price by Working Method (2021-2026) & (US\$/Unit)

Table 60. World Automatic Fiber Laser Welding Machine Average Price by Working Method (2027-2032) & (US\$/Unit)

Table 61. World Automatic Fiber Laser Welding Machine Production Value by Power, (USD Million), 2021 & 2025 & 2032

Table 62. World Automatic Fiber Laser Welding Machine Production by Power (2021-2026) & (K Units)

Table 63. World Automatic Fiber Laser Welding Machine Production by Power (2027-2032) & (K Units)

Table 64. World Automatic Fiber Laser Welding Machine Production Value by Power (2021-2026) & (USD Million)

Table 65. World Automatic Fiber Laser Welding Machine Production Value by Power (2027-2032) & (USD Million)

Table 66. World Automatic Fiber Laser Welding Machine Average Price by Power (2021-2026) & (US\$/Unit)

Table 67. World Automatic Fiber Laser Welding Machine Average Price by Power (2027-2032) & (US\$/Unit)

Table 68. World Automatic Fiber Laser Welding Machine Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Automatic Fiber Laser Welding Machine Production by Application (2021-2026) & (K Units)

Table 70. World Automatic Fiber Laser Welding Machine Production by Application (2027-2032) & (K Units)

Table 71. World Automatic Fiber Laser Welding Machine Production Value by Application (2021-2026) & (USD Million)

Table 72. World Automatic Fiber Laser Welding Machine Production Value by Application (2027-2032) & (USD Million)

Table 73. World Automatic Fiber Laser Welding Machine Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Automatic Fiber Laser Welding Machine Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Trumpf Basic Information, Manufacturing Base and Competitors

Table 76. Trumpf Major Business

Table 77. Trumpf Automatic Fiber Laser Welding Machine Product and Services

Table 78. Trumpf Automatic Fiber Laser Welding Machine Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Trumpf Recent Developments/Updates

Table 80. Trumpf Competitive Strengths & Weaknesses
Table 81. Coherent Basic Information, Manufacturing Base and Competitors
Table 82. Coherent Major Business
Table 83. Coherent Automatic Fiber Laser Welding Machine Product and Services
Table 84. Coherent Automatic Fiber Laser Welding Machine Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 85. Coherent Recent Developments/Updates
Table 86. Coherent Competitive Strengths & Weaknesses
Table 87. Han's Laser Basic Information, Manufacturing Base and Competitors
Table 88. Han's Laser Major Business
Table 89. Han's Laser Automatic Fiber Laser Welding Machine Product and Services
Table 90. Han's Laser Automatic Fiber Laser Welding Machine Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 91. Han's Laser Recent Developments/Updates
Table 92. Han's Laser Competitive Strengths & Weaknesses
Table 93. IPG Photonics Basic Information, Manufacturing Base and Competitors
Table 94. IPG Photonics Major Business
Table 95. IPG Photonics Automatic Fiber Laser Welding Machine Product and Services
Table 96. IPG Photonics Automatic Fiber Laser Welding Machine Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 97. IPG Photonics Recent Developments/Updates
Table 98. IPG Photonics Competitive Strengths & Weaknesses
Table 99. Emerson Electric Company Basic Information, Manufacturing Base and Competitors
Table 100. Emerson Electric Company Major Business
Table 101. Emerson Electric Company Automatic Fiber Laser Welding Machine Product and Services
Table 102. Emerson Electric Company Automatic Fiber Laser Welding Machine Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. Emerson Electric Company Recent Developments/Updates
Table 104. Emerson Electric Company Competitive Strengths & Weaknesses
Table 105. AMADA GROUP Basic Information, Manufacturing Base and Competitors
Table 106. AMADA GROUP Major Business
Table 107. AMADA GROUP Automatic Fiber Laser Welding Machine Product and Services

Table 108. AMADA GROUP Automatic Fiber Laser Welding Machine Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. AMADA GROUP Recent Developments/Updates

Table 110. AMADA GROUP Competitive Strengths & Weaknesses

Table 111. Hero Laser Basic Information, Manufacturing Base and Competitors

Table 112. Hero Laser Major Business

Table 113. Hero Laser Automatic Fiber Laser Welding Machine Product and Services

Table 114. Hero Laser Automatic Fiber Laser Welding Machine Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Hero Laser Recent Developments/Updates

Table 116. Hero Laser Competitive Strengths & Weaknesses

Table 117. United Winners Laser Basic Information, Manufacturing Base and Competitors

Table 118. United Winners Laser Major Business

Table 119. United Winners Laser Automatic Fiber Laser Welding Machine Product and Services

Table 120. United Winners Laser Automatic Fiber Laser Welding Machine Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. United Winners Laser Recent Developments/Updates

Table 122. United Winners Laser Competitive Strengths & Weaknesses

Table 123. LaserStar Technologies Basic Information, Manufacturing Base and Competitors

Table 124. LaserStar Technologies Major Business

Table 125. LaserStar Technologies Automatic Fiber Laser Welding Machine Product and Services

Table 126. LaserStar Technologies Automatic Fiber Laser Welding Machine Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. LaserStar Technologies Recent Developments/Updates

Table 128. LaserStar Technologies Competitive Strengths & Weaknesses

Table 129. HGTECH Basic Information, Manufacturing Base and Competitors

Table 130. HGTECH Major Business

Table 131. HGTECH Automatic Fiber Laser Welding Machine Product and Services

Table 132. HGTECH Automatic Fiber Laser Welding Machine Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. HGTECH Recent Developments/Updates

Table 134. HGTECH Competitive Strengths & Weaknesses

Table 135. Chutian Laser Basic Information, Manufacturing Base and Competitors

Table 136. Chutian Laser Major Business

Table 137. Chutian Laser Automatic Fiber Laser Welding Machine Product and Services

Table 138. Chutian Laser Automatic Fiber Laser Welding Machine Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Chutian Laser Recent Developments/Updates

Table 140. Chutian Laser Competitive Strengths & Weaknesses

Table 141. Global Key Players of Automatic Fiber Laser Welding Machine Upstream (Raw Materials)

Table 142. Global Automatic Fiber Laser Welding Machine Typical Customers

Table 143. Automatic Fiber Laser Welding Machine Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Automatic Fiber Laser Welding Machine Picture

Figure 2. World Automatic Fiber Laser Welding Machine Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Automatic Fiber Laser Welding Machine Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Automatic Fiber Laser Welding Machine Production (2021-2032) & (K Units)

Figure 5. World Automatic Fiber Laser Welding Machine Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Automatic Fiber Laser Welding Machine Production Value Market Share by Region (2021-2032)

Figure 7. World Automatic Fiber Laser Welding Machine Production Market Share by Region (2021-2032)

Figure 8. North America Automatic Fiber Laser Welding Machine Production (2021-2032) & (K Units)

Figure 9. Europe Automatic Fiber Laser Welding Machine Production (2021-2032) & (K Units)

Figure 10. China Automatic Fiber Laser Welding Machine Production (2021-2032) & (K Units)

Figure 11. Japan Automatic Fiber Laser Welding Machine Production (2021-2032) & (K Units)

Figure 12. Automatic Fiber Laser Welding Machine Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Automatic Fiber Laser Welding Machine Consumption (2021-2032) & (K Units)

Figure 15. World Automatic Fiber Laser Welding Machine Consumption Market Share by Region (2021-2032)

Figure 16. United States Automatic Fiber Laser Welding Machine Consumption (2021-2032) & (K Units)

Figure 17. China Automatic Fiber Laser Welding Machine Consumption (2021-2032) & (K Units)

Figure 18. Europe Automatic Fiber Laser Welding Machine Consumption (2021-2032) & (K Units)

Figure 19. Japan Automatic Fiber Laser Welding Machine Consumption (2021-2032) & (K Units)

Figure 20. South Korea Automatic Fiber Laser Welding Machine Consumption (2021-2032) & (K Units)

Figure 21. ASEAN Automatic Fiber Laser Welding Machine Consumption (2021-2032) & (K Units)

Figure 22. India Automatic Fiber Laser Welding Machine Consumption (2021-2032) & (K Units)

Figure 23. Producer Shipments of Automatic Fiber Laser Welding Machine by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Automatic Fiber Laser Welding Machine Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Automatic Fiber Laser Welding Machine Markets in 2025

Figure 26. United States VS China: Automatic Fiber Laser Welding Machine Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Automatic Fiber Laser Welding Machine Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Automatic Fiber Laser Welding Machine Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Automatic Fiber Laser Welding Machine Production Market Share 2025

Figure 30. China Based Manufacturers Automatic Fiber Laser Welding Machine Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Automatic Fiber Laser Welding Machine Production Market Share 2025

Figure 32. World Automatic Fiber Laser Welding Machine Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Automatic Fiber Laser Welding Machine Production Value Market Share by Type in 2025

Figure 34. Continuous Fiber Laser

Figure 35. Pulsed Fiber Laser

Figure 36. Other

Figure 37. World Automatic Fiber Laser Welding Machine Production Market Share by Type (2021-2032)

Figure 38. World Automatic Fiber Laser Welding Machine Production Value Market Share by Type (2021-2032)

Figure 39. World Automatic Fiber Laser Welding Machine Average Price by Type (2021-2032) & (US\$/Unit)

Figure 40. World Automatic Fiber Laser Welding Machine Production Value by Working Method, (USD Million), 2021 & 2025 & 2032

Figure 41. World Automatic Fiber Laser Welding Machine Production Value Market Share by Working Method in 2025

Figure 42. Workbench

Figure 43. Robot

Figure 44. World Automatic Fiber Laser Welding Machine Production Market Share by Working Method (2021-2032)

Figure 45. World Automatic Fiber Laser Welding Machine Production Value Market Share by Working Method (2021-2032)

Figure 46. World Automatic Fiber Laser Welding Machine Average Price by Working Method (2021-2032) & (US\$/Unit)

Figure 47. World Automatic Fiber Laser Welding Machine Production Value by Power, (USD Million), 2021 & 2025 & 2032

Figure 48. World Automatic Fiber Laser Welding Machine Production Value Market Share by Power in 2025

Figure 49. Low Power

Figure 50. Medium Power

Figure 51. High Power

Figure 52. World Automatic Fiber Laser Welding Machine Production Market Share by Power (2021-2032)

Figure 53. World Automatic Fiber Laser Welding Machine Production Value Market Share by Power (2021-2032)

Figure 54. World Automatic Fiber Laser Welding Machine Average Price by Power (2021-2032) & (US\$/Unit)

Figure 55. World Automatic Fiber Laser Welding Machine Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 56. World Automatic Fiber Laser Welding Machine Production Value Market Share by Application in 2025

Figure 57. Lithium Battery

Figure 58. Automobile

Figure 59. Medical

Figure 60. Electronics

Figure 61. Tool?and?Mold-making

Figure 62. Others

Figure 63. World Automatic Fiber Laser Welding Machine Production Market Share by Application (2021-2032)

Figure 64. World Automatic Fiber Laser Welding Machine Production Value Market Share by Application (2021-2032)

Figure 65. World Automatic Fiber Laser Welding Machine Average Price by Application (2021-2032) & (US\$/Unit)

Figure 66. Automatic Fiber Laser Welding Machine Industry Chain

Figure 67. Automatic Fiber Laser Welding Machine Procurement Model

Figure 68. Automatic Fiber Laser Welding Machine Sales Model

Figure 69. Automatic Fiber Laser Welding Machine Sales Channels, Direct Sales, and Distribution

Figure 70. Methodology

Figure 71. Research Process and Data Source

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