

Global Air-cooled Handheld Laser Welding Machine Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Air-cooled Handheld Laser Welding Machine market size is expected to reach \$ 261 million by 2032, rising at a market growth of 6.9% CAGR during the forecast period (2026-2032).

In 2025, global Air-cooled Handheld Laser Welding Machine production reached approximately 23k units , with an average global market price of around US\$7k per unit.

The Air-cooled Handheld Laser Welding Machine represents a paradigm shift in handheld laser welding. It is a new generation of compact laser welding equipment built around a fiber laser source and utilizing active forced-air cooling instead of traditional water-chiller systems. Its core working principle involves a fiber laser generating a high-energy-density laser beam, which is transmitted through an optical fiber to a lightweight, ergonomic handheld torch, focusing on the workpiece surface to cause instantaneous localized melting and rapid cooling, forming a strong and aesthetically pleasing weld. Compared to traditional water-cooled handheld laser welders, the air-cooled solution completely eliminates the need for water tanks, pumps, cooling pipelines, and refrigerants, resulting in a revolutionary breakthrough in equipment volume, weight, mobility, and maintenance costs. These devices typically integrate multiple functions into one unit (i.e., '3-in-1' or '4-in-1'), including welding, cutting, cleaning, and rust removal, offering significant advantages such as high efficiency, plug-and-play operation, and a low learning curve.

The air-cooled handheld laser welding machine industry has formed a clear structure characterized by 'core-driven upstream, integrated midstream manufacturing, and diversified downstream applications'. The upstream comprises suppliers of core components and raw materials, among which the air-cooled continuous-wave fiber laser

is the heart that determines equipment performance and reliability. Other essential components include the handheld welding torch system, active air-cooling module, power supply system, control board, and aluminum/steel structural parts. The midstream consists of equipment manufacturers who integrate these upstream components into complete systems. The downstream application areas are extensive, primarily serving small-to-medium metal fabrication shops and equipment integrators, covering sheet metal processing, stainless steel products, home appliances, kitchenware, hardware tools, automotive parts, advertising signage, and equipment repair. Representative upstream raw material and core component providers include IPG Photonics (which pioneered the air-cooled handheld laser welding system LightWELD), MaxPhotonics (the first in China to develop and mass-produce air-cooled continuous-wave lasers), JPT, Megmeet, Scanlab, etc. Representative downstream application enterprises include Fanfeng Electromechanical (EV charging station sheet metal fabrication), BYD, Tesla, Haier, Midea, Toyota, etc.

The current air-cooled handheld laser welding machine market is at a critical stage of accelerated technological substitution and rapid market expansion. The market is characterized by sustained strong demand, particularly from sectors such as sheet metal fabrication, hardware tools, home appliances, kitchenware, and new energy vehicle parts, which are driving a surge in equipment sales due to the need for portable, efficient, and low-maintenance welding solutions. The development trend has formed a clear industry consensus: in the power range below 2000W, air-cooled solutions are progressively replacing water-cooled systems, becoming the mainstream technology and product route in this power segment, owing to their significant advantages of lighter host and torch, greater portability, and lower cost. Meanwhile, for the mid-to-high power range above 2000W, the industry is shifting toward refrigerant-based direct cooling technology. The primary driving forces are the urgent need for cost reduction and efficiency improvement in manufacturing, the massive trend of replacing traditional argon arc welding, and the substantial cost reduction brought about by the localization of fiber laser production. However, the market also faces adverse factors, most notably severe product homogenization and intensifying price competition, with malpractices such as selling substandard goods, exaggerating power ratings, and abandoning after-sales service becoming rampant. Additionally, the limited heat dissipation capacity of air-cooling above 2000W restricts its further penetration into thick-plate welding applications.

This report studies the global Air-cooled Handheld Laser Welding Machine production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Air-cooled Handheld Laser Welding Machine total production and demand, 2021-2032, (K Units)

Global Air-cooled Handheld Laser Welding Machine total production value, 2021-2032, (USD Million)

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

Global Air-cooled Handheld Laser Welding Machine consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Air-cooled Handheld Laser Welding Machine domestic production, consumption, key domestic manufacturers and share

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

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

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

This report profiles key players in the global Air-cooled Handheld 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 STAHLWERK, Lasermach, IPG Photonics, Miller Welders, Blue LaserTools, Han's Laser, Chutian Laser, Morn Laser, Senfeng Laser, 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 Air-cooled Handheld 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 Air-cooled Handheld Laser Welding Machine Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Air-cooled Handheld Laser Welding Machine Market, Segmentation by Type:

Power Below 1000W

1000-2000W

Power Above 2000W

Global Air-cooled Handheld Laser Welding Machine Market, Segmentation by Functional Integration Level:

Single-Function Type

Multi-Functional Composite Type

Global Air-cooled Handheld Laser Welding Machine Market, Segmentation by Structure:

Modular

Integrated

Global Air-cooled Handheld Laser Welding Machine Market, Segmentation by Application:

Home Appliances

Medical Industry

Electronic Industry

Others

Companies Profiled:

STAHLWERK

Lasermach

IPG Photonics

Miller Welders

Blue LaserTools

Han's Laser

Chutian Laser

Morn Laser

Senfeng Laser

HGTECH

Haiwei Laser

Optic Laser

HSG Laser

Penta Laser

Chaomi Laser

GW LASER

PES Laser

Junyi Laser

BAISHENG Laser

Megmeet

Sichuang Laser

Chanxan Laser

Herolaser

Hugong Electric

Reci Laser

Key Questions Answered:

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

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