

Global Intelligent Pre-Welding Machine Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GF32009C3958EN.html>

Date: June 2026

Pages: 143

Price: US\$ 4,480.00 (Single User License)

ID: GF32009C3958EN

Abstracts

The global Intelligent Pre-Welding Machine market size is expected to reach \$ 911 million by 2032, rising at a market growth of 7.9% CAGR during the forecast period (2026-2032).

An intelligent pre-welding machine refers to automated or intelligent welding equipment used prior to the formal welding process to perform preliminary positioning, tack welding, pre-connection, or short-seam fixation of workpieces. Typically, it integrates functions such as welding power supply, fixture positioning, visual recognition, sensor-based detection, PLC/robot control, welding parameter management, and quality monitoring. Its primary function is to securely pre-weld workpieces?such as plates, pipes, profiles, steel structural components, automotive parts, and pressure vessel components?at their designated design positions, thereby preventing misalignment, deformation, gap variations, or assembly deviations during the subsequent formal welding process. Compared to conventional manual tack welding or spot welding, intelligent pre-welding machines can automatically identify workpiece positions, control welding current, voltage, and duration, record welding data, and synchronize operations with the production line. Consequently, they are widely utilized across various sectors, including automotive manufacturing, steel structures, construction machinery, pipe processing, pressure vessels, rail transit, shipbuilding, and metal component assembly.

The upstream segment of the intelligent pre-welding machine industry chain primarily comprises fundamental components and materials, such as welding power sources, welding guns/heads, wire feeding mechanisms, fixtures and tooling, servo systems, PLCs/motion controllers, industrial robots, visual recognition systems, displacement/current/temperature sensors, welding consumables, and raw materials like steel and aluminum. The midstream segment consists of manufacturers of

intelligent pre-welding machines and pre-welding workstations, who are responsible for equipment design, welding process development, automated positioning, tack welding operations, parameter control, quality inspection, data acquisition, and production line integration. The downstream segment encompasses key application industries?including automotive components, steel structures, construction machinery, pressure vessels, pipe processing, rail transit, shipbuilding, metal enclosures, and heavy equipment manufacturing?where these machines are deployed to execute workpiece positioning, fixation, and deformation control prior to the formal welding stage. The gross profit margin for intelligent pre-welding machines stands at approximately 36%.

In 2025, the average unit price for intelligent pre-welding machines is projected to be \$40,000, with a sales volume of 12,975 units and a total production capacity of 18,274 units.

From the perspective of manufacturing processes, the core value of an intelligent pre-welding machine lies in enhancing assembly stability prior to final welding. In the fabrication of steel structures, automotive components, construction machinery, pipelines, and pressure vessels, workpieces typically require tack welding or short-seam fixation before final welding; otherwise, they are prone to misalignment, gap variations, welding deformation, and dimensional deviations. By employing automated positioning, clamping, tack welding, and parameter control, intelligent pre-welding machines ensure that workpieces remain in a stable state before entering subsequent welding stages, thereby improving welding consistency and the finished product pass rate.

From the standpoint of automation upgrades, intelligent pre-welding machines are progressively replacing traditional manual tack welding and semi-automated pre-welding methods. Traditional manual pre-welding relies heavily on worker experience and is susceptible to variables such as operator proficiency, welding position, workpiece dimensions, and on-site environmental conditions?factors that often result in inconsistent weld-point quality. By integrating capabilities such as visual recognition, sensor-based detection, PLC control, robotic collaboration, and welding data logging, intelligent pre-welding machines enable standardized operations and minimize manual intervention; they are particularly well-suited for manufacturing scenarios involving mass production, highly repetitive tasks, and stringent requirements for dimensional precision.

Regarding future trends, intelligent pre-welding machines are poised to evolve toward greater flexibility, digitalization, and integration into production lines. Future equipment will be required to do more than simply perform basic tack welding; it must also adapt to

the demands of high-mix, low-volume production by automatically identifying workpiece models, retrieving specific welding parameters, monitoring weld quality in real time, and interfacing with Manufacturing Execution Systems (MES), robotic welding workstations, automated inspection equipment, and production management systems. As the manufacturing sector places increasing emphasis on weld quality traceability, cost reduction, efficiency gains, and unmanned production, intelligent pre-welding machines are expected to find expanded applications across the automotive, steel structure, construction machinery, rail transit, and heavy equipment manufacturing industries.

This report studies the global Intelligent Pre-Welding Machine production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Intelligent Pre-Welding Machine total production and demand, 2021-2032, (Units)

Global Intelligent Pre-Welding Machine total production value, 2021-2032, (USD Million)

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

Global Intelligent Pre-Welding Machine consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Intelligent Pre-Welding Machine domestic production, consumption, key domestic manufacturers and share

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

Global Intelligent Pre-Welding Machine production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Intelligent Pre-Welding Machine production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Intelligent Pre-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 Lincoln Electric, Miller, ESAB, Pro

Spot, Hirebotics, ABB, KUKA, Fronius, CLOOS, Comau, 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 Intelligent Pre-Welding 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 Intelligent Pre-Welding Machine Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Intelligent Pre-Welding Machine Market, Segmentation by Type:

Semi-Automatic Pre-Welding Machine (Automation Level

Automatic Pre-Welding Machine (Automation Level 50%-80%)

Intelligent Pre-Welding Machine (Automation Level > 80%)

Global Intelligent Pre-Welding Machine Market, Segmentation by Workpiece Dimensions:

Small Workpiece Pre-Welding Machine

Medium Workpiece Pre-Welding Machine

Large Workpiece Pre-Welding Machine

Global Intelligent Pre-Welding Machine Market, Segmentation by Pre-Welding Precision:

Standard Precision Type

High Precision Type

Ultra-High Precision Type

Global Intelligent Pre-Welding Machine Market, Segmentation by Application:

Electronic Manufacturing Industry

Automotive Industry

Aerospace

Others

Companies Profiled:

Lincoln Electric

Miller

ESAB

Pro Spot

Hirebotics

ABB

KUKA

Fronius

CLOOS

Comau

Sanhai Intelligent Equipment

NAEC

Agera Automation

Dareroobot

Panasonic Connect

FANUC

Yaskawa Motoman

Kawasaki Robotics

Key Questions Answered:

1. How big is the global Intelligent Pre-Welding Machine market?
2. What is the demand of the global Intelligent Pre-Welding Machine market?
3. What is the year over year growth of the global Intelligent Pre-Welding Machine

market?

4. What is the production and production value of the global Intelligent Pre-Welding Machine market?
5. Who are the key producers in the global Intelligent Pre-Welding Machine market?
6. What are the growth factors driving the market demand?

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