

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

<https://marketpublishers.com/r/G45DAAD909CFEN.html>

Date: June 2026

Pages: 141

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

ID: G45DAAD909CFEN

Abstracts

The global Automatic String Welding Machine market size is expected to reach \$ 1238 million by 2032, rising at a market growth of 8.1% CAGR during the forecast period (2026-2032).

Automatic String Welding Machine is specialized industrial equipment designed to automatically weld strings of solar cells (photovoltaic cells) in series during solar panel manufacturing, connecting individual cells with metal ribbons (tabs or busbars) to form a complete circuit. The upstream segment includes raw material suppliers of high-precision motion control systems, vision inspection modules, infrared or laser welding heads, temperature control systems, servo motors, industrial computers, and conveyor belts. The midstream segment encompasses machine design, precision machining of mechanical components, electronics assembly, software development for alignment algorithms and weld parameter control, system integration, and quality testing processes performed by specialized automation equipment manufacturers. The downstream segment comprises distribution channels including direct sales to module manufacturers, authorized distributors, and turnkey production line integrators, serving end-users in photovoltaic module manufacturing plants, solar cell production facilities, and renewable energy equipment manufacturing. The global average selling price for automatic string welding machines is approximately US\$58,000 per unit, with annual sales volume reaching approximately 12,050 units in 2025. The industry maintains gross margins between 18% and 25%, reflecting the competitive landscape among Chinese equipment suppliers and the cost pressures in solar module manufacturing.

The global automatic string welding machine market is undergoing rapid transformation driven by the relentless expansion of photovoltaic module manufacturing capacity. As solar energy continues to gain share in the global power generation mix, demand for

high-efficiency, high-throughput string welding equipment has intensified. The shift toward larger wafer formats (from M6 to M10 and G12) and advanced cell architectures (PERC, TOPCon, HJT) has necessitated equipment upgrades, creating significant replacement demand across existing production lines.

A notable trend reshaping the market is the transition from conventional stringers to multi-busbar (MBB) and smart stringer technologies. Multi-busbar string welding machines, capable of welding multiple busbars simultaneously, offer substantial improvements in production efficiency and reduce the risk of micro-cracks in thinner cells. The industry is also witnessing rapid adoption of high-speed automatic wire welding systems, which operate at speeds exceeding traditional equipment by significant margins. The global high-speed automatic wire welding machine market is projected to maintain a compound annual growth rate of approximately 8.13% through 2032.

Another critical development is the increasing integration of artificial intelligence and machine vision systems into string welding equipment. Modern automatic stringers incorporate real-time quality inspection capabilities, including alignment verification, solder joint integrity assessment, and defect detection. These vision-guided systems reduce scrap rates, improve first-pass yield, and provide comprehensive traceability data for module manufacturers seeking to meet increasingly stringent quality certifications.

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

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

Highlights and key features of the study

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

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

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

Global Automatic String Welding Machine consumption by region & country, CAGR, 2021-2032 & (K Units)

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

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

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

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

This report profiles key players in the global Automatic String 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 Wuxi Autowell Technology Co., Ltd., Wuxi Lead Intelligent Equipment Co., Ltd., Ningxia XN Automation Equipment Co., Ltd. (XNIU), teamtechnik Maschinen und Anlagen GmbH, Mondragon Assembly S.Coop., Ecoprogetti SRL, MCS Production Technology S.r.l., NPC Incorporated, Wuhan Sunic Photoelectricity Co., Ltd., Ooi Photoelectric Technology Co., Limited, 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 String 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 (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 Automatic String Welding Machine Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automatic String Welding Machine Market, Segmentation by Type:

Single-row Welding

Double-row Welding

Global Automatic String Welding Machine Market, Segmentation by Automation Level:

Fully Automatic

Semi-Automatic

Global Automatic String Welding Machine Market, Segmentation by Wafer Size Compatibility:

M6 (166mm) Compatible

M10 (182mm) Compatible

G12 (210mm) Compatible

Global Automatic String Welding Machine Market, Segmentation by Application:

Monocrystalline Solar Cell

Polycrystalline Solar Cell

Companies Profiled:

Wuxi Autowell Technology Co., Ltd.

Wuxi Lead Intelligent Equipment Co., Ltd.

Ningxia XN Automation Equipment Co., Ltd. (XNIU)

teamtechnik Maschinen und Anlagen GmbH

Mondragon Assembly S.Coop.

Ecoprogetti SRL

MCS Production Technology S.r.l.

NPC Incorporated

Wuhan Sunic Photoelectricity Co., Ltd.

Ooi Photoelectric Technology Co., Limited

Jinchen Machinery Co., Ltd.

Yili Photovoltaic Equipment Co., Ltd.

Changzhou Niacz Co., Ltd.

Hanwha Group

Siemens AG

Boost Solar Inc.

Key Questions Answered:

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

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