

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

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Abstracts

The global Solar Cell String Welding Machine market size is expected to reach \$ 1698 million by 2032, rising at a market growth of 10.4% CAGR during the forecast period (2026-2032).

Solar cell stringing machines (stringer machines) are core automation equipment used in photovoltaic module manufacturing to electrically connect individual solar cells into series strings. The equipment precisely aligns and welds interconnection ribbons to the busbars of cells using infrared heating, laser welding, or conductive adhesive bonding technologies, achieving low-resistance, high-strength electrical connections. Key technical requirements include micron-level positioning accuracy ($\pm 0.05\text{mm}$), high-speed welding efficiency ($> 3,000$ pieces/hour), and high yield ($> 99.5\%$), while being compatible with different cell sizes (156mm, 166mm, 182mm, 210mm) and cell types (PERC, TOPCon, HJT, IBC). Common types include multi-busbar stringers, conventional stringers, 0BB stringers, laser stringers, and shingled cell stringers. From a value chain perspective, upstream includes precision motion control system suppliers, vision inspection system developers, infrared/laser heating component manufacturers, and robotic arm providers; midstream involves equipment assembly, software development, quality testing, and installation services; downstream demand spans PV module manufacturers, integrated solar companies, and component assembly plants. In 2025, the average selling price is approximately US\$137,000 per unit, global sales volume is about 6,070 units, and gross margins generally range from 30% to 37%.

The solar cell stringing machine market is experiencing rapid growth driven by global photovoltaic module manufacturing expansion and continuous technology iteration. The industry is witnessing a pronounced shift from conventional stringers to multi-busbar stringers, which command premium pricing. 0BB (no busbar) technology represents the

latest innovation, reducing silver paste consumption and improving light absorption area.

Chinese manufacturers dominate global supply, accounting for over 80% of the market share with cost advantages and rapid delivery capabilities. The transition from infrared heating to laser welding technology is accelerating, offering lower heat-affected zones and reduced micro-crack rates. Asia-Pacific dominates the market, with China accounting for the majority of production and consumption.

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

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

Highlights and key features of the study

Global Solar Cell String Welding Machine total production and demand, 2021-2032, (Units)

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

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

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

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

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

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

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

This report profiles key players in the global Solar Cell 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., Jinchen Machinery, Ningxia XN Automation Equipment Co., Ltd., Wuhan Sunic Photoelectricity, Zhongbu Qingtian New Energy Co., Ltd., Ooitech, ConfirmWare Technology, teamtechnik Maschinen und Anlagen GmbH, Ecoprogetti SRL, 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 Solar Cell String 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 Solar Cell String Welding Machine Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Solar Cell String Welding Machine Market, Segmentation by Type:

Single-row Welding

Double-row Welding

Global Solar Cell String Welding Machine Market, Segmentation by Cell Size Compatibility:

156mm - 166mm

166mm - 182mm

182mm - 210mm

210mm - 230mm

Global Solar Cell String Welding Machine Market, Segmentation by Capacity:

Low Speed (
Medium Speed (3?000-6?000 pcs/hour)

High Speed (6?000-10?000 pcs/hour)

Ultra-High Speed (> 10?000 pcs/hour)

Global Solar Cell String Welding Machine Market, Segmentation by Application:

Monocrystalline Cell

Polycrystalline Cell

Companies Profiled:

Wuxi Autowell Technology Co., Ltd.

Wuxi Lead Intelligent Equipment Co., Ltd.

Jinchen Machinery

Ningxia XN Automation Equipment Co., Ltd.

Wuhan Sunic Photoelectricity

Zhongbu Qingtian New Energy Co., Ltd.

Ooitech

ConfirmWare Technology

teamtechnik Maschinen und Anlagen GmbH

Ecoprogetti SRL

Mondragon Assembly

MCS Production Technology S.r.l.

Somont GmbH

NPC Incorporated

Hanwha

Key Questions Answered:

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

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