

# Global Solar Cell String Welding Machine Market Growth 2026-2032

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## Abstracts

The global Solar Cell String Welding Machine market size is predicted to grow from US\$ 814 million in 2025 to US\$ 1672 million in 2032; it is expected to grow at a CAGR of 11.0% from 2026 to 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 ( $\geq 3,000$  pieces/hour), and high yield ( $\geq 99.5\%$ ), 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.

LP Information, Inc. (LPI) ' newest research report, the "Solar Cell String Welding Machine Industry Forecast" looks at past sales and reviews total world Solar Cell String Welding Machine sales in 2025, providing a comprehensive analysis by region and market sector of projected Solar Cell String Welding Machine sales for 2026 through 2032. With Solar Cell String Welding Machine sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Solar Cell String Welding Machine industry.

This Insight Report provides a comprehensive analysis of the global Solar Cell String Welding Machine landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Solar Cell String Welding Machine portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Solar Cell String Welding Machine market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Solar Cell String Welding Machine and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Solar Cell String Welding Machine.

This report presents a comprehensive overview, market shares, and growth opportunities of Solar Cell String Welding Machine market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Single-row Welding

Double-row Welding

#### Segmentation by Cell Size Compatibility:

156mm - 166mm

166mm - 182mm

182mm - 210mm

210mm - 230mm

#### 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)

#### Segmentation by Application:

Monocrystalline Cell

Polycrystalline Cell

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global Solar Cell String Welding Machine market?

What factors are driving Solar Cell String Welding Machine market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Solar Cell String Welding Machine market opportunities vary by end market size?

How does Solar Cell String Welding Machine break out by Type, by Application?

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