

# Global Photovoltaic HJT Equipment Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Photovoltaic HJT Equipment market size is expected to reach \$ 5433 million by 2032, rising at a market growth of 10.0% CAGR during the forecast period (2026-2032).

Photovoltaic HJT equipment refers to the core specialized equipment used to produce N-type HJT (heterojunction) high-efficiency solar cells. This technology combines crystalline silicon and amorphous silicon thin films, offering advantages such as high conversion efficiency, high bifaciality, and low degradation. The core process requires only four steps (texturing, amorphous silicon deposition, TCO deposition, and screen printing), with the core equipment being PECVD (depositing thin films) and PVD (depositing conductive films).

The core upstream components lie in high-precision parts and raw materials, including vacuum pumps, RF power supplies, precision ceramic/graphite parts, ultra-high purity specialty gases (silane, phosphine), and silver paste (especially low-temperature silver paste). These underlying supports directly determine the stability of the equipment and the conversion efficiency of the battery.

Currently, the total equipment cost of an HJT production line is approximately US\$56 million, with PECVD equipment accounting for over 50% of the value; TCO conductive film deposition equipment (PVD/RPD) accounts for over 20%; cleaning and texturing equipment accounts for slightly less than 10%; and the remainder is equipment for metallization processes such as screen printing and curing. The industry's gross profit margin is around 23-28%.

HJT equipment is a strategic fulcrum for the photovoltaic industry to further reduce the

levelized cost of electricity (LCOE). Industry experts point out that HJT cells, with their naturally symmetrical structure, extremely simple process steps (requiring only four steps: cleaning and texturing, PECVD, PVD/RPD, and screen printing), and perfect compatibility with perovskite tandem technology, are regarded as the ultimate single-junction silicon cell route after TOPCon.

First, the superior performance of HJT cells in terms of bifaciality, temperature coefficient, and low-light response results in an actual power generation that is approximately 3%-6% higher than traditional technologies. This full-lifecycle power generation advantage directly drives the purchasing preference of downstream power plant investors. Second, the localization rate of equipment is approaching 100%. High-value equipment centered on PECVD has significantly reduced the investment cost per GW from hundreds of millions of yuan through economies of scale and the domestic substitution of core components, greatly lowering the entry barrier for new players.

Furthermore, with the trend of silicon wafers becoming thinner (down to 100 $\mu$ m or even thinner), the inherent advantages of the HJT low-temperature process make it highly competitive in preventing microcracks and improving yield, becoming a core driving force for industry transformation.

This report studies the global Photovoltaic HJT Equipment production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Photovoltaic HJT Equipment 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 Photovoltaic HJT Equipment that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Photovoltaic HJT Equipment total production and demand, 2021-2032, (Units)

Global Photovoltaic HJT Equipment total production value, 2021-2032, (USD Million)

Global Photovoltaic HJT Equipment production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Photovoltaic HJT Equipment consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Photovoltaic HJT Equipment domestic production, consumption, key domestic manufacturers and share

Global Photovoltaic HJT Equipment production by manufacturer, production, price,

value and market share 2021-2026, (USD Million) & (Units)

Global Photovoltaic HJT Equipment production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Photovoltaic HJT Equipment production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Photovoltaic HJT Equipment 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 Maxwell, Shenzhen S.C New Energy Technology, GS Solar, Ideal Energy Sunflower, JINCHEN, Meyer Burger, INDEOtec, JSG, Wuxi Autowell, SINGULUS TECHNOLOGIES, 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 Photovoltaic HJT Equipment 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 Photovoltaic HJT Equipment Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Photovoltaic HJT Equipment Market, Segmentation by Type:

PECVD Equipment

PVD/RPD Equipment

Screen Printing Equipment

Cleaning and Texturing Equipment

Global Photovoltaic HJT Equipment Market, Segmentation by PECVD Technology Paths:

Plate-type PECVD

Tube-type PECVD

Global Photovoltaic HJT Equipment Market, Segmentation by Delivery Modes:

Complete Line Delivery

Standalone Machine Delivery

Global Photovoltaic HJT Equipment Market, Segmentation by Application:

Solar Cell

Other

**Companies Profiled:**

Maxwell

Shenzhen S.C New Energy Technology

GS Solar

Ideal Energy Sunflower

JINCHEN

Meyer Burger

INDEOtec

JSG

Wuxi Autowell

SINGULUS TECHNOLOGIES

Applied Materials

Von Ardenne

DR Laser

Jusung Engineering

**Key Questions Answered:**

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

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