

# Global Photovoltaic HJT Equipment Market Growth 2026-2032

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## Abstracts

The global Photovoltaic HJT Equipment market size is predicted to grow from US\$ 2693 million in 2025 to US\$ 5343 million in 2032; it is expected to grow at a CAGR of 10.6% from 2026 to 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 100µm 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.

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

This Insight Report provides a comprehensive analysis of the global Photovoltaic HJT Equipment 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 Photovoltaic HJT Equipment portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Photovoltaic HJT Equipment market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Photovoltaic HJT Equipment 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 Photovoltaic HJT Equipment.

This report presents a comprehensive overview, market shares, and growth opportunities of Photovoltaic HJT Equipment market by product type, application, key manufacturers and key regions and countries.

#### Segmentation by Type:

PECVD Equipment

PVD/RPD Equipment

Screen Printing Equipment

Cleaning and Texturing Equipment

#### Segmentation by PECVD Technology Paths:

Plate-type PECVD

Tube-type PECVD

#### Segmentation by Delivery Modes:

Complete Line Delivery

Standalone Machine Delivery

#### Segmentation by Application:

Solar Cell

Other

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.

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 Addressed in this Report

What is the 10-year outlook for the global Photovoltaic HJT Equipment market?

What factors are driving Photovoltaic HJT Equipment market growth, globally and by region?

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

How do Photovoltaic HJT Equipment market opportunities vary by end market size?

How does Photovoltaic HJT Equipment break out by Type, by Application?

## Contents

### 1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

### 2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
  - 2.1.1 Global Photovoltaic HJT Equipment Annual Sales 2021-2032
  - 2.1.2 World Current & Future Analysis for Photovoltaic HJT Equipment by Geographic Region, 2021, 2025 & 2032
  - 2.1.3 World Current & Future Analysis for Photovoltaic HJT Equipment by Country/Region, 2021, 2025 & 2032
- 2.2 Photovoltaic HJT Equipment Segment by Type
  - 2.2.1 PECVD Equipment
  - 2.2.2 PVD/RPD Equipment
  - 2.2.3 Screen Printing Equipment
  - 2.2.4 Cleaning and Texturing Equipment
  - 2.2.5 Photovoltaic HJT Equipment Sales by Type
    - 2.2.5.1 Global Photovoltaic HJT Equipment Sales Market Share by Type (2021-2026)
    - 2.2.5.2 Global Photovoltaic HJT Equipment Revenue and Market Share by Type (2021-2026)
    - 2.2.5.3 Global Photovoltaic HJT Equipment Sale Price by Type (2021-2026)
- 2.3 Photovoltaic HJT Equipment Segment by PECVD Technology Paths
  - 2.3.1 Plate-type PECVD
  - 2.3.2 Tube-type PECVD
  - 2.3.3 Photovoltaic HJT Equipment Sales by PECVD Technology Paths
    - 2.3.3.1 Global Photovoltaic HJT Equipment Sales Market Share by PECVD Technology Paths (2021-2026)
    - 2.3.3.2 Global Photovoltaic HJT Equipment Revenue and Market Share by PECVD Technology Paths (2021-2026)

2.3.3.3 Global Photovoltaic HJT Equipment Sale Price by PECVD Technology Paths (2021-2026)

2.4 Photovoltaic HJT Equipment Segment by Delivery Modes

2.4.1 Complete Line Delivery

2.4.2 Standalone Machine Delivery

2.4.3 Photovoltaic HJT Equipment Sales by Delivery Modes

2.4.3.1 Global Photovoltaic HJT Equipment Sales Market Share by Delivery Modes (2021-2026)

2.4.3.2 Global Photovoltaic HJT Equipment Revenue and Market Share by Delivery Modes (2021-2026)

2.4.3.3 Global Photovoltaic HJT Equipment Sale Price by Delivery Modes (2021-2026)

2.5 Photovoltaic HJT Equipment Segment by Application

2.5.1 Solar Cell

2.5.2 Other

2.5.3 Photovoltaic HJT Equipment Sales by Application

2.5.3.1 Global Photovoltaic HJT Equipment Sale Market Share by Application (2021-2026)

2.5.3.2 Global Photovoltaic HJT Equipment Revenue and Market Share by Application (2021-2026)

2.5.3.3 Global Photovoltaic HJT Equipment Sale Price by Application (2021-2026)

### **3 GLOBAL BY COMPANY**

3.1 Global Photovoltaic HJT Equipment Breakdown Data by Company

3.1.1 Global Photovoltaic HJT Equipment Annual Sales by Company (2021-2026)

3.1.2 Global Photovoltaic HJT Equipment Sales Market Share by Company (2021-2026)

3.2 Global Photovoltaic HJT Equipment Annual Revenue by Company (2021-2026)

3.2.1 Global Photovoltaic HJT Equipment Revenue by Company (2021-2026)

3.2.2 Global Photovoltaic HJT Equipment Revenue Market Share by Company (2021-2026)

3.3 Global Photovoltaic HJT Equipment Sale Price by Company

3.4 Key Manufacturers Photovoltaic HJT Equipment Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Photovoltaic HJT Equipment Product Location Distribution

3.4.2 Players Photovoltaic HJT Equipment Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

- 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- 3.6 New Products and Potential Entrants
- 3.7 Market M&A Activity & Strategy

## **4 WORLD HISTORIC REVIEW FOR PHOTOVOLTAIC HJT EQUIPMENT BY GEOGRAPHIC REGION**

- 4.1 World Historic Photovoltaic HJT Equipment Market Size by Geographic Region (2021-2026)
  - 4.1.1 Global Photovoltaic HJT Equipment Annual Sales by Geographic Region (2021-2026)
  - 4.1.2 Global Photovoltaic HJT Equipment Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic Photovoltaic HJT Equipment Market Size by Country/Region (2021-2026)
  - 4.2.1 Global Photovoltaic HJT Equipment Annual Sales by Country/Region (2021-2026)
  - 4.2.2 Global Photovoltaic HJT Equipment Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas Photovoltaic HJT Equipment Sales Growth
- 4.4 APAC Photovoltaic HJT Equipment Sales Growth
- 4.5 Europe Photovoltaic HJT Equipment Sales Growth
- 4.6 Middle East & Africa Photovoltaic HJT Equipment Sales Growth

## **5 AMERICAS**

- 5.1 Americas Photovoltaic HJT Equipment Sales by Country
  - 5.1.1 Americas Photovoltaic HJT Equipment Sales by Country (2021-2026)
  - 5.1.2 Americas Photovoltaic HJT Equipment Revenue by Country (2021-2026)
- 5.2 Americas Photovoltaic HJT Equipment Sales by Type (2021-2026)
- 5.3 Americas Photovoltaic HJT Equipment Sales by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

## **6 APAC**

- 6.1 APAC Photovoltaic HJT Equipment Sales by Region

- 6.1.1 APAC Photovoltaic HJT Equipment Sales by Region (2021-2026)
- 6.1.2 APAC Photovoltaic HJT Equipment Revenue by Region (2021-2026)
- 6.2 APAC Photovoltaic HJT Equipment Sales by Type (2021-2026)
- 6.3 APAC Photovoltaic HJT Equipment Sales by Application (2021-2026)
- 6.4 China
- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia
- 6.10 China Taiwan

## **7 EUROPE**

- 7.1 Europe Photovoltaic HJT Equipment by Country
  - 7.1.1 Europe Photovoltaic HJT Equipment Sales by Country (2021-2026)
  - 7.1.2 Europe Photovoltaic HJT Equipment Revenue by Country (2021-2026)
- 7.2 Europe Photovoltaic HJT Equipment Sales by Type (2021-2026)
- 7.3 Europe Photovoltaic HJT Equipment Sales by Application (2021-2026)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

## **8 MIDDLE EAST & AFRICA**

- 8.1 Middle East & Africa Photovoltaic HJT Equipment by Country
  - 8.1.1 Middle East & Africa Photovoltaic HJT Equipment Sales by Country (2021-2026)
  - 8.1.2 Middle East & Africa Photovoltaic HJT Equipment Revenue by Country (2021-2026)
- 8.2 Middle East & Africa Photovoltaic HJT Equipment Sales by Type (2021-2026)
- 8.3 Middle East & Africa Photovoltaic HJT Equipment Sales by Application (2021-2026)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

## **9 MARKET DRIVERS, CHALLENGES AND TRENDS**

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

## **10 MANUFACTURING COST STRUCTURE ANALYSIS**

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Photovoltaic HJT Equipment

10.3 Manufacturing Process Analysis of Photovoltaic HJT Equipment

10.4 Industry Chain Structure of Photovoltaic HJT Equipment

## **11 MARKETING, DISTRIBUTORS AND CUSTOMER**

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Photovoltaic HJT Equipment Distributors

11.3 Photovoltaic HJT Equipment Customer

## **12 WORLD FORECAST REVIEW FOR PHOTOVOLTAIC HJT EQUIPMENT BY GEOGRAPHIC REGION**

12.1 Global Photovoltaic HJT Equipment Market Size Forecast by Region

12.1.1 Global Photovoltaic HJT Equipment Forecast by Region (2027-2032)

12.1.2 Global Photovoltaic HJT Equipment Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Photovoltaic HJT Equipment Forecast by Type (2027-2032)

12.7 Global Photovoltaic HJT Equipment Forecast by Application (2027-2032)

## **13 KEY PLAYERS ANALYSIS**

13.1 Maxwell

13.1.1 Maxwell Company Information

- 13.1.2 Maxwell Photovoltaic HJT Equipment Product Portfolios and Specifications
- 13.1.3 Maxwell Photovoltaic HJT Equipment Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.1.4 Maxwell Main Business Overview
- 13.1.5 Maxwell Latest Developments
- 13.2 Shenzhen S.C New Energy Technology
  - 13.2.1 Shenzhen S.C New Energy Technology Company Information
  - 13.2.2 Shenzhen S.C New Energy Technology Photovoltaic HJT Equipment Product Portfolios and Specifications
  - 13.2.3 Shenzhen S.C New Energy Technology Photovoltaic HJT Equipment Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.2.4 Shenzhen S.C New Energy Technology Main Business Overview
  - 13.2.5 Shenzhen S.C New Energy Technology Latest Developments
- 13.3 GS Solar
  - 13.3.1 GS Solar Company Information
  - 13.3.2 GS Solar Photovoltaic HJT Equipment Product Portfolios and Specifications
  - 13.3.3 GS Solar Photovoltaic HJT Equipment Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.3.4 GS Solar Main Business Overview
  - 13.3.5 GS Solar Latest Developments
- 13.4 Ideal Energy Sunflower
  - 13.4.1 Ideal Energy Sunflower Company Information
  - 13.4.2 Ideal Energy Sunflower Photovoltaic HJT Equipment Product Portfolios and Specifications
  - 13.4.3 Ideal Energy Sunflower Photovoltaic HJT Equipment Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.4.4 Ideal Energy Sunflower Main Business Overview
  - 13.4.5 Ideal Energy Sunflower Latest Developments
- 13.5 JINCHEN
  - 13.5.1 JINCHEN Company Information
  - 13.5.2 JINCHEN Photovoltaic HJT Equipment Product Portfolios and Specifications
  - 13.5.3 JINCHEN Photovoltaic HJT Equipment Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.5.4 JINCHEN Main Business Overview
  - 13.5.5 JINCHEN Latest Developments
- 13.6 Meyer Burger
  - 13.6.1 Meyer Burger Company Information
  - 13.6.2 Meyer Burger Photovoltaic HJT Equipment Product Portfolios and Specifications

13.6.3 Meyer Burger Photovoltaic HJT Equipment Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 Meyer Burger Main Business Overview

13.6.5 Meyer Burger Latest Developments

13.7 INDEOtec

13.7.1 INDEOtec Company Information

13.7.2 INDEOtec Photovoltaic HJT Equipment Product Portfolios and Specifications

13.7.3 INDEOtec Photovoltaic HJT Equipment Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 INDEOtec Main Business Overview

13.7.5 INDEOtec Latest Developments

13.8 JSG

13.8.1 JSG Company Information

13.8.2 JSG Photovoltaic HJT Equipment Product Portfolios and Specifications

13.8.3 JSG Photovoltaic HJT Equipment Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 JSG Main Business Overview

13.8.5 JSG Latest Developments

13.9 Wuxi Autowell

13.9.1 Wuxi Autowell Company Information

13.9.2 Wuxi Autowell Photovoltaic HJT Equipment Product Portfolios and Specifications

13.9.3 Wuxi Autowell Photovoltaic HJT Equipment Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Wuxi Autowell Main Business Overview

13.9.5 Wuxi Autowell Latest Developments

13.10 SINGULUS TECHNOLOGIES

13.10.1 SINGULUS TECHNOLOGIES Company Information

13.10.2 SINGULUS TECHNOLOGIES Photovoltaic HJT Equipment Product Portfolios and Specifications

13.10.3 SINGULUS TECHNOLOGIES Photovoltaic HJT Equipment Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 SINGULUS TECHNOLOGIES Main Business Overview

13.10.5 SINGULUS TECHNOLOGIES Latest Developments

13.11 Applied Materials

13.11.1 Applied Materials Company Information

13.11.2 Applied Materials Photovoltaic HJT Equipment Product Portfolios and Specifications

13.11.3 Applied Materials Photovoltaic HJT Equipment Sales, Revenue, Price and

## Gross Margin (2021-2026)

### 13.11.4 Applied Materials Main Business Overview

### 13.11.5 Applied Materials Latest Developments

## 13.12 Von Ardenne

### 13.12.1 Von Ardenne Company Information

### 13.12.2 Von Ardenne Photovoltaic HJT Equipment Product Portfolios and Specifications

### 13.12.3 Von Ardenne Photovoltaic HJT Equipment Sales, Revenue, Price and Gross Margin (2021-2026)

### 13.12.4 Von Ardenne Main Business Overview

### 13.12.5 Von Ardenne Latest Developments

## 13.13 DR Laser

### 13.13.1 DR Laser Company Information

### 13.13.2 DR Laser Photovoltaic HJT Equipment Product Portfolios and Specifications

### 13.13.3 DR Laser Photovoltaic HJT Equipment Sales, Revenue, Price and Gross Margin (2021-2026)

### 13.13.4 DR Laser Main Business Overview

### 13.13.5 DR Laser Latest Developments

## 13.14 Jusung Engineering

### 13.14.1 Jusung Engineering Company Information

### 13.14.2 Jusung Engineering Photovoltaic HJT Equipment Product Portfolios and Specifications

### 13.14.3 Jusung Engineering Photovoltaic HJT Equipment Sales, Revenue, Price and Gross Margin (2021-2026)

### 13.14.4 Jusung Engineering Main Business Overview

### 13.14.5 Jusung Engineering Latest Developments

## **14 RESEARCH FINDINGS AND CONCLUSION**

## List Of Tables

### LIST OF TABLES

Table 1. Photovoltaic HJT Equipment Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Photovoltaic HJT Equipment Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of PECVD Equipment

Table 4. Major Players of PVD/RPD Equipment

Table 5. Major Players of Screen Printing Equipment

Table 6. Major Players of Cleaning and Texturing Equipment

Table 7. Global Photovoltaic HJT Equipment Sales by Type (2021-2026) & (Units)

Table 8. Global Photovoltaic HJT Equipment Sales Market Share by Type (2021-2026)

Table 9. Global Photovoltaic HJT Equipment Revenue by Type (2021-2026) & (\$ million)

Table 10. Global Photovoltaic HJT Equipment Revenue Market Share by Type (2021-2026)

Table 11. Global Photovoltaic HJT Equipment Sale Price by Type (2021-2026) & (K US\$/Unit)

Table 12. Major Players of Plate-type PECVD

Table 13. Major Players of Tube-type PECVD

Table 14. Global Photovoltaic HJT Equipment Sales by PECVD Technology Paths (2021-2026) & (Units)

Table 15. Global Photovoltaic HJT Equipment Sales Market Share by PECVD Technology Paths (2021-2026)

Table 16. Global Photovoltaic HJT Equipment Revenue by PECVD Technology Paths (2021-2026) & (\$ million)

Table 17. Global Photovoltaic HJT Equipment Revenue Market Share by PECVD Technology Paths (2021-2026)

Table 18. Global Photovoltaic HJT Equipment Sale Price by PECVD Technology Paths (2021-2026) & (K US\$/Unit)

Table 19. Major Players of Complete Line Delivery

Table 20. Major Players of Standalone Machine Delivery

Table 21. Global Photovoltaic HJT Equipment Sales by Delivery Modes (2021-2026) & (Units)

Table 22. Global Photovoltaic HJT Equipment Sales Market Share by Delivery Modes (2021-2026)

Table 23. Global Photovoltaic HJT Equipment Revenue by Delivery Modes (2021-2026)

& (\$ million)

Table 24. Global Photovoltaic HJT Equipment Revenue Market Share by Delivery Modes (2021-2026)

Table 25. Global Photovoltaic HJT Equipment Sale Price by Delivery Modes (2021-2026) & (K US\$/Unit)

Table 26. Global Photovoltaic HJT Equipment Sale by Application (2021-2026) & (Units)

Table 27. Global Photovoltaic HJT Equipment Sale Market Share by Application (2021-2026)

Table 28. Global Photovoltaic HJT Equipment Revenue by Application (2021-2026) & (\$ million)

Table 29. Global Photovoltaic HJT Equipment Revenue Market Share by Application (2021-2026)

Table 30. Global Photovoltaic HJT Equipment Sale Price by Application (2021-2026) & (K US\$/Unit)

Table 31. Global Photovoltaic HJT Equipment Sales by Company (2021-2026) & (Units)

Table 32. Global Photovoltaic HJT Equipment Sales Market Share by Company (2021-2026)

Table 33. Global Photovoltaic HJT Equipment Revenue by Company (2021-2026) & (\$ millions)

Table 34. Global Photovoltaic HJT Equipment Revenue Market Share by Company (2021-2026)

Table 35. Global Photovoltaic HJT Equipment Sale Price by Company (2021-2026) & (K US\$/Unit)

Table 36. Key Manufacturers Photovoltaic HJT Equipment Producing Area Distribution and Sales Area

Table 37. Players Photovoltaic HJT Equipment Products Offered

Table 38. Photovoltaic HJT Equipment Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 39. New Products and Potential Entrants

Table 40. Market M&A Activity & Strategy

Table 41. Global Photovoltaic HJT Equipment Sales by Geographic Region (2021-2026) & (Units)

Table 42. Global Photovoltaic HJT Equipment Sales Market Share Geographic Region (2021-2026)

Table 43. Global Photovoltaic HJT Equipment Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 44. Global Photovoltaic HJT Equipment Revenue Market Share by Geographic Region (2021-2026)

Table 45. Global Photovoltaic HJT Equipment Sales by Country/Region (2021-2026) &

(Units)

Table 46. Global Photovoltaic HJT Equipment Sales Market Share by Country/Region (2021-2026)

Table 47. Global Photovoltaic HJT Equipment Revenue by Country/Region (2021-2026) & (\$ millions)

Table 48. Global Photovoltaic HJT Equipment Revenue Market Share by Country/Region (2021-2026)

Table 49. Americas Photovoltaic HJT Equipment Sales by Country (2021-2026) & (Units)

Table 50. Americas Photovoltaic HJT Equipment Sales Market Share by Country (2021-2026)

Table 51. Americas Photovoltaic HJT Equipment Revenue by Country (2021-2026) & (\$ millions)

Table 52. Americas Photovoltaic HJT Equipment Sales by Type (2021-2026) & (Units)

Table 53. Americas Photovoltaic HJT Equipment Sales by Application (2021-2026) & (Units)

Table 54. APAC Photovoltaic HJT Equipment Sales by Region (2021-2026) & (Units)

Table 55. APAC Photovoltaic HJT Equipment Sales Market Share by Region (2021-2026)

Table 56. APAC Photovoltaic HJT Equipment Revenue by Region (2021-2026) & (\$ millions)

Table 57. APAC Photovoltaic HJT Equipment Sales by Type (2021-2026) & (Units)

Table 58. APAC Photovoltaic HJT Equipment Sales by Application (2021-2026) & (Units)

Table 59. Europe Photovoltaic HJT Equipment Sales by Country (2021-2026) & (Units)

Table 60. Europe Photovoltaic HJT Equipment Revenue by Country (2021-2026) & (\$ millions)

Table 61. Europe Photovoltaic HJT Equipment Sales by Type (2021-2026) & (Units)

Table 62. Europe Photovoltaic HJT Equipment Sales by Application (2021-2026) & (Units)

Table 63. Middle East & Africa Photovoltaic HJT Equipment Sales by Country (2021-2026) & (Units)

Table 64. Middle East & Africa Photovoltaic HJT Equipment Revenue Market Share by Country (2021-2026)

Table 65. Middle East & Africa Photovoltaic HJT Equipment Sales by Type (2021-2026) & (Units)

Table 66. Middle East & Africa Photovoltaic HJT Equipment Sales by Application (2021-2026) & (Units)

Table 67. Key Market Drivers & Growth Opportunities of Photovoltaic HJT Equipment

|                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------|
| Table 68. Key Market Challenges & Risks of Photovoltaic HJT Equipment                                                              |
| Table 69. Key Industry Trends of Photovoltaic HJT Equipment                                                                        |
| Table 70. Photovoltaic HJT Equipment Raw Material                                                                                  |
| Table 71. Key Suppliers of Raw Materials                                                                                           |
| Table 72. Photovoltaic HJT Equipment Distributors List                                                                             |
| Table 73. Photovoltaic HJT Equipment Customer List                                                                                 |
| Table 74. Global Photovoltaic HJT Equipment Sales Forecast by Region (2027-2032) & (Units)                                         |
| Table 75. Global Photovoltaic HJT Equipment Revenue Forecast by Region (2027-2032) & (\$ millions)                                 |
| Table 76. Americas Photovoltaic HJT Equipment Sales Forecast by Country (2027-2032) & (Units)                                      |
| Table 77. Americas Photovoltaic HJT Equipment Annual Revenue Forecast by Country (2027-2032) & (\$ millions)                       |
| Table 78. APAC Photovoltaic HJT Equipment Sales Forecast by Region (2027-2032) & (Units)                                           |
| Table 79. APAC Photovoltaic HJT Equipment Annual Revenue Forecast by Region (2027-2032) & (\$ millions)                            |
| Table 80. Europe Photovoltaic HJT Equipment Sales Forecast by Country (2027-2032) & (Units)                                        |
| Table 81. Europe Photovoltaic HJT Equipment Revenue Forecast by Country (2027-2032) & (\$ millions)                                |
| Table 82. Middle East & Africa Photovoltaic HJT Equipment Sales Forecast by Country (2027-2032) & (Units)                          |
| Table 83. Middle East & Africa Photovoltaic HJT Equipment Revenue Forecast by Country (2027-2032) & (\$ millions)                  |
| Table 84. Global Photovoltaic HJT Equipment Sales Forecast by Type (2027-2032) & (Units)                                           |
| Table 85. Global Photovoltaic HJT Equipment Revenue Forecast by Type (2027-2032) & (\$ millions)                                   |
| Table 86. Global Photovoltaic HJT Equipment Sales Forecast by Application (2027-2032) & (Units)                                    |
| Table 87. Global Photovoltaic HJT Equipment Revenue Forecast by Application (2027-2032) & (\$ millions)                            |
| Table 88. Maxwell Basic Information, Photovoltaic HJT Equipment Manufacturing Base, Sales Area and Its Competitors                 |
| Table 89. Maxwell Photovoltaic HJT Equipment Product Portfolios and Specifications                                                 |
| Table 90. Maxwell Photovoltaic HJT Equipment Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026) |

Table 91. Maxwell Main Business

Table 92. Maxwell Latest Developments

Table 93. Shenzhen S.C New Energy Technology Basic Information, Photovoltaic HJT Equipment Manufacturing Base, Sales Area and Its Competitors

Table 94. Shenzhen S.C New Energy Technology Photovoltaic HJT Equipment Product Portfolios and Specifications

Table 95. Shenzhen S.C New Energy Technology Photovoltaic HJT Equipment Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 96. Shenzhen S.C New Energy Technology Main Business

Table 97. Shenzhen S.C New Energy Technology Latest Developments

Table 98. GS Solar Basic Information, Photovoltaic HJT Equipment Manufacturing Base, Sales Area and Its Competitors

Table 99. GS Solar Photovoltaic HJT Equipment Product Portfolios and Specifications

Table 100. GS Solar Photovoltaic HJT Equipment Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 101. GS Solar Main Business

Table 102. GS Solar Latest Developments

Table 103. Ideal Energy Sunflower Basic Information, Photovoltaic HJT Equipment Manufacturing Base, Sales Area and Its Competitors

Table 104. Ideal Energy Sunflower Photovoltaic HJT Equipment Product Portfolios and Specifications

Table 105. Ideal Energy Sunflower Photovoltaic HJT Equipment Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 106. Ideal Energy Sunflower Main Business

Table 107. Ideal Energy Sunflower Latest Developments

Table 108. JINCHEN Basic Information, Photovoltaic HJT Equipment Manufacturing Base, Sales Area and Its Competitors

Table 109. JINCHEN Photovoltaic HJT Equipment Product Portfolios and Specifications

Table 110. JINCHEN Photovoltaic HJT Equipment Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 111. JINCHEN Main Business

Table 112. JINCHEN Latest Developments

Table 113. Meyer Burger Basic Information, Photovoltaic HJT Equipment Manufacturing Base, Sales Area and Its Competitors

Table 114. Meyer Burger Photovoltaic HJT Equipment Product Portfolios and Specifications

Table 115. Meyer Burger Photovoltaic HJT Equipment Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 116. Meyer Burger Main Business

Table 117. Meyer Burger Latest Developments

Table 118. INDEOtec Basic Information, Photovoltaic HJT Equipment Manufacturing Base, Sales Area and Its Competitors

Table 119. INDEOtec Photovoltaic HJT Equipment Product Portfolios and Specifications

Table 120. INDEOtec Photovoltaic HJT Equipment Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 121. INDEOtec Main Business

Table 122. INDEOtec Latest Developments

Table 123. JSG Basic Information, Photovoltaic HJT Equipment Manufacturing Base, Sales Area and Its Competitors

Table 124. JSG Photovoltaic HJT Equipment Product Portfolios and Specifications

Table 125. JSG Photovoltaic HJT Equipment Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 126. JSG Main Business

Table 127. JSG Latest Developments

Table 128. Wuxi Autowell Basic Information, Photovoltaic HJT Equipment Manufacturing Base, Sales Area and Its Competitors

Table 129. Wuxi Autowell Photovoltaic HJT Equipment Product Portfolios and Specifications

Table 130. Wuxi Autowell Photovoltaic HJT Equipment Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 131. Wuxi Autowell Main Business

Table 132. Wuxi Autowell Latest Developments

Table 133. SINGULUS TECHNOLOGIES Basic Information, Photovoltaic HJT Equipment Manufacturing Base, Sales Area and Its Competitors

Table 134. SINGULUS TECHNOLOGIES Photovoltaic HJT Equipment Product Portfolios and Specifications

Table 135. SINGULUS TECHNOLOGIES Photovoltaic HJT Equipment Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 136. SINGULUS TECHNOLOGIES Main Business

Table 137. SINGULUS TECHNOLOGIES Latest Developments

Table 138. Applied Materials Basic Information, Photovoltaic HJT Equipment Manufacturing Base, Sales Area and Its Competitors

Table 139. Applied Materials Photovoltaic HJT Equipment Product Portfolios and Specifications

Table 140. Applied Materials Photovoltaic HJT Equipment Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 141. Applied Materials Main Business

Table 142. Applied Materials Latest Developments

Table 143. Von Ardenne Basic Information, Photovoltaic HJT Equipment Manufacturing Base, Sales Area and Its Competitors

Table 144. Von Ardenne Photovoltaic HJT Equipment Product Portfolios and Specifications

Table 145. Von Ardenne Photovoltaic HJT Equipment Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 146. Von Ardenne Main Business

Table 147. Von Ardenne Latest Developments

Table 148. DR Laser Basic Information, Photovoltaic HJT Equipment Manufacturing Base, Sales Area and Its Competitors

Table 149. DR Laser Photovoltaic HJT Equipment Product Portfolios and Specifications

Table 150. DR Laser Photovoltaic HJT Equipment Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 151. DR Laser Main Business

Table 152. DR Laser Latest Developments

Table 153. Jusung Engineering Basic Information, Photovoltaic HJT Equipment Manufacturing Base, Sales Area and Its Competitors

Table 154. Jusung Engineering Photovoltaic HJT Equipment Product Portfolios and Specifications

Table 155. Jusung Engineering Photovoltaic HJT Equipment Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 156. Jusung Engineering Main Business

Table 157. Jusung Engineering Latest Developments

## List Of Figures

### LIST OF FIGURES

- Figure 1. Picture of Photovoltaic HJT Equipment
- Figure 2. Photovoltaic HJT Equipment Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Photovoltaic HJT Equipment Sales Growth Rate 2021-2032 (Units)
- Figure 7. Global Photovoltaic HJT Equipment Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Photovoltaic HJT Equipment Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Photovoltaic HJT Equipment Sales Market Share by Country/Region (2025)
- Figure 10. Photovoltaic HJT Equipment Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of PECVD Equipment
- Figure 12. Product Picture of PVD/RPD Equipment
- Figure 13. Product Picture of Screen Printing Equipment
- Figure 14. Product Picture of Cleaning and Texturing Equipment
- Figure 15. Global Photovoltaic HJT Equipment Sales Market Share by Type in 2026
- Figure 16. Global Photovoltaic HJT Equipment Revenue Market Share by Type (2021-2026)
- Figure 17. Product Picture of Plate-type PECVD
- Figure 18. Product Picture of Tube-type PECVD
- Figure 19. Global Photovoltaic HJT Equipment Sales Market Share by PECVD Technology Paths in 2026
- Figure 20. Global Photovoltaic HJT Equipment Revenue Market Share by PECVD Technology Paths (2021-2026)
- Figure 21. Product Picture of Complete Line Delivery
- Figure 22. Product Picture of Standalone Machine Delivery
- Figure 23. Global Photovoltaic HJT Equipment Sales Market Share by Delivery Modes in 2026
- Figure 24. Global Photovoltaic HJT Equipment Revenue Market Share by Delivery Modes (2021-2026)
- Figure 25. Photovoltaic HJT Equipment Consumed in Solar Cell
- Figure 26. Global Photovoltaic HJT Equipment Market: Solar Cell (2021-2026) & (Units)
- Figure 27. Photovoltaic HJT Equipment Consumed in Other

- Figure 28. Global Photovoltaic HJT Equipment Market: Other (2021-2026) & (Units)
- Figure 29. Global Photovoltaic HJT Equipment Sale Market Share by Application (2025)
- Figure 30. Global Photovoltaic HJT Equipment Revenue Market Share by Application in 2025
- Figure 31. Photovoltaic HJT Equipment Sales by Company in 2025 (Units)
- Figure 32. Global Photovoltaic HJT Equipment Sales Market Share by Company in 2025
- Figure 33. Photovoltaic HJT Equipment Revenue by Company in 2025 (\$ millions)
- Figure 34. Global Photovoltaic HJT Equipment Revenue Market Share by Company in 2025
- Figure 35. Global Photovoltaic HJT Equipment Sales Market Share by Geographic Region (2021-2026)
- Figure 36. Global Photovoltaic HJT Equipment Revenue Market Share by Geographic Region in 2025
- Figure 37. Americas Photovoltaic HJT Equipment Sales 2021-2026 (Units)
- Figure 38. Americas Photovoltaic HJT Equipment Revenue 2021-2026 (\$ millions)
- Figure 39. APAC Photovoltaic HJT Equipment Sales 2021-2026 (Units)
- Figure 40. APAC Photovoltaic HJT Equipment Revenue 2021-2026 (\$ millions)
- Figure 41. Europe Photovoltaic HJT Equipment Sales 2021-2026 (Units)
- Figure 42. Europe Photovoltaic HJT Equipment Revenue 2021-2026 (\$ millions)
- Figure 43. Middle East & Africa Photovoltaic HJT Equipment Sales 2021-2026 (Units)
- Figure 44. Middle East & Africa Photovoltaic HJT Equipment Revenue 2021-2026 (\$ millions)
- Figure 45. Americas Photovoltaic HJT Equipment Sales Market Share by Country in 2025
- Figure 46. Americas Photovoltaic HJT Equipment Revenue Market Share by Country (2021-2026)
- Figure 47. Americas Photovoltaic HJT Equipment Sales Market Share by Type (2021-2026)
- Figure 48. Americas Photovoltaic HJT Equipment Sales Market Share by Application (2021-2026)
- Figure 49. United States Photovoltaic HJT Equipment Revenue Growth 2021-2026 (\$ millions)
- Figure 50. Canada Photovoltaic HJT Equipment Revenue Growth 2021-2026 (\$ millions)
- Figure 51. Mexico Photovoltaic HJT Equipment Revenue Growth 2021-2026 (\$ millions)
- Figure 52. Brazil Photovoltaic HJT Equipment Revenue Growth 2021-2026 (\$ millions)
- Figure 53. APAC Photovoltaic HJT Equipment Sales Market Share by Region in 2025
- Figure 54. APAC Photovoltaic HJT Equipment Revenue Market Share by Region

(2021-2026)

Figure 55. APAC Photovoltaic HJT Equipment Sales Market Share by Type

(2021-2026)

Figure 56. APAC Photovoltaic HJT Equipment Sales Market Share by Application

(2021-2026)

Figure 57. China Photovoltaic HJT Equipment Revenue Growth 2021-2026 (\$ millions)

Figure 58. Japan Photovoltaic HJT Equipment Revenue Growth 2021-2026 (\$ millions)

Figure 59. South Korea Photovoltaic HJT Equipment Revenue Growth 2021-2026 (\$ millions)

Figure 60. Southeast Asia Photovoltaic HJT Equipment Revenue Growth 2021-2026 (\$ millions)

Figure 61. India Photovoltaic HJT Equipment Revenue Growth 2021-2026 (\$ millions)

Figure 62. Australia Photovoltaic HJT Equipment Revenue Growth 2021-2026 (\$ millions)

Figure 63. China Taiwan Photovoltaic HJT Equipment Revenue Growth 2021-2026 (\$ millions)

Figure 64. Europe Photovoltaic HJT Equipment Sales Market Share by Country in 2025

Figure 65. Europe Photovoltaic HJT Equipment Revenue Market Share by Country (2021-2026)

Figure 66. Europe Photovoltaic HJT Equipment Sales Market Share by Type (2021-2026)

Figure 67. Europe Photovoltaic HJT Equipment Sales Market Share by Application (2021-2026)

Figure 68. Germany Photovoltaic HJT Equipment Revenue Growth 2021-2026 (\$ millions)

Figure 69. France Photovoltaic HJT Equipment Revenue Growth 2021-2026 (\$ millions)

Figure 70. UK Photovoltaic HJT Equipment Revenue Growth 2021-2026 (\$ millions)

Figure 71. Italy Photovoltaic HJT Equipment Revenue Growth 2021-2026 (\$ millions)

Figure 72. Russia Photovoltaic HJT Equipment Revenue Growth 2021-2026 (\$ millions)

Figure 73. Middle East & Africa Photovoltaic HJT Equipment Sales Market Share by Country (2021-2026)

Figure 74. Middle East & Africa Photovoltaic HJT Equipment Sales Market Share by Type (2021-2026)

Figure 75. Middle East & Africa Photovoltaic HJT Equipment Sales Market Share by Application (2021-2026)

Figure 76. Egypt Photovoltaic HJT Equipment Revenue Growth 2021-2026 (\$ millions)

Figure 77. South Africa Photovoltaic HJT Equipment Revenue Growth 2021-2026 (\$ millions)

Figure 78. Israel Photovoltaic HJT Equipment Revenue Growth 2021-2026 (\$ millions)

Figure 79. Turkey Photovoltaic HJT Equipment Revenue Growth 2021-2026 (\$ millions)

Figure 80. GCC Countries Photovoltaic HJT Equipment Revenue Growth 2021-2026 (\$ millions)

Figure 81. Manufacturing Cost Structure Analysis of Photovoltaic HJT Equipment in 2026

Figure 82. Manufacturing Process Analysis of Photovoltaic HJT Equipment

Figure 83. Industry Chain Structure of Photovoltaic HJT Equipment

Figure 84. Channels of Distribution

Figure 85. Global Photovoltaic HJT Equipment Sales Market Forecast by Region (2027-2032)

Figure 86. Global Photovoltaic HJT Equipment Revenue Market Share Forecast by Region (2027-2032)

Figure 87. Global Photovoltaic HJT Equipment Sales Market Share Forecast by Type (2027-2032)

Figure 88. Global Photovoltaic HJT Equipment Revenue Market Share Forecast by Type (2027-2032)

Figure 89. Global Photovoltaic HJT Equipment Sales Market Share Forecast by Application (2027-2032)

Figure 90. Global Photovoltaic HJT Equipment Revenue Market Share Forecast by Application (2027-2032)

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