

Global PV Coating Equipment Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global PV Coating Equipment market size is expected to reach \$ 8021 million by 2032, rising at a market growth of 8.8% CAGR during the forecast period (2026-2032).

In 2025, global PV Coating Equipment production reached approximately 72,048 Units. Prices range from several thousand to hundreds of thousands. PV Coating Equipment refers to specialized production equipment used in the manufacturing process of solar cells and photovoltaic modules to deposit functional thin film layers on the surface of substrates (such as silicon wafers, glass, metal, or flexible substrates). Its core function is to impart key performance characteristics (such as light absorption, carrier separation, surface passivation, and conductivity) to the cell by precisely controlling the thin film material, thickness, uniformity, and interface structure, thereby improving photoelectric conversion efficiency and device reliability.

Gross Profit Margin Levels

Photovoltaic coating equipment belongs to a category of photovoltaic manufacturing equipment with high technological barriers. Its gross profit margin is typically significantly higher than that of general processing equipment, but it is also affected by industry conditions, price competition, customer bargaining power, and the speed of technology generation transitions. Overall, the industry's gross profit margin is roughly in the range of 30%-45%. Specifically, the more standardized and competitive PECVD/LPCVD conventional models generally fall around 28%-38%; while high-value-added models targeting HJT PVD, TOPCon high-end deposition, integrated multi-cavity systems, and perovskite/tandem cell coating equipment can typically reach 40%-50%. This assessment is largely consistent with the publicly disclosed financial performance of leading companies. For example, SINGULUS disclosed a gross profit margin of

33.6% in 2024, indicating that coating equipment manufacturers still possess strong profit elasticity even with improved product structure and an increased proportion of high-end orders. Overall, the photovoltaic coating equipment industry is essentially a market that emphasizes 'vacuum equipment manufacturing + process package output + continuous service.' Therefore, gross profit margin depends not only on the equipment itself but also on process know-how, yield improvement capabilities, and after-sales technical service capabilities.

Industry Drivers

The growth of the photovoltaic coating equipment industry primarily stems from the continued expansion of global photovoltaic installations and manufacturing capacity. The IEA indicates that by the end of 2024, global solar manufacturing capacity is expected to exceed 1,100 GW, while approximately 700 GW of new renewable energy installations will be added globally in 2024. Furthermore, global renewable power installations will continue to grow significantly from 2025 to 2030, with solar energy playing a dominant role. For coating equipment, the more critical driving force is not just 'new capacity,' but the increased value of equipment brought about by technological upgrades: As the industry continues to shift from PERC to TOPCon, HJT, BC/XBC, perovskite, and tandem cells, the coating process involves more steps, the film structure is more complex, and the requirements for uniformity and defect control are higher, directly driving up the demand for PECVD, PVD, ALD, evaporation, and precision coating equipment. At the same time, the industry is currently facing pressure from oversupply and low module prices, which further forces cell manufacturers to compete with higher efficiency, lower energy consumption, and higher yields. Therefore, coating equipment with advantages of high throughput, low damage, and low cost per watt will continue to benefit.

This report studies the global PV Coating Equipment production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global PV Coating Equipment total production and demand, 2021-2032, (Units)

Global PV Coating Equipment total production value, 2021-2032, (USD Million)

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

Global PV Coating Equipment consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: PV Coating Equipment domestic production, consumption, key domestic manufacturers and share

Global PV Coating Equipment production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

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

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

This report profiles key players in the global PV Coating 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 centrotherm, VON ARDENNE, NAURA, Singulus Technologies, Maxwell, S.C New Energy, Jinchen, Leadmicro, LAPLACE, Autowell, 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 PV Coating Equipment market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (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 PV Coating Equipment Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global PV Coating Equipment Market, Segmentation by Type:

Evaporation Coating Machine

Sputter Coating Machine

Global PV Coating Equipment Market, Segmentation by Coating Technology Principle:

Physical Vapor Deposition (PVD) Equipment

Chemical Vapor Deposition (CVD) Equipment

Others

Global PV Coating Equipment Market, Segmentation by Substrate Type:

Silicon Wafer Coating Equipment

Flexible Film Coating Equipment

Others

Global PV Coating Equipment Market, Segmentation by Application:

Crystalline Silicon Solar Cell Manufacturing

Thin-Film Solar Cells

Others

Companies Profiled:

centrotherm

VON ARDENNE

NAURA

Singulus Technologies

Maxwell

S.C New Energy

Jinchen

Leadmicro

LAPLACE

Autowell

Manz AG

Meyer Burger

Shimadzu

Von ardenne

HCVAC

Mustang

Key Questions Answered:

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

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