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

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Abstracts

The global Perovskite PVD Coating Equipment market size is expected to reach $ 957 million by 2032, rising at a market growth of 26.9% CAGR during the forecast period (2026-2032).

Perovskite PVD Coating Equipment refers to specialized thin-film manufacturing systems that use thermal evaporation, electron-beam evaporation, magnetron sputtering, ion plating or other physical vapor deposition processes under vacuum. These systems convert solid or liquid source materials into vapor-phase species through evaporation, sublimation or sputtering and deposit them onto glass, flexible substrates or crystalline-silicon bottom cells to form perovskite absorbers, transparent conductive layers, charge-transport layers, interfacial modification layers and metallic electrodes.

A complete system generally includes vacuum chambers, evaporation sources or sputtering cathodes, vacuum pumps, film-thickness and deposition-rate monitoring, substrate handling and temperature control, process-gas control and automated control systems. Multi-source co-evaporation and sequential evaporation are the principal vacuum-based dry processes for depositing perovskite absorbers, while magnetron sputtering is mainly used for ITO, AZO, NiOx, CuOx, metallic electrodes and other functional films. The market scope includes complete evaporation PVD systems, magnetron-sputtering PVD systems and independently accepted multi-process PVD platforms, while excluding CVD, PECVD, ALD, RPD, solution-coating equipment and separately sold pumps, targets, evaporation sources or power supplies.

In 2025, the global shipment volume of Perovskite PVD Coating Equipment is approximately 175 units, with a price of approximately US$1 million per unit and a gross

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profit margin of approximately 30% to 42%.

As perovskite technology moves from small-area devices toward large modules and tandem cells, functional films must be deposited without damaging the perovskite absorber or organic interlayers. Magnetron sputtering can deposit ITO, AZO, NiOx, CuOx and metallic electrodes and offers broad material compatibility, relatively high deposition rates, dense films and strong suitability for continuous manufacturing. As hundred-megawatt single-junction lines, gigawatt-scale module projects and perovskite-silicon tandem pilot lines expand, demand is shifting from single-chamber research tools toward multi-chamber cluster, vertical continuous and large-format inline systems.

The primary industrial challenge is that energetic ions, reflected argon atoms and ultraviolet radiation generated during conventional sputtering may damage perovskite absorbers and organic transport layers, increasing interfacial defects and reducing open-circuit voltage and long-term stability. Device architectures, target materials and film stacks have not yet been fully standardized, requiring equipment suppliers to address low-temperature deposition, low plasma damage, thickness uniformity, target utilization, particle control and continuous operating reliability simultaneously. Price volatility in indium and silver, together with competition from RPD, ALD and evaporation technologies, may also change the installation share of individual PVD processes.

Future competition will increasingly center on coating processes and complete-line integration rather than vacuum-chamber fabrication alone. Production equipment is expected to use rotary cathodes, facing-target or four-facing-target low-damage sputtering, vertical or double-sided transport, inline thickness inspection, target-life monitoring and MES-based traceability. Demand for low-temperature transparent top electrodes and composite transparent electrodes in perovskite-silicon tandem cells will be a major medium- and long-term growth driver. Flexible and space-photovoltaic applications will also stimulate demand for roll-to-roll PVD and lightweight semitransparent electrode equipment. Suppliers combining experience in HJT, thin-film photovoltaics or display-panel PVD with validated perovskite processes are expected to secure stronger order positions and higher margins.

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

This report is a detailed and comprehensive analysis of the world market for Perovskite PVD 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

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and competition, as well as details the characteristics of Perovskite PVD Coating Equipment that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global Perovskite PVD Coating Equipment total production and demand, 2021-2032, (Sets)
Global Perovskite PVD Coating Equipment total production value, 2021-2032, (USD Million)
Global Perovskite PVD Coating Equipment production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Sets), (based on production site)
Global Perovskite PVD Coating Equipment consumption by region & country, CAGR, 2021-2032 & (Sets)
U.S. VS China: Perovskite PVD Coating Equipment domestic production, consumption, key domestic manufacturers and share
Global Perovskite PVD Coating Equipment production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Sets)
Global Perovskite PVD Coating Equipment production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Sets)
Global Perovskite PVD Coating Equipment production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Sets)

This report profiles key players in the global Perovskite PVD 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 VON ARDENNE GmbH, SINGULUS TECHNOLOGIES AG, Angstrom Engineering Inc., Moorfield Nanotechnology Limited, Keihin Ramtech Co., Ltd., OPTORUN, ULVAC, Suzhou SC-Solar Equipment Co., Ltd., Shenzhen S.C New Energy Technology Corporation, Hefei Xinyihua Intelligent Machine Co.,Ltd., 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 Perovskite PVD Coating Equipment market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$

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Millions), volume (production, consumption) & (Sets) and average price (K US$/Sets) 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 Perovskite PVD Coating Equipment Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Perovskite PVD Coating Equipment Market, Segmentation by Type:

Vacuum Coating Equipment

Cluster Type Multi-chamber Evaporation Equipment

Vertical Reactive Plasma Coating Equipment

Global Perovskite PVD Coating Equipment Market, Segmentation by Production Scale:

Laboratory And R&D Equipment

Pilot And Megawatt-Scale Equipment

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Hundred-Megawatt Production Equipment

Gigawatt-Scale Production Equipment

Global Perovskite PVD Coating Equipment Market, Segmentation by Integration Mode:

Standalone PVD Equipment

PVD and RPD Integrated Equipment

PVD and Evaporation Integrated Equipment

Multi-Process Cluster Equipment

Global Perovskite PVD Coating Equipment Market, Segmentation by Application:

Single-Junction Perovskite Solar Cells

Perovskite-Silicon Tandem Cells

All-Perovskite Tandem Cells

Flexible and Other Perovskite Cells

Companies Profiled:

VON ARDENNE GmbH

SINGULUS TECHNOLOGIES AG

Angstrom Engineering Inc.

Moorfield Nanotechnology Limited

Keihin Ramtech Co., Ltd.

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OPTORUN

ULVAC

Suzhou SC-Solar Equipment Co., Ltd.

Shenzhen S.C New Energy Technology Corporation

Hefei Xinyihua Intelligent Machine Co.,Ltd.

Suzhou Fangsheng Optoelectronic Co.,Ltd.

Hunan Hongtaiyang Photo-Electric Technology Co.,Ltd.

Hangzhou Zhongneng Photoelectricity Technology Co., Ltd

Beijing Tecnor Technology Co., Ltd.

Huzhou Chunhuo Optoelectronics Co., Ltd.

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

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