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Global Perovskite Equipment Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Perovskite Equipment market size was valued at US$ 201 million in 2025 and is forecast to a readjusted size of US$ 627 million by 2032 with a CAGR of 17.6% during review period.

Perovskite equipment refers to the specialized manufacturing, inspection, and automation systems used in the research, pilot production, and mass production of metal-halide perovskite single-junction cells and perovskite-silicon tandem cells. The equipment scope covers substrate cleaning, precursor delivery, slot-die coating or printing, thermal evaporation, magnetron sputtering, atomic layer deposition, reactive plasma deposition, drying, crystallization, annealing, laser scribing, encapsulation, inline inspection, and automated material handling. Its principal function is to control large-area film uniformity, crystallization windows, interface defects, particle contamination, and exposure to moisture and oxygen, thereby improving conversion efficiency, manufacturing yield, and long-term stability.

This report includes dedicated perovskite process equipment and independently priced integrated process modules. Facility utilities, general-purpose laboratory instruments, silicon-only equipment, and generic coating systems without verified perovskite process compatibility are excluded. Market volume is measured in equivalent major equipment sets, with turnkey production lines decomposed into their principal process modules.

In 2025, the global shipment volume of Perovskite Equipment is approximately 170 sets, with a price of approximately US$1.15 million per set and a gross profit margin of approximately 28% to 38%.

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The main driving factors for perovskite equipment are the following: Technological progress: With the continuous advancement of science and technology, perovskite materials and preparation processes have been continuously optimized, which has continuously improved the technical performance and efficiency of perovskite equipment. Market demand: As the photovoltaic market continues to expand and people's demand for renewable energy increases, the market demand for perovskite equipment, as a type of photovoltaic technology, is also growing. Policy support: In order to encourage the development of renewable energy, many national and local governments have introduced a series of policies, which have played a positive role in promoting the development of perovskite equipment. Cost reduction: With the continuous advancement of technology and the realization of large-scale production, the manufacturing cost of perovskite equipment continues to decrease, giving perovskite photovoltaic cells a greater advantage in terms of cost performance. Sustainable development: As an environmentally friendly material, perovskite materials have less impact on the environment during their preparation and application processes and meet the requirements of sustainable development.

This report is a detailed and comprehensive analysis for global Perovskite Equipment market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Perovskite Equipment market size and forecasts, in consumption value ($ Million), sales quantity (Sets), and average selling prices (K US$/Sets), 2021-2032

Global Perovskite Equipment market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Sets), and average selling prices (K US$/Sets), 2021-2032

Global Perovskite Equipment market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Sets), and average selling prices (K US$/Sets), 2021-2032

Global Perovskite Equipment market shares of main players, shipments in revenue ($

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Million), sales quantity (Sets), and ASP (K US$/Sets), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Perovskite Equipment

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Perovskite Equipment market based on the following parameters - company overview, sales quantity, revenue, 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, LPKF Laser & Electronics SE, M. Braun Inertgas-Systeme GmbH, nextCoatema Technologies GmbH, FOM Technologies A/S, infinityPV ApS, Leybold GmbH, Shenzhen S.C New Energy Technology Corporation, Wuxi Lead Intelligent Equipment Co., Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Perovskite Equipment market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Thin-Film Deposition Equipment

Coating And Crystallization Equipment

Laser Scribing Equipment

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Encapsulation And Testing Equipment

Others

Market segment by Supported Production Scale

Pilot Scale (1?100 MW)

Mass Production Scale(Above 100 MW)

Market segment by Effective Substrate Width

?300mm

300-1,200mm

1,200-2,400mm

?2,400mm

Market segment by Application

Single-Junction Perovskite Photovoltaics

Perovskite-Silicon Tandem Photovoltaics

Flexible And Building-Integrated Photovoltaics

Others

Major players covered

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SINGULUS TECHNOLOGIES AG

LPKF Laser & Electronics SE

M. Braun Inertgas-Systeme GmbH

nextCoatema Technologies GmbH

FOM Technologies A/S

infinityPV ApS

Leybold GmbH

Shenzhen S.C New Energy Technology Corporation

Wuxi Lead Intelligent Equipment Co., Ltd.

Suzhou SC-SOLAR Equipment Co., Ltd.

Hefei Sineva Intelligent Machine Co., Ltd.

Suzhou Fangsheng Optoelectronics Co., Ltd.

Guangdong Huicheng Vacuum Technology Co., Ltd.

Hangzhou Zhongneng Optoelectronic Technology Co., Ltd.

Shenzhen Manst Technology Co., Ltd.

Suzhou Delphi Laser Co., Ltd.

Shenzhen JPT Opto-Electronics Co., Ltd.

Jiangsu Leadmicro Nano Technology Co., Ltd.

Xiangtan Hongda Vacuum Technology Co., Ltd.

Beijing Techno Technology Co., Ltd.

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Chengdu Sisheng Technology Co., Ltd.

Lecheng Intelligent Technology (Suzhou) Co., Ltd.

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Perovskite Equipment product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Perovskite Equipment, with price, sales quantity, revenue, and global market share of Perovskite Equipment from 2021 to 2026.

Chapter 3, the Perovskite Equipment competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Perovskite Equipment breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales

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quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Perovskite Equipment market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Perovskite Equipment.

Chapter 14 and 15, to describe Perovskite Equipment sales channel, distributors, customers, research findings and conclusion.

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