

Global Perovskite PV Cells Laser Scribing System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Perovskite PV Cells Laser Scribing System market size is expected to reach \$ 394 million by 2032, rising at a market growth of 28.5% CAGR during the forecast period (2026-2032).

A Perovskite PV Cell Laser Scribing System is a specialized piece of equipment that uses nanosecond, picosecond, or femtosecond pulsed lasers to selectively remove and precisely pattern the transparent conductive oxide layer, electron transport layer, perovskite absorber layer, hole transport layer, and metal back electrode of perovskite solar cells. The equipment uses P1 scribe lines to separate the bottom TCO electrode, P2 scribe lines to expose the bottom electrode and form interconnection channels between adjacent sub-cells, and P3 scribe lines to cut the top electrode, thus forming multiple monolithically integrated series sub-cells within a large-area module. Some equipment is also compatible with P4 insulation edge cleaning. A complete system typically includes a multi-wavelength laser, a beam splitting and shaping system, a high-precision motion platform, a dynamic focus and trajectory following system, vision positioning, a dust removal system, automatic loading and unloading, process control software, and a MES interface. This report covers complete laser scribing equipment for research, pilot production, and mass production, but does not include separately sold lasers, galvanometers, motion platforms, and vision modules, nor does it include general-purpose laser equipment used only for glass cutting, drilling, or module outline cutting. In 2025, the global shipment volume of Perovskite PV Cells Laser Scribing System is approximately 140 units, with a price of approximately US\$470,000 per unit and a gross margin of approximately 35% to 47%.

The transition from small-area perovskite devices to square-meter modules and hundred-megawatt or gigawatt-scale production lines is creating a significant growth

opportunity for laser scribing equipment. Unlike the physical separation of crystalline-silicon wafers or cells, perovskite modules require P1, P2 and P3 patterning to establish a monolithic series interconnection. Scribe width, layer selectivity, path alignment and heat-affected zones directly influence inactive-area losses, series resistance, production yield and module output. Laser scribing is therefore a mandatory manufacturing step for large-area monolithically interconnected perovskite modules. As substrate formats expand from approximately 300 mm to 1,200 mm by 2,400 mm, the market is shifting from single-beam laboratory platforms toward multi-wavelength, multi-beam systems incorporating dynamic focus tracking and inline quality control.

The sector nevertheless faces substantial process and commercialization risks. Different TCO materials, transport-layer structures, perovskite formulations and metal electrodes require different wavelengths, pulse durations, fluence levels and processing directions. P2 must selectively remove several functional layers without damaging the underlying TCO, while P3 must prevent metal melting, debris redeposition and electrical shunting. Glass warpage, thermal drift, beam-to-beam energy consistency and dust contamination become increasingly difficult to control on large substrates. Equipment demand also remains sensitive to module durability, encapsulation reliability, certification schedules and project financing, creating relatively uneven order cycles.

Future competition will focus less on basic scribing capability and more on dead-zone width, cycle time, system uptime and equipment investment per unit of capacity. Research customers will continue to favor flexible P1-to-P4 integrated platforms, whereas mass-production lines are more likely to install separate high-throughput P1, P2, P3 and P4 stations to reduce single-point failure risk. Suppliers with capabilities in ultrafast lasers, multi-beam optics, dynamic path tracking, inline inspection, automated handling and turnkey line integration are expected to gain market share. Flexible roll-to-roll perovskite products, building-integrated photovoltaics and perovskite-silicon tandem modules will provide additional long-term demand.

This report studies the global Perovskite PV Cells Laser Scribing System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Perovskite PV Cells Laser Scribing System 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 Perovskite PV Cells Laser Scribing System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Perovskite PV Cells Laser Scribing System total production and demand, 2021-2032, (Units)

Global Perovskite PV Cells Laser Scribing System total production value, 2021-2032, (USD Million)

Global Perovskite PV Cells Laser Scribing System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Perovskite PV Cells Laser Scribing System consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Perovskite PV Cells Laser Scribing System domestic production, consumption, key domestic manufacturers and share

Global Perovskite PV Cells Laser Scribing System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Perovskite PV Cells Laser Scribing System production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Perovskite PV Cells Laser Scribing System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Perovskite PV Cells Laser Scribing System 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 LPKF SolarQuipment GmbH, 4JET microtech GmbH, M-Solv Ltd., 3D-Micromac AG, infinityPV ApS, Wuhan DR Laser Technology Corp., Ltd., Shenzhen Han?s Photovoltaic Equipment Co., Ltd., Suzhou Delphi Laser Co., Ltd., Shenzhen JPT Opto-Electronics Co., Ltd., Qingdao Xingcheng Laser Technology 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 PV Cells Laser Scribing System 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 Perovskite PV Cells Laser Scribing System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Perovskite PV Cells Laser Scribing System Market, Segmentation by Type:

Small Equipment (Customized)

Large Format Equipment

Global Perovskite PV Cells Laser Scribing System Market, Segmentation by Process Integration:

Single-Process Scribing System

Dual-Process Integrated System

Full-Process Integrated System

Global Perovskite PV Cells Laser Scribing System Market, Segmentation by Parallel Beam Count:

One To Four Beams

Five To Twelve Beams

Thirteen To Twenty-Four Beams

Others

Global Perovskite PV Cells Laser Scribing System Market, Segmentation by Application:

Single-Junction Perovskite Modules

Perovskite-Silicon Tandem Cells

Flexible Perovskite Modules

Others

Companies Profiled:

LPKF SolarQuipment GmbH

4JET microtech GmbH

M-Solv Ltd.

3D-Micromac AG

infinityPV ApS

Wuhan DR Laser Technology Corp., Ltd.

Shenzhen Han?s Photovoltaic Equipment Co., Ltd.

Suzhou Delphi Laser Co., Ltd.

Shenzhen JPT Opto-Electronics Co., Ltd.

Qingdao Xingcheng Laser Technology Co., Ltd.

Lecheng Intelligent Technology Suzhou Co., Ltd.

Wuhan HGLaser Engineering Co., Ltd.

Wuhan Yuanlu Optoelectronic Technology Co., Ltd.

Suzhou Maxwell Technologies Co., Ltd.

Guangdong Shunyuan Laser Technology Co., Ltd.

Hymson Laser Technology Group Co., Ltd.

Wuxi Lead Intelligent Equipment Co., Ltd.

Shenzhen United Winners Laser Co., Ltd.

Wuhan YIFI Laser Corp., Ltd.

Shenzhen Qinghong Laser Technology Co., Ltd.

Key Questions Answered:

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

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