

Global Perovskite Laser Scribing Equipment Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Perovskite Laser Scribing Equipment market size is expected to reach \$ 338 million by 2032, rising at a market growth of 27.3% CAGR during the forecast period (2026-2032).

Perovskite Laser Scribing Equipment is specialized photovoltaic manufacturing equipment used to perform high-precision P1, P2, P3 and sometimes P4 laser scribing processes in perovskite solar cells and perovskite thin-film modules. The equipment is mainly used to pattern transparent conductive oxide layers, perovskite functional layers, charge transport layers, metal electrodes, and module interconnection regions, enabling monolithic series connection, reducing dead area, improving geometric fill factor, and supporting scalable module production. Main product forms include R&D laser scribing systems, P1/P2/P3 integrated laser scribing machines, multi-laser-source scribing systems, inline laser scribing equipment, roll-to-roll compatible laser scribing systems, and perovskite tandem module scribing systems. This category excludes general laser cutting machines, crystalline silicon cell laser equipment, CIGS/CdTe-only scribing equipment, complete perovskite production lines, coating equipment, encapsulation equipment, and module testing equipment. The industrial chain of Perovskite Laser Scribing Equipment includes upstream suppliers of UV lasers, green lasers, infrared lasers, ultrafast lasers, beam delivery systems, galvanometer scanners, precision motion stages, linear motors, optical lenses, focusing modules, vision alignment systems, vacuum adsorption platforms, control software, cleanroom components, dust extraction systems, sensors, and safety protection devices. Midstream equipment manufacturers integrate laser sources, optical paths, motion platforms, alignment systems, glass substrate handling, process recipes, P1/P2/P3 scribing modules, debris removal, automation control, and quality monitoring into complete laser scribing equipment. Downstream applications include perovskite solar cell manufacturers,

perovskite module pilot lines, tandem solar cell manufacturers, photovoltaic research institutes, thin-film module companies, and future large-area perovskite production lines. Supporting services include process development, laser parameter optimization, installation, commissioning, alignment calibration, software upgrades, maintenance, spare parts supply, operator training, and lifecycle technical support. In 2025, global Perovskite Laser Scribing Equipment production reached approximately 40 units, with an average global market price of around US\$1,500,000 per unit. The gross profit margin of major companies in the industry is between 30%-50%. In 2025, the global production capacity of perovskite laser scribing equipment was approximately 57 units.

The Perovskite Laser Scribing Equipment market is in an early commercialization and pilot-line expansion stage, driven by perovskite solar module scale-up, tandem solar cell development, thin-film photovoltaic manufacturing, and high-precision P1/P2/P3 interconnection requirements. Laser scribing is a key process for monolithic perovskite modules because it creates narrow interconnection lines, reduces inactive dead area, and improves module geometric fill factor and output performance. Current demand mainly comes from R&D lines, pilot lines, demonstration production lines, and early commercial module projects rather than mature GW-scale mass production. Suppliers are improving laser wavelength selection, ultrafast processing, alignment accuracy, thermal damage control, debris removal, large-area glass handling, inline automation, and compatibility with tandem structures. Overall, the market remains small in 2025, but it is expected to grow rapidly as perovskite pilot lines move toward commercial-scale module production and tandem photovoltaic technology becomes more industrialized.

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

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

Highlights and key features of the study

Global Perovskite Laser Scribing Equipment total production and demand, 2021-2032, (Units)

Global Perovskite Laser Scribing Equipment total production value, 2021-2032, (USD Million)

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

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

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

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

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

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

This report profiles key players in the global Perovskite Laser Scribing 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 LPKF Laser & Electronics SE, 3D-Micromac AG, M-Solv Ltd, 4JET Technologies GmbH, KATAOKA Corporation, Mitsuboshi Diamond Industrial Co., Ltd., NITTOKU KYOTO CO., LTD., MTI Corporation, KORTherm Science Co., Ltd., Wuxi Lead Intelligent Equipment 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 Laser Scribing Equipment 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 Laser Scribing Equipment Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Perovskite Laser Scribing Equipment Market, Segmentation by Type:

P1 Perovskite Solar Cell Laser Scribing Equipment

P2 and P3 Perovskite Solar Cell Laser Scribing Equipment

P4 Perovskite Solar Cell Laser Edge Deletion Equipment

Integrated P1 to P4 Perovskite Laser Scribing Systems

Global Perovskite Laser Scribing Equipment Market, Segmentation by Production Stage:

Laboratory Perovskite Laser Scribing Equipment

Pilot Line Perovskite Laser Scribing Equipment

Mass Production Perovskite Laser Scribing Equipment

GW Scale Perovskite Laser Scribing Equipment

Global Perovskite Laser Scribing Equipment Market, Segmentation by Panel Size Range:

Up to 300 mm by 300 mm Substrate Perovskite Laser Scribing Equipment

Above 300 mm by 300 mm to 600 mm by 600 mm Substrate Perovskite Laser Scribing Equipment

Above 600 mm by 600 mm to 1200 mm by 1200 mm Substrate Perovskite Laser Scribing Equipment

Above 1200 mm by 1200 mm Substrate Perovskite Laser Scribing Equipment

Global Perovskite Laser Scribing Equipment Market, Segmentation by Application:

Single Junction Perovskite Solar Module Manufacturing

Perovskite Silicon Tandem Solar Module Manufacturing

Flexible Perovskite Solar Module Manufacturing

Companies Profiled:

LPKF Laser & Electronics SE

3D-Micromac AG

M-Solv Ltd

4JET Technologies GmbH

KATAOKA Corporation

Mitsuboshi Diamond Industrial Co., Ltd.

NITTOKU KYOTO CO., LTD.

MTI Corporation

KORTherm Science Co., Ltd.

Wuxi Lead Intelligent Equipment Co., Ltd.

Shenzhen United Winners Laser Co., Ltd.

Wuhan YIFI Laser Corp., Ltd.

Lecheng Intelligence Technology (Suzhou) Co., Ltd.

Suzhou Delphi Laser Co., Ltd.

Wuhan DR Laser Technology Corp., Ltd.

Shenzhen Han's Photovoltaic Equipment Co., Ltd.

Shenzhen JPT Opto-Electronics Co., Ltd.

Suzhou Microtreat Intelligent Technology Co., Ltd.

Wuhan Yuanlu Optoelectronic Technology Co., Ltd.

Key Questions Answered:

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

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