

Global Panel Level Packaging Equipment Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G24F1DD9E783EN.html>

Date: August 2026

Pages: 127

Price: US\$ 3,480.00 (Single User License)

ID: G24F1DD9E783EN

Abstracts

According to our (Global Info Research) latest study, the global Panel Level Packaging Equipment market size was valued at US\$ 131 million in 2025 and is forecast to a readjusted size of US\$ 254 million by 2032 with a CAGR of 6.4% during review period.

Panel level packaging equipment refers to a class of semiconductor back-end process tools used for fan-out panel level packaging, advanced IC substrates, glass substrate packaging, and large-format heterogeneous integration. Its core role is to perform patterning, metallization, cleaning and etching, molding, die bonding, through-glass via processing, defect inspection, and 3D metrology on rectangular large-area organic substrates, copper-clad laminates, glass substrates, or reconstituted molded panels. This equipment addresses the limitations of conventional wafer-level packaging in large package integration, material utilization, unit cost, panel warpage, die shift, fine RDL alignment, and large-area process uniformity. Its key technology approaches include large-field or maskless exposure, vacuum sputtering and seed layer deposition, horizontal electroplating, wet stripping and etching, compression molding, high-precision placement and bonding, laser-induced deep etching of glass, optical inspection, and multi-sensor metrology. Typical applications include AI accelerators, high-performance computing chips, mobile device chips, automotive electronics, RF devices, power semiconductors, and next-generation glass interposer manufacturing, with major customers including OSATs, IDMs, foundries, IC substrate manufacturers, and advanced packaging R&D and production lines.

Panel level packaging equipment is evolving from a supporting back-end tool category into a core infrastructure layer for advanced packaging capacity expansion. As AI accelerators, high-performance computing chips, and multi-die heterogeneous

packages continue to increase in size, conventional 300 mm wafer-level packaging is approaching practical limits in usable area, number of chips processed per run, maximum package size, and process cost. Rectangular panels provide a larger usable area and a more flexible manufacturing platform for glass substrates, organic substrates, and reconstituted molded panels, driving lithography, deposition, electroplating, cleaning, molding, bonding, inspection, and metrology tools to adapt to large-format panel processing.

The technology roadmap is advancing across multiple process steps, while maturity varies significantly by equipment category. Exposure tools must balance large field size, fine RDL line width, overlay accuracy, and panel distortion compensation. Deposition and plating tools are responsible for RDL, copper pillars, bumps, seed layers, and TGV metallization, making process uniformity, chemistry control, and horizontal or vertical panel transport key differentiators. Molding and bonding equipment must address die reconstitution, molding stress, panel warpage, and placement accuracy, requiring close optimization with materials, carriers, and inspection systems.

The competitive landscape will reflect both global specialization and region-driven demand. Companies in the United States, Europe, Japan, and Israel have strong technology positions in lithography, deposition, electroplating, inspection and metrology, wet processing, and precision molding, while companies in South Korea and China are accelerating entry through domestic advanced packaging investments, panel substrate pilot lines, and customized equipment development. Near-term challenges remain, including inconsistent panel size standards, insufficient equipment maturity, yield ramp difficulty, and long customer qualification cycles, but AI chips, HBM integration, glass substrates, and high-density interconnects will continue to support industry growth.

This report is a detailed and comprehensive analysis for global Panel Level Packaging Equipment market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Processing Substrate 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 Panel Level Packaging Equipment market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit),

2021-2032

Global Panel Level Packaging Equipment market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Panel Level Packaging Equipment market size and forecasts, by Processing Substrate and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Panel Level Packaging Equipment market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 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 Panel Level Packaging 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 Panel Level Packaging 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 Onto Innovation, ACM Research, Lam Research, Evatec, Canon Inc., Ushio Inc., TOWA Corporation, Toray Engineering Co., Ltd., EV Group, SUSS MicroTec, etc.

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

Market Segmentation

Panel Level Packaging Equipment market is split by Processing Substrate and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Processing Substrate, 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 Processing Substrate

Organic Substrate

Glass Substrate

Copper-Clad Laminate

Other

Market segment by Panel Size

300 mm

510 mm

600 mm

650 mm

Other

Market segment by Automation Level

Manual

Semi-Automatic

Fully Automatic

Market segment by Application

High-Performance Computing

Mobile Devices

Automotive Electronics

Other

Major players covered

Onto Innovation

ACM Research

Lam Research

Evatec

Canon Inc.

Ushio Inc.

TOWA Corporation

Toray Engineering Co., Ltd.

EV Group

SUSS MicroTec

Camtek

KLA Corporation

RENA Technologies

LPKF Laser & Electronics

Suzhou Delphi Laser Co., Ltd.

Hanwha Semitech

PacTech

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 Panel Level Packaging Equipment product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Panel Level Packaging 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 Processing Substrate and by Application, with sales market share and growth rate by Processing Substrate, by Application, from 2021

to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Panel Level Packaging Equipment market forecast, by regions, by Processing Substrate, 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 Panel Level Packaging Equipment.

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

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