

# Global Fan Out Panel Level Packaging 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 Fan Out Panel Level Packaging Equipment market size was valued at US\$ 329 million in 2025 and is forecast to a readjusted size of US\$ 674 million by 2032 with a CAGR of 10.7% during review period.

Fan Out Panel Level Packaging Equipment refers to advanced semiconductor packaging systems that enable fan-out redistribution layer (RDL) formation and heterogeneous integration using large panel substrates instead of wafers. The equipment integrates die placement, reconstitution, RDL patterning, electroplating, molding, curing, and inspection into a multi-process advanced packaging system. It is mainly used for AI chips, HPC processors, mobile application processors, RF devices, automotive electronics, and advanced heterogeneous integration applications. Main product forms include panel-level fan-out packaging systems, wafer-to-panel reconstitution systems, RDL lithography systems, high-precision die bonding systems, molding and curing systems, and integrated panel packaging production lines. This category excludes wafer-level fan-out equipment not adapted to panel formats, standalone flip-chip bonding machines, front-end semiconductor lithography equipment, and outsourced packaging services. The industrial chain of Fan Out Panel Level Packaging Equipment includes upstream suppliers of lithography systems, laser systems, die bonders, molding materials, photoresists, dielectric materials, electroplating chemicals, substrate panels, vacuum systems, motion control systems, robotics, inspection systems, and semiconductor-grade materials. Midstream manufacturers integrate die placement, reconstitution, RDL formation, electroplating, molding, curing, debonding, and inspection into complete fan-out panel level packaging equipment systems. Downstream applications include OSAT companies, advanced

packaging foundries, AI chip packaging providers, mobile semiconductor packaging, automotive semiconductor packaging, HPC chip packaging, and RF module manufacturers. Supporting services include process development, equipment calibration, yield optimization, installation, maintenance, spare parts supply, operator training, and lifecycle technical support. In 2025, global Fan Out Panel Level Packaging Equipment production reached approximately 13 units, with an average global market price of around US\$24,000,000 per unit. The gross profit margin of major companies in the industry is between 30%-50%. In 2025, the global production capacity of fan out panel level packaging equipment was approximately 19 units.

The Fan Out Panel Level Packaging Equipment market is in an early-stage commercialization phase, driven by advanced semiconductor packaging demand for AI chips, HPC processors, mobile processors, RF devices, and automotive electronics. As traditional semiconductor scaling slows, advanced packaging technologies such as fan-out redistribution and heterogeneous integration have become critical for improving performance, power efficiency, and system integration density. Panel-level fan-out technology enables larger substrate formats compared to wafer-level packaging, improving potential throughput and cost efficiency while supporting high-density redistribution layer (RDL) formation. However, the technology remains technically challenging due to panel warpage control, yield stability, and precision alignment requirements. Equipment manufacturers are focusing on improving die placement accuracy, RDL patterning resolution, process uniformity, material compatibility, and multi-process integration. Overall, the market remains small but is expected to grow steadily as advanced packaging shifts toward panel-level architectures and AI-driven semiconductor demand increases.

This report is a detailed and comprehensive analysis for global Fan Out Panel Level Packaging 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 Fan Out Panel Level Packaging Equipment market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

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

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

Global Fan Out Panel Level Packaging Equipment market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K 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 Fan Out 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 Fan Out 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 Lam Research Corporation, Applied Materials, Inc., Onto Innovation Inc., ACM Research (Shanghai), Inc., EV Group, ERS electronic GmbH, Evatec AG, TOWA Corporation, Shibaura Mechatronics Corporation, SCREEN Finetech Solutions Co., Ltd., etc.

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

## Market Segmentation

Fan Out Panel Level Packaging 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

Panel Lithography and Direct-Imaging Equipment

Panel Coating, Developing and Wet-Process Equipment

Panel Molding and Encapsulation Equipment

Panel Inspection, Metrology and Singulation Equipment

Panel Thin-Film Deposition Equipment

#### Market segment by Carrier Type

Glass Carrier Fan Out Panel Level Packaging Equipment

Organic Carrier Fan Out Panel Level Packaging Equipment

Metal Carrier Fan Out Panel Level Packaging Equipment

#### Market segment by Panel Size

Up to 300 mm by 300 mm Panel Size

Above 300 mm by 300 mm to 515 mm by 510 mm Panel Size

Above 515 mm by 510 mm Panel Size

#### Market segment by Application

High-Performance Computing and AI Chip Packaging

Mobile Processor and RF Device Packaging

Automotive and Power Device Packaging

MEMS, Sensor and Optoelectronic Device Packaging

#### Major players covered

Lam Research Corporation

Applied Materials, Inc.

Onto Innovation Inc.

ACM Research (Shanghai), Inc.

EV Group

ERS electronic GmbH

Evatec AG

TOWA Corporation

Shibaura Mechatronics Corporation

SCREEN Finetech Solutions Co., Ltd.

Tokyo Electron Limited

DISCO Corporation

ULVAC, Inc.

Toray Engineering Co., Ltd.

Shin-Etsu Engineering Co., Ltd.

Hirata Corporation

Chugai Ro Co., Ltd.

ASMPT Ltd.

Manz Asia Ltd.

MACTECH CORPORATION

Utechzone Co., Ltd.

FAVITE INC.

Camtek Ltd.

Circuit Fabology Microelectronics Equipment 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 Fan Out Panel Level Packaging Equipment product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Fan Out Panel Level Packaging

Equipment, with price, sales quantity, revenue, and global market share of Fan Out Panel Level Packaging Equipment from 2021 to 2026.

Chapter 3, the Fan Out 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 Fan Out 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 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 quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Fan Out Panel Level Packaging 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 Fan Out Panel Level Packaging Equipment.

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

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