

Global Semiconductor Advanced Packaging Equipment Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Semiconductor Advanced Packaging Equipment market size was valued at US\$ 48500 million in 2024 and is forecast to a readjusted size of USD 79040 million by 2031 with a CAGR of 6.9% during review period.

As a key link in the semiconductor industry, the diversity and complexity of advanced packaging technology are reflected in a variety of classification standards, among which whether it includes wire bonding process or photolithography process has become an important way to distinguish.

As the foundation of the semiconductor packaging field, the main feature of traditional packaging technology is that it does not involve photolithography, a high-precision, multi-step process. In this technical path, the cut wafer is precisely connected between the solder joints on the chip and the lead frame through the wire bonding process, that is, extremely fine metal wires (usually gold or copper wires) are connected by hot pressing or ultrasonic welding. The electrical connection between the internal circuit of the chip and the external package pins is realized.

In contrast, advanced packaging technology mainly relies on photolithography process. This high-precision technology makes it possible to realize key process technologies such as RDL (rewiring layer), Bumping (bumping) and TSV (through silicon via). The photolithography process is a complex and delicate process, which involves a series of steps such as glue coating, exposure, development, electroplating, degumming, and etching. First, a layer of photoresist is evenly coated on the surface of the wafer through the coating step; then, the photoresist is exposed through a mask with light of a specific

wavelength to chemically change the photoresist in the exposed area; then, the photoresist in a specific area is removed or retained through the development step to form a fine pattern; on this basis, electroplating and other processes are used to deposit a metal layer to form the required electrical connection structure; then, the remaining photoresist is removed, and the structure is further refined through etching and other steps. This series of steps together constitutes the core of the photolithography process in advanced packaging technology, enabling more complex and higher-density packaging structures.

This report is a detailed and comprehensive analysis for global Semiconductor Advanced 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 Semiconductor Advanced Packaging Equipment market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2020-2031

Global Semiconductor Advanced Packaging Equipment market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2020-2031

Global Semiconductor Advanced 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), 2020-2031

Global Semiconductor Advanced Packaging Equipment market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2020-2025

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 Semiconductor Advanced 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 Semiconductor Advanced 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 Applied Materials, Lam Research, TEL, ULVAC, Samco Inc, ACM Research, KLA (SPTS), SPP Technologies, GigaLane Co., Ltd, AMEC, etc.

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

Market Segmentation

Semiconductor Advanced Packaging Equipment market is split by Type and by Application. For the period 2020-2031, 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

Cleaning

Deposition

Coater & Developer

Photolithography

Electroplating

Etching

Inspection

Others

Market segment by Application

FC

2.5D/3D

SiP

WLCSP

Others

Major players covered

Applied Materials

Lam Research

TEL

ULVAC

Samco Inc

ACM Research

KLA (SPTS)

SPP Technologies

GigaLane Co., Ltd

AMEC

NAURA

SCREEN Febax

Shibaura Mechatronics

Evatec AG

TAZMO

SUSS MicroTec

SMEE

Veeco

Onto Innovation

Canon

EV Group

ASMPT

TKC

Besi

TANAKA Precious Metals

RENA Technologies

Camtek

Intekplus

Cohu

KINGSEMI Co., Ltd

Jiangsu Alpha Semiconductor

Systech Semiconductor

Suzhou Zhicheng Semiconductor

Pnc Process Systems Co.,Ltd

Lasertec

TAKAOKA TOKO

CORTEX ROBOTICS

Confovis

Parmi Corp

Test Research, Inc

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 Semiconductor Advanced Packaging Equipment product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Semiconductor Advanced Packaging Equipment, with price, sales quantity, revenue, and global market share of Semiconductor Advanced Packaging Equipment from 2020 to 2025.

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

Chapter 4, the Semiconductor Advanced Packaging Equipment breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Semiconductor Advanced Packaging Equipment market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Semiconductor Advanced Packaging Equipment.

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

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