

Global 300 mm Wafer FOUP and FOSB 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 300 mm Wafer FOUP and FOSB market size was valued at US\$ 767 million in 2024 and is forecast to a readjusted size of USD 1205 million by 2031 with a CAGR of 6.4% during review period.

FOUP and FOSB are terms used in semiconductor manufacturing to refer to containers used for transporting and storing silicon wafers, particularly 300 mm wafers, which are the standard size used in modern semiconductor fabrication processes. FOUP (Front Opening Unified Pod): A FOUP is a specialized container designed to safely transport, store, and protect silicon wafers during various stages of the semiconductor manufacturing process. It has a front-opening mechanism that allows wafers to be loaded and unloaded robotically without exposing the wafers to the surrounding environment. FOUPs are used to maintain the cleanliness and integrity of wafers, protecting them from contamination, particles, and other factors that could negatively affect the quality of the manufactured chips. FOUPs often have sophisticated features, such as interlocks, sensors, and RFID (Radio-Frequency Identification) tags, that help ensure the proper handling and tracking of wafers within the cleanroom environment. These containers are an integral part of automated material handling systems within semiconductor fabrication facilities. FOSB (Front Opening Shipping Box): Similar to FOUPs, FOSBs are also containers designed to transport and store silicon wafers. However, FOSBs are typically used for shipping wafers between different facilities or locations, such as from a wafer manufacturer to a semiconductor fabrication plant. They are designed to provide extra protection during transportation to prevent damage to wafers. FOSBs often have additional packaging materials inside, such as foam or other cushioning materials, to absorb shock and vibrations during transit. They may also include mechanisms to secure the wafers within the container to prevent movement that

could lead to breakage. Both FOUPs and FOSBs are critical components of the semiconductor supply chain, ensuring that wafers are handled, transported, and stored in a controlled and protected environment to maintain their quality and usability.

The main participants in the FOUP and FOSB wafer box market include Entegris, Shin-Etsu Polymer, Miraial, Chuang King Enterprise, Gudeng Precision, 3S Korea, and Dainichi Shoji. The top five global companies collectively account for over 95% of the market share. The global major manufacturers are primarily located in the United States, Japan, South Korea, and Taiwan, China. The driving forces in the wafer box industry mainly come from the semiconductor manufacturing and supply chain's demand for efficient, safe, and clean production and transportation environments. With the continuous advancement of semiconductor technology, the increasing wafer size and shrinking process nodes have led to higher requirements for the protection and cleanliness of wafers during manufacturing and transportation. FOUP and FOSB, as key equipment, meet the needs of in-factory automated production lines and inter-factory transportation, respectively, ensuring that wafers are protected from contamination and physical damage during manufacturing and transportation. Additionally, the expansion and complexity of the global semiconductor supply chain have driven the demand for efficient and reliable wafer box solutions to improve production efficiency and yield, while reducing transportation risks.

In terms of future trends, the wafer box industry is moving towards material innovation, intelligence, and environmental sustainability. In terms of materials, high-purity polymers with low outgassing and low moisture absorption will be more widely used to reduce contamination risks. On the intelligence front, the integration of tracking technologies such as RFID will become standard, enabling more efficient wafer management and traceability. Environmental trends will drive the design of wafer boxes towards reusable and sustainable materials to reduce costs and environmental impact. Meanwhile, customization and multifunctional designs will also become important trends to meet different process and transportation needs. Overall, the driving forces and trends in the wafer box industry collectively reflect the semiconductor industry's pursuit of efficient, safe, and sustainable solutions.

This report is a detailed and comprehensive analysis for global 300 mm Wafer FOUP and FOSB 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 300 mm Wafer FOUP and FOSB market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global 300 mm Wafer FOUP and FOSB market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global 300 mm Wafer FOUP and FOSB market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global 300 mm Wafer FOUP and FOSB market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (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 300 mm Wafer FOUP and FOSB
- 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 300 mm Wafer FOUP and FOSB 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 Entegris, Shin-Etsu Polymer, Miraial, Chuang King Enterprise, Gudeng Precision, 3S Korea, Dainichi Shoji, ePak, E-SUN, Anhui XingYuhong Semiconductor Technology, etc.

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

Market Segmentation

300 mm Wafer FOUP and FOSB 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

FOUP

FOSB

Market segment by Application

Foundry

IDM

Fabless

Major players covered

Entegris

Shin-Etsu Polymer

Miraial

Chuang King Enterprise

Gudeng Precision

3S Korea

Dainichi Shoji

ePak

E-SUN

Anhui XingYuhong Semiconductor Technology

SANG-A FRONTEC

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 300 mm Wafer FOUP and FOSB product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 300 mm Wafer FOUP and FOSB, with price, sales quantity, revenue, and global market share of 300 mm Wafer FOUP and FOSB from 2020 to 2025.

Chapter 3, the 300 mm Wafer FOUP and FOSB competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 300 mm Wafer FOUP and FOSB 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 300 mm Wafer FOUP and FOSB 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 300 mm Wafer FOUP and FOSB.

Chapter 14 and 15, to describe 300 mm Wafer FOUP and FOSB sales channel, distributors, customers, research findings and conclusion.

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