

Global 12 Inch Wafer Foundry Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/15E65C5EB90AEN.html>

Date: January 2026

Pages: 134

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

ID: 15E65C5EB90AEN

Abstracts

According to our (Global Info Research) latest study, the global 12 Inch Wafer Foundry market size was valued at US\$ 132170 million in 2025 and is forecast to a readjusted size of US\$ 299690 million by 2032 with a CAGR of 12.5% during review period.

Semiconductor device fabrication is the process used to manufacture semiconductor devices, typically integrated circuits (ICs) such as computer processors, microcontrollers, and memory chips (such as NAND flash and DRAM).

This report studies the 12inch Wafer Foundry, key manufacturers include TSMC, Samsung Foundry, SMIC, UMC and SMIC, etc.

The demand for wafer foundry services is rapidly increasing with the rising demand for electronic devices such as smartphones, tablets, laptops, and other connected devices. Additionally, the growing adoption of advanced technologies such as artificial intelligence, Internet of Things (IoT), and 5G is expected to boost the growth of the market.

Increasing demand for semiconductor devices: The growing demand for smartphones, tablets, wearable devices, automotive electronics, and other emerging technologies has been driving the demand for wafer foundry services. This trend is expected to continue as the digital transformation and the Internet of Things (IoT) continue to evolve.

Advanced process technologies: There has been a continuous push for advanced process technologies in the semiconductor industry, such as smaller node sizes (e.g., 7nm, 5nm, and beyond). This trend has led to a higher demand for wafer foundry services capable of manufacturing chips using these advanced nodes. Growing

importance of foundry services in the fabless model: The fabless semiconductor model, where companies focus on chip design and outsource manufacturing to foundries, has gained prominence. This trend has led to increased reliance on wafer foundry services, as fabless companies require reliable and high-quality manufacturing partners. Rising capital expenditure: The semiconductor industry is capital-intensive, requiring significant investments in manufacturing facilities and equipment. Foundries have been investing heavily in expanding their capacities and upgrading their facilities to meet the growing demand for semiconductor chips.

Currently the key foundries are TSMC, Samsung Foundry, GlobalFoundries, United Microelectronics Corporation (UMC), SMIC, Tower Semiconductor, PSMC, VIS (Vanguard International Semiconductor), Hua Hong Semiconductor, and HLMC, etc. In 2023, TSMC is the largest manufacturer, hold a share about 54%, followed by Samsung Foundry, GlobalFoundries, SMIC, United Microelectronics Corporation (UMC), Tower Semiconductor, etc. The global top ten players hold a share over 90%.

The global market for semiconductor was estimated at US\$ 526.8 billion in the year 2023, is projected to US\$ 780.7 billion by 2030. IC Manufacturing is the process used to manufacture semiconductor devices, typically integrated circuits (ICs) such as computer processors, microcontrollers, and memory chips (such as NAND flash and DRAM). According to our research, the global semiconductor manufacturing (wafer fabrication) market is projected to grow from US\$ 251.7 billion in 2023 to US\$ 506.5 billion by 2030, at a Compound Annual Growth Rate (CAGR) of 40.49% during the forecast period. This will drive rapid growth of global IC Foundry.

This report is a detailed and comprehensive analysis for global 12 Inch Wafer Foundry 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 12 Inch Wafer Foundry market size and forecasts, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global 12 Inch Wafer Foundry market size and forecasts by region and country, in

consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global 12 Inch Wafer Foundry market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global 12 Inch Wafer Foundry market shares of main players, shipments in revenue (\$ Million), sales quantity (K Pcs), and ASP (US\$/Pcs), 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 12 Inch Wafer Foundry

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 12 Inch Wafer Foundry 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 TSMC, Samsung Foundry, GlobalFoundries, United Microelectronics Corporation (UMC), SMIC, Tower Semiconductor, PSMC, VIS (Vanguard International Semiconductor), Hua Hong Semiconductor, HLMC, etc.

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

Market Segmentation

12 Inch Wafer Foundry 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

Cutting-Edge (3/5/7nm)

10/14/16/20/28nm

40/45/65/90nm

Market segment by Application

Advanced Logic Technology

Mature Logic Technology

Specialty Technology

Major players covered

TSMC

Samsung Foundry

GlobalFoundries

United Microelectronics Corporation (UMC)

SMIC

Tower Semiconductor

PSMC

VIS (Vanguard International Semiconductor)

Hua Hong Semiconductor

HLMC

X-FAB

DB HiTek

Nexchip

Intel Foundry Services (IFS)

United Nova Technology

WIN Semiconductors Corp.

Wuhan Xinxin Semiconductor Manufacturing

GTA Semiconductor Co., Ltd.

CanSemi

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 12 Inch Wafer Foundry product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 12 Inch Wafer Foundry, with price, sales quantity, revenue, and global market share of 12 Inch Wafer Foundry from 2021 to 2026.

Chapter 3, the 12 Inch Wafer Foundry competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 12 Inch Wafer Foundry 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 12 Inch Wafer Foundry 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 12 Inch Wafer Foundry.

Chapter 14 and 15, to describe 12 Inch Wafer Foundry sales channel, distributors, customers, research findings and conclusion.

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