

Global 300mm Silicon Wafers 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 300mm Silicon Wafers market size was valued at US\$ 12900 million in 2025 and is forecast to a readjusted size of US\$ 22820 million by 2032 with a CAGR of 8.6% during review period.

Semiconductor silicon wafers are key component of integrated circuits such as those used to power computers, cell phones, and a wide variety of other devices. A silicon wafer consists of a thin slice of silicon which can be treated in various ways, depending on the type of electronics that is being used. Silicon has a very high quality semiconductor, making it ideal for the production of such circuits.

300mm/12inch wafers are the largest segment, mainly covers the 300mm Polished Wafers and 300mm Epitaxial Wafers, mainly used in Memory, Logic, Analog.

Currently the 12inch/300mm Semiconductor wafers are mainly produced in Japan, USA, South Korea, Germany, China Taiwan, Singapore, and China mainland. Japan is the largest producer, hold a share 35%, followed by USA, South Korea, Europe, etc. In next few years, China will be the fast-growing producer of 12 inch wafers.

In the global market, 12-inch semiconductor silicon wafers are mainly dominated by five major manufacturers, including Shin-Etsu Chemical, SUMCO, GlobalWafers, Siltronic AG and SK Siltron. In 2023, the world's top 5 manufacturers account for more than 85% of the market share. Chinese local manufacturers are currently mainly National Silicon Industry Group (NSIG), Hangzhou Semiconductor Wafer (CCMC), Beijing ESWIN Technology Group, Shanghai Advanced Silicon Technology (AST), Zhonghuan Advanced Semiconductor Materials, Zhejiang Jinruihong Technologies and GRINM

Semiconductor Materials, etc. The eight major manufacturers account for about 4.2% of the global market share. At present, the 12-inch semiconductor silicon wafers in the Chinese market still rely on imports, with a huge gap, opportunities and risks coexisting.

In terms of product types, 300mm polished wafers currently account for the highest proportion, with a share of 67% in 2023, followed by 300mm epitaxial wafers, 300mm SOI wafers and 300mm annealed wafers. Among them, 300mm SOI wafers are mainly dominated by France's Soitec.

From the perspective of product market application, Memory is the largest market, accounting for 52% of the market share in 2023, followed by logic chips, accounting for 46% of the market share. It is expected that in the next few years, driven by technologies such as AI, data centers, 5G, and IoT, the logic chip market will maintain faster growth. In recent years, the proportion of advanced processes in wafer manufacturing has been increasing. Judging from TSMC's revenue in recent years, in 2023, processes below 20 nanometers have accounted for 68% of the market share. It is expected that the proportion of advanced processes will further increase in the next few years.

For 12-inch semiconductor silicon wafers, downstream customers are mainly divided into two categories, Foundry and IDM. Among them, wafer foundry companies include TSMC, SMIC, GlobalFoundries, UMC, etc.; IDM companies mainly include Samsung, Intel, SK Hynix, Micron Technology, Texas Instruments, STMicroelectronics, etc.

This report is a detailed and comprehensive analysis for global 300mm Silicon Wafers 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 300mm Silicon Wafers market size and forecasts, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global 300mm Silicon Wafers 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 300mm Silicon Wafers 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 300mm Silicon Wafers 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 300mm Silicon Wafers
- 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 300mm Silicon Wafers 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 Shin-Etsu Chemical, SUMCO, GlobalWafers, Siltronic AG, SK Siltron, FST Corporation, Wafer Works Corporation, National Silicon Industry Group (NSIG), Zhonghuan Advanced Semiconductor Materials, Zhejiang Jinruihong Technologies, etc.

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

Market Segmentation

300mm Silicon Wafers 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

300mm Polished Silicon Wafer

300mm Epitaxial Silicon Wafer

300mm Annealed Silicon Wafer

300mm SOI Silicon Wafer

Market segment by Application

Memory

Logic/MPU

Others

Major players covered

Shin-Etsu Chemical

SUMCO

GlobalWafers

Siltronic AG

SK Siltron

FST Corporation

Wafer Works Corporation

National Silicon Industry Group (NSIG)

Zhonghuan Advanced Semiconductor Materials

Zhejiang Jinruihong Technologies

Hangzhou Semiconductor Wafer (CCMC)

GRINM Semiconductor Materials

MCL Electronic Materials

Nanjing Guosheng Electronics

Hebei Puxing Electronic Technology

Shanghai Advanced Silicon Technology (AST)

Zhejiang MTCN Technology

Xi'an ESWIN Material

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 300mm Silicon Wafers product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 300mm Silicon Wafers, with price, sales quantity, revenue, and global market share of 300mm Silicon Wafers from 2021 to 2026.

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

Chapter 4, the 300mm Silicon Wafers 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 300mm Silicon Wafers 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 300mm Silicon Wafers.

Chapter 14 and 15, to describe 300mm Silicon Wafers sales channel, distributors, customers, research findings and conclusion.

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