

Global Silicon Epitaxial Wafers Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Silicon Epitaxial Wafers market size was valued at USD 3215.4 million in 2023 and is forecast to a readjusted size of USD 4752.9 million by 2030 with a CAGR of 5.7% during review period.

Silicon Epitaxial Wafer is made by adding multi-micrometer thick single silicon carbide crystal layers on top of a polished wafer. Precise control of thickness, doping (carrier concentration) and defect density is required to enable high yielding power devices from a semiconductor fabrication facility. Epitaxial is mainly done to enhance the functionality of wafers. In recent years, technology has become essential for the manufacturing of highly integrated semiconductor elements (ICs), image sensors (CIS), and specific power semiconductors.

The global well-known brands in epitaxial wafers market include Shin-Etsu (SEH) (21.72%), SUMCO (18.93%), Global Wafers (18.33%), Siltronic (10.65%), SK Siltron (8.43%), Wafer Works Corporation (4.97 %), Super Silicon Semiconductor (AST) (1.22%), Nanjing Guosheng Electronics Co., Ltd. (2.71%), Zhejiang Jinruihong (QL Electronics) (5.60%), Silicon Industry Group (2.54%), Hebei Puxing Electronics (2.61%) and others (2.27%).

The application area of epitaxial wafers include Memory, Logic and microprocessor, Analog chip, Discrete devices and sensors and etc.

In terms of types, epitaxial wafers can be divided into 300mm (12 inches), 200mm (8 inches), Less than 150mm (below 6 inches).

On basis of geography, the epitaxial wafers are manufactured in North America, Europe, China, Japan, Korea.

The Global Info Research report includes an overview of the development of the Silicon Epitaxial Wafers industry chain, the market status of Memory (300mm (12 inches), 200mm (8 inches)), Logic and Microprocessor (300mm (12 inches), 200mm (8 inches)), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Silicon Epitaxial Wafers.

Regionally, the report analyzes the Silicon Epitaxial Wafers markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Silicon Epitaxial Wafers market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Silicon Epitaxial Wafers market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Silicon Epitaxial Wafers industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Pcs), revenue generated, and market share of different by Type (e.g., 300mm (12 inches), 200mm (8 inches)).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Silicon Epitaxial Wafers market.

Regional Analysis: The report involves examining the Silicon Epitaxial Wafers market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future

projections and forecasts for the Silicon Epitaxial Wafers market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Silicon Epitaxial Wafers:

Company Analysis: Report covers individual Silicon Epitaxial Wafers manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Silicon Epitaxial Wafers. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Memory, Logic and Microprocessor).

Technology Analysis: Report covers specific technologies relevant to Silicon Epitaxial Wafers. It assesses the current state, advancements, and potential future developments in Silicon Epitaxial Wafers areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Silicon Epitaxial Wafers market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Silicon Epitaxial Wafers market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

300mm (12 inches)

200mm (8 inches)

Less Than 150mm (Below 6 inches)

Market segment by Application

Memory

Logic and Microprocessor

Analog Chip

Discrete Devices and Sensors

Others

Major players covered

Shin-Etsu (S.E.H)

SUMCO

Global Wafers

Siltronic

SK Siltron

Wafer Works Corporation

Super Silicon Semiconductor (AST)

Nanjing Guosheng Electronics Co., Ltd.

Zhejiang Jinruihong (QL Electronics)

Silicon Industry Group

Hebei Puxing Electronics

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

Chapter 2, to profile the top manufacturers of Silicon Epitaxial Wafers, with price, sales, revenue and global market share of Silicon Epitaxial Wafers from 2019 to 2024.

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

Chapter 4, the Silicon Epitaxial Wafers breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and Silicon Epitaxial Wafers market forecast, by regions, type and application,

with sales and revenue, from 2025 to 2030.

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 Silicon Epitaxial Wafers.

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

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