

Global Silicon Epitaxial Wafer Market Size study & Forecast, by Type (Polished wafer, Epitaxial wafer, Silicon-On-Insulator, Lapping wafer) by Application (LED, Power Semiconductor, MEMS- Based Devices), by Industry Vertical (Consumer Electronics, Automotive, Healthcare, Industrial, and Others) and Regional Analysis, 2023-2030.

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Abstracts

Global Silicon Epitaxial Wafer Market is valued approximately at USD 3124.9 Million in 2022 and is anticipated to grow with a growth rate of more than 6.0% over the forecast period 2023-2030. silicon epitaxial wafer is one of the most essential components in the semiconductor industry. It serves as a building block for creating improved electronic components with better performance capabilities as well as a basic material for microelectronics devices. The Silicon Epitaxial Wafer market is expanding because of factors such as increasing Use of Wafers in Automotive Industry and increasing demand for semiconductors. However, Silicon epitaxial wafers are highly used in navigation control, infotainment systems, collision detection and others in the automotive sector its importance has progressively increased during the last few decades.

According to the Statista, the global automotive manufacturing market was worth about USD 2.86 trillion in 2021. The market is projected to grow to USD 2.95 trillion in 2022. Another important component driving demand for semiconductors. The silicon epitaxial wafer market is an important segment of the global semiconductor industry with a wide range of applications in electronic devices such as microprocessors, memory chips, and sensors. According to Statista in 2022, Worldwide sales of semiconductors totaled 580.13 million USD. Semiconductors are essential parts of modern equipment, and the

market is very cutthroat. In 2022, the annual growth rate was 4.4 percent. In addition, growth of smart lighting and increase in popularity of IoT in wafers market would create lucrative market growth opportunities. However, Complexities associated with the design and High Cost of Wafer Manufacturing stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Silicon Epitaxial Wafer Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. Asia Pacific dominated the market in 2022 owing to the growth of the consumer electronics sector and rising demand from end-use industries such as chemical, medical devices and solar energy. North America is expected to be the fastest growing region during the forecast period, owing to factors such as rising adoption of microelectronics in this region.

Major market player included in this report are:

Ferrotec Holdings Corporation

Nantong Guosheng Intelligence Technology Group Co. Ltd

Quantum Leap Electronics Co. Ltd

Poshing

National Institute for Smart Government

Swegan AB

Sumco Corporation

Global Wafers Japan CO. Ltd

Wacker Siltronic GmbH

II-VI Incorporated

Recent Developments in the Market:

In August 2022, II-VI Incorporated has announced a collaboration of a multi-year contract to provide 150 mm silicon carbide (SiC) substrates for power electronics to Infineon Technologies AG (FSE: IFX / OTCQX: IFNYY); this would increase Infineon's supply of cutting-edge electronic components to significant customers around the world. In June 2022, Global Wafers Taiwan CO. Ltd. will invest USD 5 Million in a new Texas manufacturing facility that will create and supply 300-millimeter silicon wafers used in semiconductors.

Global Silicon Epitaxial Wafer Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape,

Growth factors, and Trends

Segments Covered - Type, Application, Industry vertical , Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Type:

Polished wafer

Epitaxial wafer

Silicon-On-Insulator

Lapping wafer

By Application:

LED

Power Semiconductor

MEMS- Based Devices

By Industry verticals:

Consumer Electronics

Automotive

Healthcare

Industrial

Others

By Region:

North America

U.S.
Canada

Europe
UK
Germany
France
Spain
Italy
ROE

Asia Pacific
China
India
Japan
Australia
South Korea
RoAPAC

Latin America
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Middle East & Africa
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Rest of Middle East & Africa

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