

Global Silicon Carbide (SiC) Wafer Foundry Market Growth 2026-2032

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Abstracts

The global Silicon Carbide (SiC) Wafer Foundry market size is predicted to grow from US\$ 171 million in 2025 to US\$ 873 million in 2032; it is expected to grow at a CAGR of 26.8% from 2026 to 2032.

Silicon carbide (SiC) is a promising material for high power and high efficiency power devices which promote an advanced, energy-saving society. Currently the SiC devices are widely used in electric vehicle (EV) applications, solar inverters, energy storage, industrial motor drives, and power supplies.

This report studies the wafer foundry for silicon carbide (SiC). Currently, the global silicon carbide wafer manufacturing is dominated by the IDM, only few fabs can provide the SiC wafer foundry, include X-Fab, Episil Technology Inc., Sanan IC and HLMC, etc.

Silicon Carbide (SiC) devices are widely used in automotive, EV charging, industrial motor/drive, PV, energy storage, wind power, UPS, data center & server and rail transport, etc.

In automotive, SiC power devices are mainly used in automotive main inverter, on-board chargers (OBC) and DC/DC converter. and the SiC power devices market was dominated by STMicroelectronics, Infineon, Wolfspeed, Rohm, Onsemi, BYD Semiconductor.

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Automotive is the largest market of silicon carbide (SiC) power devices, driven by demand from China, UAS, EU, and Japan. China is one of the world's largest automotive markets, and its growth potential remains high. In particular, high rates of growth for electric-powered vehicles make China one of the largest markets for electromobility.

Global new energy vehicles continue to grow rapidly. In 2023, the total sales of new energy vehicles in the world reached 14.65 million, a simultaneous increase of 35.4%. Among them, China's new energy vehicle sales reached 9.495 million, accounting for 64.8% of global sales. The production and sales of new energy vehicles have ranked first in the world for eight consecutive years. In 2023, the sales of new energy vehicles in the United States and Europe were 2.94 million and 1.46 million respectively, with year-on-year growth rates of 18.3% and 48.0% respectively.

LP Information, Inc. (LPI) ' newest research report, the "Silicon Carbide (SiC) Wafer Foundry Industry Forecast" looks at past sales and reviews total world Silicon Carbide (SiC) Wafer Foundry sales in 2025, providing a comprehensive analysis by region and market sector of projected Silicon Carbide (SiC) Wafer Foundry sales for 2026 through 2032. With Silicon Carbide (SiC) Wafer Foundry sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Silicon Carbide (SiC) Wafer Foundry industry.

This Insight Report provides a comprehensive analysis of the global Silicon Carbide (SiC) Wafer Foundry landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Silicon Carbide (SiC) Wafer Foundry portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Silicon Carbide (SiC) Wafer Foundry market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Silicon Carbide (SiC) Wafer Foundry and breaks down the forecast by SiC Wafer Size, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Silicon Carbide (SiC) Wafer Foundry.

This report presents a comprehensive overview, market shares, and growth opportunities of Silicon Carbide (SiC) Wafer Foundry market by product type, application, key manufacturers and key regions and countries.

Segmentation by SiC Wafer Size:

8 inch SiC Wafer Foundry

6 inch SiC Wafer Foundry

Segmentation by Application:

SiC MOSFET

SiC SBD

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

X-Fab

Episil Technology Inc.

Sanan IC

HLMC

GTA Semiconductor Co., Ltd.

Beijing Yandong Microelectronics

United Nova Technology

Global Power Technology

Wuhu Tus-Semiconductor

AscenPower

Clas-SiC Wafer Fab

SiCamore Semi

DB HiTek

Nanjing Quenergy Semiconductor

Key Questions Addressed in this Report

What is the 10-year outlook for the global Silicon Carbide (SiC) Wafer Foundry market?

What factors are driving Silicon Carbide (SiC) Wafer Foundry market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Silicon Carbide (SiC) Wafer Foundry market opportunities vary by end market size?

How does Silicon Carbide (SiC) Wafer Foundry break out by SiC Wafer Size, by Application?

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