

Global 8-inch SiC Epitaxial CVD System Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

In the SiC Epitaxial CVD system, silicon source and carbon source are introduced in the form of gaseous precursors by accurately controlling the gas flow, temperature, pressure and atmospheric conditions in the reaction chamber, and allow them to melt on the pre-prepared single crystal SiC substrate. A chemical reaction occurs on the substrate, resulting in the growth of a high-quality SiC film oriented along the crystal plane of the substrate that matches the crystal lattice of the substrate. This kind of film is usually used to manufacture high-performance power semiconductor devices, such as diodes, MOSFETs, IGBTs, etc. These devices are widely used in electric vehicles, solar inverters, power conversion systems and other fields that require extremely high efficiency and reliability. This report studies a SiC Epitaxial CVD system that can be used for 8-inch (200 mm) wafer epitaxy.

According to our (Global Info Research) latest study, the global 8-inch SiC Epitaxial CVD System market size was valued at US\$ million in 2023 and is forecast to a readjusted size of USD million by 2030 with a CAGR of %during review period.

This report is a detailed and comprehensive analysis for global 8-inch SiC Epitaxial CVD System market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Productivity (Per Hour) 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 2024, are provided.

Key Features:

Global 8-inch SiC Epitaxial CVD System market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2019-2030

Global 8-inch SiC Epitaxial CVD System market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2019-2030

Global 8-inch SiC Epitaxial CVD System market size and forecasts, by Productivity (Per Hour) and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2019-2030

Global 8-inch SiC Epitaxial CVD System market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2019-2024

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 8-inch SiC Epitaxial CVD System

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 8-inch SiC Epitaxial CVD System 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 Tokyo Electron Limited, Equiluvac (Veeco), Nuflare, ASM International, AIXTRON, M.WATANABE, Naura, JSG, Sicity, Shenzhen Naso Tech, etc.

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

Market Segmentation

8-inch SiC Epitaxial CVD System market is split by Productivity (Per Hour) and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Productivity (Per Hour), 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 Productivity (Per Hour)

Below 50 Wafers

50-100 Wafers

Above 100 Wafers

Market segment by Application

Transistor Formation

Wafer Manufacturing

Power Devices

Major players covered

Tokyo Electron Limited

Equiluvac (Veeco)

Nuflare

ASM International

AIXTRON

M.WATANABE

Naura

JSG

Sicentury

Shenzhen Naso Tech

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 8-inch SiC Epitaxial CVD System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 8-inch SiC Epitaxial CVD System, with price, sales quantity, revenue, and global market share of 8-inch SiC Epitaxial CVD System from 2019 to 2024.

Chapter 3, the 8-inch SiC Epitaxial CVD System competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 8-inch SiC Epitaxial CVD System 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 Productivity (Per Hour) and by Application,

with sales market share and growth rate by Productivity (Per Hour), by 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 2019 to 2024. and 8-inch SiC Epitaxial CVD System market forecast, by regions, by Productivity (Per Hour), and by 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 8-inch SiC Epitaxial CVD System.

Chapter 14 and 15, to describe 8-inch SiC Epitaxial CVD System sales channel, distributors, customers, research findings and conclusion.

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