

Global PVT Crystal Growth Systems for SiC Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global PVT Crystal Growth Systems for SiC market size is expected to reach \$ 269 million by 2032, rising at a market growth of 6.7% CAGR during the forecast period (2026-2032).

PVT crystal growth systems for SiC are specialized semiconductor manufacturing tools based on the Physical Vapor Transport method, used to grow single-crystal silicon carbide under high-temperature and controlled atmosphere conditions. By precisely controlling source sublimation, temperature gradients, pressure, and seed orientation, SiC vapor is transported and recondensed onto a seed crystal to form high-quality single-crystal boules. These systems typically consist of a high-temperature furnace, graphite hot zone, crucible assembly, gas and pressure control units, and advanced monitoring and automation modules. PVT growth systems are essential upstream equipment for producing SiC substrates such as 4H-SiC and 6H-SiC used in power electronics and RF devices, directly determining crystal size, defect density, uniformity, and yield.

The market is driven by rapid growth in power semiconductor and renewable energy applications, as rising demand from electric vehicles, charging infrastructure, photovoltaic inverters, energy storage systems, and industrial power supplies accelerates expansion of SiC substrate capacity. At the same time, the transition toward 8-inch SiC wafers requires more advanced PVT systems capable of supporting larger crystal diameters, higher stability, and improved yields, stimulating equipment upgrades and technological advancement. In addition, increasing localization of the SiC supply chain, rising capital expenditure by leading substrate manufacturers, and continuous efforts to reduce crystal defects and improve process consistency are collectively supporting sustained growth of the PVT crystal growth equipment market.

This report studies the global PVT Crystal Growth Systems for SiC production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for PVT Crystal Growth Systems for SiC and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of PVT Crystal Growth Systems for SiC that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global PVT Crystal Growth Systems for SiC total production and demand, 2021-2032, (Units)

Global PVT Crystal Growth Systems for SiC total production value, 2021-2032, (USD Million)

Global PVT Crystal Growth Systems for SiC production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global PVT Crystal Growth Systems for SiC consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: PVT Crystal Growth Systems for SiC domestic production, consumption, key domestic manufacturers and share

Global PVT Crystal Growth Systems for SiC production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global PVT Crystal Growth Systems for SiC production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global PVT Crystal Growth Systems for SiC production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global PVT Crystal Growth Systems for SiC market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include NAURA, Crystal Growth & Energy, PVA TePla AG, Nissin Giken, Jingsheng Mechanical and Electrical, LINTON Technologies, HIPER Technologies, Harbin KY Semiconductor, CVD Equipment Corporation, Aymont Technology, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World PVT Crystal Growth Systems for SiC market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global PVT Crystal Growth Systems for SiC Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global PVT Crystal Growth Systems for SiC Market, Segmentation by Type:

Resistance Heating

Induction Heating

Global PVT Crystal Growth Systems for SiC Market, Segmentation by Crystal Diameter Capability:

4-inch

6-inch

8-inch

Others

Global PVT Crystal Growth Systems for SiC Market, Segmentation by Polytype:

4H-SiC

6H-SiC

Other SiC Polytypes

Global PVT Crystal Growth Systems for SiC Market, Segmentation by Application:

SiC Conductive Substrates

SiC Semi-insulating Substrates

Companies Profiled:

NAURA

Crystal Growth & Energy

PVA TePla AG

Nissin Giken

Jingsheng Mechanical and Electrical

LINTON Technologies

HIPER Technologies

Harbin KY Semiconductor

CVD Equipment Corporation

Aymont Technology

Roshow Technology

Jiangsu Zorrun Semiconductor

Shanghai Hanhong Precision Machinery(Ferrotec)

ESTech Co.,Ltd.

Epiluvac (Veeco)

Semiscrystal

Guojing Electronics

Tankeblue Semiconductor

Materials Research Furnaces, LLC

Uking Photoelectric

Jihua Hengye

Liguan Microelectronics Equipment

Xuzhou Pans

Beijing Jingyuntong

Lanjing Photoelectricity

Key Questions Answered:

1. How big is the global PVT Crystal Growth Systems for SiC market?
2. What is the demand of the global PVT Crystal Growth Systems for SiC market?
3. What is the year over year growth of the global PVT Crystal Growth Systems for SiC market?
4. What is the production and production value of the global PVT Crystal Growth Systems for SiC market?
5. Who are the key producers in the global PVT Crystal Growth Systems for SiC market?
6. What are the growth factors driving the market demand?

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