

Global Large-Diameter Monocrystalline Silicon Rods Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Large-Diameter Monocrystalline Silicon Rods market size is expected to reach \$ 13821 million by 2032, rising at a market growth of 7.1% CAGR during the forecast period (2026-2032).

Large-diameter monocrystalline silicon rods refer to cylindrical single-crystal silicon rods with a diameter generally of 200mm and above, produced by the Czochralski, magnetic Czochralski or related crystal-growth processes. They are typically made from high-purity polysilicon in crystal pullers and feature good crystal integrity, controlled crystal orientation, dopant type, resistivity and impurity levels. In this report, large-diameter monocrystalline silicon rods only include standalone rod products or clearly externally supplied rod products, excluding internally consumed ingots further processed into wafers by semiconductor wafer or photovoltaic wafer manufacturers, as well as silicon carbide, sapphire, polysilicon ingots, small-diameter research-grade silicon rods and wafer trading. In 2025, the global large-diameter monocrystalline silicon rod market sales is estimated at about 240 kilotons, with an average price of around USD 35 per kg.

The growth of the large-diameter monocrystalline silicon rod market is driven by the localization of semiconductor equipment parts, the increasing purity requirements for etching consumables, the shift toward larger photovoltaic wafer formats and downstream customers' demand for stable material supply. Silicon rings, silicon electrodes and silicon showerheads used in semiconductor etching and deposition equipment require high-purity, low-defect and precision-machinable monocrystalline silicon materials, making in-house rod production an important advantage for silicon-part suppliers. In photovoltaics, the transition toward 182mm and 210mm wafer formats supports demand for larger monocrystalline silicon rods and upgraded pulling, squaring

and slicing processes. At the same time, rod pricing is sensitive to polysilicon prices, power consumption, quartz crucibles, hot-zone materials and downstream wafer prices, so companies with strong cost control, stable yields and customer qualification capabilities are better positioned across industry cycles.

This report studies the global Large-Diameter Monocrystalline Silicon Rods production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Large-Diameter Monocrystalline Silicon Rods 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 Large-Diameter Monocrystalline Silicon Rods that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Large-Diameter Monocrystalline Silicon Rods total production and demand, 2021-2032, (Kilotons)

Global Large-Diameter Monocrystalline Silicon Rods total production value, 2021-2032, (USD Million)

Global Large-Diameter Monocrystalline Silicon Rods production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Large-Diameter Monocrystalline Silicon Rods consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Large-Diameter Monocrystalline Silicon Rods domestic production, consumption, key domestic manufacturers and share

Global Large-Diameter Monocrystalline Silicon Rods production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Large-Diameter Monocrystalline Silicon Rods production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Large-Diameter Monocrystalline Silicon Rods production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Large-Diameter Monocrystalline Silicon Rods 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 GRINM Semiconductor Materials, Sicreat Semiconductor Technology, Chongqing Genori Technology, Sany

Silicon Energy, TCL Zhonghuan Renewable Energy Technology, Shuangliang Eco-Energy Systems, Beijing Jingyuntong Technology, Jiangsu Meike Solar Technology, Gokin Solar, Ferrotec, 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 Large-Diameter Monocrystalline Silicon Rods market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) and average price (US\$/kg) 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 Large-Diameter Monocrystalline Silicon Rods Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Large-Diameter Monocrystalline Silicon Rods Market, Segmentation by Type:

200mm Class

300mm Class

450mm Class

Others

Global Large-Diameter Monocrystalline Silicon Rods Market, Segmentation by Crystal Growth Method:

CZ Ingot

FZ Ingot

Global Large-Diameter Monocrystalline Silicon Rods Market, Segmentation by Product Form:

Cylindrical Monocrystalline Silicon Rod

Squared Monocrystalline Silicon Rod

Others

Global Large-Diameter Monocrystalline Silicon Rods Market, Segmentation by Application:

Semiconductor

Photovoltaic

Others

Companies Profiled:

GRINM Semiconductor Materials

Sicreat Semiconductor Technology

Chongqing Genori Technology

Sany Silicon Energy

TCL Zhonghuan Renewable Energy Technology

Shuangliang Eco-Energy Systems

Beijing Jingyuntong Technology

Jiangsu Meike Solar Technology

Gokin Solar

Ferrotec

WaferPro

Key Questions Answered:

1. How big is the global Large-Diameter Monocrystalline Silicon Rods market?
2. What is the demand of the global Large-Diameter Monocrystalline Silicon Rods market?
3. What is the year over year growth of the global Large-Diameter Monocrystalline Silicon Rods market?
4. What is the production and production value of the global Large-Diameter Monocrystalline Silicon Rods market?
5. Who are the key producers in the global Large-Diameter Monocrystalline Silicon Rods market?
6. What are the growth factors driving the market demand?

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