

Global Large-Diameter Monocrystalline Silicon Rods Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Large-Diameter Monocrystalline Silicon Rods market size was valued at US\$ 8643 million in 2025 and is forecast to a readjusted size of US\$ 13821 million by 2032 with a CAGR of 7.1% during review period.

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 is a detailed and comprehensive analysis for global Large-Diameter Monocrystalline Silicon Rods market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type 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 2025, are provided.

Key Features:

Global Large-Diameter Monocrystalline Silicon Rods market size and forecasts, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/kg), 2021-2032

Global Large-Diameter Monocrystalline Silicon Rods market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/kg), 2021-2032

Global Large-Diameter Monocrystalline Silicon Rods market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/kg), 2021-2032

Global Large-Diameter Monocrystalline Silicon Rods market shares of main players, shipments in revenue (\$ Million), sales quantity (Kilotons), and ASP (US\$/kg), 2021-2026

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 Large-Diameter Monocrystalline Silicon Rods

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 Large-Diameter Monocrystalline Silicon Rods 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 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.

Market Segmentation

Large-Diameter Monocrystalline Silicon Rods market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, 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 Type

200mm Class

300mm Class

450mm Class

Others

Market segment by Crystal Growth Method

CZ Ingot

FZ Ingot

Market segment by Product Form

Cylindrical Monocrystalline Silicon Rod

Squared Monocrystalline Silicon Rod

Others

Market segment by Application

Semiconductor

Photovoltaic

Others

Major players covered

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

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 Large-Diameter Monocrystalline Silicon Rods product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Large-Diameter Monocrystalline Silicon Rods, with price, sales quantity, revenue, and global market share of Large-Diameter Monocrystalline Silicon Rods from 2021 to 2026.

Chapter 3, the Large-Diameter Monocrystalline Silicon Rods competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Large-Diameter Monocrystalline Silicon Rods breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

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 2021 to 2026. and Large-Diameter Monocrystalline Silicon Rods market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Large-Diameter Monocrystalline Silicon Rods.

Chapter 14 and 15, to describe Large-Diameter Monocrystalline Silicon Rods sales channel, distributors, customers, research findings and conclusion.

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