

Global Monocrystalline Diamond 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 Monocrystalline Diamond market size was valued at US\$ 1013 million in 2025 and is forecast to a readjusted size of US\$ 1575 million by 2032 with a CAGR of 6.6% during review period.

Monocrystalline Diamond is a one type of synthetic diamond which is also known as an artificial diamond, cultured diamond, or cultivated diamond. Single crystal diamond is also widely known as HPHT diamond or CVD diamond after the two common production methods (referring to the high-pressure high-temperature and chemical vapor deposition crystal formation methods, respectively).

Global core monocrystalline diamond manufacturers include Zhongnan Diamond, Huanghe Whirlwind etc. The top 3 companies hold a share about 65%. Asia Pacific is the largest market, with a share about 45%, followed by North America and Europe with the share about 28% and 20%. In terms of product, HPHT diamond is the largest segment, with a share about 60%. And in terms of application, the largest application is mechanical device, followed by electron device.

This report is a detailed and comprehensive analysis for global Monocrystalline Diamond 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 Monocrystalline Diamond market size and forecasts, in consumption value (\$ Million), sales quantity (M Ct), and average selling prices (USD/K Ct), 2021-2032

Global Monocrystalline Diamond market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (M Ct), and average selling prices (USD/K Ct), 2021-2032

Global Monocrystalline Diamond market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (M Ct), and average selling prices (USD/K Ct), 2021-2032

Global Monocrystalline Diamond market shares of main players, shipments in revenue (\$ Million), sales quantity (M Ct), and ASP (USD/K Ct), 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 Monocrystalline Diamond

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 Monocrystalline Diamond 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 Zhongnan Diamond, Huanghe Whirlwind, Element Six, Zhengzhou Sino-Crystal, Sumitomo Electric, ILJIN, Henan Liliang Diamond, etc.

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

Market Segmentation

Monocrystalline Diamond 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

HPHT Diamond

CVD Diamond

Market segment by Application

Mechanical Device

Optical Material

Electron Device

Jewelry

Others

Major players covered

Zhongnan Diamond

Huanghe Whirlwind

Element Six

Zhengzhou Sino-Crystal

Sumitomo Electric

ILJIN

Henan Liliang Diamond

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 Monocrystalline Diamond product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Monocrystalline Diamond, with price, sales quantity, revenue, and global market share of Monocrystalline Diamond from 2021 to 2026.

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

Chapter 4, the Monocrystalline Diamond 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 Monocrystalline Diamond 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 Monocrystalline Diamond.

Chapter 14 and 15, to describe Monocrystalline Diamond sales channel, distributors, customers, research findings and conclusion.

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