

Global Single Crystal Diamond Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Single Crystal Diamond market size is expected to reach \$ 2278 million by 2032, rising at a market growth of 4.6% CAGR during the forecast period (2026-2032).

Single crystal diamond is 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). It is wide used in cutting tools, wheel dressing, specialty knives, burnishing tools, wear parts and other wide range of high technology application such as optical, electronic and certain mechanical applications.

China is the largest manufacture region with about 85% market share. Other Asian countries are followers.

The main manufacturers are Element Six, Sumitomo Electric, ILJIN Diamond, Zhongnan Diamond, Huanghe Whirlwind, Zhengzhou Sino-Crystal, CR GEMS Diamond etc. Zhongnan Diamond is the largest manufacturer with about 23% market share.

This report studies the global Single Crystal Diamond production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Single Crystal Diamond 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 Single Crystal Diamond that

contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Single Crystal Diamond total production and demand, 2021-2032, (M Ct)

Global Single Crystal Diamond total production value, 2021-2032, (USD Million)

Global Single Crystal Diamond production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (M Ct), (based on production site)

Global Single Crystal Diamond consumption by region & country, CAGR, 2021-2032 & (M Ct)

U.S. VS China: Single Crystal Diamond domestic production, consumption, key domestic manufacturers and share

Global Single Crystal Diamond production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (M Ct)

Global Single Crystal Diamond production by Method, production, value, CAGR, 2021-2032, (USD Million) & (M Ct)

Global Single Crystal Diamond production by Application, production, value, CAGR, 2021-2032, (USD Million) & (M Ct)

This report profiles key players in the global Single Crystal Diamond 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 Element Six, Sumitomo Electric, ILJIN Diamond, Zhongnan Diamond, Huanghe Whirlwind, Zhengzhou Sino-Crystal, CR GEMS Diamond, 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 Single Crystal Diamond market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (M Ct) and average price (USD/K Ct) by manufacturer, by Method, 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 Single Crystal Diamond Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Single Crystal Diamond Market, Segmentation by Method:

HPHT (High Pressure, High Temperature)

CVD (Chemical Vapour Deposition)

Global Single Crystal Diamond Market, Segmentation by Application:

Mechanical Device

Optical Material

Electron Device

Jewelry

Others

Companies Profiled:

Element Six

Sumitomo Electric

ILJIN Diamond

Zhongnan Diamond

Huanghe Whirlwind

Zhengzhou Sino-Crystal

CR GEMS Diamond

Key Questions Answered:

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

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