

Global Man-Made Diamond Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Man-Made Diamond market size is expected to reach \$ 3859 million by 2032, rising at a market growth of 6.7% CAGR during the forecast period (2026-2032). Global sales of man-made diamonds reached 6.67 million carats in 2025, with an average price of \$352 per carat.

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.

The supply of raw materials for man-made diamonds exhibits significant differences in processing methods and is highly technology-intensive, resulting in varying cost structures depending on the production method. For the HPHT process (accounting for 90% of China's production capacity), raw material costs account for 35-45% of the total cost, of which high-purity graphite powder (carbon source) accounts for 15-20%, metal catalyst powder (nickel, cobalt, and iron alloys, used as catalysts) accounts for 10-15%, and pyrophyllite/dolomite (pressure transmission and sealing medium) accounts for 5-10%. Energy and equipment costs account for 30-40%. HPHT requires a high pressure of 5-6 GPa and a high temperature of 1400-1600° in a six-sided top press. The investment for a single piece of equipment is 1.8 million yuan. Electricity consumption is huge. It takes 7-12 days to grow one carat diamond, and electricity costs account for more than 30% of the manufacturing cost. For CVD (Chemical Vapor

Deposition) methods, raw material costs account for 25-35%, with methane/acetylene (carbon-containing gas) accounting for 10-15%, hydrogen for 5-10%, and single-crystal diamond substrate (seed crystal) for 10-15%. Energy and equipment costs account for 40-50%. CVD requires achieving low temperatures (800-1000?) and low pressures (10-100 Torr) in a microwave plasma reaction chamber. A single unit requires an investment of 1-3 million RMB, with a growth cycle of 2-6 weeks, but it can produce large diamonds of 10-20 carats with higher purity (85% VVS grade). Processing and manufacturing costs account for approximately 15-20%, including cutting, grinding, and polishing (diamonds can only be processed with diamonds). Over 90% of the cutting and grinding is completed in India, while China accounts for only 3%. Overall, synthetic diamonds are mid-to-high-priced, technologically advanced, and energy-intensive new material products. Their cost structure is influenced by multiple factors, including the price of carbon sources such as graphite/methane, electricity costs, equipment depreciation, and the depth of cutting and grinding. China holds a 90% share of the global HPHT market thanks to its six-sided top-press technology and complete industrial chain (the Zhengzhou-Xuchang-Shangqiu industrial belt in Henan). However, it still lags behind Europe, the US, and India in CVD large-particle technology and downstream cutting, grinding, and brand retail.

This report studies the global Man-Made Diamond production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Man-Made 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 Man-Made Diamond that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Man-Made Diamond total production and demand, 2021-2032, (M Ct)

Global Man-Made Diamond total production value, 2021-2032, (USD Million)

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

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

U.S. VS China: Man-Made Diamond domestic production, consumption, key domestic manufacturers and share

Global Man-Made Diamond production by manufacturer, production, price, value and

market share 2021-2026, (USD Million) & (M Ct)

Global Man-Made Diamond production by Type, production, value, CAGR, 2021-2032, (USD Million) & (M Ct)

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

This report profiles key players in the global Man-Made 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, ILJIN Diamond, Diamond Foundry, Huanghe Whirlwind, Zhongnan Diamond, Sino-Crystal Diamond, Ningbo Crysdiam Technology, Henan Liliang Diamond, Sumitomo Electric Industries, Ila Technologies, 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 Man-Made Diamond market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (M Ct) and average price (US\$/Ct) 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 Man-Made Diamond Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Man-Made Diamond Market, Segmentation by Type:

HPHT

CVD

Global Man-Made Diamond Market, Segmentation by Color:

D-F

G-J

Fancy Diamonds

Global Man-Made Diamond Market, Segmentation by Grade:

Industrial Grade

Gem Grade

Global Man-Made Diamond Market, Segmentation by Application:

Building Materials

Machining and Cutting Tools

Jewelry

Other

Companies Profiled:

Element Six

ILJIN Diamond

Diamond Foundry

Huanghe Whirlwind

Zhongnan Diamond

Sino-Crystal Diamond

Ningbo Crysdiam Technology

Henan Liliang Diamond

Sumitomo Electric Industries

Ila Technologies

Key Questions Answered:

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

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