

Global Artificial Diamond Market Growth 2026-2032

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Abstracts

The global Artificial Diamond market size is predicted to grow from US\$ 2300 million in 2025 to US\$ 3782 million in 2032; it is expected to grow at a CAGR of 7.2% from 2026 to 2032.

Global sales of synthetic 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 synthetic 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 lags behind Europe, America, and India in CVD large-particle technology and downstream cutting, grinding, and brand retail.

LP Information, Inc. (LPI) ' newest research report, the "Artificial Diamond Industry Forecast" looks at past sales and reviews total world Artificial Diamond sales in 2025, providing a comprehensive analysis by region and market sector of projected Artificial Diamond sales for 2026 through 2032. With Artificial Diamond sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Artificial Diamond industry.

This Insight Report provides a comprehensive analysis of the global Artificial Diamond landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Artificial Diamond portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Artificial Diamond market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Artificial Diamond and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced

view of the current state and future trajectory in the global Artificial Diamond.

This report presents a comprehensive overview, market shares, and growth opportunities of Artificial Diamond market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

HPHT

CVD

Segmentation by Color:

D-F

G-J

Fancy Diamonds

Segmentation by Grade:

Industrial Grade

Gem Grade

Segmentation by Application:

Building Materials

Machining and Cutting Tools

Jewelry

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global Artificial Diamond market?

What factors are driving Artificial Diamond market growth, globally and by region?
Which technologies are poised for the fastest growth by market and region?
How do Artificial Diamond market opportunities vary by end market size?
How does Artificial Diamond break out by Type, by Application?

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