

Global Quantum Diamond Market Growth 2026-2032

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Abstracts

The global Quantum Diamond market size is predicted to grow from US\$ 297 million in 2025 to US\$ 562 million in 2032; it is expected to grow at a CAGR of 10.3% from 2026 to 2032.

In 2025, global output of quantum diamonds reached 320 thousand wafers, with an average selling price of USD 950 per wafer, production capacity of 380 thousand wafers, and a gross margin of 46%.

Quantum diamond refers to functional diamond materials engineered with specific quantum defects—most notably nitrogen-vacancy (NV) centers—enabling highly sensitive detection of magnetic fields, electric fields, temperature, and pressure at room temperature, as well as applications in quantum information processing and precision metrology. They are typically fabricated using high-pressure high-temperature (HPHT) or chemical vapor deposition (CVD) methods, followed by ion implantation and annealing to create stable quantum defects, making them one of the most promising solid-state materials for quantum sensing and devices.

Upstream segments mainly include suppliers of high-purity carbon sources and diamond seeds, manufacturers of CVD/HPHT growth equipment, and providers of ion implantation and characterization tools. The midstream consists of quantum diamond material producers and quantum device developers, while downstream applications are concentrated in quantum magnetometers, biomedical imaging, precision navigation, semiconductor inspection, and quantum communication and computing. Demand is closely linked to investment in quantum technologies and growth in high-end sensing markets.

United States market for Quantum Diamond is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Quantum Diamond is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Quantum Diamond is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Quantum Diamond players cover Element Six, Quantum Brilliance, Adamas, Great Lakes Crystal Technologies, Inc., DIATOPE GmbH, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

This Insight Report provides a comprehensive analysis of the global Quantum 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 Quantum Diamond portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Quantum Diamond market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Quantum 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 Quantum Diamond.

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

Segmentation by Type:

Nanodiamond

Single-crystal Diamond

Segmentation by Fabrication Method:

CVD Diamond

HPHT Diamond

Segmentation by Diamond Type:

Natural Diamond

Synthetic Diamond

Segmentation by Defect Center Type:

NV Center Diamond

Other Color Center Diamond

Segmentation by Application:

Quantum Sensing

Quantum Computing and Communication

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

Quantum Brilliance

Ad?mas

Great Lakes Crystal Technologies, Inc.

DIATOPE GmbH

Key Questions Addressed in this Report

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

What factors are driving Quantum Diamond market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Quantum Diamond market opportunities vary by end market size?

How does Quantum Diamond break out by Type, by Application?

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