

Global Quantum-grade Diamond Market Growth 2026-2032

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Abstracts

The global Quantum-grade Diamond market size is predicted to grow from US\$ 939 million in 2025 to US\$ 1868 million in 2032; it is expected to grow at a CAGR of 10.4% from 2026 to 2032.

In 2025, global Quantum-Grade Diamond production reached approximately 120,000 units, average price \$8,000 / unit, with gross margin 40%

Quantum-Grade Diamond refers to an ultra-high-purity, synthetically engineered single-crystal diamond material engineered with structural and isotopic precision far exceeding that of gemstone or standard industrial abrasives. The defining characteristic of this material is its near-perfect carbon-12 isotopically purified lattice, which minimizes nuclear spin bath noise caused by naturally occurring C13 isotopes. Within this pristine matrix, specific atomistic point defects—most notably Nitrogen-Vacancy (NV) centers—are precisely introduced via targeted ion implantation and high-temperature vacuum annealing. Due to diamond's wide bandgap and rigid crystalline structure, the electron spins of these NV centers can maintain exceptionally long coherence times (up to milliseconds) even at room temperature, while allowing for purely optical initialization and readout. Consequently, quantum-grade diamond serves as a foundational hardware platform in quantum information science, deployed extensively in room-temperature quantum sensing (for ultra-precise magnetic, electrical, and thermal mapping), microwave quantum waveguides, and solid-state quantum memory registers for distributed quantum networks.

United States market for Quantum-grade 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-grade 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-grade 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-grade Diamond players cover QuantumDiamonds, Element Six, Diatope, Supercrystal New Materials, ACS Material, 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-grade Diamond Industry Forecast" looks at past sales and reviews total world Quantum-grade Diamond sales in 2025, providing a comprehensive analysis by region and market sector of projected Quantum-grade Diamond sales for 2026 through 2032. With Quantum-grade Diamond sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Quantum-grade Diamond industry.

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

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

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

Segmentation by Type:

NV Centers

SiV Centers

SnV Centers

Segmentation by Materials:

Bulk Diamond

Nanodiamonds

Segmentation by Application:

Quantum Sensors

Quantum Computing

Quantum Networking

Others

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.

QuantumDiamonds

Element Six

Diatope

Supercrystal New Materials

ACS Material

Quantum Brilliance

Great Lakes Crystal Technologies

Coherent

Key Questions Addressed in this Report

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

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

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

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

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

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