

Global Nitrogen-vacancy Centers Diamond Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Nitrogen-vacancy Centers Diamond market size is expected to reach \$ 440 million by 2032, rising at a market growth of 8.0% CAGR during the forecast period (2026-2032).

In 2025, global Nitrogen-vacancy Centers Diamond production reached 130 thousand pieces, with an average selling price of 1,800 USD/piece, production capacity of 160 thousand pieces, and an industrial gross margin of 52%.

Nitrogen-vacancy Centers Diamond refers to a specialized diamond material in which nitrogen atoms substitute carbon atoms in the diamond lattice, with adjacent vacancy defects forming nitrogen-vacancy centers. This material features stable quantum spin properties, room-temperature operability, and excellent optical readout capability. It is mainly used in quantum sensing, quantum computing, magnetic field measurement, biological imaging, nanoscale detection, and high-precision measurement. Typical product forms include high-purity single-crystal diamond plates, diamond films, nanodiamonds, and customized diamond materials processed through controlled defect engineering.

The upstream supply chain of Nitrogen-vacancy Centers Diamond mainly includes high-purity carbon sources, isotope carbon materials, diamond seed crystals, CVD growth equipment, ion implantation systems, annealing equipment, laser systems, and optical testing instruments. The midstream segment covers high-purity diamond growth, NV center defect engineering, cutting and polishing, surface treatment, quantum property characterization, and customized processing. Downstream applications include quantum sensors, quantum computing hardware, precision magnetometry, biomedical imaging, materials science research, semiconductor inspection, and defense-related

scientific research.

This report studies the global Nitrogen-vacancy Centers Diamond production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Nitrogen-vacancy Centers Diamond total production and demand, 2021-2032, (K Pcs)

Global Nitrogen-vacancy Centers Diamond total production value, 2021-2032, (USD Million)

Global Nitrogen-vacancy Centers Diamond production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs), (based on production site)

Global Nitrogen-vacancy Centers Diamond consumption by region & country, CAGR, 2021-2032 & (K Pcs)

U.S. VS China: Nitrogen-vacancy Centers Diamond domestic production, consumption, key domestic manufacturers and share

Global Nitrogen-vacancy Centers Diamond production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Pcs)

Global Nitrogen-vacancy Centers Diamond production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

Global Nitrogen-vacancy Centers Diamond production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

This report profiles key players in the global Nitrogen-vacancy Centers 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, Quantum Brilliance, Adamas, Great Lakes Crystal Technologies, Inc., DIATOPE GmbH, 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 Nitrogen-vacancy Centers Diamond market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Pcs) and average price (US\$/Pc) 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 Nitrogen-vacancy Centers Diamond Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Nitrogen-vacancy Centers Diamond Market, Segmentation by Type:

Nanodiamond

Single-crystal Diamond

Global Nitrogen-vacancy Centers Diamond Market, Segmentation by Fabrication Method:

CVD Diamond

HPHT Diamond

Global Nitrogen-vacancy Centers Diamond Market, Segmentation by NV Center Type:

NV⁰ Center Diamond

NV⁺ Center Diamond

Global Nitrogen-vacancy Centers Diamond Market, Segmentation by NV Center Concentration:

Low-density NV Diamond

High-density NV Diamond

Global Nitrogen-vacancy Centers Diamond Market, Segmentation by Application:

Quantum Demonstrations

Masers

Detection of RF Radiation

Gyroscopes

Sensing

Others

Companies Profiled:

Element Six

Quantum Brilliance

Ad?mas

Great Lakes Crystal Technologies, Inc.

DIATOPE GmbH

Key Questions Answered:

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

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