

Global Nitrogen-vacancy Centers Diamond Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Nitrogen-vacancy Centers Diamond market size was valued at US\$ 241 million in 2025 and is forecast to a readjusted size of US\$ 440 million by 2032 with a CAGR of 8.0% during review period.

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 is a detailed and comprehensive analysis for global Nitrogen-vacancy Centers Diamond market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Nitrogen-vacancy Centers Diamond market size and forecasts, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pc), 2021-2032

Global Nitrogen-vacancy Centers Diamond market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pc), 2021-2032

Global Nitrogen-vacancy Centers Diamond market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pc), 2021-2032

Global Nitrogen-vacancy Centers Diamond market shares of main players, shipments in revenue (\$ Million), sales quantity (K Pcs), and ASP (US\$/Pc), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Nitrogen-vacancy Centers Diamond

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Nitrogen-vacancy Centers Diamond market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Nitrogen-vacancy Centers Diamond market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Nanodiamond

Single-crystal Diamond

Market segment by Fabrication Method

CVD Diamond

HPHT Diamond

Market segment by NV Center Type

NV⁰ Center Diamond

NV⁺ Center Diamond

Market segment by NV Center Concentration

Low-density NV Diamond

High-density NV Diamond

Market segment by Application

Quantum Demonstrations

Masers

Detection of RF Radiation

Gyroscopes

Sensing

Others

Major players covered

Element Six

Quantum Brilliance

Adamas

Great Lakes Crystal Technologies, Inc.

DIATOPÉ GmbH

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Nitrogen-vacancy Centers Diamond product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Nitrogen-vacancy Centers Diamond, with price, sales quantity, revenue, and global market share of Nitrogen-vacancy Centers Diamond from 2021 to 2026.

Chapter 3, the Nitrogen-vacancy Centers Diamond competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Nitrogen-vacancy Centers Diamond breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Nitrogen-vacancy Centers Diamond market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Nitrogen-vacancy Centers Diamond.

Chapter 14 and 15, to describe Nitrogen-vacancy Centers Diamond sales channel, distributors, customers, research findings and conclusion.

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