

Global Nitrogen-Vacancy Center Magnetometer Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Nitrogen-Vacancy Center Magnetometer market size was valued at US\$ 51.4 million in 2024 and is forecast to a readjusted size of USD 160 million by 2031 with a CAGR of 17.6% during review period.

Nitrogen-Vacancy Center Magnetometer is a quantum magnetometer that uses the Nitrogen-Vacancy (NV) color center in diamond to measure magnetic fields. It uses the energy level characteristics of the NV color center and Zeeman effect to measure the magnetic field, and has significant advantages such as high sensitivity, high spatial resolution and stable operation at room temperature.

This report is a detailed and comprehensive analysis for global Nitrogen-Vacancy Center Magnetometer 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.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

Key Features:

Global Nitrogen-Vacancy Center Magnetometer market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Nitrogen-Vacancy Center Magnetometer market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Nitrogen-Vacancy Center Magnetometer market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Nitrogen-Vacancy Center Magnetometer market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2020-2025

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 Center Magnetometer
- 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 Center Magnetometer 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 Q.ANT, Guosheng Quantum, Frequency Electronics, Inc., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Nitrogen-Vacancy Center Magnetometer market is split by Type and by Application. For the period 2020-2031, 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

Single-NV Magnetometer

NV Ensemble Magnetometer

Market segment by Application

Biomedicine

Material

Industrial

Scientific Research Field

Astro Observation

Major players covered

Q.ANT

Guosheng Quantum

Frequency Electronics, Inc.

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:

Global Nitrogen-Vacancy Center Magnetometer Market 2025 by Manufacturers, Regions, Type and Application, Forec...

Chapter 1, to describe Nitrogen-Vacancy Center Magnetometer product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Nitrogen-Vacancy Center Magnetometer, with price, sales quantity, revenue, and global market share of Nitrogen-Vacancy Center Magnetometer from 2020 to 2025.

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

Chapter 4, the Nitrogen-Vacancy Center Magnetometer breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Nitrogen-Vacancy Center Magnetometer market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Center Magnetometer.

Chapter 14 and 15, to describe Nitrogen-Vacancy Center Magnetometer sales channel, distributors, customers, research findings and conclusion.

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