

# **Global High-Performance Neodymium Iron Boron (NdFeB) Permanent Magnets 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 High-Performance Neodymium Iron Boron (NdFeB) Permanent Magnets market size was valued at US\$ 21477 million in 2025 and is forecast to a readjusted size of US\$ 35697 million by 2032 with a CAGR of 7.6% during review period.

High-performance neodymium iron boron (NdFeB) permanent magnets are a class of rare-earth permanent magnet materials made with neodymium (Nd), iron (Fe), and boron (B) as core components. They possess extremely high energy product, high coercivity, and excellent magnetic properties, making them one of the most powerful and widely used commercially available permanent magnet materials. Their crystal structure is primarily Nd<sub>2</sub>Fe<sub>14</sub>B tetragonal, and they are prepared through powder metallurgy, sintering, or bonding processes. Compared to traditional ferrite magnets and AlNiCo magnets, high-performance NdFeB can provide a stronger magnetic field in a smaller volume and lighter weight.

The upstream industry chain mainly includes rare earth resources, metal smelting, and the supply of magnetic auxiliary materials. The core raw materials are rare earth and metal materials such as neodymium oxide, praseodymium-neodymium metal, dysprosium, terbium, ferroboron alloys, and high-purity iron. Upstream also involves rare earth mining, separation and smelting, hydrogen-based powder preparation, and additive supply. The midstream segment comprises the manufacturing of high-performance NdFeB permanent magnets, including sintered NdFeB, bonded NdFeB, and hot-pressed magnet production. Key processes include raw material smelting,

powder preparation, pressing, sintering, heat treatment, machining, electroplating, and magnetization. Downstream applications are broadly distributed across new energy vehicle drive motors, wind turbines, industrial robots, servo systems, variable frequency air conditioners, consumer electronics, intelligent manufacturing, rail transportation, and aerospace. New energy vehicles and humanoid robots have become the fastest-growing core markets for future demand.

In 2025, global sales of high-performance neodymium iron boron (NdFeB) permanent magnets reached 253,000 tons, with a production capacity of approximately 365,000 tons. The average selling price was US\$82.5 per kilogram, and the average gross profit margin was 20%-30%.

From a demand structure perspective, new energy vehicle drive motors have become the largest application market for high-performance neodymium iron boron (NdFeB) permanent magnets, with their share of global demand continuing to increase. With the rise of 800V high-voltage platforms, the increasing power density of electric drive systems, and the growth of hybrid vehicles, the demand for high-performance sintered NdFeB magnets is rapidly increasing. Meanwhile, wind power generation, industrial robots, energy-saving home appliances, and humanoid robots are also continuously driving industry growth. Among these, humanoid robot joint motors and AI intelligent equipment are considered new growth markets for the next few years. Although the growth rate of consumer electronics has slowed, demand for high-end miniaturized magnetic materials remains stable.

In terms of product and technology roadmaps, the industry is evolving towards 'high magnetic energy product, high temperature resistance, low heavy rare earth elements, and miniaturization.' Traditional sintered NdFeB magnets remain the mainstream, but grain boundary diffusion (GBD), ultrafine grain preparation, hot pressing and hot deformation (HDDR), and low-dysprosium/low-terbium processes are becoming core technology directions. High-performance magnets (BH)<sub>max</sub>>55 MGOe require increasing magnetic energy product while reducing heavy rare earth element consumption to lower costs and alleviate the shortage of dysprosium and terbium resources. Furthermore, the demand for high-temperature resistant (180?–220?) magnetic materials is growing due to the increasing demand for drive systems in new energy vehicles, while robotics and consumer electronics are focusing on lightweight design and high-precision machining capabilities.

This report is a detailed and comprehensive analysis for global High-Performance Neodymium Iron Boron (NdFeB) Permanent Magnets 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 High-Performance Neodymium Iron Boron (NdFeB) Permanent Magnets market size and forecasts, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/kg), 2021-2032

Global High-Performance Neodymium Iron Boron (NdFeB) Permanent Magnets market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/kg), 2021-2032

Global High-Performance Neodymium Iron Boron (NdFeB) Permanent Magnets market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/kg), 2021-2032

Global High-Performance Neodymium Iron Boron (NdFeB) Permanent Magnets market shares of main players, shipments in revenue (\$ Million), sales quantity (Kilotons), and ASP (US\$/kg), 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 High-Performance Neodymium Iron Boron (NdFeB) Permanent Magnets

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 High-Performance Neodymium Iron Boron (NdFeB) Permanent Magnets 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 Proterial, TDK, Shin-Etsu Chemical, Daido, Vacuumschmelze (VAC), Arnold Magnetic Technologies, Electron Energy Corporation, Neo Performance Materials, Noveon Magnetics, Newland Magnetics Europe, etc.

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

## Market Segmentation

High-Performance Neodymium Iron Boron (NdFeB) Permanent Magnets 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

Sintered NdFeB

Bonded NdFeB

Hot-pressed NdFeB

### Market segment by Magnetic Orientation

Isotropic Magnets

Anisotropic Magnets

### Market segment by Remanence

?1.1T

1.1T-1.38T

?1.38T

### Market segment by Application

New Energy Vehicles

Humanoid Robots

Consumer Electronics

Intelligent Equipment

Energy-Saving Appliances

Wind Power Generation

Others

### Major players covered

Proterial

TDK

Shin-Etsu Chemical

Daido

Vacuumschmelze (VAC)

Arnold Magnetic Technologies

Electron Energy Corporation

Neo Performance Materials

Noveon Magnetics

Newland Magnetics Europe

Logimag

JL MAG

Zhongke Sanhuan

Ningbo Yunsheng

Zhenghai Magnetic Material

Innuovo

Earth-Panda

Xiamen Tungsten

Tianhe Magnetics

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 High-Performance Neodymium Iron Boron (NdFeB) Permanent

Magnets product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of High-Performance Neodymium Iron Boron (NdFeB) Permanent Magnets, with price, sales quantity, revenue, and global market share of High-Performance Neodymium Iron Boron (NdFeB) Permanent Magnets from 2021 to 2026.

Chapter 3, the High-Performance Neodymium Iron Boron (NdFeB) Permanent Magnets competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the High-Performance Neodymium Iron Boron (NdFeB) Permanent Magnets 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 High-Performance Neodymium Iron Boron (NdFeB) Permanent Magnets 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 High-Performance Neodymium Iron Boron (NdFeB) Permanent Magnets.

Chapter 14 and 15, to describe High-Performance Neodymium Iron Boron (NdFeB) Permanent Magnets sales channel, distributors, customers, research findings and conclusion.

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