

Global HRE-free NdFeB Magnets Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global HRE-free NdFeB Magnets market size is expected to reach \$ 7465 million by 2032, rising at a market growth of 7.9% CAGR during the forecast period (2026-2032).

HRE-free NdFeB Magnets are neodymium-iron-boron permanent magnets designed without the addition of heavy rare earth elements, mainly dysprosium (Dy) and terbium (Tb), while still maintaining high magnetic performance through alloy design, grain boundary diffusion control, microstructure optimization, and advanced sintering or bonding processes. Compared with conventional high-temperature NdFeB magnets containing Dy or Tb, HRE-free NdFeB magnets reduce dependence on scarce and costly heavy rare earth resources, improve material cost stability, and are increasingly used in applications where high magnetic strength, lightweight design, and supply-chain sustainability are required.

In 2025, global HRE-free NdFeB Magnets production reached approximately 73 kilotons, with an average global market price of around US\$ 58 per kg. The production capacity of HRE-free NdFeB Magnets is approximately 92 kilotons per year, the average gross profit margin was 28-31%.

The upstream supply chain includes rare earth oxides or metals such as neodymium and praseodymium, iron, boron, alloy additives, strip-casting materials, hydrogen decrepitation and powder metallurgy inputs, coating materials, and magnet processing equipment. Midstream manufacturers produce HRE-free NdFeB magnets through alloy melting, powder preparation, magnetic-field orientation, pressing, sintering or bonding, heat treatment, machining, coating, magnetization, and inspection. Downstream demand mainly comes from electric motors, automotive components, consumer

electronics, industrial automation, wind power, robotics, medical devices, and energy-saving appliances, where the magnets are used to improve torque density, miniaturization, efficiency, and system reliability.

The cost structure of HRE-free NdFeB Magnets is mainly composed of rare earth raw materials, iron-boron alloy materials, alloying additives, powder preparation, sintering or bonding process costs, energy consumption, precision machining, surface coating, magnetization, labor, yield loss, testing, packaging, and logistics. Rare earth raw materials usually account for the largest share of total cost, while the absence of Dy and Tb can significantly reduce raw material cost and price volatility. However, advanced microstructure control, high-coercivity process design, tight dimensional tolerance, and anti-corrosion coating requirements may increase processing and quality-control costs.

This report studies the global HRE-free NdFeB Magnets production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for HRE-free NdFeB Magnets 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 HRE-free NdFeB Magnets that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global HRE-free NdFeB Magnets total production and demand, 2021-2032, (Kilotons)

Global HRE-free NdFeB Magnets total production value, 2021-2032, (USD Million)

Global HRE-free NdFeB Magnets production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global HRE-free NdFeB Magnets consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: HRE-free NdFeB Magnets domestic production, consumption, key domestic manufacturers and share

Global HRE-free NdFeB Magnets production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global HRE-free NdFeB Magnets production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global HRE-free NdFeB Magnets production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global HRE-free NdFeB Magnets 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 TDK, Daido Electronics, e-VAC Magnetics, Ningbo Yunsheng, Yantai Zhenghai Magnetic Material, Ningbo Ketian Magnet, Newland Magnetics, SDM Magnetics, Bomatec AG, New Favor Industry Co., Ltd., 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 HRE-free NdFeB Magnets market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) and average price (US\$/kg) 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 HRE-free NdFeB Magnets Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global HRE-free NdFeB Magnets Market, Segmentation by Type:

Sintered HRE-free NdFeB Magnets

Bonded HRE-free NdFeB Magnets

Global HRE-free NdFeB Magnets Market, Segmentation by Magnet Shape:

Block Magnets

Ring Magnets

Other

Global HRE-free NdFeB Magnets Market, Segmentation by Maximum Operating Temperature:

Low-Temperature Grade: 120°C

Global HRE-free NdFeB Magnets Market, Segmentation by Application:

Electric Vehicles

Automotive Motors

Consumer Electronics

Industrial Motors

Wind Power

Other

Companies Profiled:

TDK

Daido Electronics

e-VAC Magnetics

Ningbo Yunsheng

Yantai Zhenghai Magnetic Material

Ningbo Ketian Magnet

Newland Magnetics

SDM Magnetics

Bomatec AG

New Favor Industry Co., Ltd.

Tengye Magnetic

Aichi Steel

Key Questions Answered:

1. How big is the global HRE-free NdFeB Magnets market?
2. What is the demand of the global HRE-free NdFeB Magnets market?
3. What is the year over year growth of the global HRE-free NdFeB Magnets market?
4. What is the production and production value of the global HRE-free NdFeB Magnets market?
5. Who are the key producers in the global HRE-free NdFeB Magnets market?
6. What are the growth factors driving the market demand?

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