

Global NdFeB Radiation Ring Market Research Report 2026(Status and Outlook)

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Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on NdFeB Radiation Ring competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. The NdFeB Radiation Ring is a ring-shaped component made from high-performance neodymium-iron-boron (NdFeB) magnetic material using a sintering process. It features stable magnetic properties and excellent resistance to high temperatures and corrosion, and is widely used in motors, sensors, and high-precision magnetic field control devices. In 2024, the global sales volume of NdFeB radiation rings reached 9.98 million units, with an average price of USD 20.8 per unit.

Regional Market Structure

The Asia-Pacific region dominates due to its rare-earth reserves, processing capacity and strong demand base, with China, Japan and South Korea as the key markets. Europe, led by Germany and France, primarily drives demand in automotive electrification and industrial automation, while North America—especially the U.S.—shows growth momentum in electric vehicles and aerospace. Overall, Asia-Pacific maintains leadership, while Europe and North America differentiate through high-end and customized applications.

Manufacturers & Value Chain Analysis

The price of sintered NdFeB radiation rings increases progressively with size: ultra-small diameter rings (OD < 200mm), due to higher processing difficulty and material costs, can reach over USD 45 per unit. The upstream segment mainly involves the mining, separation, and refining of rare-earth metals. China is the global hub for rare-earth resources and refining, with key players including China Northern Rare Earth Group, China Minmetals Rare Earth, and Shenghe Resources, which control both light and heavy rare-earth mines and refining capabilities. Some international companies, such as Lynas Rare Earths (Australia) and MP Materials (USA), also hold significant positions in the rare-earth supply chain. Price fluctuations in upstream materials directly affect the cost of NdFeB magnets. The

midstream involves the manufacturing of NdFeB magnets, including alloy melting, powder preparation, sintering, precision cutting, grinding, surface coating, and magnetization. Chinese companies account for over 80% of global production at this stage, with typical manufacturers including Ningbo Yunsheng, Zhong Ke San Huan, Advanced Technology and Materials, Ningbo Newland, Xinfeng Magnetic Materials, Zhaobao, Tianjin Mingci, Hunan Broad, and Hsmagnets, all of which possess large-scale manufacturing capabilities and specialized market support. High-end manufacturers also exist in Japan and Europe, such as Hitachi Metals and VAC (Germany), primarily serving high-performance and defense-grade magnet markets. The downstream application sector covers new energy vehicles (BYD, Tesla, Toyota), industrial motors and automation (Siemens, Mitsubishi Electric, ABB), consumer electronics (Apple, Huawei, Samsung), and aerospace (Boeing, Airbus). End users demand high performance, lightweight, and reliable magnets, which drives midstream manufacturers to continuously upgrade production processes and material formulations. Key innovation trends include: (1) enhancement of coercivity and thermal stability via heavy rare-earth doping and heat treatment; (2) miniaturization and precision machining to achieve ultra-small diameters and tighter tolerances; (3) adoption of advanced anti-corrosion coatings to ensure reliability in automotive and aerospace environments; and (4) recycling and regeneration technologies for rare-earth materials, supporting sustainable development. Policy Support & Challenges On the policy front, the EU's Critical Raw Materials Act promotes local supply and recycling, the U.S. supports clean energy and critical minerals through industrial policies, and China enforces strict control over rare-earth mining and exports. While these measures provide structural support, the industry faces challenges including upstream price volatility, geopolitical trade barriers, and compliance with increasingly stringent environmental regulations.

The global NdFeB Radiation Ring market size was estimated at USD 205.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 7.10% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global NdFeB Radiation Ring market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market

positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global NdFeB Radiation Ring market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the NdFeB Radiation Ring market.

Global NdFeB Radiation Ring Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Ningbo Yunsheng
Beijing Zhong Ke San Huan Hi-Tech
Advanced Technology and Materials
Ningbo Newland Magnet Industry
Hangzhou Xinfeng Magnetic Materials
Zhaobao Magnet
Tianjin Mingci
Hunan Broad Permanent Magnet
Hsmagnets
Hitachi Metals Group

Shin-Etsu

Market Segmentation (by Type)

Ultra-small Diameter Ring (OD Small Diameter Ring (OD 50?99mm)

Medium Diameter Ring (OD 100?149mm)

Large Diameter Ring (OD 150?199mm)

Ultra-large Diameter Ring (OD > 200mm)

Market Segmentation (by Application)

Automotive

Aerospace

Industrial Automation

Electronics and Electrical Appliances

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the NdFeB Radiation Ring Market

Overview of the regional outlook of the NdFeB Radiation Ring Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales

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Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the NdFeB Radiation Ring Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of NdFeB Radiation Ring, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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