

Global MRI Gradient Coil Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global MRI Gradient Coil market size is expected to reach \$ 170 million by 2032, rising at a market growth of 4.4% CAGR during the forecast period (2026-2032).

In 2025, global MRI Gradient Coil production reached approximately 8,029 units, with an average global market price of around 15.2 k US\$/Unit. MRI gradient coils are specialized electromagnetic coils located inside the MRI scanner bore that create controlled, linear variations (gradients) in the main magnetic field (B0). By slightly distorting the main field in predictable patterns, they enable spatial encoding?locating exactly where MR signals originate in the body?allowing the computer to form 3D images.

The MRI gradient coil market is best understood as a core component market embedded in the broader MRI system value chain, rather than as a fully visible standalone component market. A large share of gradient coil value is captured internally by MRI system OEMs through captive design, manufacturing and system integration. Based on our research, the global supply structure is divided into two layers. The first layer is led by major MRI OEMs, where gradient coils are integrated with magnets, RF subsystems, spectrometers, cooling units, safety controls and imaging software. The second layer consists of independent gradient coil manufacturers, preclinical MRI vendors and custom insert suppliers serving research, animal imaging, system upgrades and specialized clinical applications. Competition is therefore not only about winding or assembling coils; it is a multidisciplinary capability involving electromagnetic design, thermal management, force balancing, acoustic noise control, PNS limitation, gradient linearity and whole-system tuning.

Demand remains anchored by clinical 1.5T and 3.0T MRI systems, but the quality of

growth is shifting toward higher gradient performance. Diffusion MRI, neuroimaging, quantitative imaging, oncology, cardiovascular applications and ultra-high-field research are increasing the value of high-gradient, high-slew-rate and high-duty-cycle systems. In China, domestic high-end MRI commercialization, equipment renewal policies, helium-free or low-helium MRI development and broader access to MRI in lower-tier hospitals are supporting local supply-chain opportunities. Going forward, leading OEMs are expected to strengthen their advantage through integrated high-performance platforms, while independent suppliers will continue to find opportunities in research gradients, preclinical MRI, system refurbishment and customized regional supply.

This report studies the global MRI Gradient Coil production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for MRI Gradient Coil 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 MRI Gradient Coil that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global MRI Gradient Coil total production and demand, 2021-2032, (Units)

Global MRI Gradient Coil total production value, 2021-2032, (USD Million)

Global MRI Gradient Coil production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global MRI Gradient Coil consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: MRI Gradient Coil domestic production, consumption, key domestic manufacturers and share

Global MRI Gradient Coil production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global MRI Gradient Coil production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global MRI Gradient Coil production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global MRI Gradient Coil 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 GE Healthcare, Siemens Healthineers, Tesla

Engineering, Philips, Canon Medical, Bruker, Magnetica, MR Solutions, Shenzhen RFT Electrical, United Imaging, 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 MRI Gradient Coil market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) 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 MRI Gradient Coil Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global MRI Gradient Coil Market, Segmentation by Type:

1.5T Gradient Coil

3.0T Gradient Coil

Others

Global MRI Gradient Coil Market, Segmentation by Imaging Target:

Whole-body Gradient Coil

Local/Insert Gradient Coil

Global MRI Gradient Coil Market, Segmentation by Outer Diameter:

Outer Diameter900mm

Global MRI Gradient Coil Market, Segmentation by Application:

Clinical Diagnostics

Higher Education and Research

Other

Companies Profiled:

GE Healthcare

Siemens Healthineers

Tesla Engineering

Philips

Canon Medical

Bruker

Magnetica

MR Solutions

Shenzhen RFT Electrical

United Imaging

Ningbo Jansen Superconducting

Neusoft Medical

Shanghai Centron Medical

Key Questions Answered:

1. How big is the global MRI Gradient Coil market?
2. What is the demand of the global MRI Gradient Coil market?
3. What is the year over year growth of the global MRI Gradient Coil market?
4. What is the production and production value of the global MRI Gradient Coil market?
5. Who are the key producers in the global MRI Gradient Coil market?
6. What are the growth factors driving the market demand?

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