

Magnetic Resonance Imaging Coils Market Outlook 2025-2034: Market Share, and Growth Analysis By Type (Radiofrequency Coil, Gradient Coil), By Application (Neurology, Cardiovascular, Spine and Musculoskeletal, Pediatric, Breast, Abdominal, Other Applications), By End User

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Abstracts

The Magnetic Resonance Imaging Coils Market is valued at USD 11.9 billion in 2025 and is projected to grow at a CAGR of 6.8% to reach USD 21.5 billion by 2034. The magnetic resonance imaging (MRI) coils market focuses on the development and commercialization of specialized components that transmit and receive radiofrequency (RF) signals during MRI scans. These coils are crucial for image clarity and are designed for specific body parts, including head coils, spine coils, cardiac coils, and extremity coils. Coil design directly influences the signal-to-noise ratio (SNR), scan resolution, and overall diagnostic value of MRI systems. As demand for advanced diagnostic imaging grows, the MRI coils market is expanding, supported by the rise of non-invasive imaging preferences, precision diagnostics, and the increasing prevalence of neurological, cardiovascular, and musculoskeletal disorders globally. The MRI coils market experienced strong innovation and commercial activity driven by the introduction of high-channel, flexible, and multi-array coils. Imaging centers prioritized upgrading existing systems with advanced coils to improve throughput and diagnostic accuracy. Flexible coils made of lightweight, patient-conforming materials improved patient comfort and enabled clearer imaging of difficult anatomical areas. Manufacturers focused on developing pediatric, fetal, and oncology-specific coil solutions for specialized diagnostic needs. North America and Europe remained key markets, while demand surged in Asia-Pacific with increasing hospital expansions, health tech investments, and wider adoption of 3T and 7T MRI systems in urban hospitals. The MRI

coils market will benefit from personalized medicine trends, with coils being developed to match patient anatomy and specific diagnostic applications. Integration of AI-driven image enhancement within coil software will support rapid image reconstruction and improved workflow. Portable and wearable coil technologies will emerge to facilitate scanning in constrained environments such as ICUs or ambulances. Increased investments in MRI accessibility across emerging markets will further propel coil demand. Strategic collaborations between MRI system OEMs, hospitals, and academic centers will foster next-gen coil design optimized for ultra-high field and functional imaging protocols.

Key Insights Magnetic Resonance Imaging Coils Market

Flexible and lightweight coils are transforming patient experience and scan quality by conforming to complex body anatomies for improved comfort and precision.

High-density and multi-channel coils are enabling faster scans with enhanced image resolution, particularly in neuroimaging and musculoskeletal diagnostics.

Custom, anatomy-specific coils are being developed to support pediatric, cardiac, breast, and prostate imaging for precision diagnostics.

Integration of AI algorithms for image reconstruction and coil tuning is increasing the speed and automation of MRI workflows.

Growth in 3T and 7T MRI adoption is driving demand for specialized coils capable of operating in high-field environments with reduced artifacts.

Rising incidence of chronic diseases like cancer, stroke, and neurological disorders is boosting the need for high-resolution, organ-specific MRI imaging.

Technological advancements in coil materials and digital signal processing are improving diagnostic accuracy and broadening clinical utility.

Hospitals and imaging centers are investing in coil upgrades to enhance existing MRI system performance and expand service offerings.

Increasing healthcare infrastructure development in emerging markets is expanding access to advanced imaging modalities including MRI.

High costs of specialized coils and associated MRI system upgrades limit adoption in cost-sensitive or underfunded healthcare facilities.

Complexity in coil handling and maintenance, especially for multi-array configurations, can lead to workflow inefficiencies and increased training needs.

Magnetic Resonance Imaging Coils Market Segmentation

By Type

Radiofrequency Coil

Gradient Coil

By Application

Neurology

Cardiovascular

Spine and Musculoskeletal

Pediatric

Breast

Abdominal

Other Applications

By End User

Hospitals

Diagnostic Imaging Centers

Other End Users

Key Companies Analysed

ALS Limited

Bruel & Kjaer

Emerson Electric Co.

Teledyne FLIR LLC

Fluke Corporation

Baker Hughes Company

General Electric

Honeywell International Inc

Meggitt PLC

National Instruments Corp

PARKER HANNIFIN CORP

Rockwell Automation Inc.

Schaeffler India Limited

SKF Condition Monitoring Inc

Symphony Industrial AI

Wilcoxon Sensing Technologies Inc.

Azima DLI Corporation

AB SKF (Swedish: Svenska Kullagerfabriken)

Emerson Electric Co.

Ifm Electronic Gmbh

Schaeffler AG & Co.

Baker Hughes Company

Analog Devices Inc.

RoadBotics Inc.

Litmus Automation Inc.

Amphenol Inc.

Br?el & Kjaer Vibro

FLIR Systems Inc.

Nippon Avionics Co. Ltd.

Thermo Fisher Scientific Inc.

Perkin Elmer Inc.

PCB Piezotronics Inc.

SPM Instrument AB

KCF Technologies Inc.

Monnit Corporation

Magnetic Resonance Imaging Coils Market Analytics

The report employs rigorous tools, including Porter's Five Forces, value chain mapping, and scenario-based modeling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of international flows, including leading exporters, importers, and regional price trends.

Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behavior are considered in forecasting scenarios. Recent deal flows, partnerships, and technology innovations are incorporated to assess their impact on future market performance.

Magnetic Resonance Imaging Coils Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks, profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption.

Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

Countries Covered

North America — Magnetic Resonance Imaging Coils market data and outlook to 2034

United States

Canada

Mexico

Europe — Magnetic Resonance Imaging Coils market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — Magnetic Resonance Imaging Coils market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — Magnetic Resonance Imaging Coils market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — Magnetic Resonance Imaging Coils market data and outlook to 2034

Brazil

Argentina

Chile

Peru

** We can include data and analysis of additional countries on demand.*

Research Methodology

This study combines primary inputs from industry experts across the Magnetic Resonance Imaging Coils value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

Key Questions Addressed

What is the current and forecast market size of the Magnetic Resonance Imaging Coils industry at global, regional, and country levels?

Which types, applications, and technologies present the highest growth potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in shaping demand?

Who are the leading players, and how are their strategies evolving in the face of global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps, sustainability-linked innovation, and M&A—and what is the best segment to invest over the next 3–5 years?

Your Key Takeaways from the Magnetic Resonance Imaging Coils Market Report

Global Magnetic Resonance Imaging Coils market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Magnetic Resonance Imaging Coils trade, costs, and supply chains

Magnetic Resonance Imaging Coils market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Magnetic Resonance Imaging Coils market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Magnetic Resonance Imaging Coils market trends, drivers, restraints, and opportunities

Porter’s Five Forces analysis, technological developments, and Magnetic Resonance Imaging Coils supply chain analysis

Magnetic Resonance Imaging Coils trade analysis, Magnetic Resonance Imaging Coils market price analysis, and Magnetic Resonance Imaging Coils supply/demand dynamics

Profiles of 5 leading companies—overview, key strategies, financials, and

products

Latest Magnetic Resonance Imaging Coils market news and developments

Additional Support

With the purchase of this report, you will receive

An updated PDF report and an MS Excel data workbook containing all market tables and figures for easy analysis.

7-day post-sale analyst support for clarifications and in-scope supplementary data, ensuring the deliverable aligns precisely with your requirements.

Complimentary report update to incorporate the latest available data and the impact of recent market developments.

** The updated report will be delivered within 3 working days*

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