

Magnetic Resonance Imaging Coils Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Type (Radiofrequency Coil, Gradient Coil), By Application (Neurology, Cardiovascular, Spine and Musculoskeletal, Pediatric, Abdominal, Others), By End User (Hospitals, Diagnostic Imaging Centers, Ambulatory Care Centers, Others), By Region and Competition, 2020-2030F

<https://marketpublishers.com/r/MBD675A5AEB7EN.html>

Date: July 2025

Pages: 184

Price: US\$ 4,500.00 (Single User License)

ID: MBD675A5AEB7EN

Abstracts

Market Overview

The Global Magnetic Resonance Imaging (MRI) Coils Market was valued at USD 9.14 billion in 2024 and is projected to reach USD 14.82 billion by 2030, growing at a CAGR of 8.36%. This growth is fueled by the increasing use of MRI in diagnosing various diseases and the rising prevalence of chronic conditions such as cancer, neurological disorders, and cardiovascular diseases. The aging population is contributing significantly to the demand for non-invasive diagnostic methods. MRI coils, which are essential for enhancing image quality and diagnostic precision, are being increasingly adopted in healthcare facilities. The rise in high-field and ultra-high-field MRI systems is also boosting market growth. Customized coils such as phased-array, surface, and volume coils are being developed for specific anatomical applications to improve clinical outcomes. Additionally, innovations like AI integration for better imaging, lightweight and flexible coil designs, and the creation of pediatric and organ-specific coils are driving new advancements. Hybrid imaging systems further enhance the demand for versatile coil technologies.

Key Market Drivers

Rising Demand for Accurate and Non-Invasive Diagnostics

The increasing need for precise and non-invasive diagnostic solutions is a major growth driver for the Global Magnetic Resonance Imaging (MRI) Coils Market. In 2023, the U.S. recorded around 40 million MRI scans, while global figures reached between 100 to 150 million annually, underlining a clear trend towards early detection and precision medicine. MRI technology excels at imaging soft tissues and complex anatomical structures without subjecting patients to ionizing radiation, making it a preferred diagnostic tool over X-rays and CT scans. MRI coils, which handle the transmission and reception of radiofrequency signals, play a crucial role in delivering high-quality images. Innovations in coil design have improved signal-to-noise ratio (SNR), reduced scanning times, and enhanced image clarity. In Canada, as of 2022–2023, over 80% of MRI systems operated at 1.5T and nearly 18% at 3T, reflecting an increasing demand for advanced coil systems. Healthcare providers are increasingly adopting tailored coils for brain, cardiac, spinal, and breast imaging to enhance diagnostic performance.

Key Market Challenges

High Cost of MRI Coils and Imaging Systems

A major obstacle in the Global Magnetic Resonance Imaging (MRI) Coils Market is the high cost of both coils and MRI imaging systems. Advanced coils, particularly those suited for high-field and ultra-high-field systems, involve intricate engineering, costly materials, and extensive R&D, which lead to substantial production expenses. These costs are typically transferred to healthcare facilities, making it financially challenging for small and mid-sized hospitals and diagnostic centers to acquire and maintain them. Furthermore, MRI machines themselves are among the most expensive diagnostic tools, with costs ranging from hundreds of thousands to several million dollars depending on system specifications. The need to integrate specialized coils only adds to the financial burden, creating barriers to adoption, especially in settings with limited budgets.

Key Market Trends

Advancement in Coil Technology

Technological advancements in coil design are emerging as a significant trend in the Global Magnetic Resonance Imaging (MRI) Coils Market, enhancing image quality, workflow, and patient experience. Modern coils are increasingly featuring multi-channel and phased-array configurations that deliver superior spatial resolution, faster scans, and improved signal-to-noise performance. These enhancements enable more accurate visualization of complex structures, crucial in diagnosing diseases across various specialties like neurology, cardiology, orthopedics, and oncology. Demand is rising for application-specific coils—including those for breast, pediatric, spinal, and cardiac imaging—driven by the need for targeted diagnostics. Additionally, lightweight and flexible coil materials are replacing rigid structures, improving patient comfort and positioning during procedures. These innovations are particularly beneficial for patients with limited mobility, children, and those requiring extended scan sessions.

Key Market Players

GE Healthcare

Koninklijke Philips N.V.

Siemens Healthineers AG

Canon Medical Systems Corporation

Esaote S.p.A.

MR Instruments, Inc. (MRi)

Rapid MR International, LLC.

ScanMed, LLC.

Noras MRI Products GmbH

Nova Medical

Report Scope:

Magnetic Resonance Imaging Coils Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segm...

In this report, the Global Magnetic Resonance Imaging Coils Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Magnetic Resonance Imaging Coils Market, By Type:

Radiofrequency Coil

Gradient Coil

Magnetic Resonance Imaging Coils Market, By Application:

Neurology

Cardiovascular

Spine and Musculoskeletal

Pediatric

Abdominal

Others

Magnetic Resonance Imaging Coils Market, By End User:

Hospitals

Diagnostic Imaging Centers

Ambulatory Care Centers

Others

Magnetic Resonance Imaging Coils Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Magnetic Resonance Imaging Coils Market.

Available Customizations:

Global Magnetic Resonance Imaging Coils Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, and Trends

4. VOICE OF CUSTOMER

5. GLOBAL MAGNETIC RESONANCE IMAGING COILS MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Type (Radiofrequency Coil, Gradient Coil)
 - 5.2.2. By Application (Neurology, Cardiovascular, Spine and Musculoskeletal, Pediatric, Abdominal, Others)
 - 5.2.3. By End User (Hospitals, Diagnostic Imaging Centers, Ambulatory Care Centers,

Others)

5.2.4. By Company (2024)

5.2.5. By Region

5.3. Market Map

6. NORTH AMERICA MAGNETIC RESONANCE IMAGING COILS MARKET OUTLOOK

6.1. Market Size & Forecast

6.1.1. By Value

6.2. Market Share & Forecast

6.2.1. By Type

6.2.2. By Application

6.2.3. By End User

6.2.4. By Country

6.3. North America: Country Analysis

6.3.1. United States Magnetic Resonance Imaging Coils Market Outlook

6.3.1.1. Market Size & Forecast

6.3.1.1.1. By Value

6.3.1.2. Market Share & Forecast

6.3.1.2.1. By Type

6.3.1.2.2. By Application

6.3.1.2.3. By End User

6.3.2. Mexico Magnetic Resonance Imaging Coils Market Outlook

6.3.2.1. Market Size & Forecast

6.3.2.1.1. By Value

6.3.2.2. Market Share & Forecast

6.3.2.2.1. By Type

6.3.2.2.2. By Application

6.3.2.2.3. By End User

6.3.3. Canada Magnetic Resonance Imaging Coils Market Outlook

6.3.3.1. Market Size & Forecast

6.3.3.1.1. By Value

6.3.3.2. Market Share & Forecast

6.3.3.2.1. By Type

6.3.3.2.2. By Application

6.3.3.2.3. By End User

7. EUROPE MAGNETIC RESONANCE IMAGING COILS MARKET OUTLOOK

7.1. Market Size & Forecast

7.1.1. By Value

7.2. Market Share & Forecast

7.2.1. By Type

7.2.2. By Application

7.2.3. By End User

7.2.4. By Country

7.3. Europe: Country Analysis

7.3.1. France Magnetic Resonance Imaging Coils Market Outlook

7.3.1.1. Market Size & Forecast

7.3.1.1.1. By Value

7.3.1.2. Market Share & Forecast

7.3.1.2.1. By Type

7.3.1.2.2. By Application

7.3.1.2.3. By End User

7.3.2. Germany Magnetic Resonance Imaging Coils Market Outlook

7.3.2.1. Market Size & Forecast

7.3.2.1.1. By Value

7.3.2.2. Market Share & Forecast

7.3.2.2.1. By Type

7.3.2.2.2. By Application

7.3.2.2.3. By End User

7.3.3. United Kingdom Magnetic Resonance Imaging Coils Market Outlook

7.3.3.1. Market Size & Forecast

7.3.3.1.1. By Value

7.3.3.2. Market Share & Forecast

7.3.3.2.1. By Type

7.3.3.2.2. By Application

7.3.3.2.3. By End User

7.3.4. Italy Magnetic Resonance Imaging Coils Market Outlook

7.3.4.1. Market Size & Forecast

7.3.4.1.1. By Value

7.3.4.2. Market Share & Forecast

7.3.4.2.1. By Type

7.3.4.2.2. By Application

7.3.4.2.3. By End User

7.3.5. Spain Magnetic Resonance Imaging Coils Market Outlook

7.3.5.1. Market Size & Forecast

- 7.3.5.1.1. By Value
- 7.3.5.2. Market Share & Forecast
 - 7.3.5.2.1. By Type
 - 7.3.5.2.2. By Application
 - 7.3.5.2.3. By End User

8. ASIA-PACIFIC MAGNETIC RESONANCE IMAGING COILS MARKET OUTLOOK

- 8.1. Market Size & Forecast
 - 8.1.1. By Value
- 8.2. Market Share & Forecast
 - 8.2.1. By Type
 - 8.2.2. By Application
 - 8.2.3. By End User
 - 8.2.4. By Country
- 8.3. Asia-Pacific: Country Analysis
 - 8.3.1. China Magnetic Resonance Imaging Coils Market Outlook
 - 8.3.1.1. Market Size & Forecast
 - 8.3.1.1.1. By Value
 - 8.3.1.2. Market Share & Forecast
 - 8.3.1.2.1. By Type
 - 8.3.1.2.2. By Application
 - 8.3.1.2.3. By End User
 - 8.3.2. India Magnetic Resonance Imaging Coils Market Outlook
 - 8.3.2.1. Market Size & Forecast
 - 8.3.2.1.1. By Value
 - 8.3.2.2. Market Share & Forecast
 - 8.3.2.2.1. By Type
 - 8.3.2.2.2. By Application
 - 8.3.2.2.3. By End User
 - 8.3.3. South Korea Magnetic Resonance Imaging Coils Market Outlook
 - 8.3.3.1. Market Size & Forecast
 - 8.3.3.1.1. By Value
 - 8.3.3.2. Market Share & Forecast
 - 8.3.3.2.1. By Type
 - 8.3.3.2.2. By Application
 - 8.3.3.2.3. By End User
 - 8.3.4. Japan Magnetic Resonance Imaging Coils Market Outlook
 - 8.3.4.1. Market Size & Forecast

- 8.3.4.1.1. By Value
- 8.3.4.2. Market Share & Forecast
 - 8.3.4.2.1. By Type
 - 8.3.4.2.2. By Application
 - 8.3.4.2.3. By End User
- 8.3.5. Australia Magnetic Resonance Imaging Coils Market Outlook
 - 8.3.5.1. Market Size & Forecast
 - 8.3.5.1.1. By Value
 - 8.3.5.2. Market Share & Forecast
 - 8.3.5.2.1. By Type
 - 8.3.5.2.2. By Application
 - 8.3.5.2.3. By End User

9. SOUTH AMERICA MAGNETIC RESONANCE IMAGING COILS MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value
- 9.2. Market Share & Forecast
 - 9.2.1. By Type
 - 9.2.2. By Application
 - 9.2.3. By End User
 - 9.2.4. By Country
- 9.3. South America: Country Analysis
 - 9.3.1. Brazil Magnetic Resonance Imaging Coils Market Outlook
 - 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Value
 - 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By Type
 - 9.3.1.2.2. By Application
 - 9.3.1.2.3. By End User
 - 9.3.2. Argentina Magnetic Resonance Imaging Coils Market Outlook
 - 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Value
 - 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Type
 - 9.3.2.2.2. By Application
 - 9.3.2.2.3. By End User
 - 9.3.3. Colombia Magnetic Resonance Imaging Coils Market Outlook

- 9.3.3.1. Market Size & Forecast
 - 9.3.3.1.1. By Value
- 9.3.3.2. Market Share & Forecast
 - 9.3.3.2.1. By Type
 - 9.3.3.2.2. By Application
 - 9.3.3.2.3. By End User

10. MIDDLE EAST AND AFRICA MAGNETIC RESONANCE IMAGING COILS MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Value
- 10.2. Market Share & Forecast
 - 10.2.1. By Type
 - 10.2.2. By Application
 - 10.2.3. By End User
 - 10.2.4. By Country
- 10.3. MEA: Country Analysis
 - 10.3.1. South Africa Magnetic Resonance Imaging Coils Market Outlook
 - 10.3.1.1. Market Size & Forecast
 - 10.3.1.1.1. By Value
 - 10.3.1.2. Market Share & Forecast
 - 10.3.1.2.1. By Type
 - 10.3.1.2.2. By Application
 - 10.3.1.2.3. By End User
 - 10.3.2. Saudi Arabia Magnetic Resonance Imaging Coils Market Outlook
 - 10.3.2.1. Market Size & Forecast
 - 10.3.2.1.1. By Value
 - 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Type
 - 10.3.2.2.2. By Application
 - 10.3.2.2.3. By End User
 - 10.3.3. UAE Magnetic Resonance Imaging Coils Market Outlook
 - 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By Value
 - 10.3.3.2. Market Share & Forecast
 - 10.3.3.2.1. By Type
 - 10.3.3.2.2. By Application
 - 10.3.3.2.3. By End User

11. MARKET DYNAMICS

- 11.1. Drivers
- 11.2. Challenges

12. MARKET TRENDS & DEVELOPMENTS

- 12.1. Merger & Acquisition (If Any)
- 12.2. Product Launches (If Any)
- 12.3. Recent Developments

13. DISRUPTIONS: CONFLICTS, PANDEMICS AND TRADE BARRIERS

14. PORTERS FIVE FORCES ANALYSIS

- 14.1. Competition in the Industry
- 14.2. Potential of New Entrants
- 14.3. Power of Suppliers
- 14.4. Power of Customers
- 14.5. Threat of Substitute Products

15. COMPETITIVE LANDSCAPE

- 15.1. GE Healthcare
 - 15.1.1. Business Overview
 - 15.1.2. Company Snapshot
 - 15.1.3. Products & Services
 - 15.1.4. Financials (As Reported)
 - 15.1.5. Recent Developments
 - 15.1.6. Key Personnel Details
 - 15.1.7. SWOT Analysis
- 15.2. Koninklijke Philips N.V.
- 15.3. Siemens Healthineers AG
- 15.4. Canon Medical Systems Corporation
- 15.5. Esaote S.p.A.
- 15.6. MR Instruments, Inc. (MRI)
- 15.7. Rapid MR International, LLC.
- 15.8. ScanMed, LLC.

15.9. Noras MRI Products GmbH

15.10. Nova Medical

16. STRATEGIC RECOMMENDATIONS

17. ABOUT US & DISCLAIMER

I would like to order

Product name: Magnetic Resonance Imaging Coils Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Type (Radiofrequency Coil, Gradient Coil), By Application (Neurology, Cardiovascular, Spine and Musculoskeletal, Pediatric, Abdominal, Others), By End User (Hospitals, Diagnostic Imaging Centers, Ambulatory Care Centers, Others), By Region and Competition, 2020-2030F

Product link: <https://marketpublishers.com/r/MBD675A5AEB7EN.html>

Price: US\$ 4,500.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/MBD675A5AEB7EN.html>