

Superconducting Magnet For Medical Magnetic Resonance Imaging (MRI) System Market Report Evaluates Growth Drivers

*The Business Research Company's
Superconducting Magnet For Medical
Magnetic Resonance Imaging (MRI)
System Global Market Report 2026 –
Market Size 2026-2035*

The Business
Research Company

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/EINPresswire.com/ -- The medical

imaging field is witnessing significant advancements, particularly in the technology behind magnetic resonance imaging (MRI) systems. Among these developments, superconducting magnets play a crucial role in enhancing MRI capabilities. Let's explore the current market size, growth drivers, leading regions, and key factors shaping the [superconducting magnet market for medical MRI](#) systems.

Market Size and Growth Outlook for the Superconducting Magnet for Medical MRI System Market

The market for superconducting magnets used in medical MRI systems has shown robust growth recently. It is projected to increase from \$2.13 billion in 2025 to \$2.3 billion in 2026, representing a compound annual growth rate (CAGR) of 8.0%. This past growth is largely credited to the limited supply of high-field superconducting magnets, dependence on liquid helium cooling technologies, the rising use of neurological and musculoskeletal imaging, growing hospital adoption of MRI systems, and ongoing advancements in low-temperature superconductor materials.

Looking ahead, the market is expected to expand substantially, reaching \$3.09 billion by 2030 at a CAGR of 7.7%. Future growth will be driven by innovations such as the development of high-temperature superconductors, expanding applications in pediatric and oncology imaging, increased research and development in superconducting materials, growing demand for open and dedicated MRI systems, and the integration of artificial intelligence (AI) and big data analytics in imaging workflows. Key trends in the coming years include greater adoption of high-field MRI systems, more specialized imaging uses, progress in superconducting wire technologies, growth in diagnostic imaging centers, and efforts to reduce helium consumption and associated

cryogenic costs.

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Understanding the Role and Function of Superconducting Magnets in MRI Systems

Superconducting magnets used in medical MRI systems consist of coils made from superconducting wires that are cooled to near absolute zero temperatures, typically using liquid helium. This cooling eliminates electrical resistance, allowing the magnet to produce a powerful and highly stable magnetic field, generally ranging from 1.5 to 3 Tesla or even higher. The primary function of these magnets is to generate a uniform magnetic field strong enough to align hydrogen nuclei within the body. This alignment is essential for acquiring high-resolution images during MRI scans, which are critical for accurate diagnosis.

Key Factors Contributing to the Growth of the Superconducting Magnet Market for Medical MRI

One of the main drivers behind the growth of the superconducting magnet market for medical MRI systems is the escalating demand for diagnostic imaging. Diagnostic imaging encompasses techniques that create visual representations of internal body structures for clinical analysis and medical treatment. The need for such imaging is rising sharply due to the increasing prevalence of chronic illnesses that require early and precise diagnosis. Superconducting magnets enable high magnetic field strengths, which improve image clarity and diagnostic accuracy. Additionally, they help shorten scan times, boosting patient throughput and clinical efficiency. For instance, in November 2024, the UK's National Health Service reported 47.2 million imaging tests conducted in England during the previous year, marking a 4.8% increase from the prior 45.0 million. This surge in diagnostic imaging procedures is a significant factor propelling market expansion.

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Regional Leadership and Growth Dynamics in the Superconducting Magnet Market for Medical MRI

In 2025, North America held the position as the largest regional market for superconducting magnets in medical MRI systems. However, the Asia-Pacific region is expected to experience the fastest growth during the forecast period. The market analysis encompasses key territories including Asia-Pacific, South East Asia, Western Europe, Eastern Europe, North America, South America, the Middle East, and Africa, providing a comprehensive view of global trends and regional opportunities.

What's included in our 2026 market reports:

- Market attractiveness scoring and analysis
- Total addressable market (TAM) analysis
- Company scoring matrix graphics and tables
- Excel-based forecasting dashboards
- Market hotspots infographics
- Key technologies and future trend analysis
- Updated graphics and tables

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