

Global Medical Superconducting Magnet Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G0985A4CD50EEN.html>

Date: May 2026

Pages: 132

Price: US\$ 4,480.00 (Single User License)

ID: G0985A4CD50EEN

Abstracts

The global Medical Superconducting Magnet market size is expected to reach \$ 1677 million by 2032, rising at a market growth of 4.7% CAGR during the forecast period (2026-2032).

In 2025, global Medical Superconducting Magnet production reached approximately 6,258 units, with an average global market price of around 190 k US\$/unit. Medical superconducting magnets are core main-field components used in medical magnetic resonance imaging systems. They typically consist of superconducting coils, cryogenic cooling systems, vacuum cryostats, magnetic shielding structures, shimming components, mechanical supports, and monitoring or control units. These magnets generate highly uniform and stable static magnetic fields for clinical diagnosis and medical research. The market mainly covers 1.5T and 3.0T whole-body MRI magnets, selected 0.5T–1.2T open or low-field superconducting systems, and emerging 5.0T and 7.0T ultra-high-field medical research systems. Key performance parameters include field strength, bore size, homogeneity, temporal stability, helium consumption, cooling architecture, weight, fringe-field control, and installation requirements.

The global medical superconducting magnet market is undergoing a fundamental shift from traditional helium-dependent technology to helium-free solutions. Global helium scarcity and supply instability have made helium-free superconducting magnet technology an industry consensus. China's Ministry of Industry and Information Technology has designated helium-free superconducting MRI systems as a key project under the national high-end medical equipment promotion initiative. The National Medical Products Administration is refining registration review guidelines for MRI systems, providing regulatory support for technological advancement. The supply side has been historically dominated by leading international MRI system manufacturers,

whose in-house superconducting magnet production accounts for over 80% of global market share. Superconducting magnets, together with permanent magnets and gradient coils, represent approximately 50% of the total cost of MRI core components, making the magnet the decisive element for system performance. Industrial breakthroughs in helium-free technology have enabled independent magnet suppliers to enter the supply chains of top-tier global system manufacturers, reshaping the competitive landscape. On the demand side, China's medical equipment renewal policies continue to unlock procurement momentum, with project approvals in the first half of 2025 reaching a total investment of RMB 15.34 billion. The push to extend MRI accessibility to primary care institutions and emerging overseas markets demands greater cost efficiency and operational economy, accelerating the adoption of helium-free superconducting magnets. Growing clinical demand for high-field and ultra-high-field superconducting magnets, together with helium-free innovation, forms the twin engine driving long-term market growth.

This report studies the global Medical Superconducting Magnet production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Medical Superconducting Magnet 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 Medical Superconducting Magnet that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Medical Superconducting Magnet total production and demand, 2021-2032, (Units)

Global Medical Superconducting Magnet total production value, 2021-2032, (USD Million)

Global Medical Superconducting Magnet production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Medical Superconducting Magnet consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Medical Superconducting Magnet domestic production, consumption, key domestic manufacturers and share

Global Medical Superconducting Magnet production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Medical Superconducting Magnet production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Medical Superconducting Magnet production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Medical Superconducting Magnet 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 Siemens Healthineers, GE Healthcare, Philips, Shanghai United Imaging Medical Technology, Ningbo Jansen NMR Technology, JASTEC, Bruker, Tesla Engineering, ASG Superconductors, Shanghai Chenguang Medical Technologies, 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 Medical Superconducting Magnet market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K 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 Medical Superconducting Magnet Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Medical Superconducting Magnet Market, Segmentation by Type:

1.5T

3.0T

Others

Global Medical Superconducting Magnet Market, Segmentation by Cooling Method:

Liquid Helium-Free Superconducting Magnet

Liquid Helium-Immersed Magnet

Zero-Boil-off Superconducting Magnet

Global Medical Superconducting Magnet Market, Segmentation by Aperture:

850 Aperture

900 Aperture

930 Aperture

Other

Global Medical Superconducting Magnet Market, Segmentation by Application:

Clinical Application

Scientific Research Application

Companies Profiled:

Siemens Healthineers

GE Healthcare

Philips

Shanghai United Imaging Medical Technology

Ningbo Jansen NMR Technology

JASTEC

Bruker

Tesla Engineering

ASG Superconductors

Shanghai Chenguang Medical Technologies

Weifang Xinli Superconducting Magnet

Neusoft Medical Systems

Key Questions Answered:

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

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