

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

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Abstracts

The global Superconducting Magnet System market size is expected to reach \$ 6051 million by 2032, rising at a market growth of 6.3% CAGR during the forecast period (2026-2032).

Superconducting Magnet System is a complete equipment that takes superconducting coil as the core component and operates at cryogenic temperatures to generate high-intensity and high-stability magnetic fields; it is not limited to the magnet body alone, but consists of superconducting coils, cryogenic systems or refrigerators, vacuum dewars and cryostats, current leads, superconducting power supplies, quench protection devices, measurement and control systems, as well as supporting sample spaces, variable temperature inserts, gradient modules or shielding modules. Its core value is to achieve far higher magnetic field strength and operational stability than conventional electromagnets with low steady-state power consumption. Superconducting coil must maintain zero-resistance superconductivity at ultra-low temperatures, vacuum dewars and cryostats insulate heat to ensure a low-temperature environment, and refrigeration system provides continuous cooling support. Quench protection device guards against safety hazards caused by superconductivity quench, while measurement and control system monitors magnetic field, temperature and other parameters in real time, with all components working together to form a complete and reliable magnetic field generation system. This system is widely used in medical magnetic resonance imaging, scientific experimental research and large-scale scientific facilities, and also supports the R&D and commercialization of cutting-edge technologies such as superconducting quantum computing and heavy ion cancer therapy. In 2025, affected by differences in application scenarios, magnetic field strength, system configurations and other factors, the price of global Superconducting Magnet Systems covers a wide range, at approximately 800?1400 thousand US dollars per unit, with an average industry gross margin of about

38%.

Global Superconducting Magnet System will continue to evolve toward helium-free operation, higher field strength, hybridization, integration and intelligence. Helium-free solutions have become a core focus for major manufacturers due to reduced helium dependence and improved operational convenience. Engineering applications of high-temperature superconducting materials drive upgrades in magnet field strength, making high-low temperature hybrid magnets increasingly important in ultra-high-field NMR, medical imaging and large scientific facilities. Overall system integration has become key to competitiveness, with integrated design and intelligent management continuously enhancing system stability and usability. Market demand remains dominated by medical imaging, scientific instruments and large scientific facilities; high-end applications drive technological iteration, while emerging sectors show significant differences in commercialization pace.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

Global Superconducting Magnet System production by Application, production, value,

CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Superconducting Magnet System 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 Cryomagnetics, Inc., Lake Shore Cryotronics?Environment by Janis?, Oxford Instruments NanoScience, Helios Energy Technology Co., Ltd., Hefei Xihe Superconducting Technology Co., Ltd., Physike Technology Co., Ltd., LinkPhysics (Keshuun Technology), Kelvince Co., Ltd., Shanghai Chenguang Medical Technologies Co., Ltd., ASG Superconductors, 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 Superconducting Magnet System 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 Superconducting Magnet System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Superconducting Magnet System Market, Segmentation by Type:

Wet Type

Dry Type

Global Superconducting Magnet System Market, Segmentation by Transition Temperature:

Low Temperature Superconducting (LTS) Magnet System

High Temperature Superconducting (HTS) Magnet System

Global Superconducting Magnet System Market, Segmentation by Magnetic Field Strength:

Low Field (<1T)

Medium Field (1T~5T)

High Field (5T~15T)

Ultra-High Field (>15T)

Global Superconducting Magnet System Market, Segmentation by Application:

Magnetic Resonance Imaging (MRI)

Scientific Research

Industrial

Other

Companies Profiled:

Cryomagnetics, Inc.

Lake Shore Cryotronics?Environment by Janis?

Oxford Instruments NanoScience

Helios Energy Technology Co., Ltd.

Hefei Xihe Superconducting Technology Co., Ltd.

Physike Technology Co., Ltd.

LinkPhysics (Keshuun Technology)

Kelvince Co., Ltd.

Shanghai Chenguang Medical Technologies Co., Ltd.

ASG Superconductors

Bruker

Tesla Engineering

Japan Superconductor Technology (JASTEC)

JEOL

Key Questions Answered:

1. How big is the global Superconducting Magnet System market?
2. What is the demand of the global Superconducting Magnet System market?
3. What is the year over year growth of the global Superconducting Magnet System

market?

4. What is the production and production value of the global Superconducting Magnet System market?
5. Who are the key producers in the global Superconducting Magnet System market?
6. What are the growth factors driving the market demand?

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