

Global Superconducting Magnet System Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Superconducting Magnet System market size was valued at US\$ 4132 million in 2025 and is forecast to a readjusted size of US\$ 6051 million by 2032 with a CAGR of 6.3% during review period.

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 is a detailed and comprehensive analysis for global Superconducting Magnet System market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Superconducting Magnet System market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Superconducting Magnet System market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Superconducting Magnet System market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Superconducting Magnet System market shares of main players, shipments in

revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Superconducting Magnet System

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Superconducting Magnet System market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Superconducting Magnet System market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Wet Type

Dry Type

Market segment by Transition Temperature

Low Temperature Superconducting (LTS) Magnet System

High Temperature Superconducting (HTS) Magnet System

Market segment by Magnetic Field Strength

Low Field (<1T)

Medium Field (1T~5T)

High Field (5T~15T)

Ultra-High Field (>15T)

Market segment by Application

Magnetic Resonance Imaging (MRI)

Scientific Research

Industrial

Other

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Superconducting Magnet System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Superconducting Magnet System, with price, sales quantity, revenue, and global market share of Superconducting Magnet System from 2021 to 2026.

Chapter 3, the Superconducting Magnet System competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Superconducting Magnet System breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Superconducting Magnet System market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Superconducting Magnet System.

Chapter 14 and 15, to describe Superconducting Magnet System sales channel, distributors, customers, research findings and conclusion.

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