

Global High Field Superconducting Magnets Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

<https://marketpublishers.com/r/G2FC5AE25D7EN.html>

Date: August 2024

Pages: 120

Price: US\$ 3,480.00 (Single User License)

ID: G2FC5AE25D7EN

Abstracts

According to our (Global Info Research) latest study, the global High Field Superconducting Magnets market size was valued at USD 557.7 million in 2023 and is forecast to a readjusted size of USD 803.7 million by 2030 with a CAGR of 5.4% during review period.

A superconducting magnet is an electromagnet made from coils of superconducting wire. They must be cooled to cryogenic temperatures during operation. In its superconducting state the wire has no electrical resistance and therefore can conduct much larger electric currents than ordinary wire, creating intense magnetic fields. Superconducting magnets can produce greater magnetic fields than all but the strongest non-superconducting electromagnets and can be cheaper to operate because no energy is dissipated as heat in the windings. They are used in MRI machines in hospitals, and in scientific equipment such as NMR spectrometers, mass spectrometers, fusion reactors and particle accelerators. High Field usually means >2T.

The Global Info Research report includes an overview of the development of the High Field Superconducting Magnets industry chain, the market status of MRI (Dry Type, Wet Type), Nuclear Fusion (Dry Type, Wet Type), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of High Field Superconducting Magnets.

Regionally, the report analyzes the High Field Superconducting Magnets markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global High Field Superconducting Magnets market, with robust

domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the High Field Superconducting Magnets market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the High Field Superconducting Magnets industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (Units), revenue generated, and market share of different by Type (e.g., Dry Type, Wet Type).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the High Field Superconducting Magnets market.

Regional Analysis: The report involves examining the High Field Superconducting Magnets market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the High Field Superconducting Magnets market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to High Field Superconducting Magnets:

Company Analysis: Report covers individual High Field Superconducting Magnets manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards High Field Superconducting Magnets. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (MRI, Nuclear Fusion).

Technology Analysis: Report covers specific technologies relevant to High Field Superconducting Magnets. It assesses the current state, advancements, and potential future developments in High Field Superconducting Magnets areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the High Field Superconducting Magnets market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

High Field Superconducting Magnets market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Dry Type

Wet Type

Market segment by Application

MRI

Nuclear Fusion

Particle Accelerator

Cyclotron

Crystal Grower

Others

Major players covered

Bruker

Japan Superconductor Technology(JASTEC)

Mitsubishi Electric

Oxford Instruments

MR Solutions

ASG Superconductors SpA

Tesla Engineering Ltd

Cryogenic Limited

Janis Research Company, LLC

Jeol

Weifang Xinli Superconducting Technology

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 High Field Superconducting Magnets product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of High Field Superconducting Magnets, with price, sales, revenue and global market share of High Field Superconducting Magnets from 2019 to 2024.

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

Chapter 4, the High Field Superconducting Magnets breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and High Field Superconducting Magnets market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 High Field Superconducting Magnets.

Chapter 14 and 15, to describe High Field Superconducting Magnets sales channel,

distributors, customers, research findings and conclusion.

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