

# Global Nuclear Fusion Superconducting Magnet Market Growth 2026-2032

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## Abstracts

The global Nuclear Fusion Superconducting Magnet market size is predicted to grow from US\$ 95.62 million in 2025 to US\$ 203 million in 2032; it is expected to grow at a CAGR of 11.3% from 2026 to 2032.

In 2025, global Nuclear Fusion Superconducting Magnet production reached approximately 115 units, and the average price was US\$850k per unit. Nuclear fusion superconducting magnets are critical components used in nuclear fusion devices to generate and maintain strong magnetic fields. By utilizing superconducting materials at cryogenic temperatures to achieve near-zero-resistance, high-current transmission, they create high-intensity, stable, and continuous magnetic confinement fields. These fields control the trajectories of high-temperature plasma, thereby enhancing the stability of fusion reactions and improving energy conversion efficiency. Such magnets are primarily employed in magnetic confinement fusion devices—such as tokamaks and stellarators—and typically utilize low-temperature superconducting (LTS) materials (e.g., NbTi, Nb<sub>3</sub>Sn) or high-temperature superconducting (HTS) materials (e.g., REBCO tapes). They integrate cryogenic cooling systems, structural designs, and current lead technologies to ensure high-field strength and reliable operation. As the development of commercial fusion energy accelerates, these magnets are evolving toward higher magnetic field strengths, more compact designs, and greater operational efficiency, serving as foundational equipment for the future engineering and construction of fusion reactors.

The upstream segment of the nuclear fusion superconducting magnet industry chain primarily comprises suppliers of superconducting materials, structural metals, insulating materials, cryogenic cooling materials, and manufacturing equipment. Superconducting materials—such as NbTi, Nb<sub>3</sub>Sn, and REBCO high-temperature superconducting

tapes—serve as the core raw materials, determining the magnet's field strength and operational performance; this segment also encompasses supporting components and materials such as high-purity copper, stainless steel alloys, polyimide insulation, cryogenic liquid helium systems, and precision machining equipment. Downstream applications focus on nuclear fusion devices—including tokamaks, stellarators, spherical tokamaks, and future commercial fusion power plants—where these magnets enable the magnetic confinement and stable operation of high-temperature plasma. As global research and development in fusion energy accelerates, the downstream customer base—comprising fusion energy companies, research institutions, national laboratories, and operators of large-scale energy projects—is driving a market shift from scientific validation toward engineering and commercial application.

The nuclear fusion superconducting magnet industry is currently at a pivotal stage, transitioning rapidly from experimental validation to commercial application. Driven by the swift advancement of global fusion energy projects, compact tokamak devices, and high-field magnet technologies, the demand for high-performance superconducting magnets continues to rise. Key opportunities lie in the application of high-temperature superconducting (HTS) materials, the development of compact, high-field fusion reactors, the construction of commercial fusion power plants, and the upgrading of large-scale scientific research facilities. Core industry competitiveness is defined by superconducting material performance, magnet design capabilities, cryogenic engineering expertise, manufacturing precision, and the ability to ensure long-term, stable operation; high field strength, high reliability, and scalable manufacturing capabilities are particularly critical for corporate success. Current industry challenges include the high cost of HTS materials, complex magnet manufacturing processes, difficulties in maintaining consistency in large-scale magnets, high energy consumption in cryogenic systems, and lengthy commercial validation cycles. To address these issues, the industry is working to reduce costs and enhance performance by optimizing manufacturing processes for advanced materials like REBCO, developing modular magnet structures, increasing automation in production, and improving cryogenic cooling systems. Overall, the market for superconducting magnets for nuclear fusion remains in the early stages of growth; however, driven by increased government investment, the rapid development of private fusion companies, and the rising global demand for energy transition, it is poised to become a key area of growth within the advanced energy equipment sector.

LP Information, Inc. (LPI) ' newest research report, the “Nuclear Fusion Superconducting Magnet Industry Forecast” looks at past sales and reviews total world Nuclear Fusion Superconducting Magnet sales in 2025, providing a comprehensive

analysis by region and market sector of projected Nuclear Fusion Superconducting Magnet sales for 2026 through 2032. With Nuclear Fusion Superconducting Magnet sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Nuclear Fusion Superconducting Magnet industry.

This Insight Report provides a comprehensive analysis of the global Nuclear Fusion Superconducting Magnet landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Nuclear Fusion Superconducting Magnet portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Nuclear Fusion Superconducting Magnet market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Nuclear Fusion Superconducting Magnet and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Nuclear Fusion Superconducting Magnet.

This report presents a comprehensive overview, market shares, and growth opportunities of Nuclear Fusion Superconducting Magnet market by product type, application, key manufacturers and key regions and countries.

## **Segmentation by Type:**

Low-Temperature Superconducting Magnet (LTS)

High-Temperature Superconducting Magnet (HTS)

## **Segmentation by Magnetic Field Strength:**

Low-to-Medium Field Superconducting Magnet: <10 Tesla

High-Field Superconducting Magnet: 10–20 Tesla

Ultra-High-Field Superconducting Magnet: >20 Tesla

## **Segmentation by Application:**

Tokamak Fusion Magnet

Stellarator Magnet

Spherical Tokamak Magnet

Fusion Demonstration Reactor Magnet

Others

## **This report also splits the market by region:**

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Commonwealth Fusion Systems (CFS)

General Atomics

Tokamak Energy

HTS-110

Tesla Engineering Ltd

Cryomagnetics, Inc.

TE Magnetics

Jiangxi Lian Chuang Optoelectronic Science and Technology

XIHE SUPERCONDUCTING TECHNOLOGIES

## **Key Questions Addressed in this Report**

What is the 10-year outlook for the global Nuclear Fusion Superconducting Magnet market?

What factors are driving Nuclear Fusion Superconducting Magnet market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Nuclear Fusion Superconducting Magnet market opportunities vary by end market size?

How does Nuclear Fusion Superconducting Magnet break out by Type, by Application?

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