

Global Superconductor Motors Market to Reach USD 1,868 Million by 2035, Growing at 30.2% CAGR

Superconductor motors' advancements, driving high-efficiency electric systems and revolutionizing industrial and mobility applications.

ROCKVILLE, MD, UNITED STATES, May 12, 2025 /EINPresswire.com/ -- According to Fact.MR, a market research and competitive intelligence provider, the [superconductor motors market](#) was valued at USD 133.5 million in 2025 and is expected to grow at a CAGR of 30.2% during the forecast period of 2025 to 2035



The market is undergoing a significant shift as demand rises for lightweight, high-efficiency motor systems that can power advanced industrial and mobility applications. Advance motors require the key traits of near-zero electrical resistance combined with compact design and exceptional power density which HTS technology enables in superconductor motors.

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The industry has started rapid implementation due to electricity trends alongside performance improvements and sustainable propulsion development efforts. Smart grids and propulsion systems together with high-performance machinery integrate these motors as manufacturers are focusing on energy savings and emission reduction.

Future industrial infrastructure will integrate superconductor motors as fundamental components due to innovative AI-based performance optimization and cryogenic cooling improvements which enable enhanced energy efficiency, torque output and operational reliability.

Key Takeaways from Market Study

The superconductor motors market is poised for remarkable growth, with a projected CAGR of 30.2%, reaching a value of USD 1,868 million by 2035. This rapid expansion highlights the increasing demand for energy-efficient and high-performance motor solutions across various industries. The market is expected to witness an absolute dollar opportunity of USD 1,734.8 million between 2025 and 2035, reflecting the increasing adoption of superconductor technologies in applications such as electric vehicles, renewable energy systems, and industrial machinery.

North America stands out as a key player in the superconductor motors market, estimated to hold a significant market share of 26.4% in 2035, with a valuation of approximately USD 493.2 million. The region's strong technological infrastructure, ongoing investments in research and development, and rising demand for clean energy solutions contribute to its dominance. Furthermore, North America is projected to generate an absolute dollar opportunity of about USD 454.9 million between 2025 and 2035, showcasing the region's potential for substantial growth in the coming years.

Prominent market players, including American Superconductor, Fujikura Ltd., Hitachi, Ltd., JAPAN SUPERCONDUCTOR TECHNOLOGY, INC. (JASTEC), KITANO SEIKI CO., LTD, Sumitomo Electric Industries, Ltd., and Toshiba Corporation, are expected to drive innovation and competition within the industry. These companies are heavily investing in developing next-generation superconductor motor technologies and expanding their market presence to meet the rising demand for efficient, sustainable motor solutions worldwide.

“Advances in superconducting materials, the electrification of industrial systems, and the growing emphasis on energy efficiency across sectors are key factors driving market growth” says a Fact.MR analyst.

Leading Players Driving Innovation in the Superconductor Motors Market:

Key industry participants like American Superconductor, Fujikura Ltd., Hitachi, Ltd., JAPAN SUPERCONDUCTOR TECHNOLOGY, INC. (JASTEC), KITANO SEIKI CO., LTD, Sumitomo Electric Industries, Ltd., and Toshiba Corporation etc. are driving the superconductor motors industry.

Market Development

Companies operating in the superconductor motors market are focusing on development as they optimize motor performance, reduce power requirements and simplify integration with modern industrial platforms. Companies work on producing motors with extended operational capabilities while achieving better reliability functions across multiple environmental settings. Manufacturers release new solutions which support the energy transition efforts by meeting the requirements of modern industrial automation platforms. Strategic collaborations and research

initiatives are playing a key role in accelerating technology commercialization, while suppliers adapt to regional regulations and maintain international performance standards.

For example, in May 2024, Airbus advanced superconductivity research to support hydrogen-powered aircraft development. The initiative aims to increase propulsion system efficiency and reduce energy loss, critical for future zero-emission aviation. By integrating superconducting technologies, Airbus enhances performance while enabling lighter, more sustainable designs for next-generation hydrogen aircraft.

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More Valuable Insights on Offer

Fact.MR, in its new offering, presents an unbiased analysis of the the Superconductor Motors market, presenting historical data for 2020 to 2024 and forecast statistics for 2025 to 2035.

The study reveals essential insights on the basis of Motor Type (Synchronous Motors, Asynchronous Motors, and Linear Motors), Cooling Technology (Low-Temperature Superconductors (LTS) & High-Temperature Superconductors (HTS)), Application (Propulsion Systems, Power Generation, Industrial Drive Systems, and Cryogenic Technology Integration), End-Use Industry (Aerospace & Defense, Automotive, Industrial Manufacturing, Energy & Power, and Others), and Across Major Regions of the World (North America, Latin America, Western Europe, Eastern Europe, East Asia, South Asia & Pacific, and Middle East & Africa).

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