

Large Synchronous Motors Market to Hit USD 12.7 Billion by 2035 Amid Rising Focus on Energy Efficiency & Automation

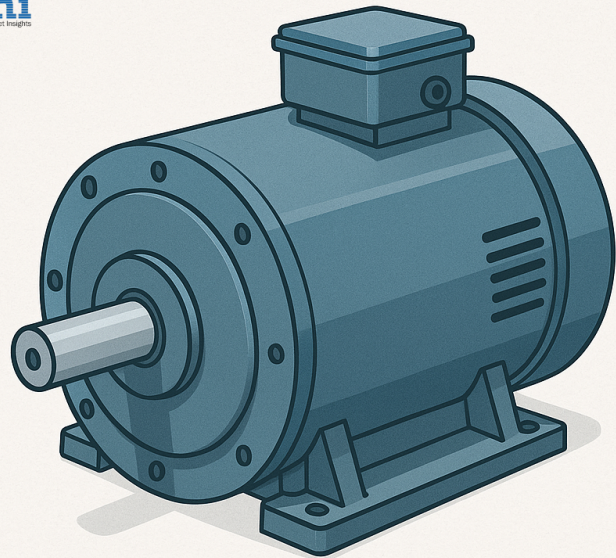
Synchronous motors offer high efficiency, power factor correction & durability, making them ideal for energy-saving & continuous-duty industrial applications.

NEWARK, DE, UNITED STATES, April 21, 2025 /EINPresswire.com/ -- The global [Large Synchronous Motors Market](#) is witnessing a strong growth trajectory, projected to grow from USD 7.46 billion in 2025 to USD 12.7 billion by 2035, at a steady CAGR of 5.5%. This market surge is fueled by increasing industrial demand for energy-efficient, high-torque motor solutions across heavy industries including mining, steel, oil & gas, cement, and power generation.

Large synchronous motors typically rated above 1,000 kW are gaining traction due to their unmatched efficiency, constant-speed performance, and reliability in critical infrastructure applications. These motors are indispensable in driving compressors, pumps, mills, and fans under continuous-duty cycles. With industries intensifying their focus on optimizing operational efficiency, the adoption of large synchronous motors is scaling rapidly.

One of the standout benefits of large synchronous motors is their ability to offer built-in power factor correction, enabling energy savings while reducing dependency on external correction equipment. Additionally, these motors are tailored to withstand dynamic loads, making them ideal for rugged environments and 24/7 operations.

Amidst growing global awareness around sustainability and carbon neutrality, industries are replacing aging induction motors with more efficient synchronous alternatives. Synchronous



LARGE SYNCHRONOUS MOTOR

Large Synchronous Motor EIN

motors have proven 2-8% higher efficiency in large-scale industrial setups this not only translates into lower operational costs but also aligns with green manufacturing mandates worldwide.

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The latest market research report offers an in-depth analysis of:

- Market size projections from 2025 to 2035
- Regional growth forecasts across 7 major geographies
- Competitive landscape and company profiles
- Market drivers, trends, and challenges

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The large synchronous motors is moving into a growth, driven by the dual trends of energy efficiency. Manufacturers who focus on digital integration & sustainability,”

*opines Nikhil Kaitwade,
Associate Vice President at
FMI*

- Application-specific insights (mining, steel, cement, etc.)
- Technology evolution and innovation roadmaps
- Key Factors Shaping Market Dynamics

Energy efficiency regulations, increasing automation, rising infrastructure spending, and robust growth in resource-intensive industries are shaping the large synchronous motors market. Sustainability goals and demand for high-performance equipment are further accelerating the market transformation.

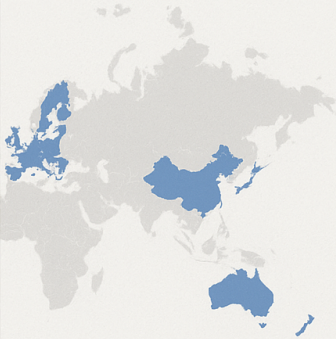
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With the advent of Industry 4.0, the integration of automation in manufacturing plants, power facilities, and water treatment systems is on the rise. This transition is generating increased demand for large synchronous motors due to their ability to provide stable torque and reduce

LARGE SYNCHRONOUS MOTOR MARKET REGIONAL ANALYSIS

Which is the Leading Region in the Large Synchronous Motor Industry?

Countries	CAGR
USA	5,2%
UK	4,8%
France	4,9%
Germany	5,3%
Italy	5,0%
South Korea	5,8%



Large Synchronous Motor

energy loss in automated systems.

Automation also brings stringent requirements for precision and durability two attributes that synchronous motors are uniquely positioned to deliver. As global factories become smarter, the demand for motors that can operate efficiently under digital control systems continues to expand.

Power grids are undergoing a major transformation. The expansion of national grids and the modernization of aging power plants are driving fresh demand for reliable large motor solutions. Large synchronous motors are increasingly being deployed in thermal, hydro, and nuclear power stations for auxiliary applications such as driving cooling systems, condensate pumps, and forced draft fans.

Governments in both developed and developing economies are making record investments in power infrastructure to meet growing energy needs and decarbonization goals, creating significant opportunities for synchronous motor manufacturers.

For more insights, visit: <https://www.futuremarketinsights.com/reports/large-synchronous-motor-market>

The global mining industry is witnessing a resurgence, especially in emerging economies such as South Africa, Australia, Brazil, and India. With growing demand for rare earth elements, copper, and iron ore, mining companies are investing in high-capacity extraction and processing facilities.

Large synchronous motors are key to operating ore crushers, conveyors, and grinders—equipment that demands high torque and endurance. Their robust design and minimal maintenance requirements make them a preferred choice in remote and harsh mining environments.

Market to grow at a CAGR of 5.5% from 2025 to 2035

Rising energy efficiency mandates boost demand

Mining, oil & gas, and steel industries are primary adopters

Automation and digitization enhance market potential

Asia Pacific remains the fastest-growing region

Synchronous motors preferred for constant-speed, high-load applications

- Energy-Efficient Motors Drive Transformation in Large Synchronous Motor Industry

Growing global mandates to reduce greenhouse gas emissions are steering industries toward energy-efficient technologies. Large synchronous motors, with their inherent ability to reduce electrical losses and eliminate reactive power, are central to this transition.

Unlike induction motors, synchronous motors maintain efficiency even at high load levels, making them highly suitable for large-scale operations that run 24/7. This efficiency not only supports environmental targets but also translates into long-term cost savings.

Oil & gas facilities require motors that offer both precision and the ability to withstand extreme conditions. Large synchronous motors deliver both, especially in upstream and midstream applications such as gas compression and pipeline pumping.

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In power generation, these motors are increasingly being chosen for high-load processes due to their stability, efficiency, and built-in power factor correction capabilities. As aging assets get replaced, synchronous motors are becoming a go-to upgrade.

ABB Ltd. – Offers a comprehensive range of high-power synchronous motors with custom designs for mining, metals, and power sectors.

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- Siemens AG – Focused on energy-efficient large motors integrated with digital monitoring solutions.

- General Electric (GE) – Provides robust synchronous motors tailored for oil & gas, chemicals, and utilities.

- Toshiba Mitsubishi-Electric Industrial Systems Corporation (TMEIC) – Known for innovative motor designs with low harmonic distortion.

- Hyundai Electric – Serves Asian and Middle Eastern markets with compact, high-efficiency synchronous motor solutions.

- Innovation in High-Torque Motors Boosts Large Synchronous Motor Market Potential

Recent advancements in motor design, such as enhanced rotor cooling systems, composite materials, and digital twin-based monitoring, are enabling higher torque densities and lower maintenance overheads. These innovations are unlocking new applications and driving greater adoption.

Manufacturers are also integrating smart sensors and predictive diagnostics to ensure real-time performance tracking, minimizing downtimes in critical operations making synchronous motors smarter and more resilient than ever before.

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- North America: Driven by industrial retrofits and energy efficiency mandates
- Latin America: Growing mining activities and infrastructure expansion
- Western Europe: Focus on sustainable industrial transformation
- Eastern Europe: Investments in power generation and heavy industries
- East Asia: Strong demand from China, Japan, and South Korea's manufacturing sectors
- South Asia & Pacific: Rapid industrialization and urban infrastructure growth
- Middle East & Africa: Oil & gas sector expansions and utility modernization projects

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The segmentation is into 25 to 40 MW, 40 to 60 MW, and 60 to 80 MW.

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The segmentation is into Compressors, Pumps, Fans, Extruders, Mixers, Conveyor Belts, and Others.

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The segmentation is into Oil & Gas, Metal & Mining, Paper & Pulp, Chemicals & Petrochemicals, Automotive, and Others.

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The segmentation is into North America, Latin America, Europe, Asia Pacific, and Middle East & Africa (MEA).

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The global [gas detection equipment market sales](#) overall value is expected to rise from USD 3,801.1 million in 2024 to USD 6,801.6 million in 2034.

The [hydrogen electrolyzer market growth](#) is expected to reach USD 5,709.8 million by 2034. The market is estimated to grow at a CAGR of 24.2%.

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