

South Korea Electric Motor Market Report by Motor Type (AC Motor, DC Motor, and Others), Voltage (Low Voltage Electric Motors, Medium Voltage Electric Motors, High Voltage Electric Motors), Rated Power (Fractional Horsepower Motors, Integral Horsepower Motors), Magnet Type (Ferrite, Neodymium (NdFeB), Samarium Cobalt (SmCo5 and Sm2Co17)), Weight (Low Weight Motors, Medium Weight Motors, High Weight Motors), Speed (Ultra-High-Speed Motors, High-Speed Motors, Medium Speed Motors, Low Speed Motors), Application (Industrial Machinery, HVAC, Transportation, Household Appliances, Motor Vehicles, Aerospace, Marine, Robotics, and Others), and Region 2026-2034

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Abstracts

South Korea electric motor market size reached USD 2,351.9 Million in 2025. Looking forward, IMARC Group expects the market to reach USD 4,240.6 Million by 2034, exhibiting a growth rate (CAGR) of 6.57 % during 2026-2034. The growing adoption of electric vehicles (EVs) to reduce dependence on fossil fuels, rising integration of industry 4.0 technologies and automation, and increasing employment in the renewable energy sector represent some of the key factors driving the market.

An electric motor is an instrument that transforms electrical energy into mechanical

energy. It consists of a stator, which contains coils of wire, and a rotor, often made of magnets or conductive material. It is available in various types, including alternating current (AC) motors, direct current (DC) motors, synchronous motors, induction motors, and stepper motors, each utilized for different purposes. It is relatively low-maintenance and has a long lifespan, making it cost-effective in the long run. It creates fewer greenhouse gas emissions compared to other forms of mechanical power generation, making it a more environment-friendly choice. It typically produces less vibration compared to other forms of mechanical power generation, leading to improved comfort, stability, and reliability. It is considered safer to operate compared to internal combustion engines due to lower risks of fuel-related hazards. It comes in various types and sizes, making it adaptable to a broad range of applications, including industrial machinery, transportation, and household appliances.

SOUTH KOREA ELECTRIC MOTOR MARKET TRENDS:

At present, increasing concerns about the environment and the need to reduce energy consumption represent one of the major factors propelling the growth of the market in South Korea. These energy-efficient motors, such as IE3 and IE4 class motors, are designed to minimize energy wastage, making them highly attractive to industries seeking to lower their carbon footprint and reduce operational costs. Additionally, the growing emergence of electric vehicles (EVs) to minimize dependence on fossil fuels and combat air pollution necessitates electric motors for powering their propulsion systems. Besides this, the rising integration of industry 4.0 technologies and automation is catalyzing the demand for electric motors to enhance productivity and reduce manual labor in the country. Electric motors are an integral part of automated systems, powering conveyor belts, robotic arms, and various machinery. Moreover, the increasing employment of electric motors in the renewable energy sector to drive wind turbines and solar tracking systems is bolstering the market growth. The rising emphasis on expanding renewable energy capacity is also driving the demand for high-performance electric motors capable of withstanding the rigors of renewable energy applications. In addition, the growing focus on green and sustainable manufacturing practices, which includes not only the end products but also the processes involved, is encouraging the utilization of electric motors to reduce their environmental impact and operational costs. Furthermore, the rising emphasis on electromagnetic compatibility (EMC) in the manufacturing and design of electric motors is ensuring that these motors do not emit electromagnetic interference (EMI) and are not susceptible to it is critical, especially in industries, such as telecommunications, medical devices, and aerospace. This is encouraging manufacturers to invest in EMC testing and design practices to meet stringent EMC standards, further enhancing the reliability and performance of

electric motors.

SOUTH KOREA ELECTRIC MOTOR MARKET SEGMENTATION:

IMARC Group provides an analysis of the key trends in each segment of the market, along with forecasts at the country level for 2026-2034. Our report has categorized the market based on motor type, voltage, rated power, magnet type, weight, speed, and application.

Motor Type Insights:

AC Motor

Induction AC Motor

Synchronous AC Motor

DC Motor

Brushed DC Motor

Brushless DC Motor

Others

The report has provided a detailed breakup and analysis of the market based on the motor type. This includes AC motor (induction AC motor and synchronous AC motor), DC motor (brushed DC motor and brushless DC motor), and others.

Voltage Insights:

Low Voltage Electric Motors

Medium Voltage Electric Motors

High Voltage Electric Motors

A detailed breakup and analysis of the market based on the voltage have also been provided in the report. This includes low voltage electric motors, medium voltage electric motors, and high voltage electric motors.

Rated Power Insights:

Fractional Horsepower Motors

Fractional Horsepower (
Fractional Horsepower (1/8 - 1/2) Motors

Fractional Horsepower (1/2 - 1) Motors

Integral Horsepower Motors

Integral Horsepower (1 - 5) Motors

Integral Horsepower (10 - 50) Motors

Integral Horsepower (50 - 100) Motors

Integral Horsepower (>100) Motors

The report has provided a detailed breakup and analysis of the market based on the rated power. This includes fractional horsepower motors (fractional horsepower (100) motors).

Magnet Type Insights:

Ferrite

Neodymium (NdFeB)

Samarium Cobalt (SmCo5 and Sm2Co17)

A detailed breakup and analysis of the market based on the magnet type have also been provided in the report. This includes ferrite, neodymium (NdFeB), and samarium

cobalt (SmCo5 and Sm2Co17).

Weight Insights:

Low Weight Motors

Medium Weight Motors

High Weight Motors

The report has provided a detailed breakup and analysis of the market based on the weight. This includes low weight motors, medium weight motors, and high weight motors.

Speed Insights:

Ultra-High-Speed Motors

High-Speed Motors

Medium Speed Motors

Low Speed Motors

A detailed breakup and analysis of the market based on the speed have also been provided in the report. This includes ultra-high-speed motors, high-speed motors, medium speed motors, and low speed motors.

Application Insights:

Industrial Machinery

HVAC

Transportation

Household Appliances

Motor Vehicles

Aerospace

Marine

Robotics

Others

The report has provided a detailed breakup and analysis of the market based on the application. This includes industrial machinery, HVAC, transportation, household appliances, motor vehicles, aerospace, marine, robotics, and others.

Regional Insights:

Seoul Capital Area

Yeongnam (Southeastern Region)

Honam (Southwestern Region)

Hoseo (Central Region)

Others

The report has also provided a comprehensive analysis of all the major regional markets, which include Seoul Capital Area, Yeongnam (Southeastern Region), Honam (Southwestern Region), Hoseo (Central Region), and Others.

COMPETITIVE LANDSCAPE:

The market research report has also provided a comprehensive analysis of the competitive landscape in the market. Competitive analysis such as market structure, key player positioning, top winning strategies, competitive dashboard, and company evaluation quadrant has been covered in the report. Also, detailed profiles of all major

companies have been provided.

KEY QUESTIONS ANSWERED IN THIS REPORT

How has the South Korea electric motor market performed so far and how will it perform in the coming years?

What is the breakup of the South Korea electric motor market on the basis of motor type?

What is the breakup of the South Korea electric motor market on the basis of voltage?

What is the breakup of the South Korea electric motor market on the basis of rated power?

What is the breakup of the South Korea electric motor market on the basis of magnet type?

What is the breakup of the South Korea electric motor market on the basis of weight?

What is the breakup of the South Korea electric motor market on the basis of speed?

What is the breakup of the South Korea electric motor market on the basis of application?

What are the various stages in the value chain of the South Korea electric motor market?

What are the key driving factors and challenges in the South Korea electric motor?

What is the structure of the South Korea electric motor market and who are the key players?

What is the degree of competition in the South Korea electric motor market?

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