

Electric Vehicle Motor Market Report by Power Rating (Up to 20 kW, 20 kW to 100 kW, 100 kW to 250 kW, Above 250 kW), Application (Two Wheeler, Three Wheeler, Passenger Vehicle, Commercial Vehicle), and Region 2024-2032

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Abstracts

The global electric vehicle motor market size reached US\$ 38,994.2 Million in 2023. Looking forward, IMARC Group expects the market to reach US\$ 182,690.3 Million by 2032, exhibiting a growth rate (CAGR) of 18.16% during 2024-2032. The increasing environmental awareness among the masses, rising EV adoption rates, significant technological advancements in electric vehicle motors, favorable government policies, and declining costs of lithium-ion batteries represent some of the key factors driving the market.

Electric vehicle (EV) motors are machines that convert electrical energy into mechanical energy, propelling the vehicle forward. Unlike conventional internal combustion (IC) engines that rely on fossil fuels, they utilize electricity stored in the vehicle's battery. These motors are primarily available in two main types, namely alternating current (AC) and direct current (DC) motors. They are typically characterized by instant torque delivery, providing rapid acceleration from a standstill. This results in smooth, seamless power without the need for complex transmissions. They are also quieter and have fewer moving parts than their gasoline counterparts, reducing noise pollution and maintenance requirements. The evolution and refinement of EV motor technology continue to play a significant role in the transition towards sustainable transportation, contributing to reduced greenhouse gas emissions, improved energy efficiency, and decreased dependence on fossil fuels. As a result, electric vehicle motors are rapidly gaining traction across the globe due to the widespread adoption of EVs.

Electric Vehicle Motor Market Trends:

With the rising awareness about the adverse impacts of greenhouse gas emissions from traditional vehicles, there is a growing global interest in electric vehicles (EVs) that produce zero direct emissions. Consequently, the escalating production and sales of EVs owing to surging environmental concerns represents one of the primary factors driving the market growth. Moreover, governments of various countries worldwide are promoting the uptake of EVs through various favorable incentives, such as subsidies, tax rebates, and grants to combat air pollution and meet emission targets. In line with this, the increasing consumer preferences for clean energy vehicles due to inflating fuel prices are contributing to market growth. Furthermore, several leading automobile manufacturers are committing to electrifying their product lines to meet evolving customer needs. Along with this, heavy investments toward the expansion of charging infrastructure to ease range anxiety are propelling the market growth. Besides this, declining costs of lithium-ion batteries, coupled with advancements in battery technology, are making EVs a more viable transportation option. In addition, improvements in manufacturing processes have led to the miniaturization of electric motors that are lighter and more compact motors, enabling designers to create more spacious and practical interiors. Also, the escalating demand for high-performance and luxury vehicles is fueling market growth. Other factors, including the emerging shared mobility trend, rapid urbanization, inflating consumer purchasing power, and ongoing strategic collaborations between automakers and tech companies to stimulate technological innovations, are also supporting the market growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global electric vehicle motor market, along with forecasts at the global, regional, and country levels from 2024-2032. Our report has categorized the market based on power rating and application.

Power Rating Insights:

Up to 20 kW

20 kW to 100 kW

100 kW to 250 kW

Above 250 kW

The report has provided a detailed breakup and analysis of the electric vehicle motor market based on the power rating. This includes up to 20 kW, 20 kW to 100 kW, 100 kW to 250 kW, and above 250 kW. According to the report, 100 kW to 250 kW represented the largest segment.

Application Insights:

Two Wheeler

Three Wheeler

Passenger Vehicle

BEV

Hybrid

Commercial Vehicle

BEV

Hybrid

A detailed breakup and analysis of the electric vehicle motor market based on the application has also been provided in the report. This includes two wheeler, three wheeler, passenger vehicle (BEV and hybrid), and commercial vehicle (BEV and hybrid). According to the report, passenger vehicle accounted for the largest market share.

Regional Insights:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

The report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Asia-Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, Asia-Pacific was the largest market for electric vehicle motor. Some of the factors driving the Asia-Pacific electric vehicle motor market included its dominance in lithium-ion battery production, expanding middle-class population, supportive government policies, rising public and private investments in charging infrastructure, etc.

Competitive Landscape:

The report has also provided a comprehensive analysis of the competitive landscape in the global electric vehicle motor market. Detailed profiles of all major companies have been provided. Some of the companies covered include ABB Ltd., BorgWarner Inc., Continental AG, Hitachi Astemo Ltd. (Hitachi Ltd.), Mitsubishi Electric Corporation, Robert Bosch GmbH, etc. Kindly note that this only represents a partial list of companies, and the complete list has been provided in the report.

Key Questions Answered in This Report:

How has the global electric vehicle motor market performed so far, and how will it perform in the coming years?

What are the drivers, restraints, and opportunities in the global electric vehicle motor market?

What is the impact of each driver, restraint, and opportunity on the global electric vehicle motor market?

What are the key regional markets?

Which countries represent the most attractive electric vehicle motor market?

What is the breakup of the market based on the power rating?

Which is the most attractive power rating in the electric vehicle motor market?

What is the breakup of the market based on the application?

Which is the most attractive application in the electric vehicle motor market?

What is the competitive structure of the global electric vehicle motor market?

Who are the key players/companies in the global electric vehicle motor market?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

5 GLOBAL ELECTRIC VEHICLE MOTOR MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

6 MARKET BREAKUP BY POWER RATING

- 6.1 Up to 20 kW
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
- 6.2 20 kW to 100 kW
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast
- 6.3 100 kW to 250 kW

- 6.3.1 Market Trends
- 6.3.2 Market Forecast
- 6.4 Above 250 kW
 - 6.4.1 Market Trends
 - 6.4.2 Market Forecast

7 MARKET BREAKUP BY APPLICATION

- 7.1 Two Wheeler
 - 7.1.1 Market Trends
 - 7.1.2 Market Forecast
- 7.2 Three Wheeler
 - 7.2.1 Market Trends
 - 7.2.2 Market Forecast
- 7.3 Passenger Vehicle
 - 7.3.1 Market Trends
 - 7.3.2 Key Segments
 - 7.3.2.1 BEV
 - 7.3.2.2 Hybrid
 - 7.3.3 Market Forecast
- 7.4 Commercial Vehicle
 - 7.4.1 Market Trends
 - 7.4.2 Key Segments
 - 7.4.2.1 BEV
 - 7.4.2.2 Hybrid
 - 7.4.3 Market Forecast

8 MARKET BREAKUP BY REGION

- 8.1 North America
 - 8.1.1 United States
 - 8.1.1.1 Market Trends
 - 8.1.1.2 Market Forecast
 - 8.1.2 Canada
 - 8.1.2.1 Market Trends
 - 8.1.2.2 Market Forecast
- 8.2 Asia-Pacific
 - 8.2.1 China
 - 8.2.1.1 Market Trends

- 8.2.1.2 Market Forecast
- 8.2.2 Japan
 - 8.2.2.1 Market Trends
 - 8.2.2.2 Market Forecast
- 8.2.3 India
 - 8.2.3.1 Market Trends
 - 8.2.3.2 Market Forecast
- 8.2.4 South Korea
 - 8.2.4.1 Market Trends
 - 8.2.4.2 Market Forecast
- 8.2.5 Australia
 - 8.2.5.1 Market Trends
 - 8.2.5.2 Market Forecast
- 8.2.6 Indonesia
 - 8.2.6.1 Market Trends
 - 8.2.6.2 Market Forecast
- 8.2.7 Others
 - 8.2.7.1 Market Trends
 - 8.2.7.2 Market Forecast
- 8.3 Europe
 - 8.3.1 Germany
 - 8.3.1.1 Market Trends
 - 8.3.1.2 Market Forecast
 - 8.3.2 France
 - 8.3.2.1 Market Trends
 - 8.3.2.2 Market Forecast
 - 8.3.3 United Kingdom
 - 8.3.3.1 Market Trends
 - 8.3.3.2 Market Forecast
 - 8.3.4 Italy
 - 8.3.4.1 Market Trends
 - 8.3.4.2 Market Forecast
 - 8.3.5 Spain
 - 8.3.5.1 Market Trends
 - 8.3.5.2 Market Forecast
 - 8.3.6 Russia
 - 8.3.6.1 Market Trends
 - 8.3.6.2 Market Forecast
 - 8.3.7 Others

8.3.7.1 Market Trends

8.3.7.2 Market Forecast

8.4 Latin America

8.4.1 Brazil

8.4.1.1 Market Trends

8.4.1.2 Market Forecast

8.4.2 Mexico

8.4.2.1 Market Trends

8.4.2.2 Market Forecast

8.4.3 Others

8.4.3.1 Market Trends

8.4.3.2 Market Forecast

8.5 Middle East and Africa

8.5.1 Market Trends

8.5.2 Market Breakup by Country

8.5.3 Market Forecast

9 DRIVERS, RESTRAINTS, AND OPPORTUNITIES

9.1 Overview

9.2 Drivers

9.3 Restraints

9.4 Opportunities

10 VALUE CHAIN ANALYSIS

11 PORTERS FIVE FORCES ANALYSIS

11.1 Overview

11.2 Bargaining Power of Buyers

11.3 Bargaining Power of Suppliers

11.4 Degree of Competition

11.5 Threat of New Entrants

11.6 Threat of Substitutes

12 PRICE ANALYSIS

13 COMPETITIVE LANDSCAPE

13.1 Market Structure

13.2 Key Players

13.3 Profiles of Key Players

13.3.1 ABB Ltd.

13.3.1.1 Company Overview

13.3.1.2 Product Portfolio

13.3.2 BorgWarner Inc.

13.3.2.1 Company Overview

13.3.2.2 Product Portfolio

13.3.3 Continental AG

13.3.3.1 Company Overview

13.3.3.2 Product Portfolio

13.3.4 Hitachi Astemo Ltd. (Hitachi Ltd.)

13.3.4.1 Company Overview

13.3.4.2 Product Portfolio

13.3.5 Mitsubishi Electric Corporation

13.3.5.1 Company Overview

13.3.5.2 Product Portfolio

13.3.6 Robert Bosch GmbH

13.3.6.1 Company Overview

13.3.6.2 Product Portfolio

Kindly note that this only represents a partial list of companies, and the complete list has been provided in the report.

List Of Tables

LIST OF TABLES

Table 1: Global: Electric Vehicle Motor Market: Key Industry Highlights, 2023 & 2032

Table 2: Global: Electric Vehicle Motor Market Forecast: Breakup by Power Rating (in Million US\$), 2024-2032

Table 3: Global: Electric Vehicle Motor Market Forecast: Breakup by Application (in Million US\$), 2024-2032

Table 4: Global: Electric Vehicle Motor Market Forecast: Breakup by Region (in Million US\$), 2024-2032

Table 5: Global: Electric Vehicle Motor Market: Competitive Structure

Table 6: Global: Electric Vehicle Motor Market: Key Players

List Of Figures

LIST OF FIGURES

- Figure 1: Global: Electric Vehicle Motor Market: Major Drivers and Challenges
- Figure 2: Global: Electric Vehicle Motor Market: Sales Value (in Million US\$), 2018-2023
- Figure 3: Global: Electric Vehicle Motor Market Forecast: Sales Value (in Million US\$), 2024-2032
- Figure 4: Global: Electric Vehicle Motor Market: Breakup by Power Rating (in %), 2023
- Figure 5: Global: Electric Vehicle Motor Market: Breakup by Application (in %), 2023
- Figure 6: Global: Electric Vehicle Motor Market: Breakup by Region (in %), 2023
- Figure 7: Global: Electric Vehicle Motor (Up to 20 kW) Market: Sales Value (in Million US\$), 2018 & 2023
- Figure 8: Global: Electric Vehicle Motor (Up to 20 kW) Market Forecast: Sales Value (in Million US\$), 2024-2032
- Figure 9: Global: Electric Vehicle Motor (20 kW to 100 kW) Market: Sales Value (in Million US\$), 2018 & 2023
- Figure 10: Global: Electric Vehicle Motor (20 kW to 100 kW) Market Forecast: Sales Value (in Million US\$), 2024-2032
- Figure 11: Global: Electric Vehicle Motor (100 kW to 250 kW) Market: Sales Value (in Million US\$), 2018 & 2023
- Figure 12: Global: Electric Vehicle Motor (100 kW to 250 kW) Market Forecast: Sales Value (in Million US\$), 2024-2032
- Figure 13: Global: Electric Vehicle Motor (Above 250 kW) Market: Sales Value (in Million US\$), 2018 & 2023
- Figure 14: Global: Electric Vehicle Motor (Above 250 kW) Market Forecast: Sales Value (in Million US\$), 2024-2032
- Figure 15: Global: Electric Vehicle Motor (Two Wheeler) Market: Sales Value (in Million US\$), 2018 & 2023
- Figure 16: Global: Electric Vehicle Motor (Two Wheeler) Market Forecast: Sales Value (in Million US\$), 2024-2032
- Figure 17: Global: Electric Vehicle Motor (Three Wheeler) Market: Sales Value (in Million US\$), 2018 & 2023
- Figure 18: Global: Electric Vehicle Motor (Three Wheeler) Market Forecast: Sales Value (in Million US\$), 2024-2032
- Figure 19: Global: Electric Vehicle Motor (Passenger Vehicle) Market: Sales Value (in Million US\$), 2018 & 2023
- Figure 20: Global: Electric Vehicle Motor (Passenger Vehicle) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 21: Global: Electric Vehicle Motor (Commercial Vehicle) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 22: Global: Electric Vehicle Motor (Commercial Vehicle) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 23: North America: Electric Vehicle Motor Market: Sales Value (in Million US\$), 2018 & 2023

Figure 24: North America: Electric Vehicle Motor Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 25: United States: Electric Vehicle Motor Market: Sales Value (in Million US\$), 2018 & 2023

Figure 26: United States: Electric Vehicle Motor Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 27: Canada: Electric Vehicle Motor Market: Sales Value (in Million US\$), 2018 & 2023

Figure 28: Canada: Electric Vehicle Motor Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 29: Asia-Pacific: Electric Vehicle Motor Market: Sales Value (in Million US\$), 2018 & 2023

Figure 30: Asia-Pacific: Electric Vehicle Motor Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 31: China: Electric Vehicle Motor Market: Sales Value (in Million US\$), 2018 & 2023

Figure 32: China: Electric Vehicle Motor Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 33: Japan: Electric Vehicle Motor Market: Sales Value (in Million US\$), 2018 & 2023

Figure 34: Japan: Electric Vehicle Motor Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 35: India: Electric Vehicle Motor Market: Sales Value (in Million US\$), 2018 & 2023

Figure 36: India: Electric Vehicle Motor Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 37: South Korea: Electric Vehicle Motor Market: Sales Value (in Million US\$), 2018 & 2023

Figure 38: South Korea: Electric Vehicle Motor Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 39: Australia: Electric Vehicle Motor Market: Sales Value (in Million US\$), 2018 & 2023

Figure 40: Australia: Electric Vehicle Motor Market Forecast: Sales Value (in Million

US\$), 2024-2032

Figure 41: Indonesia: Electric Vehicle Motor Market: Sales Value (in Million US\$), 2018 & 2023

Figure 42: Indonesia: Electric Vehicle Motor Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 43: Others: Electric Vehicle Motor Market: Sales Value (in Million US\$), 2018 & 2023

Figure 44: Others: Electric Vehicle Motor Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 45: Europe: Electric Vehicle Motor Market: Sales Value (in Million US\$), 2018 & 2023

Figure 46: Europe: Electric Vehicle Motor Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 47: Germany: Electric Vehicle Motor Market: Sales Value (in Million US\$), 2018 & 2023

Figure 48: Germany: Electric Vehicle Motor Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 49: France: Electric Vehicle Motor Market: Sales Value (in Million US\$), 2018 & 2023

Figure 50: France: Electric Vehicle Motor Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 51: United Kingdom: Electric Vehicle Motor Market: Sales Value (in Million US\$), 2018 & 2023

Figure 52: United Kingdom: Electric Vehicle Motor Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 53: Italy: Electric Vehicle Motor Market: Sales Value (in Million US\$), 2018 & 2023

Figure 54: Italy: Electric Vehicle Motor Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 55: Spain: Electric Vehicle Motor Market: Sales Value (in Million US\$), 2018 & 2023

Figure 56: Spain: Electric Vehicle Motor Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 57: Russia: Electric Vehicle Motor Market: Sales Value (in Million US\$), 2018 & 2023

Figure 58: Russia: Electric Vehicle Motor Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 59: Others: Electric Vehicle Motor Market: Sales Value (in Million US\$), 2018 & 2023

Figure 60: Others: Electric Vehicle Motor Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 61: Latin America: Electric Vehicle Motor Market: Sales Value (in Million US\$), 2018 & 2023

Figure 62: Latin America: Electric Vehicle Motor Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 63: Brazil: Electric Vehicle Motor Market: Sales Value (in Million US\$), 2018 & 2023

Figure 64: Brazil: Electric Vehicle Motor Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 65: Mexico: Electric Vehicle Motor Market: Sales Value (in Million US\$), 2018 & 2023

Figure 66: Mexico: Electric Vehicle Motor Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 67: Others: Electric Vehicle Motor Market: Sales Value (in Million US\$), 2018 & 2023

Figure 68: Others: Electric Vehicle Motor Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 69: Middle East and Africa: Electric Vehicle Motor Market: Sales Value (in Million US\$), 2018 & 2023

Figure 70: Middle East and Africa: Electric Vehicle Motor Market: Breakup by Country (in %), 2023

Figure 71: Middle East and Africa: Electric Vehicle Motor Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 72: Global: Electric Vehicle Motor Industry: Drivers, Restraints, and Opportunities

Figure 73: Global: Electric Vehicle Motor Industry: Value Chain Analysis

Figure 74: Global: Electric Vehicle Motor Industry: Porter's Five Forces Analysis

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