

Global Automotive Motor Controllers Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Automotive Motor Controllers market size is expected to reach \$ 6491 million by 2032, rising at a market growth of 2.4% CAGR during the forecast period (2026-2032).

Automotive Motor Controllers are automotive-grade power-electronic control systems used to regulate the torque, speed, direction and energy flow of electric traction motors in electrified vehicles. The research scope focuses on drive-motor controllers used in BEVs, HEVs, PHEVs, range-extended vehicles and electrified commercial vehicles, covering standalone motor controllers, traction inverters, dual-motor controllers and controllers integrated into 3-in-1 or multi-in-1 electric-drive systems. These products typically integrate power semiconductor stages based on IGBT or SiC MOSFET technology, gate drivers, DC-link capacitors, current and voltage sensing, real-time control processors, motor-position interfaces, communication circuits, thermal management and functional-safety mechanisms. During propulsion, Automotive Motor Controllers convert battery DC power into controlled multiphase AC power for the traction motor; during regenerative braking, they manage reverse energy flow back to the battery. The studied products primarily serve passenger EVs, hybrid vehicles, electric buses, trucks and other electrified road vehicles, with 400V and 800V high-voltage architectures representing major current development platforms.

Key Findings

Mainstream 400V traction motor controllers are modeled around US\$600–1,000 per unit, while 800V SiC products generally command higher value

400V and 800V architectures are the principal high-voltage platforms for current Automotive Motor Controllers

SiC power electronics are becoming increasingly important in high-voltage and high-power traction inverter designs

Automotive Motor Controllers are shifting from standalone units toward 3-in-1, multi-in-1 and dual-motor electric-drive architectures

Competition spans global Tier 1 suppliers, Chinese independent electric-drive manufacturers and vertically integrated vehicle groups

In 2025, global automotive motor controllers average price is 980 usd/unit

Market Trends

Automotive Motor Controllers are undergoing a structural transition from standalone inverter hardware toward highly integrated, software-defined electric-drive platforms. The first major direction is the migration from conventional 400V architectures toward 800V systems in vehicles that prioritize high charging power, higher electric-drive efficiency and increased power density. The second is the continued adoption of SiC MOSFET technology in place of or alongside silicon IGBT solutions, particularly in premium 800V applications where switching losses, thermal performance and packaging density are increasingly important. Bosch's current fourth-generation inverter platform supports both 400V and 800V systems and incorporates SiC technologies, while Valeo's 800V SiC inverter platform covers peak power from 150 to 350 kW and reports peak efficiency above 99% under specified conditions. The third direction is system integration: motor controllers are increasingly combined with motors, reducers, onboard chargers, DC/DC converters, PDUs and vehicle-domain functions. Valeo's 3-in-1 eAxe integrates motor, inverter and reducer, while Inovance Automotive's latest commercial-vehicle platforms integrate traction control, DC/DC, PDU, BDU and other functions into X-in-1 architectures. This transition moves competitive differentiation away from power hardware alone toward coordinated hardware, embedded software, thermal management, functional safety and electric-drive system engineering.

Market Dynamics

Drivers

The fundamental growth driver for Automotive Motor Controllers is the continuing electrification of passenger and commercial vehicle powertrains. Every traction motor requires an electronic power-control stage capable of converting battery DC power into precisely controlled AC power and managing regenerative energy flow, making the controller one of the essential components of an electrified propulsion system. Increasing vehicle power requirements and higher-voltage platforms further increase the technical content of the controller. Valeo's current 800V SiC inverter supports applications ranging from passenger cars to buses and trucks, while Bosch is developing electric-drive solutions up to 800V for multiple vehicle architectures. Functional-safety requirements also support technology upgrading because traction control directly affects vehicle propulsion and torque generation. NXP's current 800V SiC traction-inverter reference design targets ASIL D applications, illustrating the increasing integration of real-time control, safety diagnostics, gate driving and inverter-management software.

Restraints

The principal constraints are cost, engineering complexity and the accelerating performance requirements placed on high-voltage power electronics. Moving from a conventional silicon-based 400V inverter to an 800V SiC architecture requires higher-performance semiconductor devices, gate-driving circuits, insulation systems, DC-link components, sensors, cooling solutions and electromagnetic-compatibility engineering. SiC can lower switching losses and improve power density, but the economics of the complete inverter still depend on device cost, module packaging, thermal design and manufacturing yield. Bosch's inverter-related power-module technology illustrates the required current capability, reaching up to 800 ARMS for certain 400V configurations and up to 600 ARMS for 800V designs, which places substantial requirements on electrical interconnection and heat dissipation. Automotive qualification cycles, functional-safety validation, software calibration and OEM-specific motor matching also create high development barriers and make rapid product substitution more difficult than in general-purpose industrial motor-control markets.

Opportunities

The strongest opportunities are concentrated in 800V SiC platforms, multi-motor control, commercial-vehicle electrification and increasingly integrated electric-drive

architectures. As OEMs seek greater power density and system efficiency, suppliers that can combine inverter, motor, reducer and additional power-electronic functions can capture more system value than vendors supplying a standalone controller. Valeo has already commercialized scalable 400–800V inverter architectures and has announced dual-inverter programs capable of covering both voltage platforms, illustrating how dual-motor and platform-standardized designs can reduce development complexity for vehicle manufacturers. Commercial vehicles offer another important engineering opportunity because higher continuous power, long operating cycles and demanding durability requirements increase the value of thermal management, control precision and system reliability. Chinese suppliers are also extending this integration model into heavy-duty vehicles; Inovance Automotive's latest heavy-truck inverter platform integrates dual traction-motor control together with several high-voltage power functions.

Challenges

Automotive Motor Controllers face a combination of technical, commercial and supply-chain challenges. Hardware must simultaneously achieve high efficiency, high power density, low electromagnetic interference, safe high-voltage isolation and stable operation over severe automotive temperature and vibration conditions, while software must provide precise torque control, fault response, diagnostics, cybersecurity and functional safety. As 800V SiC systems become more common, switching speed increases and places greater demands on busbar inductance, gate-drive control, insulation design and EMI suppression. At the same time, OEMs are moving toward platform-based and highly integrated electric drives, potentially reducing the addressable market for suppliers that compete only in standalone motor controllers. The market also includes multiple business models—independent Tier 1 suppliers, integrated eDrive manufacturers and vehicle groups with captive controller production—creating meaningful differences in accessible merchant-market demand. Suppliers therefore need to balance component sourcing, software ownership, customer customization, production scale and long-term automotive qualification while avoiding excessive dependence on individual OEM platforms.

Industry Chain Analysis

The upstream Automotive Motor Controllers value chain starts with semiconductor and electronic materials, including silicon wafers, SiC substrates and epitaxy, copper,

aluminum, ceramic substrates, engineering plastics, insulation and thermal-interface materials. These feed into IGBT and SiC MOSFET dies and modules, automotive real-time controllers, gate-driver ICs, current and voltage sensors, DC-link film capacitors, busbars, PCB assemblies, connectors, resolver interfaces and cooling components. Power semiconductors represent one of the most technically important upstream elements because switching losses, current capability and operating temperature directly influence inverter efficiency and package size. Current 400–800V traction platforms increasingly use SiC to improve switching performance and power density; Bosch and Valeo both offer SiC-based high-voltage inverter technologies, while NXP's 800V reference architecture combines control, safety and gate-driving electronics around SiC traction power stages.

The midstream consists of Automotive Motor Controllers manufacturers responsible for power-stage design, control-board engineering, motor algorithms, embedded software, functional safety, EMC, thermal management, mechanical packaging, manufacturing and end-of-line testing. Downstream, the controller is paired with a traction motor and usually a reduction gearbox to form an electric-drive unit or eAxle; increasingly, OBC, DC/DC, PDU and additional vehicle-control functions are integrated into the same assembly. Bosch, Valeo and other established suppliers already market integrated electric-drive architectures, while Chinese manufacturers such as Inovance Automotive are developing X-in-1 platforms. The final systems enter BEVs, HEVs, PHEVs, range-extended vehicles, electric buses and trucks. Value creation is progressively shifting from basic inverter assembly toward semiconductor integration, motor-control software, thermal optimization, system integration and functional-safety engineering.

Segment Insights

By voltage architecture, Automotive Motor Controllers can be divided into low-voltage auxiliary controllers, 48V electrification systems and high-voltage traction controllers centered on 400V and 800V platforms. The 400V architecture remains highly relevant because it offers mature semiconductor sourcing, proven vehicle integration and competitive system cost, while 800V represents the main high-performance development direction for vehicles emphasizing charging capability, efficiency and power density. Bosch's latest inverter platform supports both 400V and 800V, and Valeo similarly operates scalable inverter architectures across the two voltage classes. By semiconductor technology, silicon IGBT remains commercially important, particularly in cost-sensitive platforms, while SiC MOSFET is gaining strategic importance in 800V and high-performance applications. By product architecture, the market is progressing

from standalone inverter modules to integrated motor-inverter assemblies, 3-in-1 eAxles, dual inverters and multi-in-1 systems. This integration reduces cabling and packaging complexity and allows closer optimization of motor, inverter, gearbox and thermal management. Consequently, the higher-value segment is increasingly defined not only by controller power rating but by software capability, semiconductor technology, integration level and overall electric-drive efficiency.

Downstream Market Opportunities

Passenger BEVs constitute a core application for Automotive Motor Controllers, but the opportunity base extends across PHEVs, HEVs, range-extended vehicles and increasingly electric commercial vehicles. Premium and performance-oriented passenger vehicles provide opportunities for 800V SiC controllers and dual-motor architectures, while mass-market EVs create demand for standardized, cost-efficient 400V platforms. Hybrid vehicles require controllers optimized for power-split and multiple motor-generator configurations, creating different control requirements from pure BEVs. Commercial vehicles—including buses, delivery vehicles and heavy trucks—create another attractive segment because higher operating hours and continuous power requirements make inverter efficiency, cooling and durability particularly valuable. Valeo's high-voltage inverter portfolio explicitly spans passenger cars, buses and trucks, while Bosch develops dedicated electric-drive components for commercial vehicles. As vehicle architectures become more integrated, downstream opportunities also shift from supplying an individual controller toward delivering complete electric-drive and power-electronics subsystems.

Regional Insights

The confirmed supplier base shows a multi-regional competitive structure rather than a single geographic production center. Europe has a dense concentration of established automotive power-electronics suppliers, including AUMOVIO, Bosch, ZF, Schaeffler and Valeo, with strong emphasis on 400V/800V scalability, SiC adoption, functional safety and integrated electric-drive architectures. Schaeffler began volume production of a high-voltage inverter brick in Tianjin in 2025 using SiC technology, illustrating both the European technology base and increasing localization of production in China. Japan and Korea contribute established automotive Tier 1 capabilities through DENSO, AISIN, Astemo, NIDEC and Hyundai Mobis, particularly in PCUs, inverters and integrated eAxles. China has developed a broad independent and captive Automotive Motor

Controllers ecosystem spanning Inovance Automotive, CRRC Times Electric, Jing-Jin Electric, Enpower, VREMT and other confirmed suppliers, while BYD and NIO/XPT represent vertically integrated vehicle-group models. Chinese suppliers are increasingly extending from standalone controllers into SiC and X-in-1 architectures, as demonstrated by current Inovance commercial-vehicle platforms. North America remains important through BorgWarner, Magna and Dana TM4 and through the regional manufacturing footprints of global suppliers.

Competitive Landscape Analysis

The Automotive Motor Controllers market has a layered competitive structure defined by engineering depth, automotive qualification, semiconductor strategy, software capability and vertical integration. Global Tier 1 suppliers such as Bosch, BorgWarner, ZF, Schaeffler, DENSO, Hyundai Mobis, Valeo, Magna and Dana TM4 compete through long OEM relationships, scalable global manufacturing, functional-safety engineering and increasingly integrated eDrive platforms. Chinese independent suppliers including Inovance Automotive, Jing-Jin Electric, CRRC Times Electric, Enpower, JEE, Sungrow ePower and other confirmed manufacturers compete through rapid engineering cycles, localization, high integration and expanding production scale, while BYD, VREMT and XPT represent captive or ecosystem-based electric-drive models that combine vehicle development with internally controlled motor-controller technologies. Product competition is moving from basic conversion efficiency toward SiC utilization, 400V/800V common platforms, dual-motor control, software integration, compact thermal design and multi-in-1 architectures. Valeo's scalable 400–800V strategy, Bosch's fourth-generation inverter and Schaeffler's SiC high-voltage production ramp illustrate the direction of competition among international suppliers.

Report Scope

This report studies the global Automotive Motor Controllers production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Automotive Motor Controllers and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Automotive Motor Controllers that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Automotive Motor Controllers total production and demand, 2021-2032, (K Units)

Global Automotive Motor Controllers total production value, 2021-2032, (USD Million)

Global Automotive Motor Controllers production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Automotive Motor Controllers consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Automotive Motor Controllers domestic production, consumption, key domestic manufacturers and share

Global Automotive Motor Controllers production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Automotive Motor Controllers production by Voltage, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Automotive Motor Controllers production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Automotive Motor Controllers market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include AUMOVIO SE, United Automotive Electronic Systems Co., Ltd., Robert Bosch GmbH, BorgWarner Inc., DENSO Corporation, Hyundai Mobis Co., Ltd., BYD Company Limited, ZF Friedrichshafen AG, Schaeffler AG, AISIN Corporation, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Automotive Motor Controllers market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Voltage, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Automotive Motor Controllers Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Automotive Motor Controllers Market, Segmentation by Voltage:

48V Motor Controllers

400V Motor Controllers

800V Motor Controllers

Global Automotive Motor Controllers Market, Segmentation by Materials:

Si IGBT Motor Controllers

Si MOSFET Motor Controllers

SiC MOSFET Motor Controllers

Global Automotive Motor Controllers Market, Segmentation by Power:

PMSM Motor Controllers

Induction Motor Controllers

EESM Motor Controllers

BLDC Motor Controllers

Global Automotive Motor Controllers Market, Segmentation by Application:

Battery Electric Vehicles

Hybrid Electric Vehicles

Plug-in Hybrid Electric Vehicles

Extended-Range Electric Vehicles

Others

Companies Profiled:

AUMOVIO SE

United Automotive Electronic Systems Co., Ltd.

Robert Bosch GmbH

BorgWarner Inc.

DENSO Corporation

Hyundai Mobis Co., Ltd.

BYD Company Limited

ZF Friedrichshafen AG

Schaeffler AG

AISIN Corporation

Astemo, Ltd.

NIDEC Corporation

Valeo SE

Magna International Inc.

Dana TM4 Inc.

Suzhou Inovance Automotive Co., Ltd.

Jing-Jin Electric Technologies Co., Ltd.

Zhuzhou CRRC Times Electric Co., Ltd.

Huawei Digital Power Technologies Co., Ltd.

Zhongshan Broad-Ocean Motor Co., Ltd.

Zhuhai Enpower Electric Co., Ltd.

JEE Technology Co., Ltd.

Shenzhen INVT Electric Vehicle Drive Technology Co., Ltd.

Hefei Sungrow ePower Technology Co., Ltd.

Shenzhen V&T Technologies Co., Ltd.

Beijing BIT Huachuang Electric Vehicle Technology Co., Ltd.

Viridi E-Mobility Technology (Ningbo) Co., Ltd.

XPT

Zhixin Control System Co., Ltd.

Shanghai Dajun Technologies, Inc.

Key Questions Answered

1. How big is the global Automotive Motor Controllers market?
2. What is the demand of the global Automotive Motor Controllers market?
3. What is the year over year growth of the global Automotive Motor Controllers market?
4. What is the total value of the global Automotive Motor Controllers market?
5. Who are the Major Players in the global Automotive Motor Controllers market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Automotive Motor Controllers Introduction
- 1.2 World Automotive Motor Controllers Supply & Forecast
 - 1.2.1 World Automotive Motor Controllers Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Automotive Motor Controllers Production (2021-2032)
 - 1.2.3 World Automotive Motor Controllers Pricing Trends (2021-2032)
- 1.3 World Automotive Motor Controllers Production by Region (Based on Production Site)
 - 1.3.1 World Automotive Motor Controllers Production Value by Region (2021-2032)
 - 1.3.2 World Automotive Motor Controllers Production by Region (2021-2032)
 - 1.3.3 World Automotive Motor Controllers Average Price by Region (2021-2032)
 - 1.3.4 North America Automotive Motor Controllers Production (2021-2032)
 - 1.3.5 Europe Automotive Motor Controllers Production (2021-2032)
 - 1.3.6 China Automotive Motor Controllers Production (2021-2032)
 - 1.3.7 Japan Automotive Motor Controllers Production (2021-2032)
 - 1.3.8 South Korea Automotive Motor Controllers Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Automotive Motor Controllers Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Automotive Motor Controllers Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Automotive Motor Controllers Demand (2021-2032)
- 2.2 World Automotive Motor Controllers Consumption by Region
 - 2.2.1 World Automotive Motor Controllers Consumption by Region (2021-2026)
 - 2.2.2 World Automotive Motor Controllers Consumption Forecast by Region (2027-2032)
- 2.3 United States Automotive Motor Controllers Consumption (2021-2032)
- 2.4 China Automotive Motor Controllers Consumption (2021-2032)
- 2.5 Europe Automotive Motor Controllers Consumption (2021-2032)
- 2.6 Japan Automotive Motor Controllers Consumption (2021-2032)
- 2.7 South Korea Automotive Motor Controllers Consumption (2021-2032)
- 2.8 ASEAN Automotive Motor Controllers Consumption (2021-2032)
- 2.9 India Automotive Motor Controllers Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Automotive Motor Controllers Production Value by Manufacturer (2021-2026)
- 3.2 World Automotive Motor Controllers Production by Manufacturer (2021-2026)
- 3.3 World Automotive Motor Controllers Average Price by Manufacturer (2021-2026)
- 3.4 Automotive Motor Controllers Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Automotive Motor Controllers Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Automotive Motor Controllers in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Automotive Motor Controllers in 2025
- 3.6 Automotive Motor Controllers Market: Overall Company Footprint Analysis
 - 3.6.1 Automotive Motor Controllers Market: Region Footprint
 - 3.6.2 Automotive Motor Controllers Market: Company Product Type Footprint
 - 3.6.3 Automotive Motor Controllers Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Automotive Motor Controllers Production Value Comparison
 - 4.1.1 United States VS China: Automotive Motor Controllers Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Automotive Motor Controllers Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Automotive Motor Controllers Production Comparison
 - 4.2.1 United States VS China: Automotive Motor Controllers Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Automotive Motor Controllers Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Automotive Motor Controllers Consumption Comparison
 - 4.3.1 United States VS China: Automotive Motor Controllers Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Automotive Motor Controllers Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Automotive Motor Controllers Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Automotive Motor Controllers Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Automotive Motor Controllers Production Value (2021-2026)

4.4.3 United States Based Manufacturers Automotive Motor Controllers Production (2021-2026)

4.5 China Based Automotive Motor Controllers Manufacturers and Market Share

4.5.1 China Based Automotive Motor Controllers Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Automotive Motor Controllers Production Value (2021-2026)

4.5.3 China Based Manufacturers Automotive Motor Controllers Production (2021-2026)

4.6 Rest of World Based Automotive Motor Controllers Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Automotive Motor Controllers Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Automotive Motor Controllers Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Automotive Motor Controllers Production (2021-2026)

5 MARKET ANALYSIS BY VOLTAGE

5.1 World Automotive Motor Controllers Market Size Overview by Voltage: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Voltage

5.2.1 48V Motor Controllers

5.2.2 400V Motor Controllers

5.2.3 800V Motor Controllers

5.3 Market Segment by Voltage

5.3.1 World Automotive Motor Controllers Production by Voltage (2021-2032)

5.3.2 World Automotive Motor Controllers Production Value by Voltage (2021-2032)

5.3.3 World Automotive Motor Controllers Average Price by Voltage (2021-2032)

6 MARKET ANALYSIS BY MATERIALS

6.1 World Automotive Motor Controllers Market Size Overview by Materials: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Materials

6.2.1 Si IGBT Motor Controllers

6.2.2 Si MOSFET Motor Controllers

6.2.3 SiC MOSFET Motor Controllers

6.3 Market Segment by Materials

6.3.1 World Automotive Motor Controllers Production by Materials (2021-2032)

6.3.2 World Automotive Motor Controllers Production Value by Materials (2021-2032)

6.3.3 World Automotive Motor Controllers Average Price by Materials (2021-2032)

7 MARKET ANALYSIS BY POWER

7.1 World Automotive Motor Controllers Market Size Overview by Power: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Power

7.2.1 PMSM Motor Controllers

7.2.2 Induction Motor Controllers

7.2.3 EESM Motor Controllers

7.2.4 BLDC Motor Controllers

7.3 Market Segment by Power

7.3.1 World Automotive Motor Controllers Production by Power (2021-2032)

7.3.2 World Automotive Motor Controllers Production Value by Power (2021-2032)

7.3.3 World Automotive Motor Controllers Average Price by Power (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Automotive Motor Controllers Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Battery Electric Vehicles

8.2.2 Hybrid Electric Vehicles

8.2.3 Plug-in Hybrid Electric Vehicles

8.2.4 Extended-Range Electric Vehicles

8.2.5 Others

8.3 Market Segment by Application

8.3.1 World Automotive Motor Controllers Production by Application (2021-2032)

8.3.2 World Automotive Motor Controllers Production Value by Application (2021-2032)

8.3.3 World Automotive Motor Controllers Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 AUMOVIO SE

9.1.1 AUMOVIO SE Details

9.1.2 AUMOVIO SE Major Business

9.1.3 AUMOVIO SE Automotive Motor Controllers Product and Services

9.1.4 AUMOVIO SE Automotive Motor Controllers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 AUMOVIO SE Recent Developments/Updates

9.1.6 AUMOVIO SE Competitive Strengths & Weaknesses

9.2 United Automotive Electronic Systems Co., Ltd.

9.2.1 United Automotive Electronic Systems Co., Ltd. Details

9.2.2 United Automotive Electronic Systems Co., Ltd. Major Business

9.2.3 United Automotive Electronic Systems Co., Ltd. Automotive Motor Controllers Product and Services

9.2.4 United Automotive Electronic Systems Co., Ltd. Automotive Motor Controllers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 United Automotive Electronic Systems Co., Ltd. Recent Developments/Updates

9.2.6 United Automotive Electronic Systems Co., Ltd. Competitive Strengths & Weaknesses

9.3 Robert Bosch GmbH

9.3.1 Robert Bosch GmbH Details

9.3.2 Robert Bosch GmbH Major Business

9.3.3 Robert Bosch GmbH Automotive Motor Controllers Product and Services

9.3.4 Robert Bosch GmbH Automotive Motor Controllers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Robert Bosch GmbH Recent Developments/Updates

9.3.6 Robert Bosch GmbH Competitive Strengths & Weaknesses

9.4 BorgWarner Inc.

9.4.1 BorgWarner Inc. Details

9.4.2 BorgWarner Inc. Major Business

9.4.3 BorgWarner Inc. Automotive Motor Controllers Product and Services

9.4.4 BorgWarner Inc. Automotive Motor Controllers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 BorgWarner Inc. Recent Developments/Updates

9.4.6 BorgWarner Inc. Competitive Strengths & Weaknesses

9.5 DENSO Corporation

- 9.5.1 DENSO Corporation Details
- 9.5.2 DENSO Corporation Major Business
- 9.5.3 DENSO Corporation Automotive Motor Controllers Product and Services
- 9.5.4 DENSO Corporation Automotive Motor Controllers Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.5.5 DENSO Corporation Recent Developments/Updates
- 9.5.6 DENSO Corporation Competitive Strengths & Weaknesses
- 9.6 Hyundai Mobis Co., Ltd.
- 9.6.1 Hyundai Mobis Co., Ltd. Details
- 9.6.2 Hyundai Mobis Co., Ltd. Major Business
- 9.6.3 Hyundai Mobis Co., Ltd. Automotive Motor Controllers Product and Services
- 9.6.4 Hyundai Mobis Co., Ltd. Automotive Motor Controllers Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.6.5 Hyundai Mobis Co., Ltd. Recent Developments/Updates
- 9.6.6 Hyundai Mobis Co., Ltd. Competitive Strengths & Weaknesses
- 9.7 BYD Company Limited
- 9.7.1 BYD Company Limited Details
- 9.7.2 BYD Company Limited Major Business
- 9.7.3 BYD Company Limited Automotive Motor Controllers Product and Services
- 9.7.4 BYD Company Limited Automotive Motor Controllers Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.7.5 BYD Company Limited Recent Developments/Updates
- 9.7.6 BYD Company Limited Competitive Strengths & Weaknesses
- 9.8 ZF Friedrichshafen AG
- 9.8.1 ZF Friedrichshafen AG Details
- 9.8.2 ZF Friedrichshafen AG Major Business
- 9.8.3 ZF Friedrichshafen AG Automotive Motor Controllers Product and Services
- 9.8.4 ZF Friedrichshafen AG Automotive Motor Controllers Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.8.5 ZF Friedrichshafen AG Recent Developments/Updates
- 9.8.6 ZF Friedrichshafen AG Competitive Strengths & Weaknesses
- 9.9 Schaeffler AG
- 9.9.1 Schaeffler AG Details
- 9.9.2 Schaeffler AG Major Business
- 9.9.3 Schaeffler AG Automotive Motor Controllers Product and Services
- 9.9.4 Schaeffler AG Automotive Motor Controllers Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.9.5 Schaeffler AG Recent Developments/Updates
- 9.9.6 Schaeffler AG Competitive Strengths & Weaknesses

9.10 AISIN Corporation

9.10.1 AISIN Corporation Details

9.10.2 AISIN Corporation Major Business

9.10.3 AISIN Corporation Automotive Motor Controllers Product and Services

9.10.4 AISIN Corporation Automotive Motor Controllers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 AISIN Corporation Recent Developments/Updates

9.10.6 AISIN Corporation Competitive Strengths & Weaknesses

9.11 Astemo, Ltd.

9.11.1 Astemo, Ltd. Details

9.11.2 Astemo, Ltd. Major Business

9.11.3 Astemo, Ltd. Automotive Motor Controllers Product and Services

9.11.4 Astemo, Ltd. Automotive Motor Controllers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Astemo, Ltd. Recent Developments/Updates

9.11.6 Astemo, Ltd. Competitive Strengths & Weaknesses

9.12 NIDEC Corporation

9.12.1 NIDEC Corporation Details

9.12.2 NIDEC Corporation Major Business

9.12.3 NIDEC Corporation Automotive Motor Controllers Product and Services

9.12.4 NIDEC Corporation Automotive Motor Controllers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 NIDEC Corporation Recent Developments/Updates

9.12.6 NIDEC Corporation Competitive Strengths & Weaknesses

9.13 Valeo SE

9.13.1 Valeo SE Details

9.13.2 Valeo SE Major Business

9.13.3 Valeo SE Automotive Motor Controllers Product and Services

9.13.4 Valeo SE Automotive Motor Controllers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 Valeo SE Recent Developments/Updates

9.13.6 Valeo SE Competitive Strengths & Weaknesses

9.14 Magna International Inc.

9.14.1 Magna International Inc. Details

9.14.2 Magna International Inc. Major Business

9.14.3 Magna International Inc. Automotive Motor Controllers Product and Services

9.14.4 Magna International Inc. Automotive Motor Controllers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.14.5 Magna International Inc. Recent Developments/Updates

- 9.14.6 Magna International Inc. Competitive Strengths & Weaknesses
- 9.15 Dana TM4 Inc.
 - 9.15.1 Dana TM4 Inc. Details
 - 9.15.2 Dana TM4 Inc. Major Business
 - 9.15.3 Dana TM4 Inc. Automotive Motor Controllers Product and Services
 - 9.15.4 Dana TM4 Inc. Automotive Motor Controllers Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.15.5 Dana TM4 Inc. Recent Developments/Updates
 - 9.15.6 Dana TM4 Inc. Competitive Strengths & Weaknesses
- 9.16 Suzhou Inovance Automotive Co., Ltd.
 - 9.16.1 Suzhou Inovance Automotive Co., Ltd. Details
 - 9.16.2 Suzhou Inovance Automotive Co., Ltd. Major Business
 - 9.16.3 Suzhou Inovance Automotive Co., Ltd. Automotive Motor Controllers Product and Services
 - 9.16.4 Suzhou Inovance Automotive Co., Ltd. Automotive Motor Controllers Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.16.5 Suzhou Inovance Automotive Co., Ltd. Recent Developments/Updates
 - 9.16.6 Suzhou Inovance Automotive Co., Ltd. Competitive Strengths & Weaknesses
- 9.17 Jing-Jin Electric Technologies Co., Ltd.
 - 9.17.1 Jing-Jin Electric Technologies Co., Ltd. Details
 - 9.17.2 Jing-Jin Electric Technologies Co., Ltd. Major Business
 - 9.17.3 Jing-Jin Electric Technologies Co., Ltd. Automotive Motor Controllers Product and Services
 - 9.17.4 Jing-Jin Electric Technologies Co., Ltd. Automotive Motor Controllers Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.17.5 Jing-Jin Electric Technologies Co., Ltd. Recent Developments/Updates
 - 9.17.6 Jing-Jin Electric Technologies Co., Ltd. Competitive Strengths & Weaknesses
- 9.18 Zhuzhou CRRC Times Electric Co., Ltd.
 - 9.18.1 Zhuzhou CRRC Times Electric Co., Ltd. Details
 - 9.18.2 Zhuzhou CRRC Times Electric Co., Ltd. Major Business
 - 9.18.3 Zhuzhou CRRC Times Electric Co., Ltd. Automotive Motor Controllers Product and Services
 - 9.18.4 Zhuzhou CRRC Times Electric Co., Ltd. Automotive Motor Controllers Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.18.5 Zhuzhou CRRC Times Electric Co., Ltd. Recent Developments/Updates
 - 9.18.6 Zhuzhou CRRC Times Electric Co., Ltd. Competitive Strengths & Weaknesses
- 9.19 Huawei Digital Power Technologies Co., Ltd.
 - 9.19.1 Huawei Digital Power Technologies Co., Ltd. Details
 - 9.19.2 Huawei Digital Power Technologies Co., Ltd. Major Business

9.19.3 Huawei Digital Power Technologies Co., Ltd. Automotive Motor Controllers Product and Services

9.19.4 Huawei Digital Power Technologies Co., Ltd. Automotive Motor Controllers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.19.5 Huawei Digital Power Technologies Co., Ltd. Recent Developments/Updates

9.19.6 Huawei Digital Power Technologies Co., Ltd. Competitive Strengths & Weaknesses

9.20 Zhongshan Broad-Ocean Motor Co., Ltd.

9.20.1 Zhongshan Broad-Ocean Motor Co., Ltd. Details

9.20.2 Zhongshan Broad-Ocean Motor Co., Ltd. Major Business

9.20.3 Zhongshan Broad-Ocean Motor Co., Ltd. Automotive Motor Controllers Product and Services

9.20.4 Zhongshan Broad-Ocean Motor Co., Ltd. Automotive Motor Controllers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.20.5 Zhongshan Broad-Ocean Motor Co., Ltd. Recent Developments/Updates

9.20.6 Zhongshan Broad-Ocean Motor Co., Ltd. Competitive Strengths & Weaknesses

9.21 Zhuhai Enpower Electric Co., Ltd.

9.21.1 Zhuhai Enpower Electric Co., Ltd. Details

9.21.2 Zhuhai Enpower Electric Co., Ltd. Major Business

9.21.3 Zhuhai Enpower Electric Co., Ltd. Automotive Motor Controllers Product and Services

9.21.4 Zhuhai Enpower Electric Co., Ltd. Automotive Motor Controllers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.21.5 Zhuhai Enpower Electric Co., Ltd. Recent Developments/Updates

9.21.6 Zhuhai Enpower Electric Co., Ltd. Competitive Strengths & Weaknesses

9.22 JEE Technology Co., Ltd.

9.22.1 JEE Technology Co., Ltd. Details

9.22.2 JEE Technology Co., Ltd. Major Business

9.22.3 JEE Technology Co., Ltd. Automotive Motor Controllers Product and Services

9.22.4 JEE Technology Co., Ltd. Automotive Motor Controllers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.22.5 JEE Technology Co., Ltd. Recent Developments/Updates

9.22.6 JEE Technology Co., Ltd. Competitive Strengths & Weaknesses

9.23 Shenzhen INVT Electric Vehicle Drive Technology Co., Ltd.

9.23.1 Shenzhen INVT Electric Vehicle Drive Technology Co., Ltd. Details

9.23.2 Shenzhen INVT Electric Vehicle Drive Technology Co., Ltd. Major Business

9.23.3 Shenzhen INVT Electric Vehicle Drive Technology Co., Ltd. Automotive Motor Controllers Product and Services

9.23.4 Shenzhen INVT Electric Vehicle Drive Technology Co., Ltd. Automotive Motor

Controllers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.23.5 Shenzhen INVT Electric Vehicle Drive Technology Co., Ltd. Recent Developments/Updates

9.23.6 Shenzhen INVT Electric Vehicle Drive Technology Co., Ltd. Competitive Strengths & Weaknesses

9.24 Hefei Sungrow ePower Technology Co., Ltd.

9.24.1 Hefei Sungrow ePower Technology Co., Ltd. Details

9.24.2 Hefei Sungrow ePower Technology Co., Ltd. Major Business

9.24.3 Hefei Sungrow ePower Technology Co., Ltd. Automotive Motor Controllers Product and Services

9.24.4 Hefei Sungrow ePower Technology Co., Ltd. Automotive Motor Controllers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.24.5 Hefei Sungrow ePower Technology Co., Ltd. Recent Developments/Updates

9.24.6 Hefei Sungrow ePower Technology Co., Ltd. Competitive Strengths & Weaknesses

9.25 Shenzhen V&T Technologies Co., Ltd.

9.25.1 Shenzhen V&T Technologies Co., Ltd. Details

9.25.2 Shenzhen V&T Technologies Co., Ltd. Major Business

9.25.3 Shenzhen V&T Technologies Co., Ltd. Automotive Motor Controllers Product and Services

9.25.4 Shenzhen V&T Technologies Co., Ltd. Automotive Motor Controllers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.25.5 Shenzhen V&T Technologies Co., Ltd. Recent Developments/Updates

9.25.6 Shenzhen V&T Technologies Co., Ltd. Competitive Strengths & Weaknesses

9.26 Beijing BIT Huachuang Electric Vehicle Technology Co., Ltd.

9.26.1 Beijing BIT Huachuang Electric Vehicle Technology Co., Ltd. Details

9.26.2 Beijing BIT Huachuang Electric Vehicle Technology Co., Ltd. Major Business

9.26.3 Beijing BIT Huachuang Electric Vehicle Technology Co., Ltd. Automotive Motor Controllers Product and Services

9.26.4 Beijing BIT Huachuang Electric Vehicle Technology Co., Ltd. Automotive Motor Controllers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.26.5 Beijing BIT Huachuang Electric Vehicle Technology Co., Ltd. Recent Developments/Updates

9.26.6 Beijing BIT Huachuang Electric Vehicle Technology Co., Ltd. Competitive Strengths & Weaknesses

9.27 Viridi E-Mobility Technology (Ningbo) Co., Ltd.

9.27.1 Viridi E-Mobility Technology (Ningbo) Co., Ltd. Details

9.27.2 Viridi E-Mobility Technology (Ningbo) Co., Ltd. Major Business

9.27.3 Viridi E-Mobility Technology (Ningbo) Co., Ltd. Automotive Motor Controllers

Product and Services

9.27.4 Viridi E-Mobility Technology (Ningbo) Co., Ltd. Automotive Motor Controllers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.27.5 Viridi E-Mobility Technology (Ningbo) Co., Ltd. Recent Developments/Updates

9.27.6 Viridi E-Mobility Technology (Ningbo) Co., Ltd. Competitive Strengths & Weaknesses

9.28 XPT

9.28.1 XPT Details

9.28.2 XPT Major Business

9.28.3 XPT Automotive Motor Controllers Product and Services

9.28.4 XPT Automotive Motor Controllers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.28.5 XPT Recent Developments/Updates

9.28.6 XPT Competitive Strengths & Weaknesses

9.29 Zhixin Control System Co., Ltd.

9.29.1 Zhixin Control System Co., Ltd. Details

9.29.2 Zhixin Control System Co., Ltd. Major Business

9.29.3 Zhixin Control System Co., Ltd. Automotive Motor Controllers Product and Services

9.29.4 Zhixin Control System Co., Ltd. Automotive Motor Controllers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.29.5 Zhixin Control System Co., Ltd. Recent Developments/Updates

9.29.6 Zhixin Control System Co., Ltd. Competitive Strengths & Weaknesses

9.30 Shanghai Dajun Technologies, Inc.

9.30.1 Shanghai Dajun Technologies, Inc. Details

9.30.2 Shanghai Dajun Technologies, Inc. Major Business

9.30.3 Shanghai Dajun Technologies, Inc. Automotive Motor Controllers Product and Services

9.30.4 Shanghai Dajun Technologies, Inc. Automotive Motor Controllers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.30.5 Shanghai Dajun Technologies, Inc. Recent Developments/Updates

9.30.6 Shanghai Dajun Technologies, Inc. Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Automotive Motor Controllers Industry Chain

10.2 Automotive Motor Controllers Upstream Analysis

10.2.1 Automotive Motor Controllers Core Raw Materials

10.2.2 Main Manufacturers of Automotive Motor Controllers Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Automotive Motor Controllers Production Mode

10.6 Automotive Motor Controllers Procurement Model

10.7 Automotive Motor Controllers Industry Sales Model and Sales Channels

10.7.1 Automotive Motor Controllers Sales Model

10.7.2 Automotive Motor Controllers Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Automotive Motor Controllers Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Automotive Motor Controllers Production Value by Region (2021-2026) & (USD Million)

Table 3. World Automotive Motor Controllers Production Value by Region (2027-2032) & (USD Million)

Table 4. World Automotive Motor Controllers Production Value Market Share by Region (2021-2026)

Table 5. World Automotive Motor Controllers Production Value Market Share by Region (2027-2032)

Table 6. World Automotive Motor Controllers Production by Region (2021-2026) & (K Units)

Table 7. World Automotive Motor Controllers Production by Region (2027-2032) & (K Units)

Table 8. World Automotive Motor Controllers Production Market Share by Region (2021-2026)

Table 9. World Automotive Motor Controllers Production Market Share by Region (2027-2032)

Table 10. World Automotive Motor Controllers Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Automotive Motor Controllers Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Automotive Motor Controllers Major Market Trends

Table 13. World Automotive Motor Controllers Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Automotive Motor Controllers Consumption by Region (2021-2026) & (K Units)

Table 15. World Automotive Motor Controllers Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Automotive Motor Controllers Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Automotive Motor Controllers Producers in 2025

Table 18. World Automotive Motor Controllers Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Automotive Motor Controllers Producers in 2025

Table 20. World Automotive Motor Controllers Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Automotive Motor Controllers Company Evaluation Quadrant

Table 22. World Automotive Motor Controllers Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Automotive Motor Controllers Production Site of Key Manufacturer

Table 24. Automotive Motor Controllers Market: Company Product Type Footprint

Table 25. Automotive Motor Controllers Market: Company Product Application Footprint

Table 26. Automotive Motor Controllers Competitive Factors

Table 27. Automotive Motor Controllers New Entrant and Capacity Expansion Plans

Table 28. Automotive Motor Controllers Mergers & Acquisitions Activity

Table 29. United States VS China Automotive Motor Controllers Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Automotive Motor Controllers Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Automotive Motor Controllers Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Automotive Motor Controllers Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Automotive Motor Controllers Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Automotive Motor Controllers Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Automotive Motor Controllers Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Automotive Motor Controllers Production Market Share (2021-2026)

Table 37. China Based Automotive Motor Controllers Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Automotive Motor Controllers Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Automotive Motor Controllers Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Automotive Motor Controllers Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Automotive Motor Controllers Production Market

Share (2021-2026)

Table 42. Rest of World Based Automotive Motor Controllers Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Automotive Motor Controllers Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Automotive Motor Controllers Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Automotive Motor Controllers Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Automotive Motor Controllers Production Market Share (2021-2026)

Table 47. World Automotive Motor Controllers Production Value by Voltage, (USD Million), 2021 & 2025 & 2032

Table 48. World Automotive Motor Controllers Production by Voltage (2021-2026) & (K Units)

Table 49. World Automotive Motor Controllers Production by Voltage (2027-2032) & (K Units)

Table 50. World Automotive Motor Controllers Production Value by Voltage (2021-2026) & (USD Million)

Table 51. World Automotive Motor Controllers Production Value by Voltage (2027-2032) & (USD Million)

Table 52. World Automotive Motor Controllers Average Price by Voltage (2021-2026) & (US\$/Unit)

Table 53. World Automotive Motor Controllers Average Price by Voltage (2027-2032) & (US\$/Unit)

Table 54. World Automotive Motor Controllers Production Value by Materials, (USD Million), 2021 & 2025 & 2032

Table 55. World Automotive Motor Controllers Production by Materials (2021-2026) & (K Units)

Table 56. World Automotive Motor Controllers Production by Materials (2027-2032) & (K Units)

Table 57. World Automotive Motor Controllers Production Value by Materials (2021-2026) & (USD Million)

Table 58. World Automotive Motor Controllers Production Value by Materials (2027-2032) & (USD Million)

Table 59. World Automotive Motor Controllers Average Price by Materials (2021-2026) & (US\$/Unit)

Table 60. World Automotive Motor Controllers Average Price by Materials (2027-2032) & (US\$/Unit)

Table 61. World Automotive Motor Controllers Production Value by Power, (USD Million), 2021 & 2025 & 2032

Table 62. World Automotive Motor Controllers Production by Power (2021-2026) & (K Units)

Table 63. World Automotive Motor Controllers Production by Power (2027-2032) & (K Units)

Table 64. World Automotive Motor Controllers Production Value by Power (2021-2026) & (USD Million)

Table 65. World Automotive Motor Controllers Production Value by Power (2027-2032) & (USD Million)

Table 66. World Automotive Motor Controllers Average Price by Power (2021-2026) & (US\$/Unit)

Table 67. World Automotive Motor Controllers Average Price by Power (2027-2032) & (US\$/Unit)

Table 68. World Automotive Motor Controllers Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Automotive Motor Controllers Production by Application (2021-2026) & (K Units)

Table 70. World Automotive Motor Controllers Production by Application (2027-2032) & (K Units)

Table 71. World Automotive Motor Controllers Production Value by Application (2021-2026) & (USD Million)

Table 72. World Automotive Motor Controllers Production Value by Application (2027-2032) & (USD Million)

Table 73. World Automotive Motor Controllers Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Automotive Motor Controllers Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. AUMOVIO SE Basic Information, Manufacturing Base and Competitors

Table 76. AUMOVIO SE Major Business

Table 77. AUMOVIO SE Automotive Motor Controllers Product and Services

Table 78. AUMOVIO SE Automotive Motor Controllers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. AUMOVIO SE Recent Developments/Updates

Table 80. AUMOVIO SE Competitive Strengths & Weaknesses

Table 81. United Automotive Electronic Systems Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 82. United Automotive Electronic Systems Co., Ltd. Major Business

Table 83. United Automotive Electronic Systems Co., Ltd. Automotive Motor Controllers Product and Services

Table 84. United Automotive Electronic Systems Co., Ltd. Automotive Motor Controllers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. United Automotive Electronic Systems Co., Ltd. Recent Developments/Updates

Table 86. United Automotive Electronic Systems Co., Ltd. Competitive Strengths & Weaknesses

Table 87. Robert Bosch GmbH Basic Information, Manufacturing Base and Competitors

Table 88. Robert Bosch GmbH Major Business

Table 89. Robert Bosch GmbH Automotive Motor Controllers Product and Services

Table 90. Robert Bosch GmbH Automotive Motor Controllers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Robert Bosch GmbH Recent Developments/Updates

Table 92. Robert Bosch GmbH Competitive Strengths & Weaknesses

Table 93. BorgWarner Inc. Basic Information, Manufacturing Base and Competitors

Table 94. BorgWarner Inc. Major Business

Table 95. BorgWarner Inc. Automotive Motor Controllers Product and Services

Table 96. BorgWarner Inc. Automotive Motor Controllers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. BorgWarner Inc. Recent Developments/Updates

Table 98. BorgWarner Inc. Competitive Strengths & Weaknesses

Table 99. DENSO Corporation Basic Information, Manufacturing Base and Competitors

Table 100. DENSO Corporation Major Business

Table 101. DENSO Corporation Automotive Motor Controllers Product and Services

Table 102. DENSO Corporation Automotive Motor Controllers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. DENSO Corporation Recent Developments/Updates

Table 104. DENSO Corporation Competitive Strengths & Weaknesses

Table 105. Hyundai Mobis Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 106. Hyundai Mobis Co., Ltd. Major Business

Table 107. Hyundai Mobis Co., Ltd. Automotive Motor Controllers Product and Services

Table 108. Hyundai Mobis Co., Ltd. Automotive Motor Controllers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 109. Hyundai Mobis Co., Ltd. Recent Developments/Updates

Table 110. Hyundai Mobis Co., Ltd. Competitive Strengths & Weaknesses

Table 111. BYD Company Limited Basic Information, Manufacturing Base and Competitors

Table 112. BYD Company Limited Major Business

Table 113. BYD Company Limited Automotive Motor Controllers Product and Services

Table 114. BYD Company Limited Automotive Motor Controllers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. BYD Company Limited Recent Developments/Updates

Table 116. BYD Company Limited Competitive Strengths & Weaknesses

Table 117. ZF Friedrichshafen AG Basic Information, Manufacturing Base and Competitors

Table 118. ZF Friedrichshafen AG Major Business

Table 119. ZF Friedrichshafen AG Automotive Motor Controllers Product and Services

Table 120. ZF Friedrichshafen AG Automotive Motor Controllers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. ZF Friedrichshafen AG Recent Developments/Updates

Table 122. ZF Friedrichshafen AG Competitive Strengths & Weaknesses

Table 123. Schaeffler AG Basic Information, Manufacturing Base and Competitors

Table 124. Schaeffler AG Major Business

Table 125. Schaeffler AG Automotive Motor Controllers Product and Services

Table 126. Schaeffler AG Automotive Motor Controllers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Schaeffler AG Recent Developments/Updates

Table 128. Schaeffler AG Competitive Strengths & Weaknesses

Table 129. AISIN Corporation Basic Information, Manufacturing Base and Competitors

Table 130. AISIN Corporation Major Business

Table 131. AISIN Corporation Automotive Motor Controllers Product and Services

Table 132. AISIN Corporation Automotive Motor Controllers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. AISIN Corporation Recent Developments/Updates

Table 134. AISIN Corporation Competitive Strengths & Weaknesses

Table 135. Astemo, Ltd. Basic Information, Manufacturing Base and Competitors

Table 136. Astemo, Ltd. Major Business

Table 137. Astemo, Ltd. Automotive Motor Controllers Product and Services
Table 138. Astemo, Ltd. Automotive Motor Controllers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 139. Astemo, Ltd. Recent Developments/Updates
Table 140. Astemo, Ltd. Competitive Strengths & Weaknesses
Table 141. NIDEC Corporation Basic Information, Manufacturing Base and Competitors
Table 142. NIDEC Corporation Major Business
Table 143. NIDEC Corporation Automotive Motor Controllers Product and Services
Table 144. NIDEC Corporation Automotive Motor Controllers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 145. NIDEC Corporation Recent Developments/Updates
Table 146. NIDEC Corporation Competitive Strengths & Weaknesses
Table 147. Valeo SE Basic Information, Manufacturing Base and Competitors
Table 148. Valeo SE Major Business
Table 149. Valeo SE Automotive Motor Controllers Product and Services
Table 150. Valeo SE Automotive Motor Controllers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 151. Valeo SE Recent Developments/Updates
Table 152. Valeo SE Competitive Strengths & Weaknesses
Table 153. Magna International Inc. Basic Information, Manufacturing Base and Competitors
Table 154. Magna International Inc. Major Business
Table 155. Magna International Inc. Automotive Motor Controllers Product and Services
Table 156. Magna International Inc. Automotive Motor Controllers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 157. Magna International Inc. Recent Developments/Updates
Table 158. Magna International Inc. Competitive Strengths & Weaknesses
Table 159. Dana TM4 Inc. Basic Information, Manufacturing Base and Competitors
Table 160. Dana TM4 Inc. Major Business
Table 161. Dana TM4 Inc. Automotive Motor Controllers Product and Services
Table 162. Dana TM4 Inc. Automotive Motor Controllers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 163. Dana TM4 Inc. Recent Developments/Updates
Table 164. Dana TM4 Inc. Competitive Strengths & Weaknesses

Table 165. Suzhou Inovance Automotive Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 166. Suzhou Inovance Automotive Co., Ltd. Major Business

Table 167. Suzhou Inovance Automotive Co., Ltd. Automotive Motor Controllers Product and Services

Table 168. Suzhou Inovance Automotive Co., Ltd. Automotive Motor Controllers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. Suzhou Inovance Automotive Co., Ltd. Recent Developments/Updates

Table 170. Suzhou Inovance Automotive Co., Ltd. Competitive Strengths & Weaknesses

Table 171. Jing-Jin Electric Technologies Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 172. Jing-Jin Electric Technologies Co., Ltd. Major Business

Table 173. Jing-Jin Electric Technologies Co., Ltd. Automotive Motor Controllers Product and Services

Table 174. Jing-Jin Electric Technologies Co., Ltd. Automotive Motor Controllers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. Jing-Jin Electric Technologies Co., Ltd. Recent Developments/Updates

Table 176. Jing-Jin Electric Technologies Co., Ltd. Competitive Strengths & Weaknesses

Table 177. Zhuzhou CRRC Times Electric Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 178. Zhuzhou CRRC Times Electric Co., Ltd. Major Business

Table 179. Zhuzhou CRRC Times Electric Co., Ltd. Automotive Motor Controllers Product and Services

Table 180. Zhuzhou CRRC Times Electric Co., Ltd. Automotive Motor Controllers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 181. Zhuzhou CRRC Times Electric Co., Ltd. Recent Developments/Updates

Table 182. Zhuzhou CRRC Times Electric Co., Ltd. Competitive Strengths & Weaknesses

Table 183. Huawei Digital Power Technologies Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 184. Huawei Digital Power Technologies Co., Ltd. Major Business

Table 185. Huawei Digital Power Technologies Co., Ltd. Automotive Motor Controllers Product and Services

Table 186. Huawei Digital Power Technologies Co., Ltd. Automotive Motor Controllers

Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 187. Huawei Digital Power Technologies Co., Ltd. Recent Developments/Updates

Table 188. Huawei Digital Power Technologies Co., Ltd. Competitive Strengths & Weaknesses

Table 189. Zhongshan Broad-Ocean Motor Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 190. Zhongshan Broad-Ocean Motor Co., Ltd. Major Business

Table 191. Zhongshan Broad-Ocean Motor Co., Ltd. Automotive Motor Controllers Product and Services

Table 192. Zhongshan Broad-Ocean Motor Co., Ltd. Automotive Motor Controllers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 193. Zhongshan Broad-Ocean Motor Co., Ltd. Recent Developments/Updates

Table 194. Zhongshan Broad-Ocean Motor Co., Ltd. Competitive Strengths & Weaknesses

Table 195. Zhuhai Enpower Electric Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 196. Zhuhai Enpower Electric Co., Ltd. Major Business

Table 197. Zhuhai Enpower Electric Co., Ltd. Automotive Motor Controllers Product and Services

Table 198. Zhuhai Enpower Electric Co., Ltd. Automotive Motor Controllers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 199. Zhuhai Enpower Electric Co., Ltd. Recent Developments/Updates

Table 200. Zhuhai Enpower Electric Co., Ltd. Competitive Strengths & Weaknesses

Table 201. JEE Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 202. JEE Technology Co., Ltd. Major Business

Table 203. JEE Technology Co., Ltd. Automotive Motor Controllers Product and Services

Table 204. JEE Technology Co., Ltd. Automotive Motor Controllers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 205. JEE Technology Co., Ltd. Recent Developments/Updates

Table 206. JEE Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 207. Shenzhen INVT Electric Vehicle Drive Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 208. Shenzhen INVT Electric Vehicle Drive Technology Co., Ltd. Major Business

Table 209. Shenzhen INVT Electric Vehicle Drive Technology Co., Ltd. Automotive Motor Controllers Product and Services

Table 210. Shenzhen INVT Electric Vehicle Drive Technology Co., Ltd. Automotive Motor Controllers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 211. Shenzhen INVT Electric Vehicle Drive Technology Co., Ltd. Recent Developments/Updates

Table 212. Shenzhen INVT Electric Vehicle Drive Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 213. Hefei Sungrow ePower Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 214. Hefei Sungrow ePower Technology Co., Ltd. Major Business

Table 215. Hefei Sungrow ePower Technology Co., Ltd. Automotive Motor Controllers Product and Services

Table 216. Hefei Sungrow ePower Technology Co., Ltd. Automotive Motor Controllers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 217. Hefei Sungrow ePower Technology Co., Ltd. Recent Developments/Updates

Table 218. Hefei Sungrow ePower Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 219. Shenzhen V&T Technologies Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 220. Shenzhen V&T Technologies Co., Ltd. Major Business

Table 221. Shenzhen V&T Technologies Co., Ltd. Automotive Motor Controllers Product and Services

Table 222. Shenzhen V&T Technologies Co., Ltd. Automotive Motor Controllers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 223. Shenzhen V&T Technologies Co., Ltd. Recent Developments/Updates

Table 224. Shenzhen V&T Technologies Co., Ltd. Competitive Strengths & Weaknesses

Table 225. Beijing BIT Huachuang Electric Vehicle Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 226. Beijing BIT Huachuang Electric Vehicle Technology Co., Ltd. Major Business

Table 227. Beijing BIT Huachuang Electric Vehicle Technology Co., Ltd. Automotive Motor Controllers Product and Services

Table 228. Beijing BIT Huachuang Electric Vehicle Technology Co., Ltd. Automotive Motor Controllers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 229. Beijing BIT Huachuang Electric Vehicle Technology Co., Ltd. Recent Developments/Updates

Table 230. Beijing BIT Huachuang Electric Vehicle Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 231. Viridi E-Mobility Technology (Ningbo) Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 232. Viridi E-Mobility Technology (Ningbo) Co., Ltd. Major Business

Table 233. Viridi E-Mobility Technology (Ningbo) Co., Ltd. Automotive Motor Controllers Product and Services

Table 234. Viridi E-Mobility Technology (Ningbo) Co., Ltd. Automotive Motor Controllers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 235. Viridi E-Mobility Technology (Ningbo) Co., Ltd. Recent Developments/Updates

Table 236. Viridi E-Mobility Technology (Ningbo) Co., Ltd. Competitive Strengths & Weaknesses

Table 237. XPT Basic Information, Manufacturing Base and Competitors

Table 238. XPT Major Business

Table 239. XPT Automotive Motor Controllers Product and Services

Table 240. XPT Automotive Motor Controllers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 241. XPT Recent Developments/Updates

Table 242. XPT Competitive Strengths & Weaknesses

Table 243. Zhixin Control System Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 244. Zhixin Control System Co., Ltd. Major Business

Table 245. Zhixin Control System Co., Ltd. Automotive Motor Controllers Product and Services

Table 246. Zhixin Control System Co., Ltd. Automotive Motor Controllers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 247. Zhixin Control System Co., Ltd. Recent Developments/Updates

Table 248. Zhixin Control System Co., Ltd. Competitive Strengths & Weaknesses

Table 249. Shanghai Dajun Technologies, Inc. Basic Information, Manufacturing Base and Competitors

Table 250. Shanghai Dajun Technologies, Inc. Major Business

Table 251. Shanghai Dajun Technologies, Inc. Automotive Motor Controllers Product and Services

Table 252. Shanghai Dajun Technologies, Inc. Automotive Motor Controllers Production

(K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 253. Shanghai Dajun Technologies, Inc. Recent Developments/Updates

Table 254. Shanghai Dajun Technologies, Inc. Competitive Strengths & Weaknesses

Table 255. Global Key Players of Automotive Motor Controllers Upstream (Raw Materials)

Table 256. Global Automotive Motor Controllers Typical Customers

Table 257. Automotive Motor Controllers Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Automotive Motor Controllers Picture

Figure 2. World Automotive Motor Controllers Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Automotive Motor Controllers Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Automotive Motor Controllers Production (2021-2032) & (K Units)

Figure 5. World Automotive Motor Controllers Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Automotive Motor Controllers Production Value Market Share by Region (2021-2032)

Figure 7. World Automotive Motor Controllers Production Market Share by Region (2021-2032)

Figure 8. North America Automotive Motor Controllers Production (2021-2032) & (K Units)

Figure 9. Europe Automotive Motor Controllers Production (2021-2032) & (K Units)

Figure 10. China Automotive Motor Controllers Production (2021-2032) & (K Units)

Figure 11. Japan Automotive Motor Controllers Production (2021-2032) & (K Units)

Figure 12. South Korea Automotive Motor Controllers Production (2021-2032) & (K Units)

Figure 13. Automotive Motor Controllers Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Automotive Motor Controllers Consumption (2021-2032) & (K Units)

Figure 16. World Automotive Motor Controllers Consumption Market Share by Region (2021-2032)

Figure 17. United States Automotive Motor Controllers Consumption (2021-2032) & (K Units)

Figure 18. China Automotive Motor Controllers Consumption (2021-2032) & (K Units)

Figure 19. Europe Automotive Motor Controllers Consumption (2021-2032) & (K Units)

Figure 20. Japan Automotive Motor Controllers Consumption (2021-2032) & (K Units)

Figure 21. South Korea Automotive Motor Controllers Consumption (2021-2032) & (K Units)

Figure 22. ASEAN Automotive Motor Controllers Consumption (2021-2032) & (K Units)

Figure 23. India Automotive Motor Controllers Consumption (2021-2032) & (K Units)

Figure 24. Producer Shipments of Automotive Motor Controllers by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for Automotive Motor

Controllers Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for Automotive Motor

Controllers Markets in 2025

Figure 27. United States VS China: Automotive Motor Controllers Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Automotive Motor Controllers Production Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Automotive Motor Controllers Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States Based Manufacturers Automotive Motor Controllers Production Market Share 2025

Figure 31. China Based Manufacturers Automotive Motor Controllers Production Market Share 2025

Figure 32. Rest of World Based Manufacturers Automotive Motor Controllers Production Market Share 2025

Figure 33. World Automotive Motor Controllers Production Value by Voltage, (USD Million), 2021 & 2025 & 2032

Figure 34. World Automotive Motor Controllers Production Value Market Share by Voltage in 2025

Figure 35. 48V Motor Controllers

Figure 36. 400V Motor Controllers

Figure 37. 800V Motor Controllers

Figure 38. World Automotive Motor Controllers Production Market Share by Voltage (2021-2032)

Figure 39. World Automotive Motor Controllers Production Value Market Share by Voltage (2021-2032)

Figure 40. World Automotive Motor Controllers Average Price by Voltage (2021-2032) & (US\$/Unit)

Figure 41. World Automotive Motor Controllers Production Value by Materials, (USD Million), 2021 & 2025 & 2032

Figure 42. World Automotive Motor Controllers Production Value Market Share by Materials in 2025

Figure 43. Si IGBT Motor Controllers

Figure 44. Si MOSFET Motor Controllers

Figure 45. SiC MOSFET Motor Controllers

Figure 46. World Automotive Motor Controllers Production Market Share by Materials (2021-2032)

Figure 47. World Automotive Motor Controllers Production Value Market Share by Materials (2021-2032)

Figure 48. World Automotive Motor Controllers Average Price by Materials (2021-2032) & (US\$/Unit)

Figure 49. World Automotive Motor Controllers Production Value by Power, (USD Million), 2021 & 2025 & 2032

Figure 50. World Automotive Motor Controllers Production Value Market Share by Power in 2025

Figure 51. PMSM Motor Controllers

Figure 52. Induction Motor Controllers

Figure 53. EESM Motor Controllers

Figure 54. BLDC Motor Controllers

Figure 55. World Automotive Motor Controllers Production Market Share by Power (2021-2032)

Figure 56. World Automotive Motor Controllers Production Value Market Share by Power (2021-2032)

Figure 57. World Automotive Motor Controllers Average Price by Power (2021-2032) & (US\$/Unit)

Figure 58. World Automotive Motor Controllers Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 59. World Automotive Motor Controllers Production Value Market Share by Application in 2025

Figure 60. Battery Electric Vehicles

Figure 61. Hybrid Electric Vehicles

Figure 62. Plug-in Hybrid Electric Vehicles

Figure 63. Extended-Range Electric Vehicles

Figure 64. Others

Figure 65. World Automotive Motor Controllers Production Market Share by Application (2021-2032)

Figure 66. World Automotive Motor Controllers Production Value Market Share by Application (2021-2032)

Figure 67. World Automotive Motor Controllers Average Price by Application (2021-2032) & (US\$/Unit)

Figure 68. Automotive Motor Controllers Industry Chain

Figure 69. Automotive Motor Controllers Procurement Model

Figure 70. Automotive Motor Controllers Sales Model

Figure 71. Automotive Motor Controllers Sales Channels, Direct Sales, and Distribution

Figure 72. Methodology

Figure 73. Research Process and Data Source

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