+357 96 030922
info@marketpublishers.com

Automotive Servo Motor Market - Global Industry Size, Share, Trends, Competition, Opportunity and Forecast, Segmented By Motor Type (AC, DC), By Vehicle Type (Passenger Car, Light Commercial Vehicle, Medium & Heavy Commercial Vehicle), By Demand Category (OEM vs Replacement), By Region & Competition, 2021-2031F

https://marketpublishers.com/r/A5515FDFEEE6EN.html
Date: May 2026
Pages: 180
Price: US$ 4,500.00 (Single User License)
ID: A5515FDFEEE6EN

Abstracts

The global automotive servo motor market is projected to expand significantly, from USD 14.99 billion in 2025 to USD 22.48 billion by 2031, exhibiting a compound annual growth rate of 6.99%. These sophisticated actuators are vital for precise control of position, velocity, and acceleration within vehicles, enabling modern safety and comfort functionalities like electric power steering, electronic throttle control, and advanced braking. The market's expansion is predominantly fueled by the accelerated global move towards vehicle electrification and the increasing adoption of automated driver-assistance systems, both of which critically depend on exact motion control. The substantial demand from the electric mobility sector is highlighted by China's passenger new energy vehicle retail sales reaching 12.86 million units cumulatively in 2025, according to the China Passenger Car Association.

Nevertheless, this promising growth is tempered by a key obstacle: the fluctuating costs and inconsistent supply of rare-earth magnets. These materials are indispensable for manufacturing high-efficiency permanent magnet motors but are prone to significant price variations and geopolitical supply chain disruptions. Such instability can lead to production delays and increased manufacturing costs, potentially hindering the widespread integration of advanced servo technologies in more price-sensitive vehicle categories and, consequently, tempering overall market growth.

+357 96 030922
info@marketpublishers.com

Market Driver

The increasing global embrace of electric and hybrid vehicles is a primary impetus for the automotive servo motor market, fundamentally reshaping vehicle design needs. Unlike traditional internal combustion engines, electrified platforms critically depend on decentralized actuation for functions such as battery thermal management, regenerative braking, and electronic parking brakes. These applications demand compact, high-torque servo solutions to ensure energy efficiency and extend range. This fundamental architectural shift is supported by the significant worldwide sales of battery-powered vehicles, which mandate precise electronic control systems; for instance, the International Energy Agency reported nearly 14 million electric car sales in 2023, as detailed in its April 2024 'Global EV Outlook 2024', thereby directly enlarging the market for electric powertrain actuators. Moreover, the inherent complexity of hybrid architectures drives an increased number of motors per vehicle to manage power distribution, with hybrid electric vehicles comprising 25.8% of new car registrations in the European Union in the preceding year, according to the European Automobile Manufacturers' Association in 2024, emphasizing the rising demand for dual-powertrain actuation.

Concurrently, the expanding integration of Advanced Driver Assistance Systems (ADAS) further solidifies the dependence on precision servo technology for safety-critical operations. Contemporary vehicles deploy these motors to execute real-time physical adjustments for features like lane-keeping assist, adaptive cruise control, and automatic emergency braking, where millisecond response times are essential to prevent accidents. Automotive manufacturers are rapidly adopting these technologies to satisfy both consumer safety expectations and evolving regulatory requirements. This industrial emphasis on automated safety features directly leads to consistent demand for the electromechanical actuators that implement vehicle control commands. Mobileye's January 2024 'Fiscal Year 2023 Financial Results' revealed that full-year revenue, largely from driver-assistance technologies, climbed to 2.08 billion dollars, demonstrating the increasing installation rates of semi-autonomous systems and ensuring a sustained demand curve for high-performance servo motors.

Market Challenge

The global automotive servo motor market confronts a significant hurdle due to the unpredictable volatility and unstable supply of rare-earth magnets. These magnets are critical for producing high-efficiency permanent magnet motors, which are essential for

+357 96 030922
info@marketpublishers.com

the precise torque density required in vital vehicle systems such as electric steering and braking. Given that the extraction and processing of key materials like neodymium are geographically concentrated, the supply chain remains highly vulnerable to geopolitical trade tensions and export limitations. This dependency establishes a weakness where abrupt interruptions can cause immediate manufacturing bottlenecks, making it difficult for suppliers to adhere to automaker delivery timetables.

This inherent instability introduces a direct financial strain that impedes market penetration into more cost-sensitive vehicle segments. When raw material prices experience sharp increases, manufacturers are compelled to raise unit costs, thereby discouraging the integration of advanced servo systems into mass-market economy cars. For example, in 2025, the average price of neodymium oxide surged by 27.4% year-over-year due to stricter export controls, as reported by the China Rare Earth Industry Association. Such unpredictable cost increases diminish profitability for component manufacturers and slow the industry's shift towards electrified actuation, effectively restraining the market's potential for growth.

Market Trends

A significant structural trend emerging is the direct integration of electronic drive controllers into motor housings, which streamlines vehicle assembly and improves electromagnetic compatibility. By incorporating the control unit within the actuator casing, manufacturers eliminate the necessity for cumbersome external wiring harnesses and distinct control modules, thereby substantially decreasing overall component weight and simplifying the vehicle's zonal architecture. This "smart motor" concept is especially crucial for applications with limited space, such as thermal management valves and active grille shutters, where optimal packaging efficiency is critical. The industrial push for this consolidation of electromechanical components is clearly demonstrated by recent procurement figures; for instance, Schaeffler AG's E-Mobility division, specializing in these integrated drive solutions, secured 4.7 billion euros in order intake in 2024, as noted in their March 2025 'Annual Report 2024', highlighting the rapid shift towards highly integrated actuation systems in manufacturing.

Concurrently, the accelerated adoption of 48-volt servo systems is addressing the power requirements of mild hybrid architectures and advanced chassis technologies. In contrast to conventional 12-volt systems, the 48-volt standard offers the requisite torque density for demanding applications like active electromechanical suspension, rear-wheel steering, and electric turbocharging, without incurring the expense and intricacy of full high-voltage electrification. This architecture functions as a cost-efficient

+357 96 030922
info@marketpublishers.com

intermediary, facilitating advanced motion control features in mainstream vehicles while simultaneously adhering to strict efficiency regulations. The stability of this segment is evidenced by the financial performance of leading suppliers who are adapting to support this mid-range voltage class; Valeo, for example, reported full-year sales of 21.5 billion euros in its February 2025 '2024 Results' press release, a figure sustained by the strong performance of its traditional and mild-hybrid powertrain technologies, which mitigated the fluctuations seen in the high-voltage electric vehicle sector.

Key Market Players

Mitsubishi Electric Corporation

Siemens AG

Yaskawa Electric Corporation

Rockwell Automation, Inc.

ABB Ltd.

Schneider Electric SE

FANUC Corporation

Nidec Corporation

Bosch Rexroth AG

Delta Electronics, Inc.

Report Scope

In this report, the Global Automotive Servo Motor Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Automotive Servo Motor Market, By Motor Type

+357 96 030922
info@marketpublishers.com

AC

DC

Automotive Servo Motor Market, By Vehicle Type

Passenger Car

Light Commercial Vehicle

Medium & Heavy Commercial Vehicle

Automotive Servo Motor Market, By Demand Category

OEM

Replacement

Automotive Servo Motor Market, By Region

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

+357 96 030922
info@marketpublishers.com

- Asia Pacific
  - China
  - India
  - Japan
  - Australia
  - South Korea
- South America
  - Brazil
  - Argentina
  - Colombia
- Middle East & Africa
  - South Africa
  - Saudi Arabia
  - UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Automotive Servo Motor Market.

Available Customizations:

Global Automotive Servo Motor Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following

+357 96 030922
info@marketpublishers.com

customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

+357 96 030922
info@marketpublishers.com

Contents

+357 96 030922
info@marketpublishers.com

6. NORTH AMERICA AUTOMOTIVE SERVO MOTOR MARKET OUTLOOK

7. EUROPE AUTOMOTIVE SERVO MOTOR MARKET OUTLOOK

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

8. ASIA PACIFIC AUTOMOTIVE SERVO MOTOR MARKET OUTLOOK

+357 96 030922
info@marketpublishers.com

9. MIDDLE EAST & AFRICA AUTOMOTIVE SERVO MOTOR MARKET OUTLOOK

+357 96 030922
info@marketpublishers.com

10. SOUTH AMERICA AUTOMOTIVE SERVO MOTOR MARKET OUTLOOK

11. MARKET DYNAMICS

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: Automotive Servo Motor Market - Global Industry Size, Share, Trends, Competition, Opportunity and Forecast, Segmented By Motor Type (AC, DC), By Vehicle Type (Passenger Car, Light Commercial Vehicle, Medium & Heavy Commercial Vehicle), By Demand Category (OEM vs Replacement), By Region & Competition, 2021-2031F

Product link: https://marketpublishers.com/r/A5515FDFEEE6EN.html

Price: US$ 4,500.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/A5515FDFEEE6EN.html