

Global Automotive Torque Actuator Motor Market to Grow at 5.6% CAGR, Reaching \$14.9 Billion by 2031

Torque actuator motors are shaping the future of mobility by enabling precision control in EVs, ADAS, and autonomous vehicles.

WILMINGTON, DE, UNITED STATES, August 28, 2025 /EINPresswire.com/ -- According to a new report published by Allied Market Research, titled, "Automotive Torque Actuator Motor Market By Application (Turbocharger, Electronic Throttle Control (ETC), Exhaust Gas Circulation (EGR), Others), By Vehicle Type (Passenger Car, Light Commercial Vehicle, Heavy Commercial

Vehicle), By Type (Electrical, Pneumatic, Mechanical): Global Opportunity Analysis and Industry Forecast, 2021 - 2031" The global automotive torque actuator motor market was valued at \$8.9 billion in 2021, and is projected to reach \$14.9 billion by 2031, growing at a CAGR of 5.6% from 2022 to 2031.

The automotive torque actuator motor market is witnessing significant growth due to the rising adoption of advanced driver assistance systems (ADAS), electric vehicles (EVs), and automated driving technologies. Torque actuator motors play a crucial role in optimizing engine and transmission performance, improving fuel efficiency, and ensuring precise control in steering, braking, and powertrain systems. Increasing demand for vehicle electrification and stringent emission regulations are further driving innovations in actuator motor technologies, making them integral components in modern automotive design.

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- Growing Demand for Vehicle Electrification

The transition from internal combustion engine (ICE)-based vehicles to hybrid and electric



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vehicles (EVs) is accelerating the demand for torque actuator motors. These motors are widely used in EV powertrains to regulate torque delivery, ensuring smooth and efficient performance. Government incentives for EV adoption and emission reduction policies are contributing to sustained market growth.

- Technological Advancements in Automotive Systems

Automakers are increasingly integrating advanced technologies like ADAS, autonomous driving, and smart powertrains, which require high-precision torque control. Torque actuator motors provide enhanced accuracy, speed, and reliability, supporting innovations in automated transmission systems, adaptive steering, and intelligent braking mechanisms.

- Rising Demand for Performance and Fuel Efficiency

Consumers are demanding vehicles that deliver better performance while maintaining fuel efficiency. Torque actuator motors improve gear shifting, reduce transmission losses, and enhance engine control, enabling manufacturers to balance performance and sustainability goals.

- Challenges: High Costs and Reliability Concerns

Despite the strong growth potential, the high manufacturing costs and complex integration of torque actuator motors into vehicles pose challenges. Additionally, durability and long-term reliability under harsh operating conditions remain concerns for OEMs, which may hinder mass adoption in cost-sensitive markets.

- Opportunities in Autonomous and Connected Vehicles

The rapid development of autonomous and connected vehicles presents vast opportunities for torque actuator motors. With the growing need for precision control in steering, braking, and drivetrain systems, these motors are expected to become a standard feature in next-generation vehicles, unlocking significant long-term growth potential.

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The [automotive torque actuator motor market analysis](#) is segmented by type (DC motor, stepper motor, brushless motor), vehicle type (passenger cars, light commercial vehicles, heavy commercial vehicles, electric vehicles), application (engine control, transmission control, steering, braking, and others), and region. Among these, the electric vehicle segment is projected to witness the fastest growth due to increasing EV adoption and the critical role of torque actuators in powertrain optimization.

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In North America and Europe, stringent emission regulations, strong EV adoption rates, and the presence of leading automotive OEMs drive the demand for torque actuator motors. The integration of ADAS and autonomous driving systems further fuels the market in these regions.

In Asia-Pacific, rapid vehicle production, urbanization, and government incentives for EV adoption in countries like China, Japan, and South Korea are boosting the market. Additionally, cost-effective manufacturing and the growing presence of global OEMs make APAC the fastest-growing region for automotive torque actuator motors.

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Automotive Torque Actuator Motors Market

The market is highly competitive with leading players focusing on product innovation, cost reduction, and strategic partnerships with automotive OEMs. Companies are investing in research and development to design torque actuator motors that are more efficient, compact, and compatible with EV powertrains.

Major players in the market include Robert Bosch GmbH, Nidec Corporation, Johnson Electric, Mitsubishi Electric, Continental AG, and Denso Corporation. These companies are strengthening their global footprint by leveraging mergers, acquisitions, and technological advancements to stay ahead in the evolving automotive landscape.

- Rising EV adoption is a major driver for the torque actuator motor market.
- ADAS and autonomous vehicles are creating significant new opportunities.
- Cost and reliability challenges remain key restraints.
- Asia-Pacific is the fastest-growing region due to rapid automotive manufacturing.
- Leading players are focusing on R&D and strategic collaborations to enhance competitiveness.

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