

# **Passenger Car Actuators Market – Global Industry Size, Share, Trends Opportunity, and Forecast, Segmented By Vehicle Type (SUV, Sedan, Hatchback, MUV), By Type (Pneumatic Actuators, Hydraulic Actuators, Electric Actuators and Others), By Application (Fuel Injection Actuators, Throttle Actuators, Brake Actuators and Others), By Region, Competition, 2018-2028**

<https://marketpublishers.com/r/PD6C64A8F19CEN.html>

Date: October 2023

Pages: 188

Price: US\$ 4,900.00 (Single User License)

ID: PD6C64A8F19CEN

## **Abstracts**

The Global Passenger Car Actuators Market size reached USD 15.7 billion in 2022 and is expected to grow with a CAGR of 4.6% in the forecast period.

The Global Passenger Car Actuators Market plays a pivotal role in the automotive industry, driven by a continuous quest for vehicle automation, improved safety, and enhanced driving experiences. Actuators are essential components that translate electrical signals into mechanical actions, enabling various functions in passenger cars. One of the key drivers of this market is the increasing integration of advanced driver assistance systems (ADAS) and electric vehicle (EV) technologies in passenger cars. Actuators are integral to ADAS features like adaptive cruise control, lane-keeping assistance, and autonomous emergency braking, enhancing vehicle safety and reducing accidents. Moreover, EVs rely heavily on actuators to control electric powertrain components, such as motors and valves, contributing to the market's growth.

Product diversity is a hallmark of the Passenger Car Actuators Market. These components are employed in a wide range of applications, including throttle control, HVAC systems, power windows, and fuel injection systems. This diversity caters to

automakers' needs for customized solutions to enhance vehicle performance, comfort, and fuel efficiency.

Sustainability and environmental considerations also play a role in shaping this market. Actuators contribute to the development of more fuel-efficient vehicles by optimizing engine performance and reducing emissions. As governments worldwide implement stringent emissions regulations, automakers are increasingly investing in eco-friendly actuators to meet compliance standards. The market's growth is further facilitated by technological advancements. Miniaturization, improved materials, and enhanced control systems are driving innovations in actuators. These developments lead to more efficient and compact components, supporting automakers' efforts to design smaller, lighter, and more environmentally friendly vehicles.

In conclusion, the Global Passenger Car Actuators Market is a critical and evolving segment within the automotive industry. The integration of advanced technologies, diversification of product offerings, sustainability considerations, and continuous technological advancements collectively shape the market, contributing to safer, more efficient, and environmentally conscious passenger cars.

## Key Market Drivers

### Rising Demand for Advanced Driver Assistance Systems (ADAS)

The increasing adoption of ADAS features like adaptive cruise control, lane-keeping assistance, and automatic emergency braking systems is a significant driver. Actuators are essential components in these systems, enabling precise control and enhancing vehicle safety.

### Electrification of Vehicles

The global shift toward electric vehicles (EVs) and hybrid electric vehicles (HEVs) is driving the demand for actuators. These components are crucial for controlling electric powertrain systems, such as electric motors and valves, contributing to the efficient operation of EVs.

### Vehicle Automation and Autonomy

The pursuit of autonomous vehicles is pushing automakers to invest in advanced actuator technologies. Actuators are instrumental in achieving the necessary levels of

vehicle automation, from steering and braking to acceleration and navigation.

### Improved Fuel Efficiency

As environmental concerns grow and emissions regulations become more stringent, automakers are striving to make vehicles more fuel-efficient. Actuators play a vital role in optimizing engine performance, reducing friction, and enhancing fuel economy.

### Enhanced Vehicle Comfort and Convenience

Actuators are integral to improving passenger comfort and convenience. They control features such as power windows, sunroofs, HVAC systems, and power seats, enhancing the overall driving experience and customer satisfaction.

### Stringent Safety Regulations

Safety regulations worldwide are pushing automakers to equip their vehicles with advanced safety features. Actuators are essential for functions like airbag deployment, seatbelt tensioning, and autonomous emergency braking, ensuring compliance with safety standards.

### Technological Advancements

Continuous technological advancements in actuator design and materials are driving innovation in the industry. Miniaturization, weight reduction, and improved control systems result in more efficient and reliable actuators, supporting automakers' efforts to design smarter and more efficient vehicles.

### Customization and Vehicle Differentiation

Actuators offer opportunities for vehicle differentiation and customization. Automakers can tailor actuator functions to create unique driving experiences, such as sportier handling in performance cars or smoother ride comfort in luxury vehicles. This customization aids in brand identity and market competitiveness.

In conclusion, the Global Passenger Car Actuators Market is propelled by a combination of factors, including the increasing demand for ADAS, electrification trends, vehicle automation goals, environmental concerns, safety regulations, technological innovation, and the desire for enhanced comfort and customization. These drivers collectively

influence the development of more advanced and efficient actuators that contribute to safer, more fuel-efficient, and feature-rich passenger cars.

## Key Market Challenges

### Complex Integration in ADAS

The integration of actuators into advanced driver assistance systems (ADAS) is intricate and demanding. ADAS features like adaptive cruise control, lane-keeping assistance, and automatic emergency braking rely on actuators to function effectively. Ensuring that these actuators seamlessly integrate with the numerous sensors, control units, and software components of ADAS systems without compromising safety and reliability is a substantial challenge. Achieving precise coordination between these elements is critical to avoid errors or accidents.

### Cost Pressures

The automotive industry operates in a highly competitive environment, with automakers constantly striving to reduce manufacturing costs while maintaining high-quality standards. Actuator suppliers face significant cost pressures as they seek to develop and produce advanced actuators that meet the industry's evolving demands. Balancing cost-effectiveness with the need for innovative and reliable actuator solutions is a continuous challenge for both suppliers and automakers.

### Safety and Reliability

Actuators play a vital role in vehicle safety systems, such as airbag deployment, seatbelt tensioning, and autonomous emergency braking. Ensuring the safety and reliability of these critical components is a paramount challenge. Actuators must perform flawlessly, even in extreme conditions, to protect occupants. Meeting rigorous safety standards and providing redundancy in critical applications adds complexity to actuator design and testing.

### Emissions and Efficiency Regulations

Stringent emissions regulations and the pursuit of improved fuel efficiency present a challenge for actuators used in combustion engine vehicles. Actuators are essential for optimizing engine performance, reducing emissions, and enhancing fuel economy. Meeting evolving emissions standards requires constant innovation and adaptation of

actuator technologies, adding complexity to the engineering process.

### Electrification Transition

The global shift toward electric vehicles (EVs) and hybrid electric vehicles (HEVs) represents a significant challenge for actuator manufacturers. EVs and HEVs rely heavily on actuators to control electric powertrain components, such as motors, valves, and battery systems. Adapting to the unique requirements of electric vehicle applications, including high-voltage systems and regenerative braking, requires significant R&D and engineering efforts.

### Cybersecurity Concerns

With increasing vehicle connectivity and automation, cybersecurity has become a pressing concern. Actuators that control critical vehicle functions are susceptible to cyberattacks. Ensuring the cybersecurity of these components to prevent unauthorized access and manipulation is a complex and evolving challenge.

### Supply Chain Disruptions

Global supply chain disruptions, such as those seen during the COVID-19 pandemic, can disrupt the production and delivery of actuator components. Managing these disruptions and maintaining a resilient supply chain is crucial to ensure a continuous and stable supply of actuators to the automotive industry.

### Miniaturization and Durability

Actuators are often required to be compact and lightweight to fit within modern vehicle designs. Achieving miniaturization while ensuring durability and longevity is challenging. Actuators must withstand the rigors of daily use and exposure to varying environmental conditions without compromising performance or reliability.

In summary, the Global Passenger Car Actuators Market faces multifaceted challenges related to integration complexities, cost pressures, safety and reliability standards, emissions regulations, the transition to electrification, cybersecurity concerns, supply chain disruptions, and the need for durable miniaturized components. Successfully addressing these challenges is crucial for the continued advancement of actuator technologies and their integral role in enhancing vehicle safety, efficiency, and functionality.

## Key Market Trends

### Electrification and Hybridization

One of the most prominent trends is the electrification of vehicles. With the global shift towards electric vehicles (EVs) and hybrid electric vehicles (HEVs), actuator technologies are evolving to meet the unique requirements of electric powertrains. Actuators play a crucial role in controlling electric motors, battery systems, and charging mechanisms, making them integral to the success of electrified vehicles.

### Advanced Driver Assistance Systems (ADAS)

The integration of advanced driver assistance systems is on the rise. Actuators are essential components in ADAS features like adaptive cruise control, lane-keeping assistance, and autonomous emergency braking. As vehicles become more equipped with ADAS, actuators are increasingly used to ensure precise control, enhancing both safety and comfort for drivers.

### Autonomous Driving

The pursuit of autonomous vehicles is a driving force behind actuator development. Actuators are fundamental to autonomous driving systems, enabling functions like autonomous steering, braking, and acceleration. As autonomous vehicles move closer to commercial deployment, actuator technologies are evolving to meet the stringent safety and reliability requirements of these systems.

### Efficiency Optimization

Automakers are continuously striving to improve fuel efficiency and reduce emissions. Actuators play a vital role in optimizing engine performance, enhancing fuel economy, and reducing emissions. Innovations in actuator design, such as variable valve timing and electronic throttle control, contribute to more efficient combustion in internal combustion engines.

### Lightweight Materials

Actuator manufacturers are increasingly incorporating lightweight materials, such as composites and high-strength alloys, to reduce the weight of actuator components. This

trend aligns with automakers' efforts to design lighter vehicles to improve fuel efficiency and extend electric vehicle range.

### Miniaturization and Integration

The trend toward smaller and more compact vehicle designs necessitates the miniaturization of actuator components. Manufacturers are designing actuators that are not only smaller but also more integrated into various vehicle systems. This reduces space requirements and simplifies installation, contributing to overall vehicle efficiency and design flexibility.

### Smart and Connected Actuators

Actuators are becoming smarter and more connected. Integrated sensors and feedback mechanisms enable real-time monitoring and adjustment of actuator performance. This connectivity also allows for over-the-air updates and diagnostics, enhancing maintenance and reducing downtime.

### Sustainability and Green Initiatives

Actuator manufacturers are increasingly focusing on sustainability. This includes efforts to reduce the environmental impact of actuator production processes, such as minimizing waste and energy consumption. Additionally, actuators are used in systems that contribute to vehicle energy efficiency, aligning with global green initiatives.

In summary, the Global Passenger Car Actuators Market is characterized by trends such as electrification, the integration of advanced driver assistance systems, the pursuit of autonomous driving, efficiency optimization, lightweight materials, miniaturization, smart and connected actuator solutions, and a growing emphasis on sustainability. These trends collectively drive innovation in the industry and contribute to safer, more efficient, and environmentally responsible passenger cars.

### Segmental Insights

#### By Vehicle Types

Sedans and hatchbacks, known for their versatility and practicality, utilize various actuators to enhance comfort, convenience, and performance. Actuators play a vital role in power seat adjustments, allowing occupants to find their ideal driving position with



ease. They also control power windows, enabling precise control of window positions for passenger comfort and safety. Actuators are essential for HVAC systems, ensuring effective temperature and air distribution. Throttle control actuators contribute to the smooth operation and fuel efficiency of these vehicles.

SUVs and crossovers, renowned for their versatility and off-road capabilities, rely on actuators for a wide range of functions. Power tailgate actuators automate the opening and closing of tailgates, simplifying cargo loading and unloading. Four-wheel-drive actuators engage and disengage the vehicle's four-wheel-drive system, providing traction in challenging terrain. Additionally, actuators control various interior features, including adjustable seats, climate control systems, and power-adjustable mirrors, enhancing the overall driving experience.

Sports cars, characterized by their high-performance capabilities, leverage actuator technologies to optimize power and handling. Actuators are integral to precision-engineered throttle control systems, allowing for rapid acceleration and responsiveness. Steering and suspension actuators enable dynamic handling and agility, ensuring that these vehicles can navigate corners and curves with precision. In convertible sports cars, actuator-driven mechanisms power the retractable roofs, adding a touch of sophistication and versatility to the driving experience.

Electric vehicles (EVs) and hybrid electric vehicles (HEVs) represent a growing segment within the passenger car market, and actuators play a critical role in these vehicles' success. Electric motor actuators control the power output of electric motors, facilitating efficient energy conversion and vehicle propulsion. Additionally, actuators are essential for managing the battery systems, ensuring optimal charging and discharging for extended electric range. In summary, the Global Passenger Car Actuators Market caters to a wide range of vehicle types, each with distinct needs and demands for actuator technologies. These actuators contribute to comfort, convenience, performance, and efficiency in sedans, SUVs, sports cars, and electric vehicles, enhancing the overall driving experience for passengers and drivers alike.

## By Type

Door lock actuators are fundamental for ensuring the security and convenience of passengers. These actuators control the locking and unlocking of doors and are often integrated with keyless entry systems. When a passenger activates the door locks via a key fob or interior switch, the door lock actuators engage, securing the vehicle. This feature enhances both safety and convenience for occupants, especially in today's fast-



paced urban environments. Engine cooling actuators are responsible for regulating the flow of coolant through the vehicle's radiator. They help manage engine temperature by controlling the radiator shutter's position. In hot conditions or during heavy engine loads, the actuators adjust the shutter to allow more airflow for effective cooling. Conversely, in cold weather, the shutter may partially close to retain heat and optimize engine efficiency. This adaptive control helps maintain the engine's ideal operating temperature and reduces unnecessary energy consumption.

Power seat actuators offer passengers and drivers the flexibility to adjust their seating positions for comfort and ergonomic support. These actuators control various seat functions, including seat height, recline angle, lumbar support, and forward/backward movement. They enable passengers to tailor their seating arrangement to their liking, enhancing comfort during long drives and improving overall driving satisfaction.

These various actuator types cater to specific functions and systems within passenger cars, contributing to safety, comfort, and the overall driving experience. Automakers continually innovate in actuator technology to meet evolving consumer expectations and regulatory requirements, promoting advancements in vehicle performance, efficiency, and convenience.

### By Application

Actuators in this segment play a crucial role in regulating the powertrain and engine functions. Throttle actuators, for instance, control the engine's air intake, optimizing fuel efficiency and performance. Additionally, engine cooling actuators help manage engine temperature by regulating the radiator shutter's position, ensuring the engine operates within the ideal temperature range. HVAC actuators are vital for climate control within passenger cars. These actuators regulate airflow, temperature, and air distribution, ensuring passengers remain comfortable regardless of external conditions. They control functions such as adjusting air blend doors, selecting heating or cooling modes, and directing airflow to specific vents or zones within the cabin.

Actuators in this segment enhance passengers' interior comfort and convenience. Power seat actuators, for example, allow passengers to adjust their seating positions, including seat height, recline angle, lumbar support, and seat movement. These actuators enable occupants to customize their seating arrangement, enhancing comfort during long drives and improving overall driving satisfaction.

### By Region

The Global Passenger Car Actuators Market displays regional variations. In North America, strong automotive industry and consumer demand for advanced technologies drive the market. Europe focuses on stringent safety and emissions standards, favoring actuators for ADAS and emissions control. In Asia-Pacific, the growing automotive industry and rising consumer expectations contribute to a thriving market. Latin America seeks actuator solutions that cater to varying climate conditions, while the Middle East & Africa prioritize durability and off-road capabilities, influencing actuator preferences.

## Regional Insights

**North America:** North America, comprising the United States and Canada, is a significant market for passenger car actuators. The region's strong automotive industry and consumer demand for advanced technologies drive the market. North American consumers place a significant emphasis on safety features and comfortable driving experiences. As a result, there is a high demand for actuators used in power seats, HVAC systems, and advanced driver assistance systems (ADAS). Stringent safety regulations also encourage automakers to integrate advanced actuator technologies into their vehicles to meet compliance standards.

Europe is characterized by stringent safety and emissions standards, which significantly influence the passenger car actuators market. European consumers prioritize safety and environmental sustainability, driving the demand for actuators used in ADAS and emissions control systems. European automakers invest heavily in advanced actuator technologies to ensure compliance with these standards. Additionally, Europe's strong focus on luxury and premium vehicles enhances the demand for actuators that improve passenger comfort and driving experience.

The Asia-Pacific region, including countries like China, India, Japan, and South Korea, represents a rapidly growing market for passenger car actuators. The region's burgeoning automotive industry, rising consumer expectations, and a growing middle class contribute to a thriving market. Asian consumers seek advanced features and technologies in their vehicles, driving the demand for actuators used in power seats, infotainment systems, and electric powertrains. Additionally, the adoption of electric vehicles (EVs) and hybrid electric vehicles (HEVs) in countries like China fuels the demand for actuators specific to electric powertrains. Latin America presents unique challenges and opportunities in the passenger car actuators market. Varying climate conditions across the region necessitate actuator solutions that cater to extreme temperatures and terrain. Consumers in this region value durability and off-road

capabilities, influencing their actuator preferences. The market dynamics can vary significantly from one country to another, reflecting economic factors, infrastructure development, and local consumer behaviors.

The Middle East & Africa region is characterized by a rising demand for passenger car actuators, driven by infrastructure development, a thriving logistics sector, and construction activities. Off-road vehicles, including SUVs and pickup trucks, play a vital role in these industries, necessitating actuators capable of withstanding high temperatures and harsh operating conditions. Additionally, the region's focus on durability and off-road capabilities influences actuator preferences. Actuator manufacturers tailor their products to meet the specific needs of this challenging market, ensuring reliability and performance in extreme environments.

In conclusion, the Global Passenger Car Actuators Market exhibits diverse regional dynamics, with North America emphasizing safety and consumer comfort, Europe focusing on stringent regulations and sustainability, Asia-Pacific experiencing rapid growth driven by technology adoption, Latin America seeking durability and adaptability, and the Middle East & Africa emphasizing reliability in challenging conditions. Automakers and actuator manufacturers adapt their products to meet these distinct regional demands, contributing to the overall growth and evolution of the market.

### Key Market Players

Continental AG

BorgWarner Inc.

Aptiv PLC

Robert Bosch GmbH

Mitsubishi Electric Corporation

Nidec Corporation

Johnson Electric Holdings Limited

Hitachi Ltd.

CTS Corporation

Denso Corp.

Report Scope:

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

Passenger Car Actuators Market, By Vehicle Types:

SUV

Sedan

Hatchback

MUV

Passenger Car Actuators Market, By Type:

Pneumatic Actuators

Hydraulic Actuators

Electric Actuators

Others

Passenger Car Actuators Market, By Application:

Fuel Injection Actuators

Throttle Actuators

Brake Actuators

Others

## Passenger Car Actuators Market, By Region:

### North America

United States

Canada

Mexico

### Europe & CIS

Germany

Spain

France

Russia

Italy

United Kingdom

Belgium

### Asia-Pacific

China

India

Japan

Indonesia

Thailand

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

Turkey

Iran

Saudi Arabia

UAE

## Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Passenger Car Actuators Market.

## Available Customizations:

Global Passenger Car Actuators Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

## Company Information

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

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