

## Report Information

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# Automotive Actuators Market Research Report - Forecast to 2030

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## Description:

### Global Automotive Actuators Market Overview

The Automotive Actuators Market will see substantial growth at a rate of 7% from 2022 to 2030. The market size shall go from USD 22.8 billion in 2019 to USD 40 billion in 2030.

Any source of energy in the vehicle can be converted into motion by the actuator, a mechanical component. It is a machine that takes energy produced by air, electricity, and liquid and transforms it into movement. From the ailerons on airplanes to the electric door locks in cars, actuators are everywhere. Actuators are used in industrial plants to control valves, fluid couplings, dampers, and other equipment for industrial process control. The central control unit's electrical signals are transformed into physical action by actuators. By controlling the engine's flywheel rotation, idle speed, and torque, the performance and engine efficiency of the vehicle are improved.

There are three different kinds of automotive actuators: hydraulic, electric, and pneumatic. In a hydraulic actuator, a fluid motor uses hydraulic power to carry out a mechanical action. Motion is produced either in an oscillatory, linear, or rotating fashion. The capacity to convert energy makes pneumatic actuators very popular. It promotes its use in engine controls because it transforms compressed air energy into linear motion. During this time, pneumatic actuators are employed in engine control to instantly fire operations; the system must react rapidly when beginning and stopping. The market for automotive actuators should also benefit from the surge in consumer demand for fuel-efficient vehicles.

### Automotive Actuators Market Driver

#### Automotive Actuators Market to Thrive Thanks to Surge in R&D

Research & Development to foster forthcoming innovations in the production of enhanced Automotive actuators. Research and development play a vital role in triggering innovation in the Automotive Actuators Market. This is a crucial factor that is expected to influence the Automotive Actuators Market in the coming years, which could bring innovations in product offerings.

The European Czech Republic witnessed a similar incident when Eaton European Innovation Centre was awarded a \$1.5 million grant from the Technology Agency of the Czech Republic. The project focuses on improving engine energy efficiency by building an advanced cylinder deactivation system, for which an electro-mechanical actuator would be developed along with other necessary hardware. The project would expand my expertise and knowledge in electro-mechanical actuator design and control. Moreover, the emergence of self-driven cars proliferates automotive actuator demand. Globally recognized automotive manufacturers such as GM, Ford, Toyota, Daimler, and others are moving towards automated and self-driven technology to offer ease and advancements in driving. Automotive actuators and sensors are widely used for the production of self-driven automated cars, owing to which the demand for automotive actuators is expected to grow significantly.

#### Sales of Passenger and Commercial Vehicles to Surge

The OEMs have made interiors one of their key priority areas in order to increase passenger safety and comfort as passenger and commercial vehicle sales continue to increase. Actuators have drawn a lot of attention as a result of this attempt to make seats more intelligent and pleasant.

For altering lumbar support systems, seat positions, angles, and seat track actuators, seats use actuators. There are many different kinds of car seat adjustment actuators on the market, including, among others, geared motors for reclining adjustment, double output shafts for track drives, and linear actuators for height and tilt adjustments.

The market can anticipate remarkable growth backed by the rise in the sales of SUVs and high-end

automobiles on a global scale. To improve the experience of passengers, the OEMs have been implementing electronic systems to regulate practically every aspect of an automobile.

## **Automotive Actuators Market Segment Insights:**

### **Automotive Actuators Type Insights**

Pneumatic Actuators, Hydraulic Actuators, Electric Actuators, and Mechanical Actuators are the major automotive actuator types considered in the study. The market leader is the automobile hydraulic actuator segment. In order to increase the comfort and safety of heavy-duty vehicles, OEMs are placing a lot of emphasis on hydraulic actuators. To deliver tonnes of sand at construction sites, for instance, a truck must lift a huge load. The steering wheel-controlled oil flow from a hydraulic motor also assists in directing the wheels when they change direction.

### **Automotive Actuators End-User Insights**

Automotive, Oil & Gas, Aerospace & Défense, Pharmaceutical, Power, Food & Beverages, Chemicals, Water & Wastewater, and Mining & Metals are the major market end-users. The largest end-user in the market is the automotive industry. Government regulations for vehicle emissions, a growth in demand for fuel-efficient cars, and a growing emphasis on downsizing vehicle engines are the main factors driving the automotive actuators industry. The rise of the automotive sector, technical developments, and an increase in traffic accidents contribute to the market's expansion.

### **Automotive Actuators Market Regional Insights**

The geographical overview of the global market has been conducted in four major regions, including the Asia Pacific, North America, Europe, and the rest of the world.

The Asia-Pacific has taken precedent over the worldwide industry, with countries like China, Japan, and India moving towards becoming manufacturing centres for automotive components and supplying nations like the United States and Germany. The market is being driven by rising sales of both personal and business vehicles.

Limon Precision & Speed, Nutork Actuators & Valves, Brose, HELLA China, Mitsubishi, Changzhou, and Shengjie Electronic Co. are some of the most affluent players in China. Miniature electronic actuators, which assist the headlights in tracking and illuminating the road while moving, are the most recent innovation in the Chinese market. Many high-end models come with this feature.

The European market for automotive actuators will expand backed by the rising R&D efforts and a thriving automotive industry. The need for autonomous and semi-autonomous vehicles, as well as the expanding technology advancements in the German automotive sector, will further fuel market growth. The technologically advanced automotive industry in North America, in conjunction with the participation of significant market participants, favours the region's growth and expansion of the need for automotive actuators. Over the anticipated term, demand will only expand somewhat in the remainder of the world.

### **Automotive Actuators Market Players & Competitive Insights**

Automotive actuators are produced by numerous regional, national, and worldwide companies. Every business is vying for the highest market share in this fiercely competitive sector. Intense competition, frequent changes in legislation and government regulations, as well as other factors, have a significant impact on the market's expansion. Price, product quality, dependability, and aftermarket services are the factors on which the vendors compete.

The top players active in the global market recognized by MRFR include Aptiv PLC (U.S.), Hella KGaA Hueck & Co. (Germany), Continental AG (Germany), Robert Bosch GmbH (Germany), Denso Corporation (Japan), and Stoneridge Inc. (U.S.). Wabco Holdings Inc. (Belgium), Nidec Corporation (Japan), Mitsubishi Electric Corporation (Japan), and Sonceboz SA (Switzerland), etc.

### **Automotive Actuators Market Segmentation**

#### **Global Automotive Actuators Market, By Type**

- Pneumatic Actuators
- Hydraulic Actuators
- Electric Actuators
- Mechanical Actuators

#### **Global Automotive Actuators Market, By End-User**

- Automotive

- Oil & Gas
- Aerospace & defence
- Pharmaceutical
- Power
- Food & Beverages
- Chemicals
- Water & Wastewater
- Mining & Metals

## Automotive Actuators Market Regional Outlook

- North America
  - US
  - Canada
  - Mexico
- Europe
  - Germany
  - France
  - UK
  - Rest of Europe
- Asia-Pacific
  - China
  - Japan
  - India
  - Rest of Asia-Pacific
- Rest of the World
  - Middle East & Africa
  - South America

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