

# **Actuators Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028F Segmented By Motion (Linear and Rotary), By Type (Hydraulic, Pneumatic, Electric, and Others), By End-Use Industry (Aerospace & Defense, Automotive, Construction, Chemicals, Food & Beverages, Healthcare & Pharmaceuticals, Marine, Mining, Oil & Gas, Power Generation and Others), By Region**

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## **Abstracts**

Global actuators market is anticipated to thrive in the forecast period, 2024-2028. The increased use of actuators in heavy machinery across numerous automotive and auto industries has led to an increase in actuator demand. Global acceptance of mechanical advancement in automotive and electrical production is rising. Furthermore, there has been a rise in the demand for novel actuator types that are pertinent to the discipline of electrical engineering, hence driving growth in the global actuators market.

Additionally, it is expected that a surge in industrial automation would fuel market expansion.. Another element driving demand for industrial automation is the expanding global population. Manufacturers automate the process that aids in the mass production of products in order to meet the demands of the growing population, hence contributing to the actuators demand. Moreover, the market is expected to rise due to the increasing usage of industrial robots in mechanical sectors to speed up production and reduce human error.

An actuator is a component of a machine or equipment that aids in generating mechanical force by converting energy, frequently electrical, air, or hydraulic energy. It

is, to put it simply, the part of any machine that permits movement. The vibrator on the phone, domestic appliances, simple electronic access control systems, automobiles, industrial machinery, and robots are all examples of machines that utilize actuators. Electric motors, stepper motors, jackscrews, electric muscle stimulators in robots, etc. are typical examples of actuators.

### Rapid Use of Smart Actuators in Industries to Stimulate Growth

The latest advancement in the market is the introduction of cutting-edge technologies to create smart actuators. An integrated system of sensors, motors, communication devices, and controllers is known as a smart actuator. The smart actuator that controls the robots used in numerous industries can be quickly modified, constructed, or disassembled. The field's automation and control capabilities will improve as smart actuator use increases. Smart actuators offer a number of benefits, including improved controllability and diagnostic capabilities, increased productivity and efficiency, less complexity and cabling, lower software and hardware costs, improved machine functionality, and others.

### Increase in Safety Measurements in Industries

Numerous manufacturing businesses significantly consider safety and security measures for the wellness of their workforces. Actuators aid in monitoring and controlling the flow of several chemicals, gases, and other fluids that may be dangerous to people. These actuators function to stop any undesirable circumstance that could be caused by an overflow or disruption of the flow of a fluid. Worker safety is ensured by these actuators, which operate in accordance with various criteria including pressure, temperature, or volume. As a result, the demand for actuators is driven by strict laws and regulations surrounding safe operations in any industry.

### High Installation & Maintenance Costs of Hydraulic and Pneumatic Actuators to Hamper Growth

Due to the fluids they contain, hydraulic actuators are challenging to install. As a result, installing it might be expensive, especially when installing it for a large manufacturing line. It is anticipated that this may impede market expansion. Additionally, to produce the necessary output, hydraulic actuation systems employ a fluid medium like oil or water, while pneumatic actuation systems use air. The market is hampered by oil or water leaks since they harm the product, reduce its effectiveness, and raise its maintenance costs. The many actuators used in a wide range of applications have

problems. Efficiency is compromised in the case of hydraulic linear actuators due to fluid leakage, which causes problems with cleanliness. Additionally, it necessitates routine inspection and upkeep of the likes of motors, release valves, fluid reservoirs, pumps, and more. Additionally, the complexity and cost are increased by the pneumatic actuators' need for proportional-sized valves, compressors, and regulators for various operations. As a result, the market growth of actuators is hampered by key reasons such continuous seal wear, improper assembly or maintenance, dangers related to steam valves, decreased control quality, and others.

## Market Segmentation

The Global Actuators Market is segmented into motion, type, end-use industry. Based on motion, the market is segmented into linear and rotary. Based on type, the market is divided into hydraulic, pneumatic, electric, and others. Based on end-use industry, it is categorized into aerospace & defense, automotive, construction, chemicals, food & beverages, healthcare & pharmaceuticals, marine, mining, oil & gas, power generation and others.

## Market Players

Major market players in the global actuators market are Eaton Corporation plc, The Emerson Electric Company, Festo AG & Co. KG, Flowserve Corporation, Honeywell International Inc., KITZ Corporation, Rotork plc., SAMSON AG, Tamagawa Seiki Co. Ltd. and SMC Corporation.

## Report Scope:

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

### Actuators Market, By Motion

Linear

Rotary

### Actuators Market, By Type

Hydraulic

Pneumatic

Electric

Others

#### Actuators Market, By End-Use Industry

Aerospace & Defense

Automotive

Construction

Chemicals

Food & Beverages

Healthcare & Pharmaceuticals

Marine

Mining

Oil & Gas

Power Generation

Others

#### Actuators Market, By Region:

North America

United States

Canada

Mexico

Asia-Pacific

China

India

Japan

South Korea

Australia

Singapore

Malaysia

Europe

Germany

United Kingdom

France

Russia

Spain

Belgium

Italy

South America

Brazil

Argentina

Colombia

Peru

Chile

Middle East & Africa

Saudi Arabia

South Africa

UAE

Israel

Turkey

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Actuators market.

Available Customizations:

Global 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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