

Military Actuators - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

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Report description:

The Military Actuators Market is expected to register a CAGR of 3.14% during the forecast period.

The market of military actuators was slightly affected due to the impact of the COVID-19 pandemic as the deliveries of aircraft decreased in 2020. However, as the global economy recovered in 2021 and manufacturing facilities began operating at production rates similar to the pre-COVID levels, the demand for military actuators is expected to witness positive growth during the forecast period.

The gradually growing military spending of various countries in the world due to geopolitical issues and border tensions is propelling the procurement of new military equipment such as armored vehicles, aircraft, and naval vessels to strengthen their military capabilities. Such procurements are driving the growth of the military actuators market during the forecast period.

The companies and armed forces are collaborating on introducing advanced manufacturing technologies like 3D printing into the defense industry. The 3D printed technology is anticipated to allow the companies to manufacture the actuators into a single structure, which will reduce their overall weight. The introduction of such technologies is anticipated to accelerate the growth of the market in the coming years.

The growing emphasis on the development of local defense manufacturing facilities in the Asia-Pacific and Middle-East and Africa is allowing the actuator manufacturing companies to shift their focus towards these regions to enhance their sales in the coming years.

Military Actuators Market Trends

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The Land Segment is Anticipated to Witness Highest Growth During the Forecast Period

Countries worldwide have been increasing their defense spending every year and investing in improving their defense capabilities. Countries having tensions with neighboring nations have been spending more on various ground vehicles along with other military systems. In June 2022, the Defense Acquisition Program Administration (DAPA) of South Korea signed a deal with Hyundai Rotem to acquire an unspecified number of wheeled command post vehicles (CPVs). This deal is worth USD 44.7 million, and the CPVs will be delivered in 2023 to battalions and higher-level units in the Republic of Korea Army (RoKA) and the Republic of Korea Marine Corps (RoKMC). The demand for unmanned ground vehicles has also increased as countries procure them for different missions. With the increase in demand, new models of unmanned ground vehicles are being manufactured. In December 2022, Indian Army procured Tracked Hybrid Modular Infantry System (THeMIS) unmanned ground vehicle (UGV) made by Milrem Robotics from Estonia. In November 2022, Hanwha Aerospace successfully demonstrated the capabilities of Arion-SMET, the company's new multi-purpose unmanned ground vehicle (UGV). The demonstration took place at a United States Army Garrison in South Korea. Unmanned systems in the military have become more popular these days because of the benefits they provide. These unmanned systems demand will increase the actuators market growth. For instance, in January 2023, Leidos segment Dynetics awarded Curtiss-Wright a contract to support the United States Army's future missile capabilities. Curtiss-Wright will develop electromechanical actuators integrated into the first 16 Dynetics-built Enduring Shield ground-based launcher systems. With the increase in procurement and development of ground vehicles, the land segment of the market will witness more growth than the sea and air segments during the forecast period.

North America is Likely to Witness the Highest CAGR During the Forecast Period

North America is expected to witness the highest growth during the forecast period due to increasing investments in terms of defense capabilities through the procurement of advanced weapons, armored vehicles, fighter jets, and military equipment which creates the demand for linear and rotary military actuators.

The United States is the highest defense spender in the world, with a defense budget of USD 801 billion in 2021. The country is highly investing in enhancing its defense capabilities by procuring advanced weapons, armored vehicles, fighter jets, and military equipment that creates demand for linear and rotary military actuators. Rising procurement of advanced defense systems from the United States Department of Defense (DoD) drives the market's growth across the country. For instance, in February 2023, Leidos segment Dynetics signed a contract with Curtiss-Wright to support the United States Army's future missile defense capabilities. Under the contract, the company will develop electromechanical actuators that move and control a mechanism or system. The actuators will be integrated into the first 16 Dynetics-built Enduring Shield ground-based launcher systems produced for the United States Army. Similar developments in Canada, will also contribute to the growth of the market in North America. The Canadian government plans to purchase four new strategic tanker transport aircraft in 2023. The government has allocated up to USD 4 billion to purchase planes. The formal request for its proposal for the aircraft was issued in May 2022.

Thus, growing investment in improving defense capabilities and increasing adoption of advanced fighter jets and military weapons will likely drive the market growth in the coming years.

Military Actuators Industry Overview

The military actuator market is fragmented, with many players that support various military programs. Some of the prominent players in the military actuators market include Raytheon Technologies Corporation, Curtiss-Wright Corporation, Nook Industries Inc., Kyntronics, and Moog Inc. Established players like Moog Inc., Curtiss-Wright Corporation, and Nook Industries Inc. provide actuators to aircraft programs, unmanned programs, armored vehicles, and surface vehicles. Many players are focusing on forming partnerships with defense original equipment manufacturers (OEMs) to provide actuators for their military platforms. For

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instance, in January 2022, Moog Actuation, a part of Moog Inc., announced that it would provide precision motion control for Gremlin's Air Recovery Mission. As part of the test for the Defense Advanced Research Agency (DARPA) for unmanned aviation, the company provided advanced avionic technologies to the program. Such developments are anticipated to boost the growth of companies in the coming years.

Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

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