

# **North America Servo Drives Market Size and Forecast (2021 - 2031), Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Drive (AC and DC), Category (Digital and Analog), Voltage (Low, Medium, and High), and Application (Semiconductor and Electronics, Automotive, Packaging, Oil and Gas, Metal and Mining, Pharmaceutical and Healthcare, and Other Applications)**

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## **Abstracts**

The North America servo drive market is projected to grow significantly, reaching an estimated US\$ 2,084.94 million by 2031, up from US\$ 1,404.87 million in 2024. This growth represents a compound annual growth rate (CAGR) of 6.0% from 2025 to 2031.

## **Executive Summary and Market Analysis**

The surge in the North American servo drive market is primarily fueled by the rapid advancement of industrial automation across various sectors, including automotive, aerospace, food and beverage, and consumer electronics. Companies are increasingly investing in automated machinery to enhance operational efficiencies and reduce labor costs. This trend is leading to a growing demand for servo drives, which are essential for precise motion control in automated systems. The integration of smart technologies, such as artificial intelligence (AI) and the Internet of Things (IoT), into manufacturing processes is further driving the need for high-performance and energy-efficient servo drives that can support real-time data feedback and remote diagnostics.

The presence of major automation companies and technology developers in the United

States and Canada is also accelerating the adoption of advanced servo drive systems. Additionally, regulatory support for energy-efficient technologies and a heightened awareness of predictive maintenance practices are contributing to the positive trajectory of the servo drive market in North America.

A notable example of this trend is Hyundai's recent investment in a new electric vehicle (EV) manufacturing facility in Georgia, which amounts to US\$ 7.6 billion. This facility aims to expand production capacity significantly, targeting an annual output of 500,000 vehicles. The demand for precise and high-speed automation in EV manufacturing, particularly across assembly lines and battery systems, is expected to drive substantial demand for advanced servo drives, which are critical for ensuring the accuracy and efficiency required in modern automotive manufacturing.

## **Market Segmentation Analysis**

The North America servo drive market can be segmented based on drive type, category, voltage, and application:

**Drive Type:** The market is divided into AC and DC servo drives, with the AC segment holding a larger market share in 2024.

**Category:** The market is further categorized into digital and analog servo drives, where the digital segment also holds a larger share.

**Voltage:** The voltage segmentation includes low, medium, and high voltage, with the low voltage segment leading the market in 2024.

**Application:** The applications of servo drives span various industries, including semiconductor and electronics, automotive, packaging, oil and gas, metal and mining, and pharmaceutical and healthcare, with the semiconductor and electronics segment being the largest in 2024.

## **Market Outlook**

The servo drive market is experiencing a significant transformation, driven by advancements in feedback systems. As industries increasingly adopt automation, robotics, and high-performance motion control applications, the demand for higher precision in servo drives is becoming critical. Innovations in feedback technologies,

such as high-resolution optical encoders and advanced resolvers, are central to this evolution, enabling more accurate control over speed, torque, and position.

One of the notable developments in this area is the integration of Dual Universal Feedback capabilities in modern servo drives. This feature allows for the simultaneous use of two different feedback sources on the same motion axis, enhancing system design flexibility and performance. For instance, pairing an incremental encoder with an absolute encoder can optimize performance for specific applications, particularly where redundancy is necessary. This capability is increasingly important in applications requiring high reliability and precision.

As Industry 4.0 and the Industrial Internet of Things (IIoT) gain momentum, the need for servo systems that provide robust diagnostic data and interoperability is growing. Advanced feedback systems facilitate predictive maintenance by identifying early signs of wear or failure, thus reducing downtime and enhancing overall system intelligence. Manufacturers that incorporate high-performance feedback options and universal compatibility into their products are well-positioned to capture a significant share of the expanding market.

## **Country Insights**

The North American servo drive market is primarily composed of the United States, Canada, and Mexico, with the US holding the largest market share in 2024. A significant development in the US market is the inauguration of TRUMPF's smart factory in Farmington, Connecticut, which enhances local manufacturing capabilities and showcases a commitment to advanced production technologies. This facility integrates digitalization, IoT, and AI, reflecting a broader shift towards intelligent manufacturing environments. The demand for precision automation solutions, particularly servo drives, is expected to grow alongside these advancements, as they are fundamental to the operation of CNC machinery and robotic systems.

## **Company Profiles**

Key players in the North America servo drive market include ABB Ltd, Fuji Electric Co Ltd, Hitachi Ltd, Bosch Rexroth AG, Rockwell Automation Inc, Schneider Electric SE, Siemens AG, Beckhoff Automation GmbH & Co. KG, and Infranor GmbH, among others. These companies are employing various strategies, including expansion, product innovation, and mergers and acquisitions, to enhance their market presence and offer innovative products to consumers.

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