

Asia Pacific 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 Asia Pacific servo drive market is projected to grow significantly, reaching an estimated US\$ 4,339.20 million by 2031, up from US\$ 2,877.60 million in 2024. This growth represents a compound annual growth rate (CAGR) of 6.2% from 2025 to 2031, driven by several key factors.

Executive Summary and Market Analysis

The servo drive market in the Asia Pacific region is experiencing robust growth due to rapid industrialization and a booming manufacturing sector. The increasing adoption of automation technologies across various industries, including automotive, electronics, and packaging, is a major contributor to this trend. Governments in leading economies such as China, Japan, South Korea, and India are actively promoting initiatives related to smart manufacturing and Industry 4.0. These initiatives have resulted in a heightened demand for advanced motion control systems, particularly servo drives, which are essential for high-performance automation.

The robotics industry, especially in China and Japan, is also a significant driver of

demand for precise and efficient motor control solutions. As technological advancements continue to evolve, the acceptance of these innovations, coupled with strong export-oriented economies, is attracting substantial investments in factory automation throughout the region. Additionally, the growing trend of electric vehicles (EVs), the rising demand for consumer electronics, and the push for energy-efficient solutions are compelling manufacturers to adopt advanced servo systems. These systems enhance productivity, precision, and energy savings, making them increasingly vital in modern manufacturing processes.

A notable development in the market occurred on July 25, 2024, when Cisco and Rockwell Automation announced a strategic collaboration aimed at driving digital transformation in the industrial sector across Asia Pacific, Japan, and Greater China. This partnership, formalized through a Memorandum of Understanding, seeks to implement cutting-edge automation solutions, including connected factories and industrial Internet of Things (IoT) technologies. Such initiatives are expected to bolster the infrastructure necessary for advanced motion control technologies like servo drives, enabling manufacturers to optimize operations, enhance productivity, and secure their industrial networks. This collaboration aligns with the broader regional push towards smart manufacturing, which is anticipated to be a significant catalyst for the growth of the servo drive market.

Market Segmentation Analysis

The Asia Pacific 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 commands 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 sectors, including semiconductor and electronics, automotive, packaging, oil and gas, metal and mining, pharmaceutical and healthcare, among others. The semiconductor and electronics sector held the largest share in 2024.

Market Outlook

Technological innovations are crucial in advancing the servo drive market. Manufacturers are continuously enhancing servo drive systems to improve performance, flexibility, and cost-effectiveness. A significant focus is on energy efficiency, as industries face increasing pressure to reduce energy consumption and meet sustainability goals. Modern servo drives are being designed with features such as regenerative braking and optimized power usage, which help lower operational costs and minimize environmental impact.

Moreover, trends in miniaturization and compact design are transforming how servo drives are integrated into machinery. The emphasis on optimal space utilization has led to the development of smaller and lighter servo drives that do not compromise performance. This is particularly beneficial for applications in robotics, semiconductor equipment, and compact automation solutions, allowing for more flexible and efficient system designs.

Country Insights

The Asia Pacific servo drive market includes key countries such as China, Japan, South Korea, India, Australia, and others. China, in particular, holds the largest market share as of 2024. The country has established itself as a powerhouse in industrial automation, with 276,288 industrial robots installed in 2023, accounting for 51% of global installations. Although this figure is slightly below the record high of 290,144 units in 2022, it highlights China's unmatched scale in robotic deployment. Domestic manufacturers have significantly increased their market share, rising from an average of 28% to 47% in 2023. By the end of 2023, China's operational stock of industrial robots reached approximately 1.8 million units, making it the only country to achieve this milestone. This rapid growth in robotics is driving a parallel increase in demand for high-performance motion control systems, particularly servo drives, which are essential for robotic precision and efficiency.

Company Profiles

Key players in the Asia Pacific 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 deliver innovative products and enhance their market share.

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