

# **North America Articulated Robots Market Size, Share, Trends & Analysis by Axis (2 to 4, 4 to 6, Above 6), by Component (Hardware, Software), by Application (Packaging, Material Handling, Assembling, Machine Loading, Others), by End-User (Automotive, Aerospace, Chemicals, Manufacturing, Healthcare, Others) and Region, with Forecasts from 2025 to 2034.**

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## **Abstracts**

### **Market Overview**

The North America Articulated Robots Market is anticipated to experience significant growth from 2025 to 2034, fueled by rapid advancements in automation, increasing adoption of industrial robotics across manufacturing sectors, and growing demand for flexible, high-precision robotic solutions. Articulated robots, characterized by rotary joints offering two or more degrees of freedom, are increasingly integrated into production lines for tasks such as welding, assembly, material handling, and packaging. The market is projected to expand from USD XXX.XX million in 2025 to USD XX.XX million by 2034, registering a CAGR of XX.XX% over the forecast period.

### **Definition and Scope of Articulated Robots**

Articulated robots are robotic systems with multiple rotary joints (commonly 2 to 6 or more) that enable a wide range of motion and versatility, closely mimicking human arm movements. These robots are extensively deployed across industries that require precision, speed, and repeatability in operations. The market scope covers various axis configurations, including 2 to 4, 4 to 6, and above 6-axis robots, alongside hardware and software components used to drive automation in applications like packaging,

assembling, and machine loading.

## Market Drivers

**Rising Industrial Automation:** Manufacturers across North America are investing in articulated robots to optimize production, reduce operational costs, and address labor shortages in repetitive or hazardous tasks.

**Growing Demand in Automotive and Aerospace Sectors:** High-precision robotic arms are widely used in these industries for assembling, welding, and material handling, contributing significantly to overall market growth.

**Technological Advancements in Robotics:** Integration of AI, machine vision, and IoT technologies is enhancing the efficiency and adaptability of articulated robots in dynamic industrial environments.

**Focus on Workplace Safety and Productivity:** Companies are increasingly turning to robots to minimize human exposure to dangerous tasks while maintaining consistent productivity and quality standards.

## Market Restraints

**High Capital Investment:** The initial cost of procuring and integrating articulated robots, along with training personnel, may deter adoption, especially among small and medium-sized enterprises (SMEs).

**Complex Programming and Maintenance:** Operational complexity and the need for skilled personnel for setup and maintenance may limit adoption in certain sectors.

**Cybersecurity and Data Privacy Concerns:** Increasing connectivity of robotic systems to enterprise networks raises potential risks related to data breaches and operational disruptions.

## Opportunities

**Adoption in Healthcare and Chemical Industries:** Emerging use cases in

laboratories, cleanrooms, and chemical processing plants are opening new growth avenues for articulated robots, especially for tasks requiring precision and sterility.

**Expansion of Collaborative Robots (Cobots):** Increasing demand for safe, collaborative robots capable of working alongside human operators is driving innovation in articulated robot design.

**Regional Manufacturing Resurgence:** Policy support for reshoring and regional manufacturing in North America is expected to boost the demand for smart automation systems, including articulated robots.

**Customization and Modular Robotics:** Growing demand for configurable, task-specific robotic arms is encouraging manufacturers to develop scalable and modular robotic solutions.

## **Market Segmentation Analysis**

### By Axis

2 to 4 Axis

4 to 6 Axis

Above 6 Axis

### By Component

Hardware

Software

### By Application

Packaging

Material Handling

Assembling

Machine Loading

Others

By End-User

Automotive

Aerospace

Chemicals

Manufacturing

Healthcare

Others

## Regional Analysis

**United States:** The U.S. leads the regional market, supported by strong manufacturing infrastructure, aggressive adoption of smart factory technologies, and significant presence of global robotic system integrators.

**Canada:** Canadian industries, particularly automotive and aerospace, are increasing investment in robotic automation to improve efficiency and offset labor shortages.

**Mexico:** Mexico is emerging as a robotics hub in North America, driven by growth in automotive and electronics manufacturing and increasing foreign direct investment in industrial automation.

The North America Articulated Robots Market is poised for robust growth over the forecast period, driven by technological innovation, rising demand for high-precision automation, and expanding applications across diverse industry verticals. As industries

prioritize productivity, flexibility, and cost-efficiency, articulated robots will play an essential role in reshaping factory floors and optimizing supply chains.

### **Competitive Landscape**

The market features prominent global players and regional innovators focused on delivering high-performance, customizable articulated robotic solutions. Key companies operating in the North America Articulated Robots Market include:

ABB Ltd.

FANUC Corporation

Yaskawa Electric Corporation

KUKA AG

Mitsubishi Electric Corporation

Kawasaki Robotics

Denso Corporation

Epson America, Inc.

Comau S.p.A.

Universal Robots (a Teradyne company)

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