

# Agriculture Robots Market to Reach USD 89.34 Billion by 2032 Driven by Growing Demand for Food Production

*Drones provide high-resolution imagery and data for crop health monitoring, enabling early detection of issues like pest infestations and nutrient deficiencies.*

AUSTIN, TX, UNITED STATES, December 16, 2024 /EINPresswire.com/ -- The [Agriculture Robots Market](#) was valued at USD 13.08 Billion in 2023 and is projected to reach USD 89.34 Billion by 2032, growing at a compound annual growth rate (CAGR) of 23.8% from 2024 to 2032.



## Agricultural Robotics Market Expands as Automation Solves Labor Challenges and Boosts Efficiency



The Agriculture Robots Market is set for significant growth, driven by rising automation adoption to address labor shortages, enhance efficiency, and enable precision farming globally.”

*SNS Insider*

The agricultural robots market is gaining popularity among farmers due to the increasing demand for food and the need for sustainable farming. These robots are designed to automate various tasks, such as planting, harvesting, and soil management, reducing the reliance on human labor. With labor shortages becoming a significant global issue, especially in regions like California, where high wages deter workers from performing labor-intensive tasks, robotics offers a solution. By automating repetitive jobs, these robots enhance productivity, efficiency, and accuracy, leading to higher yields at reduced costs.

Dairy farms also benefit from robotic automation, which streamlines cleaning and feeding tasks, giving farmers more time for decision-making. As a result, large agricultural companies are

investing heavily in robotics technology. In countries like China and India, where agriculture remains labor-intensive, the adoption of agri-tech is seen as a critical solution to address labor shortages and ensure sustainable farming practices. This shift is supported by the growing interest in precision agriculture and smart farming solutions.

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### Major Players of Agriculture Robots Market

AGCO Corporation, Autonomous Solutions, Inc., BouMatic, CNH Industrial N.V., CLAAS KGaA mbH, GEA Group, Harvest Automation, Inc., Trimble, Inc., Monarch Tractor, Clearpath Robotics and Other Players

### By Application, Planting & Seeding Management Segment to Show Fastest Growth in Agricultural Robots Market from 2024-2032

The Planting & Seeding Management segment in the agricultural robots market is expected to grow at the fastest CAGR from 2024 to 2032 due to the increasing demand for precision and efficiency in crop planting. As the global population grows, farmers face the challenge of producing more food with fewer resources. Traditional planting methods are labour-intensive and time-consuming, often leading to inefficiencies and inconsistent yields. Agricultural robots designed for planting and seeding offer a solution by automating these processes with high precision, reducing human error, and ensuring optimal plant spacing and depth. This allows farmers to maximize crop production while minimizing resource usage.

### By Type, Milking Robots Lead Market in 2023, While UAV Drones Set for Fastest Growth from 2024-2032

The Milking Robots segment led the agricultural robots market in 2023, driven by their ability to automate milking processes, reduce labor costs, and improve milk yield consistency. Their adoption is growing rapidly due to the benefits of increased efficiency, better animal welfare, and higher farm productivity, making them a preferred choice in dairy farming.

The Unmanned Aerial Vehicles (UAVs) segment is expected to see the fastest growth from 2024 to 2032, fueled by the rising demand for precision agriculture. UAVs enable farmers to gather real-time data on crop health and soil conditions, enhancing decision-making and optimizing resource use, positioning drones as essential tools for future agricultural operations.

### By Offering, Hardware Dominates the Agriculture Robots Market in 2023, While Software Set for the Fastest Growth

The Hardware segment dominated the agricultural robots market in 2023, driven by the essential role of physical components such as sensors, actuators, and mechanical systems. These hardware elements are crucial for ensuring the functionality and efficiency of agricultural robots, leading to strong demand as automation technology continues to advance.

The Software segment is expected to grow at the fastest CAGR from 2024 to 2032, as advancements in AI, machine learning, and data analytics transform farming practices. Software plays a vital role in enabling real-time decision-making, integrating data from various hardware systems, and optimizing farming processes, making it a key driver for the future of precision agriculture.

## North America Leads Agriculture Robots Market in 2023, While Asia Pacific Set for Fastest Growth

North America led the agricultural robots market in 2023, driven by its advanced technological infrastructure, high automation adoption, and strong investment in smart farming practices. The U.S. and Canada, in particular, have embraced robotic solutions to address labor shortages and enhance farming efficiency, contributing to the region's market dominance.

Asia Pacific is projected to grow at the fastest CAGR from 2024 to 2032 due to rising labor shortages, increasing wages, and the growing demand for food production. Countries like China and India are investing heavily in agricultural automation and robotics to modernize farming practices, making the region a key driver of future market growth.

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## Key Market Segments

### By Offering

- Hardware
- Software
- Service

### By Farming Environment

- Indoor
- Outdoor

### By Type

- Milking Robots
- Unmanned Aerial Vehicles (UAVs) Drones
- Driverless Tractors
- Automated Harvesting System
- Others

### By Farm Produce

- Field Crops
- Fruits & Vegetables
- Dairy & Livestock

- Others

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## Key Developments in the Agriculture Robots Market

□ On July 22, 2024, Monarch Tractor announced securing \$133 million in Series C funding, solidifying its leadership with the world's first fully electric, driver-optional, smart tractor.

□ Clearpath Robotics announced the launch of its next-generation Husky A300 robotic platform on October 15, 2024.

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Contact Us:

Akash Anand – Head of Business Development & Strategy

info@snsinsider.com

Phone: +1-415-230-0044 (US)

Akash Anand

SNS Insider Pvt. Ltd

415-230-0044

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