

Agriculture Robots Market by Type (Unmanned Aerial Vehicles/Drones, Milking Robots, Driverless Tractors, Automated Harvesting Systems), Farming Environment (Indoor and Outdoor), End-use Application and Region - Global Forecast to 2028

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Abstracts

The agricultural robots market is projected to grow from USD 13.5 Billion in 2023 to USD 40.1 Billion by 2028, at a CAGR of 24.3% during the forecast period. Increased awareness about digital agriculture is driving the widespread usage of agriculture robots as farmers recognize the transformative potential of advanced technologies in modernizing and optimizing farming practices. Digital agriculture encompasses the integration of cutting-edge technologies such as robotics, artificial intelligence, data analytics, and the Internet of Things (IoT) into traditional farming methods, unlocking new possibilities for increased efficiency, sustainability, and productivity. One of the key drivers of agriculture robot adoption is the growing understanding of the benefits they offer. With increased awareness, farmers are recognizing that these robots can automate labor-intensive tasks, reduce operational costs, and enhance overall farm management. By leveraging advanced sensors and AI algorithms, agriculture robots can collect real-time data on soil health, crop conditions, and weather patterns, enabling data-driven decision-making and precision farming practices.

“The Outdoor segment is expected to account for the largest share in 2023.”

Agriculture robots are set to revolutionize outdoor farming applications, offering numerous benefits that will transform the way farming is conducted. These advanced machines, equipped with cutting-edge technologies, are poised to address critical challenges faced by farmers and enhance productivity, sustainability, and efficiency in outdoor farming. Agriculture robots can perform tasks with unmatched precision, thanks

to their advanced sensors, GPS technology, and artificial intelligence capabilities. They can accurately plant seeds, apply fertilizers, and dispense pesticides, reducing waste and optimizing resource usage. Precision farming ensures that crops receive the right amount of inputs precisely where they are needed, leading to increased yields and cost savings.

“The Farm produce sub-segment is projected to dominate the market share in the end-user segment during the forecast period.”

Agricultural robots will revolutionize farm produce by enhancing efficiency and productivity. These robots can autonomously perform various tasks, such as planting, weeding, harvesting, and monitoring crops. With precise data collection and analysis, they optimize resource usage and reduce waste. Additionally, robots can operate 24/7, ensuring timely actions, even in adverse conditions. Their consistent performance improves crop quality and yield. By minimizing manual labor, farmers save time and costs, enhancing their profitability. Moreover, agricultural robots promote sustainable practices by using fewer chemicals and reducing environmental impact. Overall, these technological advancements empower farmers to meet rising demands and secure a more food-secure and sustainable future.

Driverless tractors are expected to be utilized on a large scale—despite their high price—as labor costs keep rising. Various AGVs are expected to be utilized for farming field crops for planting, spraying, and weeding. Since field crops require extensive farmlands, UAVs are also expected to be utilized on a large scale in field crops compared with other types of agricultural produce. Hence, field crops are expected to have the highest share of the market and the highest growth rate during the forecast period.

Europe is to grow significantly during the forecast period.

The agricultural robots market in Europe exhibits a high degree of professionalism and technological adoption. However, the lack of large farms and slightly higher input costs create a marginal disadvantage compared to the US market. The agricultural robots market in Europe is projected to witness substantial growth in the near future as this region is currently in the early stage of the adoption of autonomous harvesting systems and driverless tractors. According to the European Committee of Farm Machinery Manufacturer's Associations (CEMA), the European agricultural machinery market is currently growing, which is expected to fuel the growth of the agricultural robots market as well. The major factors contributing to the agricultural robots market's growth in

Europe include improved productivity through mechanization, an optimized supply chain, and increasing labor cost owing to the shortage of skilled labor. Uncertainty regarding government support, low farm income, and import restrictions from Russia are the major restraints.

The European agricultural machinery industry is one of the most developed in the world and is supported by the presence of global players, such as John Deere (US), Small Robot Company (UK), Earth Rover (UK), Saga Robotics (Norway), CNH Industrial (The Netherlands), and AGCO Corporation (US).

The break-up of the profile of primary participants in the agricultural robots market:

By Company Type: Tier 1 – 30%, Tier 2 – 45%, and Tier 3 – 25%

By Designation: CXOs – 25%, Manager– 50%, Executives-25%

By Region: North America – 25%, Europe – 25%, Asia Pacific – 40%, Rest of the world– 10%

Prominent companies include DJI (China), PrecisionHawk (US), Trimble Inc. (US), Parrot Drones (France), AeroVironment, Inc. (US), Yamaha Motor Co., Ltd. (Japan), AgEagle Aerial Systems, Inc. (US), DroneDeploy (US), 3DR (US), and Sentra Inc. (US) among others.

Research Coverage:

This research report categorizes the Agricultural Robots Market by Type, End Use, Application, Farming Environment, and Region. The scope of the report covers detailed information regarding the major factors, such as drivers, restraints, challenges, and opportunities, influencing the growth of the Agricultural robots market. A detailed analysis of the key industry players has been done to provide insights into their business overview, solutions, services; key strategies; Contracts, partnerships, and agreements. New product & service launches, mergers and acquisitions, and recent developments associated with the Agricultural robots market. Competitive analysis of upcoming startups in the Agricultural robots market ecosystem is covered in this report.

Reasons to buy this report:

The report will help the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall agricultural robots market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

Analysis of key drivers (Labour Shortages and rising costs, Environmental concerns, Government incentives, and subsidies), restraints (High initial investments, technological complexity, Regulations, and standards), opportunities (Customisations and modularity, IoT, and AI, and growing research and developments), challenges (Resistance to change and connectivity and costing issues) influencing the growth of the agriculture robots market.

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the agriculture robots market.

Market Development: Comprehensive information about lucrative markets – the report analyses the agriculture robots market across varied regions.

Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the agriculture robots market.

Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players like DJI (China), PrecisionHawk (US), Trimble Inc. (US), Deere & Company (US), AGCO Corporation (US), DroneDeploy (US), 3DR (US), and Sentera Inc. (US) among others in the agricultural robots market strategies. The report also helps stakeholders understand the agricultural robots market and provides them with information on key market drivers, restraints, challenges, and opportunities.

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