

Agricultural Robots Market Analysis By Product (UAV, Driverless Tractor, Milking Robots, Materials Management), By Application (Field Farming, Dairy, Animal, Soil & Crop Management), & Segment Forecasts, 2014 - 2025

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Abstracts

The global agricultural robot market is anticipated to reach USD 8.82 billion by 2025, according to a new report by Grand View Research, Inc. The agriculture industry is changing dramatically, across the globe. The growing technological advancements and innovations in robotics have increased the sales of the agricultural robots.

Indoor farming refers to crop cultivation using high-pressure sodium lamps or LEDs and growth in aeroponic and hydroponic systems. Additionally, indoor farming provides protection and optimal growing conditions. The use of this technology by small commercial growers for producing crops is expected to increase their capacity and economic viability.

The future of the indoor farming industry is technology and data driven. The climate control technology is enabling high yields. A farm management system helps growers in reducing the time spent on analyzing and collecting crop yield data. The growing adoption of indoor farming is likely to spur the agriculture robot market.

Farm employment includes exposure to pesticides, long working hours, poor sanitary conditions, and other health risks. Most of the agricultural work is physical in nature, which increases the risks of accidents by fatigue, difficult terrain, poorly designed tools, and extreme weather conditions. In addition to physically demanding labor, heat & sun exposure and dangerous machinery increase the risks of farming.

Based on working methods, the working conditions in commercial plantations vary from traditional intensive methods to highly mechanized extensive methods. However, only some of the agricultural workers are covered by employment injury benefits, national legislation, and insurance schemes.

Farming causes several respiratory hazards in farmworkers. Organic dust toxic syndrome (ODTS), caused by grain and silage dust, is a common respiratory illness prevailing among the farmers. Agricultural noise and chemical hazards are the other common health hazards of farming. Prolonged exposure to excessive noise produced by choppers, tractors, chainsaws, and grain dryers can cause permanent hearing loss.

However, lack of awareness and high initial capital investments are anticipated to restrain the market growth over the forecast period. The robots used for agricultural purposes require additional application-specific advanced processing equipment, resulting in increased capital investment.

Further key findings from the report suggest:

Increasing privatization of agricultural resources and services are expected to drive the market demand

Milking robots product segment is anticipated to dominate the market in terms of revenue over the projected period

The growing penetration of vertical farming is likely to spur the materials management product segment

The ability of drones to hover low over fields along with sensing devices has benefitted the farmers by reducing their dependability on climate

The Asia Pacific region is witnessing highest penetration growth in the agricultural robot market and possesses greater growth opportunities for companies planning to invest in long haul

The Chinese agricultural processes have been modernized by the introduction of the crop-dusting drones

The key players of the agricultural robot market include CNH Industrial (UK), CLAAS (Germany), GEA Group (Germany), and Harvest Automation, Inc. (U.S.)

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