Global Agriculture Robotics: 2016-2025

Description: The report segments agriculture robots into farming, milking, livestock management, forestry, silviculture, and food production robots for personal and domestic uses. Farming, milking and livestock robots, have been accorded special attention due to their importance and future potential from a market perspective.

The report also further sub-segments each of these markets on multiple levels - application markets, detailed geographical splits for over 11 of the largest economies in the world among others. The report also talks in detail about the key opportunities for this market in the next decade, competitive intelligence, the market shares of major players, the state of the start-up scene in the market which effectively shows the path of technology evolution and also profiles the major companies in the market and discusses their business strategies.

The global population is expected to reach 9 billion by 2050, so, agricultural production must double if it is to meet the increasing demands for food and bio-energy. Agriculture is the oldest and one of our most important industries. Agriculture faces enormous challenges over the coming decades, to keep pace with rapid population growth and to deliver qualitative and nutritious food at progressively more competitive prices. And, this needs to be achieved in a sustainable way.

Agriculture robots have helped to advance the agriculture industry, along with helping farmers increase production. Over the last years we have seen a strong trend towards more agricultural robots able to perform a wide range of agricultural chores. Agricultural Robots or agribot is a robot deployed for agricultural purposes. The main area of application of robots in agriculture today is at the harvesting stage. A possible emerging application is robots or drones for weed control.

Agricultural robots are capable of collecting crop and soil samples because they are small in size, which allows them to be able to accumulate data close to the crops. Agribots can also be used to automate manual tasks, such as weed or bracken spraying, where the use of tractors and other manned vehicles is too dangerous for the operators.

They are also capable of mowing, spraying pesticides, finding diseases or parasites, and performing mechanical weeding. Agricultural robots come equipped with cameras and sensors that are used to detect weeds and other forms of stress.

Their sensors are used to spray only the area affected by the parasite instead of the entire crop. This has helped to protect our environment by reducing the amount of harmful chemicals released in the air. Advances in sensors and control systems allow for optimal resource and integrated pest and disease management.

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The report also showcases in-detail the key opportunities for this market in the next decade, the market shares, the start-up scenario in the market which effectively shows the path of technology evolution and also profiles the major companies in the market and discusses their business strategies.

While talking about the players in the market, best-known ambassadors for agri robots in recent times has been the AGCO Corporation (U.S.A), Lely (The Netherlands), Harvest Automation (U.S.A), Komatsu (Japan), Delaval International (Sweden). The market has paved the way for many other competitors to follow suit and a major focus on technology development is underway currently in the market.
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