Global Agricultural Robots and Mechatronics Market - Trends and Forecasts (2016 - 2021)

Description: The global Agricultural Robots and Mechatronics market has been estimated to reach USD 5.54 billion by 2020, at a CAGR of 11.3% during the forecast period from 2015-2020. Agricultural robots and mechatronics are machinery that are used in agriculture to substitute human labour and perform tasks better than humans. This machinery is designed to operate in all weather conditions and in restricted environments.

Agricultural robots and mechatronics offer solutions to farmers. They assist or replace human labour required to produce the farm products. They help farmers in most of the tasks from ploughing to harvesting. They are used in crops as well as animal farms.

The major driving factor behind the market is the necessity to increase yields and reduce costs at the same time. They vastly reduce human intervention and are much more efficient than humans in agricultural practices. Other driving factors are the avoidance of harmful effects of chemicals used in agriculture on humans, especially in indoor farming and the ability of robots to work in all weather conditions. The major hurdle in the market is the affordability. The robots and mechatronics are a huge investment for farmers. Various farms require various farming methods and same robots cannot be used for all types of farms. This pushes research and overhead costs for robots and mechatronics manufacturing firms and thus increasing prices. Even though robots and mechatronics are fast evolving, there is still a large amount of development needed in agricultural applications.

The market is segmented into autonomous tractors, UAVs, agrochemical applicators, robotic milking devices and others depending on the type of usage. In addition, usage area Segmentation is done such as animal farming, crop production, forest control and others. Market study shows that crop production is the largest segment in terms of revenue. It is also growing at a faster rate in comparison to others. Robotic milking devices are wide spread in developed countries and can be termed as a successful adaption of mechatronic robots in farming.

Geographical segmentation of market is done into North America, Europe, Asia-Pacific and the rest of the world. North America is the largest market with many established companies. Europe and Asia-Pacific follow the list. The growing population and decreasing farmlands makes Asia-Pacific, a region with immense opportunity. However, the technology adaption is low due to abundant cheap labour in these countries.

The leading companies in this market are AGCO, Autonomous Solutions (ASI), Autonomous Tractor Corporation, CLAAS, CNH Industrial, GEA Group, Harvest Automation, John Deere, Shibuya Seiki, Trimble Navigation, Yamaha Motor Company, Yaskawa Electric Corporation etc. Major companies are making sound investments in this market and new companies are coming up with novel ideas every now and then.

Key Deliverables in the Study

- Market analysis for the Global Agricultural Robots and Mechatronics Market, with region specific assessments and competition analysis on global and regional scales
- Market definition along with the identification of key drivers and restraints
- Identification of factors instrumental in changing the market scenarios, rising prospective opportunities, and identification of key companies that can influence this market on a global and regional scale
- Extensively researched competitive landscape section with profiles of major companies along with their market shares
- Identification and analysis of the macro and micro factors that affect the global Agricultural Robots and Mechatronics market on both global and regional scales
- A comprehensive list of key market players along with the analysis of their current strategic interests and key financial information
- A wide-ranging knowledge and insights about the major players in this industry and the key strategies adopted by them to sustain and grow in the studied market

- Insights on the major countries/regions in which this industry is blooming and to identify the regions that are still untapped

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