Agricultural Robots: Driverless Tractors, Unmanned Aerial Vehicles, Material Management, Field Crops and Forest Management, Soil Management, Dairy Management, and Animal Management for Precision Agriculture

Description: Around the world in recent years, there has been an increase in the number of large, mid-sized, and startup companies showing deep interest in the development and deployment of driverless tractors, aerial surveying of farmlands, data collection, field management, and cow milking systems. Moreover, the demand for the robots involved in various agricultural processes like harvesting, pruning, weeding, pick-and-place, sorting, seeding, spraying, and materials handling has increased significantly. This demand for agricultural robots is being driven by the global trends of population growth, increasing strain on the food supply, availability of farm workers, the challenges and complexities of farm labor, the cost of farm workers, shrinking farmlands, climate change, the growth of indoor farming, and the automation of the agriculture industry.

The author expects that the market for agricultural robots will develop rapidly in the next 5 years, as compared with the previous 5 years, while providing significant market opportunities to various market participants. The author anticipates that the overall agricultural robot market will reach $3 billion by the end of 2015. The market is anticipated to maintain a healthy growth rate and will reach $16.8 billion by the end of 2020. The author forecasts that the market will continue its momentum further to reach $73.9 billion by 2024.

This report examines global market trends for agricultural robots and provides 10-year market sizing and forecasts for agricultural robot shipments and revenue during the 2015 to 2024 timeframe. The report focuses on market drivers and market challenges, as well as assessing the key technology issues that will influence market development. In total, 42 key and emerging industry players are profiled. Market forecasts are segmented by world region and application type.

Key Questions Addressed:
- What is the current state of the agricultural robot market and how will it develop over the next decade?
- What are the key drivers of market growth, and the key challenges faced by the industry?
- What are the major applications for agricultural robots and what are their respective growth profiles?
- What are the technology challenges associated with agricultural robots?
- Who are the important players in the agricultural robot market?
- What is the size of the agricultural robot market opportunity?

Key Market Forecasts
- Agricultural Robot Revenue and Shipments by Region, World Markets: 2015-2024
- Agricultural Robot Revenue by Application Type, World Markets: 2015-2024
- Agricultural Robot Revenue by Application Type, North America: 2015-2024
- Agricultural Robot Revenue by Application Type, Europe: 2015-2024
- Agricultural Robot Revenue by Application Type, Asia Pacific: 2015-2024
- Agricultural Robot Revenue by Application Type, Latin America: 2015-2024
- Agricultural Robot Revenue by Application Type, Middle East and Africa: 2015-2024

Technologies
- Aerial Photography
- All-season Farming
- Aquaculture
- Aquaponics
- Automatic Feeding
- Automatic Milking
- Automation Software
- Autonomous Ground Vehicles
- Cloud-based Data Analytics
- Hydroponics
- Indoor Cultivation
Navigation and Mapping
- Object Identification
- Remote Sensing
- Robot Navigation
- Unmanned Aerial Vehicles
- Vehicle-to-Vehicle Communication
- Vertical Farming

Application Types
- Driverless Tractors
- Unmanned Aerial Vehicles
- Material Management
- Field Crops and Forest Management
- Soil Management
- Dairy Management
- Animal Management

Geographies
- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

Who Needs This Report
- Agricultural robot manufacturers
- Farm and industrial automation companies
- Mobile and field robot vendors
- Software developers and systems integrators
- Agricultural sensor technology vendors
- Agricultural robot research organizations
- Government agencies
- Investor community

Contents:
1. Executive Summary
   1.1. Introduction
   1.2. Market Dynamics
   1.3. Strategic Recommendations
   1.4. Global Market Forecast
2. Market Issues
   2.1. Market Drivers
   2.1.1. Global Population Growth and Food Demand
   2.1.2. The Availability of Farm Workers
   2.1.3. Difficulties and Dangers Involved in Farm Jobs
   2.1.4. Wages of Hired Farm Workers
   2.1.5. Demand for Automated Applications
   2.1.5.1. Driverless Tractors
   2.1.5.2. Unmanned Aerial Vehicles
   2.1.5.3. Material Management
   2.1.5.4. Field Crops and Forest Management
   2.1.5.5. Soil Management
   2.1.5.6. Dairy Management
   2.1.5.7. Animal Management
   2.1.6. Shrinking and Abandoned Farmland
   2.1.7. Indoor Farming
   2.1.8. Climate Change
2.2. Market Challenges
   2.2.1. Awareness
2.2.2. Insufficient Proven Solutions
2.2.3. Unclear Value Proposition for Technology Developers
2.2.4. Fragmented Non-Collaborative Developments
2.2.5. Farm Size
2.2.6. Replacement for Human-Like Dexterity
2.2.7. Administrative Support, Regulations, Policies, Interest, and Intent
2.3. Ecosystem Players
2.3.1. Farm and Industrial Automation Vendors
2.3.2. Industrial Robot Vendors
2.3.3. Mobile Robot Vendors
2.3.4. Sensor Technology Vendors
2.3.5. Agricultural Research Organizations, Labs

3. Technology Issues
3.1. Heterogeneity of the Operating Environment
3.2. Precise Identification and Classification of Targets and Obstacles
3.3. Outdoor Positioning and Navigation Technology
3.4. Complex Agricultural Processes
3.5. Safety and Standards
3.6. Energy Efficiency
3.7. Outdated Farm Layouts and New Robots

4. Key Industry Players
4.1. Key Industry Players
4.1.1. AGCO
4.1.2. AMAZONEN-Werke
4.1.3. Autonomous Solutions (ASI)
4.1.4. Autonomous Tractor Corporation
4.1.5. CLAAS
4.1.6. CNH Industrial
4.1.7. DeLaval
4.1.8. GEA Group
4.1.9. Harvest Automation
4.1.10. John Deere
4.1.11. Kinze Manufacturing, Inc.
4.1.12. Lely
4.1.13. Shibuya Seiki
4.1.15. Yamaha Motor Company
4.1.16. Yaskawa Electric Corporation
4.2. Emerging Players
4.2.1. 3D Robotics
4.2.2. Agribotix
4.2.3. AGROBOT
4.2.4. AutoProbe Technologies
4.2.5. Blue River Technology
4.2.6. BouMatic Robotics
4.2.7. Clearpath Robotics
4.2.8. Conic System
4.2.9. Maf Roda Agrobotic
4.2.10. Naio Technologies
4.2.11. PrecisionHawk
4.2.12. SAC
4.2.13. senseFly
4.2.14. Vision Robotics
4.2.15. Vitirover SJCS
4.2.16. Wall-Ye
4.3. Other Industry Participants
4.4. Research and Development Programs

5. Market Forecasts
5.1. Definitions and Forecast Assumptions
5.2. Global Market
5.3. North America
5.4. Europe
5.5. Asia Pacific
5.6. Latin America
5.7. Middle East & Africa
5.8. Conclusions and Recommendations

6. Company Directory

7. Acronym and Abbreviation List

8. Table of Contents

9. Table of Charts and Figures

10. Scope of Study, Sources and Methodology, Notes

List of Charts, Figures, and Tables

Charts
- Agricultural Robot Revenue and Shipments, World Markets: 2015-2024
- Agricultural Robot Revenue by Region, World Markets: 2015-2024
- Agricultural Robot Shipments by Region, World Markets: 2015-2024
- Agricultural Robot Revenue by Application Type, World Markets: 2015-2024
- Agricultural Robot Revenue by Application Type, North America: 2015-2024
- Agricultural Robot Shipments by Application Type, North America: 2015-2024
- Agricultural Robot Revenue by Application Type, Europe: 2015-2024
- Agricultural Robot Shipments by Application Type, Europe: 2015-2024
- Agricultural Robot Revenue by Application Type, Asia Pacific: 2015-2024
- Agricultural Robot Shipments by Application Type, Asia Pacific: 2015-2024
- Agricultural Robot Revenue by Application Type, Latin America: 2015-2024
- Agricultural Robot Shipments by Application Type, Latin America: 2015-2024
- Agricultural Robot Revenue by Application Type, Middle East and Africa: 2015-2024
- Agricultural Robot Shipments by Application Type, Middle East and Africa: 2015-2024

Figures
- The World's Population
- Driverless Tractor
- Agricultural Drone
- Material Management
- Lettuce Thinner Robot
- Weeding Robot
- Milking Robots
- Feeding Robots

Tables
- Agricultural Robot Revenue by Region, World Markets: 2015-2024
- Agricultural Robot Revenue by Application Type, World Markets: 2015-2024
- Agricultural Robot Revenue by Region, World Markets: 2015-2024
- Agricultural Robot Shipments by Application Type, World Markets: 2015-2024
- Agricultural Robot Revenue by Application Type, North America: 2015-2024
- Agricultural Robot Shipments by Application Type, North America: 2015-2024
- Agricultural Robot Revenue by Application Type, Europe: 2015-2024
- Agricultural Robot Shipments by Application Type, Europe: 2015-2024
- Agricultural Robot Revenue by Application Type, Asia Pacific: 2015-2024
- Agricultural Robot Shipments by Application Type, Asia Pacific: 2015-2024
- Agricultural Robot Revenue by Application Type, Latin America: 2015-2024
- Agricultural Robot Shipments by Application Type, Latin America: 2015-2024
- Agricultural Robot Revenue by Application Type, Middle East and Africa: 2015-2024
- Agricultural Robot Shipments by Application Type, Middle East and Africa: 2015-2024
- Agricultural Robot Average Selling Price by Application Type, World Markets: 2015-2024
- Other Industry Participants

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