

Agricultural Tractor Robots: Market Shares, Strategies, and Forecasts, Worldwide, 2018 to 2024

<https://marketpublishers.com/r/A1600391A1AEN.html>

Date: May 2018

Pages: 210

Price: US\$ 4,300.00 (Single User License)

ID: A1600391A1AEN

Abstracts

LEXINGTON, Massachusetts (May 25, 2018) – WinterGreen Research announces that it has published a new study *Agricultural Tractor Robots: Market Shares, Strategy, and Forecasts, Worldwide, 2018 to 2024*. The 2018 study has 210 pages, 110 tables and figures. Worldwide markets are poised to achieve continuing growth as Agricultural Tractor Robots proves its value by managing digital farming and implementing self-driving capabilities and features in real time provide farming management.

The agriculture industry is a \$5 trillion industry representing 10% of global consumer spending, 40 percent of employment and 30 percent of greenhouse gas emissions globally. Robotic tractors are positioned to help agriculture to be more precise, more efficient, and more productive. Use of much small tractors will help the soil base, creating less impact on compaction. Agricultural efficiency improvement is impactful to humanity, changing the size of population, quality of life and making a better future.

Agricultural self-driving features for tractors are the beginning of a full rollout of robot technologies. Self-driving features in place depend on having a human control the tractors initially. This is a first step in building fully autonomous tractors. One of the main objections to completely trusting self-driving tractors seems to be the fear of potential accidents. When the vehicles are running unattended there are often obstacles encountered that may cause problems, raising the specter of ruining the tractor.

A \$185 million market worldwide in 2017, the Agricultural Tractor Robots market is expected to reach \$3.2 billion by 2024.

WinterGreen Research is an independent research organization funded by the sale of market research studies all over the world and by the implementation of ROI models

that are used to calculate the total cost of ownership of equipment, services, and software. The company has 35 distributors worldwide, including Global Information Info Shop, Market Research.com, Research and Markets, electronics.ca, Bloomberg, and Thompson Financial.

WinterGreen Research is positioned to help customers facing challenges that define the modern enterprises. The increasingly global nature of science, technology and engineering is a reflection of the implementation of the globally integrated enterprise. Customers trust wintergreen research to work alongside them to ensure the success of the participation in a particular market segment.

WinterGreen Research supports various market segment programs; provides trusted technical services to the marketing departments. It carries out accurate market share and forecast analysis services for a range of commercial and government customers globally. These are all vital market research support solutions requiring trust and integrity.

Contents

Agricultural Tractor Robots Market Driving Forces

Agricultural Robot Self Driving Tractor Market Forecasts Dollars, Worldwide, 2018-2024

1. AGRICULTURAL ROBOT MARKET DESCRIPTION AND MARKET DYNAMICS

1.1 Digitization of Agricultural Markets

1.1.1 Shift to Digital Agriculture

1.1.2 Digital Farms a Reality

1.2 Challenges of Agricultural Robots

1.3 Automation In The Agricultural Industry

1.3.1 Robots Find A Place in the Agriculture Industry

1.3.2 Agricultural Robots Make Production More Efficient

1.3.3 Use Of Industrial Robots for Agriculture

1.3.4 Agricultural Robotics and Automation

1.3.5 Precision Agriculture Info, Analysis, Tools

1.3.6 Automatic Guidance

1.3.7 Autonomous Machines

1.3.8 Drones

1.3.9 Breeding + Sensors + Robots

1.4 Swarms of Precision Agriculture Robots

1.5 RAS Agricultural Robotics and Automation (AgRA) Technical Committee

1.6 Farm Bots Pick, Plant and Drive

1.6.1 Relying On Illegal Immigrants Can Be A Legal Liability

1.6.2 Harvest Automation Labor Process Automation

1.6.3 The Growing Season Is Also The Shipping Season

2. ROBOTIC AGRICULTURAL SELF- DRIVING TRACTORS MARKET SHARES AND MARKET FORECASTS

2.1 Agriculture And Turf Automation Market Driving Forces

2.2 Agricultural Tractors with Self Driving Features Market Shares

2.2.1 John Deere

2.2.2 Case IH

2.2.3 New Holland

2.3 Agricultural Robot Self Driving Tractor Market Forecasts Dollars, Worldwide, 2018-2024

- 2.3.1 Small, Medium and Large Agricultural Tractors with Self-Driving Features and Tractor Robot Market Forecasts,
- 2.3.2 Agricultural Tractors with Self-Driving Features and Tractor Robot Market Segments
- 2.3.3 Agricultural Tractors Installed Base and Self-Driving Tractor Robot Installed Base Market Forecasts, Percent Penetration
- 2.4 Agricultural Internet of Things (IoT)
 - 2.4.1 Agriculture IoT Food Production Increases
 - 2.4.2 Agriculture IoT: Global Shift to Use of Sensors
 - 2.4.3 Agriculture Internet of Things: Venture Investment
 - 2.4.4 Agriculture Internet of Things (IoT) Technology
 - 2.4.5 IoT Crop Water Management
- 2.5 Agricultural Robotics
- 2.6 Harvests and Crop Production
- 2.7 Digital Farming
- 2.8 Robotic Agricultural Self Driving Tractor Regional Market Segments
 - 2.8.1 Tractor Units with Self-Driving Features
- 2.9 Agricultural Tractor Robots Pricing
- 2.10 Agricultural Tractor Robots Regional Market Segments
 - 2.10.1 AGCO
 - 2.10.2 Japan
 - 2.10.3 Sicily Tractor Harvesting

3. AGRICULTURAL TRACTOR ROBOTS RESEARCH AND TECHNOLOGY

- 3.1 Farm Tractor Auto-Steer Technology
 - 3.1.1 The Future of Swarms
- 3.2 Technologies In Precision Agriculture
 - 3.2.1 Robotic Tractor Advanced Sensors and Guidance Systems
 - 3.2.2 Precise Control Provided by Autonomous Tractors
 - 3.2.3 Autonomous Tractor Connectivity Made Practical
 - 3.2.4 Mobile Devices
 - 3.2.5 Robotics
- 3.3 Agricultural Robot Technologies
- 3.4 An Electronic System Improves Different Agriculture Processes

4. AGRICULTURAL TRACTOR ROBOTS COMPANY PROFILES

- 4.1 Adigo Field Flux Robot
- 4.2 AGCO
 - 4.2.1 AGCO Brands
 - 4.2.2 AGCO Fendt GuideConnect System
 - 4.2.3 AGCO Fendt Technology Ahead of The Legislation
 - 4.2.4 AGCO Revenue
 - 4.2.5 Arco Regional
 - 4.2.6 2017 Global Harvest
 - 4.2.7 ARCO Sales by Product
 - 4.2.8 ARCO GuideConnect
 - 4.2.9 ARCO Fendt GuideConnect
 - 4.2.10 ARCO Future of Swarms
 - 4.2.11 ARCO Fendt Farm Equipment
 - 4.2.12 AGCO Agricultural Tractor Challenges
 - 4.2.13 ARCO Valtra
- 4.3 Autonomous Tractor Corp. (ATC)
- 4.4 AutoProbe
 - 4.4.1 AutoProbe Precision Agriculture High Quality Soil Sample
- 4.5 CNH Global (Case IH)
 - 4.5.1 Case IH Seedbed
 - 4.5.2 Case IH Seedbed, From Surface to Floor
 - 4.5.3 Case IH Greater Convenience And Durability
 - 4.5.4 Case IH Precision Disk
- 4.6 Chinese Agricultural Robots
- 4.7 Claas
- 4.8 Clearpath Robotics Grizzly RUV
- 4.9 John Deere
 - 4.9.1 Deere & Company Revenue
 - 4.9.2 John Deere Combines with Self-Driving Features
 - 4.9.3 John Deere Commercially-Available Tractor Machines With Autonomous Features
 - 4.9.4 John Deere Autonomous Mower
 - 4.9.5 Deere Smaller Tractors Autonomous Driving in Groups
 - 4.9.6 John Deere Autonomous Tractor
 - 4.9.7 John Deere Crop Spraying
 - 4.9.8 John Deere Autonomous Tractors
 - 4.9.9 John Deere Acquires 'See & Spray' Robotics Startup Blue River Technology for \$305m
 - 4.9.10 John Deere/Blue River Technology

- 4.9.11 Blue River Remote Sensing Technology
- 4.9.12 Blue River Technology High-Throughput, Field-Based Phenotyping
- 4.9.13 Blue River Technology Zea
- 4.9.14 Blue River Technology Drone-Based Phenotyping
- 4.9.15 Blue River Technology Agricultural Robot
- 4.9.16 Blue River Precision Lettuce Thinning - 80/84" Beds
- 4.9.17 Lettuce Bot, Blue River Technology
- 4.9.18 Blue River Technology Investors
- 4.9.19 Blue River Technology Revenue
- 4.10 Iseki & Co
- 4.11 Kubota Tractor
- 4.12 Lovol
- 4.13 Mahindra Tractors
- 4.14 Bayer/Monsanto/Precision Planting
- 5.15 New Holland
 - 4.14.1 EZ-Pilot
- 4.16 Nogchui Autonomous Tractor
 - 4.16.1 Professor Nogchui Agricultural Tractor Robot Uses Navigation Sensor Called AGI-3 GPS Compass Made by TOPCON
 - 4.16.2 Professor Nogchui Agricultural Tractor Robot Mapping System
 - 4.16.3 Nogchui Autonomous Tractor Robot Management Systems
- 4.29 Sicily Tractor Harvesting
- 4.30 Yanmar
- 4.31 Agricultural Tractor Companies

WINTERGREEN RESEARCH

- WinterGreen Research Methodology
- WinterGreen Research Process
- Market Research Study

List Of Figures

LIST OF FIGURES

WinterGreen Research Global Market Intelligence Company

Abstract: Agricultural Equipment Robots: Markets Growing Through Implementation of Digital Farming

Figure 1. Agricultural Robot Self Driving Tractor Market Forecasts Dollars, Worldwide, 2018-2024

Figure 2. Agricultural Robots Functions

Figure 3. Agricultural Robot Market Driving Forces Employment Opportunity

Figure 4. Digital Farms a Reality

Figure 5. Transitioning To Precision Agricultural Methods

Figure 6. Precision Agricultural Functions

Figure 7. Precision Agricultural Vehicles

Figure 8. Digital Farm Characteristics

Figure 9. Precision Agriculture Data Types

Figure 10. Aspects of Agricultural Sector Modernization

Figure 11. Agricultural Robotics Positioned To Meet The Increasing Demands For Food And Bioenergy

Figure 12. Autonomous Orchard Vehicle

Figure 13. Automated Picker Machine

Figure 14. Equipment That Is Configured to be Used with Self-Driving Tractors

Figure 15. Robotic Agricultural Tractors with Self Driving Features Market Shares, Dollars, Worldwide, 2017

Figure 16. Robotic Agricultural Tractors with Self Driving Features Market Shares, Dollars, Worldwide, 2017

Figure 17. Robotic Agricultural Tractors with Self Driving Features Description, Companies, Worldwide, 2017

Figure 18. Agricultural Robot Self Driving Tractor Market Forecasts Dollars, Worldwide, 2018-2024

Figure 19. Agricultural Tractors with Self-Driving Features and Tractor Robot Market Forecasts, Dollars, Worldwide, 2018-2024

Figure 20. Agricultural Tractors with Self-Driving Features and Tractor Robot Market Forecasts, Units, Worldwide, 2018-2024

Figure 21. Large Agricultural Tractors with Self-Driving Features and Tractor Robot Market Forecasts, Dollars, Worldwide, 2018-2024

Figure 22. Mid-size Agricultural Tractors with Self-Driving Features and Tractor Robot Market Forecasts, Dollars, Worldwide, 2018-2024

Figure 23. Small Agricultural Tractors with Self-Driving Features and Tractor Robot Market Forecasts, Dollars, Worldwide, 2018-2024

Figure 24. Small, Medium, and Large Agricultural Tractors with Self-Driving Features and Tractor Robot Market Forecasts, Percent, Worldwide, 2018-2024

Figure 25. Agricultural Tractors with Self-Driving Features and Tractor Robot Market Segments, Dollars, Worldwide, 2018-2024

Figure 26. Agricultural Tractors with Self-Driving Features and Tractor Robot Market Segments, Percent, Worldwide, 2018-2024

Figure 27. Agricultural Tractors Installed Base and Self-Driving Tractor Robot Installed Base Market Forecasts, Percent Penetration, Worldwide, 2018-2024

Figure 28. Agricultural Tractors with Self-Driving Features and Tractor Robot Market Forecasts, Units, Worldwide, 2018-2024

Figure 29. Two Billion Sensors in Farms Globally by 2024

Figure 30. Agriculture Internet of Things: Venture Investment

Figure 31. Agricultural Sector The Technological Development of Internet of Things

Figure 32. Challenges Brought by Tractors Doing Automation

Figure 33. Modernized Agriculture Telegarden, As Installed At Ars Electronica

Figure 34. Precision Farming Market Forecasts, Dollars and Percent, Worldwide, 2018-2024

Figure 35. Digital Farming Functions

Figure 36. Robotic Agricultural Self Driving Tractor Regional Market Segments, 2017

Figure 37. Robotic Agricultural Self Driving Tractor Regional Market Segments, 2017

Figure 38. Transitioning To Precision Agricultural Methods

Figure 39. Autonomous Tractor System Benefits:

Figure 40. Tractor Robot Factors Driving Sales

Figure 41. Factors Affecting New Agricultural Equipment Sales

Figure 42. Tractor Systems

Figure 43. Small Tractor Used For Manual Artichokes Harvesting

Figure 44. Agricultural Robot Applications

Figure 45. Robotic Tractor Advanced Sensors and Guidance System Uses

Figure 46. Autonomous Tractor Connectivity Functions

Figure 47. Agricultural Autonomous Equipment Market Driving Forces

Figure 48. Long-Term Global Agricultural Tractor Market Forecast Factors

Figure 49. Follow Me Robotic Tractors

Figure 50. Agricultural Robot Technologies

Figure 51. Adigo Field Flux Robot

Figure 52. Adigo Field Flux Robot Features

Figure 53. AGCO Revenue Highlights

Figure 54. AGCO Regional Revenue of Independent Dealers and Distributors

- Figure 55. ARCO Sales by Product
- Figure 56. Fendt GuideConnect
- Figure 57. AGCO Large Tractor
- Figure 58. Challenger Precision Farming
- Figure 59. AGCO Agricultural Products
- Figure 60. Autonomous Tractors Traverse Fields
- Figure 61. Soil Samples and Phosphorus
- Figure 62. Case IH High-Speed Precision Planting Market
- Figure 63. Case IH Cableless Row Crop Tractor
- Figure 64. Case IH Seedbed
- Figure 65. Case IH Precision Disk™ 500T
- Figure 66. Case IH Autonomous Tractor
- Figure 67. Chinese Farmbot Tractor Image
- Figure 68. Clearpath Robotics Grizzly RUV
- Figure 69. Clearpath Robotics Grizzly Robot
- Figure 70. Clearpath Robotics Grizzly Robot Workhorse Functions
- Figure 71. Deere & Company Revenue
- Figure 72. John Deere Combine with Self-Driving Features
- Figure 73. John Deere's Intelligent Solutions Group Functional Development
- Figure 74. John Deere Autonomous Mower
- Figure 75. John Deere Automated Seed Planting High-Speed Precision Planting Market155
- Figure 76. John Deere Autonomous Tractors
- Figure 77. John Deere Autonomous Flexible Use Tractor
- Figure 78. John Deere Crop Spraying
- Figure 79. John Deere Autonomous Tractor
- Figure 80. Blue River Technology Agricultural Tractor Robots:
- Figure 81. Blue River Technology Visualization Spray Tractor Can Identify Plants And Weeds To Spray Chemicals
- Figure 82. John Deere/Blue River Technologies:
- Figure 83. Blue River Technology High-Throughput, Field-Based Phenotyping Functions
- Figure 84. Blue River Technology Zea Measurement Functions
- Figure 85. Blue River Technology Drone-Based Phenotyping Functions
- Figure 86. Blue River All-In-One Drone Service Functions
- Figure 87. Blue River All-In-One Drone Measurement Functions
- Figure 88. Blue River Technology Agricultural Robot
- Figure 89. Blue River Precision Lettuce Thinning 40/42" Beds Agricultural Robot
- Figure 90. Blue River Technology Agricultural Robot Functions
- Figure 91. Blue River Precision Lettuce Thinning - 80/84" beds

Figure 92. Blue River Technology Delicate Crop Weeding And Harvesting Machine Functions

Figure 93. Blue River Technology Delicate Crop Weeding And Harvesting Machine Benefits

Figure 94. Blue River Technology Investors

Figure 95. Kubota Self Driving Tractor

Figure 96. Kubota Self Driving Tractor Functions

Figure 97. Lovol

Figure 98. Lovol Tractors

Figure 99. New Holland Autonomous Tractor

Figure 100. New Holland Assisted Hands Free Steering System

Figure 101. Nogchui Autonomous Tractor Grading, Japan

Figure 102. Nogchui Autonomous Tractor Working Field

Figure 103. Hokkaido University Prof Shin Noguchi Robotics Research, Includes Automated Tractors and Aerial Sensing By Drones

Figure 104. At Least 1 Tractor In A Swarm Will Be Manned

Figure 105. Professor Nogchui Autonomous Tractor Navigation Map Information

Figure 106. Sicily Small Tractor Used For Manual Artichoke Harvesting

I would like to order

Product name: Agricultural Tractor Robots: Market Shares, Strategies, and Forecasts, Worldwide, 2018 to 2024

Product link: <https://marketpublishers.com/r/A1600391A1AEN.html>

Price: US\$ 4,300.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/A1600391A1AEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970

