

Agriculture Robots Market Research Report By Type (Single-Functioned Agriculture Robots {Weeding, Seeding, Spraying, Harvesting, Others}, By others - single-functioned agriculture robots type {Cultivating, Plowing, Tilling, Spreading, Others}), Multi-Functioned Agriculture Robots{Seeding-Weeding-Fertilizing, Seeding-Watering-Fertilizing-Weeding-Monitoring, Field Analysis-Soil Levelling-Soil Moisture Analysis), By Region(US, Europe, Australia, ? South Korea) -Industry Forecast Till 2032

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Synopsis of the market

Agricultural robot market is projected to be USD 3165.5 million in 2023. From USD 3665.6 million in 2024 to USD 11,859.7 million, the sector for agricultural robotics is predicted to rise at a compound annual growth rate (CAGR) of 15.81%.

Labor shortages, the necessity for sustainable farming techniques, and the rising demand for precision farming have all helped to explain the substantial increase in the worldwide agricultural robot market recently. Often called agribots or agri-robots, agricultural robots are a breakthrough technical development combining robotics and automation into a variety of farming

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activities. Designed to perform tasks including planting, harvesting, weeding, pesticide application, and crop condition monitoring, these robots are meant to operate with higher accuracy and efficiency than conventional agricultural methods.

At the center of the agricultural robot company is the aim of raising production, reducing labor dependency, and lessening of the environmental impact of conventional farming. Using state-of-the-art technologies including artificial intelligence (AI), machine learning, and the Internet of Things (IoT), these robots compile and analyze field data. Thanks to their integration of sensors and cameras, they can make decisions in real time, therefore optimizing resource use and lowering waste. Agricultural robots come in a variety of forms; robotic arms for delicate tasks like fruit picking and autonomous tractors and unmanned aerial aircraft (UAVs) for crop monitoring. This is why the market presents a great range of uses addressing several stages of the agricultural value chain.

Conversely, IoT facilitates real-time data sharing and helps devices to connect to one another more easily. This connectivity helps different robotic systems to communicate as well as between agricultural robots and other farm tools and central control systems. The sensors of the robots, for instance, can compile data on soil conditions, crop health, and the temperature and then forward it to a central system. AI systems examine this data to help one generate wise decisions. Among these choices are ones on crop diseases, best planting practices, and adjusting irrigation or pesticide application amounts.

Market Segmentation

Based on kind, single-function and multi-function robots have split the market for agricultural robots.

Two further divisions exist for them: single-function agriculture robots and cultivating, plowing, tilling, spreading, and others.

Among the previous categories are weeding, seeding, spraying, harvesting, and others. Multi-functioned Agriculture Robots fall also into the following categories: Seeding-Watering-Fertilizing-Weeding-Monitoring, Field Analysis-Soil Leveling-Soil Moisture Analysis, and Seeding-Weeding-Fertilizing.

Geographic Analysis

For the US, Europe, Australia, and South Korea the paper provides market analysis by region. Europe will have the biggest market share (57.1%) in 2022; the US will have second highest share. Examining more closely the causes of the demand for agricultural robots in different countries, Germany's adoption is motivated by the necessity to solve workforce shortages.

A sizable portion of the US agricultural robots' market, precision agriculture is attracting fast expansion of applications. Thanks to drones and autonomous cars fitted with sensors and GPS technology, farmers can keep very exact control over their crops. This lowers expenses and best uses available resources. Integration of artificial intelligence and data analytics helps farmers make better decisions depending on current knowledge.

Australia's vast size and little population make connection problems preventing the acceptance of agricultural robots and autonomous tractors challenging. Using smaller, autonomous robots is considered as a solution as the farming sector battles with a shortage of personnel and the necessity to reduce input costs through precision agriculture.

Thanks in great part to Connected Farms, robotics and autonomous tractors have been linked throughout many Australian farm businesses.

Key Players

Among the main players helping the sector to grow are XMACHINES, FFRobotics, Naio Technologies, Nexus Robotics, Ecorobotix SA, ROBOTICS PLUS, Automato Robotics, Advanced Farms Technologies, Inc., AgXeed B.V., Agrobot, Korechi Innovations, and FarmDroid.

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Table of Contents:

TABLE OF CONTENTS

1 EXECUTIVE SUMMARY	13
1.1 GLOBAL AGRICULTURAL ROBOTS MARKET, BY TYPE	15
1.2 GLOBAL AGRICULTURAL ROBOTS MARKET, BY REGION	15
2 MARKET INTRODUCTION	16
2.1 DEFINITION	16
2.2 SCOPE OF THE STUDY	16
2.3 MARKET STRUCTURE	17
2.4 KEY BUYING CRITERIA	17
3 RESEARCH METHODOLOGY	18
3.1 RESEARCH PROCESS	18
3.2 PRIMARY RESEARCH	19
3.3 SECONDARY RESEARCH	20
3.4 MARKET SIZE ESTIMATION	20
3.5 TOP DOWN & BOTTOM-UP APPROACH	21
3.6 FORECAST MODEL	22
3.7 LIST OF ASSUMPTIONS	23
4 MARKET DYNAMICS	24
4.1 INTRODUCTION	24
4.2 DRIVERS	25
4.2.1 INCREASING SCARCITY OF FARM LABOR DRIVES DEMAND FOR AUTOMATION	25
4.2.2 GROWING NEED FOR PRECISE FARMING PRACTICES BOOSTS ROBOTIC ADOPTION	26
4.2.3 RISING FOCUS ON OVERALL COST REDUCTION	27
4.2.4 DRIVERS IMPACT ANALYSIS	27
4.3 RESTRAINTS	28
4.3.1 IMPLEMENTATION COSTS DETER ADOPTION FOR SMALLER FARMS	28
4.3.2 LIMITED COMPATIBILITY WITH EXISTING FARMING INFRASTRUCTURE AND EQUIPMENT	28
4.3.3 RESTRAINTS IMPACT ANALYSIS	29
4.4 OPPORTUNITIES	29
4.4.1 INTEGRATION OF AI AND IOT IN AGRICULTURE BOOSTING ROBOTIC TECHNOLOGY	29
4.5 IMPACT OF COVID-19 ON GLOBAL ECONOMY	30
4.6 IMPACT OF COVID-19 ON THE GLOBAL AGRICULTURAL ROBOTS MARKET	30
5 MARKET FACTOR ANALYSIS	32
5.1 SUPPLY/VALUE CHAIN ANALYSIS	32
5.1.1 RESEARCH AND DEVELOPMENT (R&D)	32
5.1.2 PRODUCT DEVELOPMENT	33
5.1.3 SYSTEM INTEGRATIONS	33
5.1.4 DISTRIBUTION AND LOGISTICS	34
5.1.5 END-USE	34
5.2 PORTER'S FIVE FORCES MODEL	35
5.2.1 THREAT OF NEW ENTRANTS	36
5.2.2 BARGAINING POWER OF SUPPLIERS	36
5.2.3 BARGAINING POWER OF BUYERS	36
5.2.4 THREAT OF SUBSTITUTES	36
5.2.5 INTENSITY OF RIVALRY	37
6 GLOBAL AGRICULTURAL ROBOTS MARKET, BY TYPE	38

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6.1 OVERVIEW	38
6.2 GLOBAL AGRICULTURAL ROBOTS MARKET SIZE, MARKET ESTIMATES & FORECAST BY TYPE, 2024-2032	40
6.2.1 GLOBAL AGRICULTURAL ROBOTS MARKET SIZE: MARKET ESTIMATES & FORECAST BY TYPE, 2024-2032	40
7 GLOBAL AGRICULTURAL ROBOTS MARKET, BY REGION	42
7.1 OVERVIEW	42
7.2 US	43
7.3 EUROPE	46
7.3.1 GERMANY	49
7.3.2 UK	50
7.3.3 FRANCE	52
7.3.4 PORTUGAL	53
7.3.5 NETHERLANDS	54
7.3.6 ITALY	56
7.3.7 REST OF EUROPE	57
7.4 AUSTRALIA	59
7.5 SOUTH KOREA	62
8 COMPETITIVE LANDSCAPE	65
8.1 COMPETITIVE OVERVIEW	65
8.2 COMPETITIVE BENCHMARKING	65
8.3 MAJOR PLAYERS IN THE GLOBAL AGRICULTURAL ROBOTS MARKET	66
9 COMPANY PROFILES	67
9.1 XMACHINES	67
9.1.1 COMPANY OVERVIEW	67
9.1.2 FINANCIAL OVERVIEW	67
9.1.3 PRODUCTS OFFERED	67
9.1.4 KEY DEVELOPMENTS	67
9.1.5 SWOT ANALYSIS	68
9.1.6 KEY STRATEGIES	68
9.2 FFROBOTICS	69
9.2.1 COMPANY OVERVIEW	69
9.2.2 FINANCIAL OVERVIEW	69
9.2.3 PRODUCTS OFFERED	69
9.2.4 KEY DEVELOPMENTS	69
9.2.5 SWOT ANALYSIS	70
9.2.6 KEY STRATEGIES	70
9.3 NAI0 TECHNOLOGIES	71
9.3.1 COMPANY OVERVIEW	71
9.3.2 FINANCIAL OVERVIEW	71
9.3.3 PRODUCTS OFFERED	71
9.3.4 KEY DEVELOPMENTS	71
9.3.5 SWOT ANALYSIS	72
9.3.6 KEY STRATEGIES	72
9.4 NEXUS ROBOTICS	73
9.4.1 COMPANY OVERVIEW	73
9.4.2 FINANCIAL OVERVIEW	73
9.4.3 PRODUCTS/SERVICES OFFERED	73
9.4.4 KEY DEVELOPMENTS	73

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9.4.5 SWOT ANALYSIS	74
9.4.6 KEY STRATEGIES	74
9.5 ECOROBOTIX SA	75
9.5.1 COMPANY OVERVIEW	75
9.5.2 FINANCIAL OVERVIEW	75
9.5.3 PRODUCTS/SERVICES OFFERED	75
9.5.4 KEY DEVELOPMENTS	75
9.5.5 SWOT ANALYSIS	76
9.5.6 KEY STRATEGIES	76
9.6 ROBOTICS PLUS	77
9.6.1 COMPANY OVERVIEW	77
9.6.2 FINANCIAL OVERVIEW	77
9.6.3 PRODUCTS/SERVICES OFFERED	77
9.6.4 KEY DEVELOPMENTS	78
9.6.5 SWOT ANALYSIS	78
9.6.6 KEY STRATEGIES	79
9.7 AUTOMATO ROBOTICS	80
9.7.1 COMPANY OVERVIEW	80
9.7.2 FINANCIAL OVERVIEW	80
9.7.3 PRODUCTS/SERVICES OFFERED	80
9.7.4 KEY DEVELOPMENTS	80
9.7.5 SWOT ANALYSIS	81
9.7.6 KEY STRATEGIES	81
9.8 ADVANCED FARMS TECHNOLOGIES, INC.	82
9.8.1 COMPANY OVERVIEW	82
9.8.2 FINANCIAL OVERVIEW	82
9.8.3 PRODUCTS/SERVICES OFFERED	82
9.8.4 KEY DEVELOPMENTS	82
9.8.5 SWOT ANALYSIS	83
9.8.6 KEY STRATEGIES	83
9.9 AGXEED B.V.	84
9.9.1 COMPANY OVERVIEW	84
9.9.2 FINANCIAL OVERVIEW	84
9.9.3 PRODUCTS OFFERED	84
9.9.4 KEY DEVELOPMENTS	84
9.9.5 SWOT ANALYSIS	85
9.9.6 KEY STRATEGIES	85
9.10 AGROBOT	86
9.10.1 COMPANY OVERVIEW	86
9.10.2 FINANCIAL OVERVIEW	86
9.10.3 PRODUCTS OFFERED	86
9.10.4 KEY DEVELOPMENTS	86
9.10.5 SWOT ANALYSIS	87
9.10.6 KEY STRATEGIES	87
9.11 KORECHI INNOVATIONS	88
9.11.1 COMPANY OVERVIEW	88
9.11.2 FINANCIAL OVERVIEW	88

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9.11.3 PRODUCTS OFFERED	88
9.11.4 KEY DEVELOPMENTS	88
9.11.5 SWOT ANALYSIS	89
9.11.6 KEY STRATEGIES	89
9.12 FARMDROID	90
9.12.1 COMPANY OVERVIEW	90
9.12.2 FINANCIAL OVERVIEW	90
9.12.3 PRODUCTS OFFERED	90
9.12.4 KEY DEVELOPMENTS	90
9.12.5 SWOT ANALYSIS	91
9.12.6 KEY STRATEGIES	91

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