

Global Smart Farming Techonology Market Research Report 2025(Status and Outlook)

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Abstracts

Smart farming technology, also known as precision agriculture, refers to the integrated use of advanced digital tools?such as IoT sensors, drones, GPS-guided machinery, AI-driven analytics, and automation systems?to monitor, analyze, and optimize agricultural processes with unprecedented accuracy, efficiency, and sustainability. This technology enables real-time data collection on variables like soil moisture, crop health, weather conditions, and resource usage, allowing farmers to make data-informed decisions that enhance yields, reduce waste, minimize environmental impact, and lower operational costs. By bridging traditional farming practices with cutting-edge innovations, smart farming represents a transformative shift toward more resilient, productive, and resource-conscious food production systems. The global smart farming market is experiencing robust growth, driven by increasing global food demand, labor shortages, climate change pressures, and the need for sustainable agricultural practices. Key technologies such as IoT devices, AI and machine learning for predictive analytics, and autonomous equipment are being rapidly adopted across both large-scale commercial farms and smaller operations seeking efficiency gains. North America and Europe currently lead in adoption due to advanced infrastructure, supportive government policies, and high investment in agritech, while emerging economies in Asia-Pacific and Latin America are catching up, spurred by rising technological accessibility and urgent agricultural modernization needs. Major market players include established agriculture machinery manufacturers like John Deere and CNH Industrial, as well as technology-focused firms such as IBM, Microsoft, and startups specializing in drone imaging or farm management software. Challenges remain, including high initial investment costs, data privacy concerns, and the need for digital literacy among farmers, yet the integration of 5G, edge computing, and blockchain for supply chain transparency is expected to further accelerate market expansion. With the global population projected to reach nearly 10 billion by 2050, smart farming technology is positioned not merely as an

innovative trend but as an essential component of future food security and agricultural resilience.

The global Smart Farming Techonlogy market size was estimated at USD 10250.4 million in 2024 and is projected to grow at a compound annual growth rate (CAGR) of 12.50% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Smart Farming Techonlogy market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Smart Farming Techonlogy market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Smart Farming Techonlogy market.

Global Smart Farming Techonlogy Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can

significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

John Deere
Raven Industries
AGCO
Ag Leader Technology
DICKEY-john
Auroras
Farmers Edge
Iteris
Trimble
PrecisionHawk
Precision Planting

Market Segmentation (by Type)

Automation and Control Systems
Smart Equipment and Machinery
Other

Market Segmentation (by Application)

Soil and Crop Management
Fleet Management
Storage and Irrigation Management
Indoor Farming
Other

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-

Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the Smart Farming Techonlogy Market

Overview of the regional outlook of the Smart Farming Techonlogy Market:

Customization of the Report

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Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Smart Farming Techonlogy Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Smart Farming Technology, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set

to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

1.1 Market Definition and Statistical Scope of Smart Farming Techonlogy

1.2 Key Market Segments

1.2.1 Smart Farming Techonlogy Segment by Type

1.2.2 Smart Farming Techonlogy Segment by Application

1.3 Methodology & Sources of Information

1.3.1 Research Methodology

1.3.2 Research Process

1.3.3 Market Breakdown and Data Triangulation

1.3.4 Base Year

1.3.5 Report Assumptions & Caveats

2 SMART FARMING TECHONLOGY MARKET OVERVIEW

2.1 Global Market Overview

2.1.1 Global Smart Farming Techonlogy Market Size (M USD) Estimates and Forecasts (2020-2033)

2.1.2 Global Smart Farming Techonlogy Sales Estimates and Forecasts (2020-2033)

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

3 SMART FARMING TECHONLOGY MARKET COMPETITIVE LANDSCAPE

3.1 Company Assessment Quadrant

3.2 Global Smart Farming Techonlogy Product Life Cycle

3.3 Global Smart Farming Techonlogy Sales by Manufacturers (2020-2025)

3.4 Global Smart Farming Techonlogy Revenue Market Share by Manufacturers (2020-2025)

3.5 Smart Farming Techonlogy Market Share by Company Type (Tier 1, Tier 2, and Tier 3)

3.6 Global Smart Farming Techonlogy Average Price by Manufacturers (2020-2025)

3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types

3.8 Smart Farming Techonlogy Market Competitive Situation and Trends

3.8.1 Smart Farming Techonlogy Market Concentration Rate

3.8.2 Global 5 and 10 Largest Smart Farming Techonlogy Players Market Share by Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 SMART FARMING TECHNOLOGY INDUSTRY CHAIN ANALYSIS

4.1 Smart Farming Technology Industry Chain Analysis

4.2 Market Overview of Key Raw Materials

4.3 Midstream Market Analysis

4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF SMART FARMING TECHNOLOGY MARKET

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Industry News

5.4.1 New Product Developments

5.4.2 Mergers & Acquisitions

5.4.3 Expansions

5.4.4 Collaboration/Supply Contracts

5.5 PEST Analysis

5.5.1 Industry Policies Analysis

5.5.2 Economic Environment Analysis

5.5.3 Social Environment Analysis

5.5.4 Technological Environment Analysis

5.6 Global Smart Farming Technology Market Porter's Five Forces Analysis

5.6.1 Global Trade Frictions

5.6.2 U.S. Tariff Policy ? April 2025

5.6.3 Global Trade Frictions and Their Impacts to Smart Farming Technology Market

5.7 ESG Ratings of Leading Companies

6 SMART FARMING TECHNOLOGY MARKET SEGMENTATION BY TYPE

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Smart Farming Technology Sales Market Share by Type (2020-2025)

6.3 Global Smart Farming Technology Market Size Market Share by Type (2020-2025)

6.4 Global Smart Farming Technology Price by Type (2020-2025)

7 SMART FARMING TECHNOLOGY MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Smart Farming Techonlogy Market Sales by Application (2020-2025)
- 7.3 Global Smart Farming Techonlogy Market Size (M USD) by Application (2020-2025)
- 7.4 Global Smart Farming Techonlogy Sales Growth Rate by Application (2020-2025)

8 SMART FARMING TECHONLOGY MARKET SALES BY REGION

- 8.1 Global Smart Farming Techonlogy Sales by Region
 - 8.1.1 Global Smart Farming Techonlogy Sales by Region
 - 8.1.2 Global Smart Farming Techonlogy Sales Market Share by Region
- 8.2 Global Smart Farming Techonlogy Market Size by Region
 - 8.2.1 Global Smart Farming Techonlogy Market Size by Region
 - 8.2.2 Global Smart Farming Techonlogy Market Size Market Share by Region
- 8.3 North America
 - 8.3.1 North America Smart Farming Techonlogy Sales by Country
 - 8.3.2 North America Smart Farming Techonlogy Market Size by Country
 - 8.3.3 U.S. Market Overview
 - 8.3.4 Canada Market Overview
 - 8.3.5 Mexico Market Overview
- 8.4 Europe
 - 8.4.1 Europe Smart Farming Techonlogy Sales by Country
 - 8.4.2 Europe Smart Farming Techonlogy Market Size by Country
 - 8.4.3 Germany Market Overview
 - 8.4.4 France Market Overview
 - 8.4.5 U.K. Market Overview
 - 8.4.6 Italy Market Overview
 - 8.4.7 Spain Market Overview
- 8.5 Asia Pacific
 - 8.5.1 Asia Pacific Smart Farming Techonlogy Sales by Region
 - 8.5.2 Asia Pacific Smart Farming Techonlogy Market Size by Region
 - 8.5.3 China Market Overview
 - 8.5.4 Japan Market Overview
 - 8.5.5 South Korea Market Overview
 - 8.5.6 India Market Overview
 - 8.5.7 Southeast Asia Market Overview
- 8.6 South America
 - 8.6.1 South America Smart Farming Techonlogy Sales by Country
 - 8.6.2 South America Smart Farming Techonlogy Market Size by Country

8.6.3 Brazil Market Overview

8.6.4 Argentina Market Overview

8.6.5 Columbia Market Overview

8.7 Middle East and Africa

8.7.1 Middle East and Africa Smart Farming Techonlogy Sales by Region

8.7.2 Middle East and Africa Smart Farming Techonlogy Market Size by Region

8.7.3 Saudi Arabia Market Overview

8.7.4 UAE Market Overview

8.7.5 Egypt Market Overview

8.7.6 Nigeria Market Overview

8.7.7 South Africa Market Overview

9 SMART FARMING TECHONLOGY MARKET PRODUCTION BY REGION

9.1 Global Production of Smart Farming Techonlogy by Region(2020-2025)

9.2 Global Smart Farming Techonlogy Revenue Market Share by Region (2020-2025)

9.3 Global Smart Farming Techonlogy Production, Revenue, Price and Gross Margin (2020-2025)

9.4 North America Smart Farming Techonlogy Production

9.4.1 North America Smart Farming Techonlogy Production Growth Rate (2020-2025)

9.4.2 North America Smart Farming Techonlogy Production, Revenue, Price and Gross Margin (2020-2025)

9.5 Europe Smart Farming Techonlogy Production

9.5.1 Europe Smart Farming Techonlogy Production Growth Rate (2020-2025)

9.5.2 Europe Smart Farming Techonlogy Production, Revenue, Price and Gross Margin (2020-2025)

9.6 Japan Smart Farming Techonlogy Production (2020-2025)

9.6.1 Japan Smart Farming Techonlogy Production Growth Rate (2020-2025)

9.6.2 Japan Smart Farming Techonlogy Production, Revenue, Price and Gross Margin (2020-2025)

9.7 China Smart Farming Techonlogy Production (2020-2025)

9.7.1 China Smart Farming Techonlogy Production Growth Rate (2020-2025)

9.7.2 China Smart Farming Techonlogy Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 John Deere

10.1.1 John Deere Basic Information

- 10.1.2 John Deere Smart Farming Techonlogy Product Overview
- 10.1.3 John Deere Smart Farming Techonlogy Product Market Performance
- 10.1.4 John Deere Business Overview
- 10.1.5 John Deere SWOT Analysis
- 10.1.6 John Deere Recent Developments
- 10.2 Raven Industries
 - 10.2.1 Raven Industries Basic Information
 - 10.2.2 Raven Industries Smart Farming Techonlogy Product Overview
 - 10.2.3 Raven Industries Smart Farming Techonlogy Product Market Performance
 - 10.2.4 Raven Industries Business Overview
 - 10.2.5 Raven Industries SWOT Analysis
 - 10.2.6 Raven Industries Recent Developments
- 10.3 AGCO
 - 10.3.1 AGCO Basic Information
 - 10.3.2 AGCO Smart Farming Techonlogy Product Overview
 - 10.3.3 AGCO Smart Farming Techonlogy Product Market Performance
 - 10.3.4 AGCO Business Overview
 - 10.3.5 AGCO SWOT Analysis
 - 10.3.6 AGCO Recent Developments
- 10.4 Ag Leader Technology
 - 10.4.1 Ag Leader Technology Basic Information
 - 10.4.2 Ag Leader Technology Smart Farming Techonlogy Product Overview
 - 10.4.3 Ag Leader Technology Smart Farming Techonlogy Product Market Performance
 - 10.4.4 Ag Leader Technology Business Overview
 - 10.4.5 Ag Leader Technology Recent Developments
- 10.5 DICKEY-john
 - 10.5.1 DICKEY-john Basic Information
 - 10.5.2 DICKEY-john Smart Farming Techonlogy Product Overview
 - 10.5.3 DICKEY-john Smart Farming Techonlogy Product Market Performance
 - 10.5.4 DICKEY-john Business Overview
 - 10.5.5 DICKEY-john Recent Developments
- 10.6 Auroras
 - 10.6.1 Auroras Basic Information
 - 10.6.2 Auroras Smart Farming Techonlogy Product Overview
 - 10.6.3 Auroras Smart Farming Techonlogy Product Market Performance
 - 10.6.4 Auroras Business Overview
 - 10.6.5 Auroras Recent Developments
- 10.7 Farmers Edge

- 10.7.1 Farmers Edge Basic Information
- 10.7.2 Farmers Edge Smart Farming Techonlogy Product Overview
- 10.7.3 Farmers Edge Smart Farming Techonlogy Product Market Performance
- 10.7.4 Farmers Edge Business Overview
- 10.7.5 Farmers Edge Recent Developments
- 10.8 Iteris
 - 10.8.1 Iteris Basic Information
 - 10.8.2 Iteris Smart Farming Techonlogy Product Overview
 - 10.8.3 Iteris Smart Farming Techonlogy Product Market Performance
 - 10.8.4 Iteris Business Overview
 - 10.8.5 Iteris Recent Developments
- 10.9 Trimble
 - 10.9.1 Trimble Basic Information
 - 10.9.2 Trimble Smart Farming Techonlogy Product Overview
 - 10.9.3 Trimble Smart Farming Techonlogy Product Market Performance
 - 10.9.4 Trimble Business Overview
 - 10.9.5 Trimble Recent Developments
- 10.10 PrecisionHawk
 - 10.10.1 PrecisionHawk Basic Information
 - 10.10.2 PrecisionHawk Smart Farming Techonlogy Product Overview
 - 10.10.3 PrecisionHawk Smart Farming Techonlogy Product Market Performance
 - 10.10.4 PrecisionHawk Business Overview
 - 10.10.5 PrecisionHawk Recent Developments
- 10.11 Precision Planting
 - 10.11.1 Precision Planting Basic Information
 - 10.11.2 Precision Planting Smart Farming Techonlogy Product Overview
 - 10.11.3 Precision Planting Smart Farming Techonlogy Product Market Performance
 - 10.11.4 Precision Planting Business Overview
 - 10.11.5 Precision Planting Recent Developments

11 SMART FARMING TECHONLOGY MARKET FORECAST BY REGION

- 11.1 Global Smart Farming Techonlogy Market Size Forecast
- 11.2 Global Smart Farming Techonlogy Market Forecast by Region
 - 11.2.1 North America Market Size Forecast by Country
 - 11.2.2 Europe Smart Farming Techonlogy Market Size Forecast by Country
 - 11.2.3 Asia Pacific Smart Farming Techonlogy Market Size Forecast by Region
 - 11.2.4 South America Smart Farming Techonlogy Market Size Forecast by Country
 - 11.2.5 Middle East and Africa Forecasted Sales of Smart Farming Techonlogy by

Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2033)

12.1 Global Smart Farming Techonlogy Market Forecast by Type (2026-2033)

12.1.1 Global Forecasted Sales of Smart Farming Techonlogy by Type (2026-2033)

12.1.2 Global Smart Farming Techonlogy Market Size Forecast by Type (2026-2033)

12.1.3 Global Forecasted Price of Smart Farming Techonlogy by Type (2026-2033)

12.2 Global Smart Farming Techonlogy Market Forecast by Application (2026-2033)

12.2.1 Global Smart Farming Techonlogy Sales (K Units) Forecast by Application

12.2.2 Global Smart Farming Techonlogy Market Size (M USD) Forecast by Application (2026-2033)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Market Size (M USD) Segment Executive Summary

Table 4. Smart Farming Techonlogy Market Size Comparison by Region (M USD)

Table 5. Global Smart Farming Techonlogy Sales (K Units) by Manufacturers
(2020-2025)

Table 6. Global Smart Farming Techonlogy Sales Market Share by Manufacturers
(2020-2025)

Table 7. Global Smart Farming Techonlogy Revenue (M USD) by Manufacturers
(2020-2025)

Table 8. Global Smart Farming Techonlogy Revenue Share by Manufacturers
(2020-2025)

Table 9. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Smart Farming Techonlogy as of 2024)

Table 10. Global Market Smart Farming Techonlogy Average Price (USD/Unit) of Key Manufacturers (2020-2025)

Table 11. Manufacturers? Manufacturing Sites, Areas Served

Table 12. Manufacturers? Product Type

Table 13. Global Smart Farming Techonlogy Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 14. Mergers & Acquisitions, Expansion Plans

Table 15. Market Overview of Key Raw Materials

Table 16. Midstream Market Analysis

Table 17. Downstream Customer Analysis

Table 18. Key Development Trends

Table 19. Driving Factors

Table 20. Smart Farming Techonlogy Market Challenges

Table 21. Goldman Sachs' forecast real GDP growth rate for 2024-2026

Table 22. S&P Global ' Forecast Real GDP Growth Rate For 2024-2027

Table 23. World Bank ' Forecast Real GDP Growth Rate For 2024-2026

Table 24. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries

Table 25. Global Smart Farming Techonlogy Sales by Type (K Units)

Table 26. Global Smart Farming Techonlogy Market Size by Type (M USD)

Table 27. Global Smart Farming Techonlogy Sales (K Units) by Type (2020-2025)

Table 28. Global Smart Farming Techonlogy Sales Market Share by Type (2020-2025)
Table 29. Global Smart Farming Techonlogy Market Size (M USD) by Type (2020-2025)
Table 30. Global Smart Farming Techonlogy Market Size Share by Type (2020-2025)
Table 31. Global Smart Farming Techonlogy Price (USD/Unit) by Type (2020-2025)
Table 32. Global Smart Farming Techonlogy Sales (K Units) by Application
Table 33. Global Smart Farming Techonlogy Market Size by Application
Table 34. Global Smart Farming Techonlogy Sales by Application (2020-2025) & (K Units)
Table 35. Global Smart Farming Techonlogy Sales Market Share by Application (2020-2025)
Table 36. Global Smart Farming Techonlogy Market Size by Application (2020-2025) & (M USD)
Table 37. Global Smart Farming Techonlogy Market Share by Application (2020-2025)
Table 38. Global Smart Farming Techonlogy Sales Growth Rate by Application (2020-2025)
Table 39. Global Smart Farming Techonlogy Sales by Region (2020-2025) & (K Units)
Table 40. Global Smart Farming Techonlogy Sales Market Share by Region (2020-2025)
Table 41. Global Smart Farming Techonlogy Market Size by Region (2020-2025) & (M USD)
Table 42. Global Smart Farming Techonlogy Market Size Market Share by Region (2020-2025)
Table 43. North America Smart Farming Techonlogy Sales by Country (2020-2025) & (K Units)
Table 44. North America Smart Farming Techonlogy Market Size by Country (2020-2025) & (M USD)
Table 45. Europe Smart Farming Techonlogy Sales by Country (2020-2025) & (K Units)
Table 46. Europe Smart Farming Techonlogy Market Size by Country (2020-2025) & (M USD)
Table 47. Asia Pacific Smart Farming Techonlogy Sales by Region (2020-2025) & (K Units)
Table 48. Asia Pacific Smart Farming Techonlogy Market Size by Region (2020-2025) & (M USD)
Table 49. South America Smart Farming Techonlogy Sales by Country (2020-2025) & (K Units)
Table 50. South America Smart Farming Techonlogy Market Size by Country (2020-2025) & (M USD)
Table 51. Middle East and Africa Smart Farming Techonlogy Sales by Region (2020-2025) & (K Units)

Table 52. Middle East and Africa Smart Farming Techonlogy Market Size by Region (2020-2025) & (M USD)

Table 53. Global Smart Farming Techonlogy Production (K Units) by Region(2020-2025)

Table 54. Global Smart Farming Techonlogy Revenue (US\$ Million) by Region (2020-2025)

Table 55. Global Smart Farming Techonlogy Revenue Market Share by Region (2020-2025)

Table 56. Global Smart Farming Techonlogy Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 57. North America Smart Farming Techonlogy Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 58. Europe Smart Farming Techonlogy Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 59. Japan Smart Farming Techonlogy Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 60. China Smart Farming Techonlogy Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 61. John Deere Basic Information

Table 62. John Deere Smart Farming Techonlogy Product Overview

Table 63. John Deere Smart Farming Techonlogy Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 64. John Deere Business Overview

Table 65. John Deere SWOT Analysis

Table 66. John Deere Recent Developments

Table 67. Raven Industries Basic Information

Table 68. Raven Industries Smart Farming Techonlogy Product Overview

Table 69. Raven Industries Smart Farming Techonlogy Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 70. Raven Industries Business Overview

Table 71. Raven Industries SWOT Analysis

Table 72. Raven Industries Recent Developments

Table 73. AGCO Basic Information

Table 74. AGCO Smart Farming Techonlogy Product Overview

Table 75. AGCO Smart Farming Techonlogy Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 76. AGCO Business Overview

Table 77. AGCO SWOT Analysis

Table 78. AGCO Recent Developments

Table 79. Ag Leader Technology Basic Information
Table 80. Ag Leader Technology Smart Farming Techonlogy Product Overview
Table 81. Ag Leader Technology Smart Farming Techonlogy Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 82. Ag Leader Technology Business Overview
Table 83. Ag Leader Technology Recent Developments
Table 84. DICKEY-john Basic Information
Table 85. DICKEY-john Smart Farming Techonlogy Product Overview
Table 86. DICKEY-john Smart Farming Techonlogy Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 87. DICKEY-john Business Overview
Table 88. DICKEY-john Recent Developments
Table 89. Auroras Basic Information
Table 90. Auroras Smart Farming Techonlogy Product Overview
Table 91. Auroras Smart Farming Techonlogy Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 92. Auroras Business Overview
Table 93. Auroras Recent Developments
Table 94. Farmers Edge Basic Information
Table 95. Farmers Edge Smart Farming Techonlogy Product Overview
Table 96. Farmers Edge Smart Farming Techonlogy Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 97. Farmers Edge Business Overview
Table 98. Farmers Edge Recent Developments
Table 99. Iteris Basic Information
Table 100. Iteris Smart Farming Techonlogy Product Overview
Table 101. Iteris Smart Farming Techonlogy Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 102. Iteris Business Overview
Table 103. Iteris Recent Developments
Table 104. Trimble Basic Information
Table 105. Trimble Smart Farming Techonlogy Product Overview
Table 106. Trimble Smart Farming Techonlogy Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 107. Trimble Business Overview
Table 108. Trimble Recent Developments
Table 109. PrecisionHawk Basic Information
Table 110. PrecisionHawk Smart Farming Techonlogy Product Overview
Table 111. PrecisionHawk Smart Farming Techonlogy Sales (K Units), Revenue (M

USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 112. PrecisionHawk Business Overview

Table 113. PrecisionHawk Recent Developments

Table 114. Precision Planting Basic Information

Table 115. Precision Planting Smart Farming Techonlogy Product Overview

Table 116. Precision Planting Smart Farming Techonlogy Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 117. Precision Planting Business Overview

Table 118. Precision Planting Recent Developments

Table 119. Global Smart Farming Techonlogy Sales Forecast by Region (2026-2033) & (K Units)

Table 120. Global Smart Farming Techonlogy Market Size Forecast by Region (2026-2033) & (M USD)

Table 121. North America Smart Farming Techonlogy Sales Forecast by Country (2026-2033) & (K Units)

Table 122. North America Smart Farming Techonlogy Market Size Forecast by Country (2026-2033) & (M USD)

Table 123. Europe Smart Farming Techonlogy Sales Forecast by Country (2026-2033) & (K Units)

Table 124. Europe Smart Farming Techonlogy Market Size Forecast by Country (2026-2033) & (M USD)

Table 125. Asia Pacific Smart Farming Techonlogy Sales Forecast by Region (2026-2033) & (K Units)

Table 126. Asia Pacific Smart Farming Techonlogy Market Size Forecast by Region (2026-2033) & (M USD)

Table 127. South America Smart Farming Techonlogy Sales Forecast by Country (2026-2033) & (K Units)

Table 128. South America Smart Farming Techonlogy Market Size Forecast by Country (2026-2033) & (M USD)

Table 129. Middle East and Africa Smart Farming Techonlogy Sales Forecast by Country (2026-2033) & (Units)

Table 130. Middle East and Africa Smart Farming Techonlogy Market Size Forecast by Country (2026-2033) & (M USD)

Table 131. Global Smart Farming Techonlogy Sales Forecast by Type (2026-2033) & (K Units)

Table 132. Global Smart Farming Techonlogy Market Size Forecast by Type (2026-2033) & (M USD)

Table 133. Global Smart Farming Techonlogy Price Forecast by Type (2026-2033) & (USD/Unit)

Table 134. Global Smart Farming Techonlogy Sales (K Units) Forecast by Application (2026-2033)

Table 135. Global Smart Farming Techonlogy Market Size Forecast by Application (2026-2033) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Smart Farming Techonlogy
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Smart Farming Techonlogy Market Size (M USD), 2024-2033
- Figure 5. Global Smart Farming Techonlogy Market Size (M USD) (2020-2033)
- Figure 6. Global Smart Farming Techonlogy Sales (K Units) & (2020-2033)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Smart Farming Techonlogy Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Smart Farming Techonlogy Product Life Cycle
- Figure 13. Smart Farming Techonlogy Sales Share by Manufacturers in 2024
- Figure 14. Global Smart Farming Techonlogy Revenue Share by Manufacturers in 2024
- Figure 15. Smart Farming Techonlogy Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2024
- Figure 16. Global Market Smart Farming Techonlogy Average Price (USD/Unit) of Key Manufacturers in 2024
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Smart Farming Techonlogy Revenue in 2024
- Figure 18. Industry Chain Map of Smart Farming Techonlogy
- Figure 19. Global Smart Farming Techonlogy Market PEST Analysis
- Figure 20. Global Smart Farming Techonlogy Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Smart Farming Techonlogy Market Share by Type
- Figure 27. Sales Market Share of Smart Farming Techonlogy by Type (2020-2025)
- Figure 28. Sales Market Share of Smart Farming Techonlogy by Type in 2024
- Figure 29. Market Size Share of Smart Farming Techonlogy by Type (2020-2025)
- Figure 30. Market Size Share of Smart Farming Techonlogy by Type in 2024
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 32. Global Smart Farming Techonlogy Market Share by Application

Figure 33. Global Smart Farming Techonlogy Sales Market Share by Application (2020-2025)

Figure 34. Global Smart Farming Techonlogy Sales Market Share by Application in 2024

Figure 35. Global Smart Farming Techonlogy Market Share by Application (2020-2025)

Figure 36. Global Smart Farming Techonlogy Market Share by Application in 2024

Figure 37. Global Smart Farming Techonlogy Sales Growth Rate by Application (2020-2025)

Figure 38. Global Smart Farming Techonlogy Sales Market Share by Region (2020-2025)

Figure 39. Global Smart Farming Techonlogy Market Size Market Share by Region (2020-2025)

Figure 40. North America Smart Farming Techonlogy Sales and Growth Rate (2020-2025) & (K Units)

Figure 41. North America Smart Farming Techonlogy Sales and Growth Rate (2020-2025) & (K Units)

Figure 42. North America Smart Farming Techonlogy Sales Market Share by Country in 2024

Figure 43. North America Smart Farming Techonlogy Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America Smart Farming Techonlogy Market Size Market Share by Country in 2024

Figure 45. U.S. Smart Farming Techonlogy Sales and Growth Rate (2020-2025) & (K Units)

Figure 46. U.S. Smart Farming Techonlogy Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. Canada Smart Farming Techonlogy Sales (K Units) and Growth Rate (2020-2025)

Figure 48. Canada Smart Farming Techonlogy Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico Smart Farming Techonlogy Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico Smart Farming Techonlogy Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe Smart Farming Techonlogy Sales and Growth Rate (2020-2025) & (K Units)

Figure 52. Europe Smart Farming Techonlogy Sales Market Share by Country in 2024

Figure 53. Europe Smart Farming Techonlogy Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Smart Farming Techonlogy Market Size Market Share by Country in 2024

Figure 55. Germany Smart Farming Techonlogy Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany Smart Farming Techonlogy Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Smart Farming Techonlogy Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France Smart Farming Techonlogy Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Smart Farming Techonlogy Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. Smart Farming Techonlogy Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Smart Farming Techonlogy Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy Smart Farming Techonlogy Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Smart Farming Techonlogy Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain Smart Farming Techonlogy Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Smart Farming Techonlogy Sales and Growth Rate (K Units)

Figure 66. Asia Pacific Smart Farming Techonlogy Sales Market Share by Region in 2024

Figure 67. Asia Pacific Smart Farming Techonlogy Market Size Market Share by Region in 2024

Figure 68. China Smart Farming Techonlogy Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China Smart Farming Techonlogy Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Smart Farming Techonlogy Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan Smart Farming Techonlogy Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Smart Farming Techonlogy Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea Smart Farming Techonlogy Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Smart Farming Techonlogy Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India Smart Farming Techonlogy Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Smart Farming Techonlogy Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia Smart Farming Techonlogy Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Smart Farming Techonlogy Sales and Growth Rate (K Units)

Figure 79. South America Smart Farming Techonlogy Sales Market Share by Country in 2024

Figure 80. South America Smart Farming Techonlogy Market Size and Growth Rate (M USD)

Figure 81. South America Smart Farming Techonlogy Market Size Market Share by Country in 2024

Figure 82. Brazil Smart Farming Techonlogy Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil Smart Farming Techonlogy Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Smart Farming Techonlogy Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina Smart Farming Techonlogy Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Smart Farming Techonlogy Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia Smart Farming Techonlogy Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Smart Farming Techonlogy Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa Smart Farming Techonlogy Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Smart Farming Techonlogy Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Smart Farming Techonlogy Market Size Market Share by Region in 2024

Figure 92. Saudi Arabia Smart Farming Techonlogy Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia Smart Farming Techonlogy Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Smart Farming Techonlogy Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE Smart Farming Techonlogy Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Smart Farming Techonlogy Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt Smart Farming Techonlogy Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Smart Farming Techonlogy Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria Smart Farming Techonlogy Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Smart Farming Techonlogy Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa Smart Farming Techonlogy Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Smart Farming Techonlogy Production Market Share by Region (2020-2025)

Figure 103. North America Smart Farming Techonlogy Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe Smart Farming Techonlogy Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan Smart Farming Techonlogy Production (K Units) Growth Rate (2020-2025)

Figure 106. China Smart Farming Techonlogy Production (K Units) Growth Rate (2020-2025)

Figure 107. Global Smart Farming Techonlogy Sales Forecast by Volume (2020-2033) & (K Units)

Figure 108. Global Smart Farming Techonlogy Market Size Forecast by Value (2020-2033) & (M USD)

Figure 109. Global Smart Farming Techonlogy Sales Market Share Forecast by Type (2026-2033)

Figure 110. Global Smart Farming Techonlogy Market Share Forecast by Type (2026-2033)

Figure 111. Global Smart Farming Techonlogy Sales Forecast by Application (2026-2033)

Figure 112. Global Smart Farming Techonlogy Market Share Forecast by Application (2026-2033)

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