

Agriculture Planting Equipment Market Forecasts to 2032 – Global Analysis By Type (Seed Drills, Air Seeders, Planters, Broadcast Seeders, Transplanters, Box Drill Seeders and Other Types), Form (Mechanical and Automatic), Crop Type, End User and By Geography

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Abstracts

According to Statistics MRC, the Global Agriculture Planting Equipment Market is growing at a CAGR of 7.5% during the forecast period. Agricultural planting equipment refers to a variety of machinery that evenly and efficiently sows seeds across agricultural fields. These tools, which are all made to maximize seed depth, spacing, and placement, include air seeders, planters, seed drills, and precision planting systems. In order to increase accuracy and productivity, modern planting equipment frequently integrates cutting-edge technologies like variable rate technology, automated controls, and GPS guidance. These devices are crucial to large-scale farming operations because they enhance crop establishment and lessen labor intensity. Moreover, planting equipment is constantly evolving to accommodate a variety of crop types and field conditions owing to continuous innovations.

According to the Tractor and Mechanization Association (TMA) of India, the country produced approximately 900,000 tractors in 2021, reinforcing its position as a leading global manufacturer in the agricultural machinery sector.

Market Dynamics:

Driver:

Growing need for food production

The agricultural sector is under tremendous pressure to increase food production due to the world's expanding population. Farmers are depending more and more on mechanized planting equipment to increase productivity and efficiency due to the scarcity of arable land and the demand for larger crop yields. More food is produced as a result of improved germination rates, optimal plant spacing, and uniform seed distribution made possible by sophisticated planters and seed drills. Additionally, the need for contemporary planting technologies that can guarantee reliable and extensive food production is further fueled by the growing demand for high-value crops as well as staple crops like wheat, rice, and maize.

Restraint:

Expensive initial investment costs

The substantial initial outlay needed to buy contemporary planting equipment is one of the main obstacles facing the agriculture planting equipment market. Pneumatic seeders, precision planters, automated seed drills, and other advanced planting equipment have high upfront costs that can be unaffordable for small and medium-sized farmers, particularly in developing nations. Farmers are also further burdened financially by related costs like maintenance, training, and installation. Despite the availability of government subsidies and financing options in certain areas, many farmers still struggle to afford mechanized planting solutions, which slow the market's uptake of cutting-edge machinery.

Opportunity:

Growing use of technologies for precision agriculture

The market for agricultural planting equipment has a big chance as precision agriculture gains popularity. Precision farming methods, such as variable rate seeding, GPS-guided planting, and real-time soil monitoring, are revolutionizing conventional farming methods by increasing productivity and maximizing input use. Advanced planting equipment with smart sensors, IoT, and AI-based analytics is being used by farmers more and more to increase planting precision and yield results. Furthermore, manufacturers have the chance to develop and broaden their product offerings in the precision agriculture market as a result of the anticipated increase in demand for automated planters, intelligent seed drills, and drone-assisted planting solutions.

Threat:

Lack of skilled workers to operate equipment

Effective operation of sophisticated machinery requires skilled operators, even though planting equipment is designed to reduce manual labor. The operation and maintenance of many contemporary planters, which are equipped with GPS systems, Internet of Things sensors, and automated controls, call for technical know-how. Lack of properly trained workers is a significant issue in many developing nations, where farmers find it difficult to successfully adopt and use high-tech planting equipment. Moreover, the growth of the market is hampered by the unrealized potential of precision planting technology in the absence of adequate training programs and technical assistance.

Covid-19 Impact:

The COVID-19 pandemic caused some initial disruptions in the agriculture planting equipment market, but it also accelerated the adoption of mechanization in farming. Movement restrictions and lockdowns caused supply chain bottlenecks, which delayed the manufacturing and delivery of planting machinery because of labor and raw material shortages. Many farmers were also compelled to delay investments in new equipment due to financial uncertainties. However, the pandemic also brought attention to the need for automation and a decrease in manual labor, which led to a spike in demand for smart farming technologies and precision planting equipment.

The planters segment is expected to be the largest during the forecast period

The planters segment is expected to account for the largest market share during the forecast period, mainly because they can guarantee accurate seed placement and spacing and are widely used in large-scale commercial farming. For row crops like corn, soybeans, and cotton, which need to be planted uniformly to maximize yield, planters are highly recommended. The adoption of advanced planters with GPS, variable-rate seeding, and automated depth control has increased, especially in developed areas where farming is heavily mechanized. Moreover, the growth of this market is also being supported by rising investments in precision agriculture and the rising need for high-efficiency farming equipment.

The fruits & vegetables segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the fruits & vegetables segment is predicted to witness the highest growth rate, driven by the increasing global demand for horticultural crops, rising health consciousness, and the expansion of greenhouse and organic farming. Fruit and vegetable production is now much more efficient owing to the growing popularity of precision farming and technological developments like robotic planting systems and automated transplanters. Advanced planting equipment has also become more popular in this market due to the move toward high-value and sustainable crops as well as government programs supporting horticulture. Additionally, the market for planting equipment for fruits and vegetables is expanding quickly due to the need to increase productivity and decrease reliance on labor as well as the demand for fresh produce.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share, mainly because of the high level of agricultural productivity, the presence of important market players, and the extensive use of mechanized farming. Variable-rate seeding and GPS-guided planters are two examples of cutting-edge precision farming technologies that benefit the area by increasing crop yields and efficiency. Large-scale commercial farms in the United States and Canada, in particular, necessitate high-capacity planting equipment, which propels market expansion. Furthermore, the need for contemporary planting equipment has also increased as a result of government subsidies, advantageous agricultural laws, and growing investments in smart farming technologies.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR, driven by population growth, increased food demand, and fast mechanization. To increase productivity and lessen their reliance on labor, nations like China, India, and Japan are making significant investments in cutting-edge agricultural technologies. Adoption in the area has been greatly increased by government programs encouraging farm mechanization and subsidies for planting equipment. Furthermore, the Asia-Pacific Agriculture Planting Equipment Market is anticipated to continue its strong growth trajectory due to the growing number of domestic and foreign producers of agricultural equipment as well as advancements in automated and smart planting technologies.

Key players in the market

Some of the key players in Agriculture Planting Equipment Market include AGCO Corporation, Deere & Company, Kubota Corporation, CNH Industrial NV, Morris Industries Ltd, Seed Hawk Inc, Davimac Pty. Ltd., Buhler Industries, Inc, Kinze Manufacturing, Inc, SDF Group, Dewulf Group, Bourgault Industries Ltd, Kasco Manufacturing Co., Inc., Caterpillar and Salford Group.

Key Developments:

In February 2025, Vale and Caterpillar have signed a new, five-year global framework agreement, to strengthen the collaboration between the two companies. Among the objectives are increased focus on productivity and innovation, including carbon reduction initiatives. The companies also reaffirmed their commitment made in April 2024 to cooperate towards development of a dual-fuel haul truck, powered by diesel and ethanol.

In July 2024, AGCO Corporation announced it has entered into a definitive agreement to sell the majority of its Grain & Protein business to American Industrial Partners ('AIP') in an all-cash transaction valued at \$700 million, subject to working capital and other customary closing adjustments.

In June 2024, Deere has extended its distribution agreement with Douglas Dynamics, parent company of Western Products, to sell and support Western snow and ice removal attachments for its construction equipment line-ups through the John Deere dealer network. Per the agreement, snow attachments for wheel loaders, skid steer loaders, and compact track loaders, customers with select mid-size wheel loader models will be available.

Types Covered:

Seed Drills

Air Seeders

Planters

Broadcast Seeders

Transplanters

Box Drill Seeders

Other Types

Forms Covered:

Mechanical

Automatic

Crop Types Covered:

Cereals & Grains

Oilseeds & Pulses

Fruits & Vegetables

Turf and Turf Grass

Other Crop Types

End Users Covered:

Commercial Farmers

Smallholder Farmers

Agricultural Cooperatives

Government and Public Sector

Horticulture and Floriculture Businesses

Agri-Tech Startups

Other End Users

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

Contents

1 EXECUTIVE SUMMARY

2 PREFACE

- 2.1 Abstract
- 2.2 Stake Holders
- 2.3 Research Scope
- 2.4 Research Methodology
 - 2.4.1 Data Mining
 - 2.4.2 Data Analysis
 - 2.4.3 Data Validation
 - 2.4.4 Research Approach
- 2.5 Research Sources
 - 2.5.1 Primary Research Sources
 - 2.5.2 Secondary Research Sources
 - 2.5.3 Assumptions

3 MARKET TREND ANALYSIS

- 3.1 Introduction
- 3.2 Drivers
- 3.3 Restraints
- 3.4 Opportunities
- 3.5 Threats
- 3.6 End User Analysis
- 3.7 Emerging Markets
- 3.8 Impact of Covid-19

4 PORTERS FIVE FORCE ANALYSIS

- 4.1 Bargaining power of suppliers
- 4.2 Bargaining power of buyers
- 4.3 Threat of substitutes
- 4.4 Threat of new entrants
- 4.5 Competitive rivalry

5 GLOBAL AGRICULTURE PLANTING EQUIPMENT MARKET, BY TYPE

- 5.1 Introduction
- 5.2 Seed Drills
- 5.3 Air Seeders
- 5.4 Planters
- 5.5 Broadcast Seeders
- 5.6 Transplanters
- 5.7 Box Drill Seeders
- 5.8 Other Types

6 GLOBAL AGRICULTURE PLANTING EQUIPMENT MARKET, BY FORM

- 6.1 Introduction
- 6.2 Mechanical
- 6.3 Automatic

7 GLOBAL AGRICULTURE PLANTING EQUIPMENT MARKET, BY CROP TYPE

- 7.1 Introduction
- 7.2 Cereals & Grains
- 7.3 Oilseeds & Pulses
- 7.4 Fruits & Vegetables
- 7.5 Turf and Turf Grass
- 7.6 Other Crop Types

8 GLOBAL AGRICULTURE PLANTING EQUIPMENT MARKET, BY END USER

- 8.1 Introduction
- 8.2 Commercial Farmers
- 8.3 Smallholder Farmers
- 8.4 Agricultural Cooperatives
- 8.5 Government and Public Sector
- 8.6 Horticulture and Floriculture Businesses
- 8.7 Agri-Tech Startups
- 8.8 Other End Users

9 GLOBAL AGRICULTURE PLANTING EQUIPMENT MARKET, BY GEOGRAPHY

- 9.1 Introduction

9.2 North America

9.2.1 US

9.2.2 Canada

9.2.3 Mexico

9.3 Europe

9.3.1 Germany

9.3.2 UK

9.3.3 Italy

9.3.4 France

9.3.5 Spain

9.3.6 Rest of Europe

9.4 Asia Pacific

9.4.1 Japan

9.4.2 China

9.4.3 India

9.4.4 Australia

9.4.5 New Zealand

9.4.6 South Korea

9.4.7 Rest of Asia Pacific

9.5 South America

9.5.1 Argentina

9.5.2 Brazil

9.5.3 Chile

9.5.4 Rest of South America

9.6 Middle East & Africa

9.6.1 Saudi Arabia

9.6.2 UAE

9.6.3 Qatar

9.6.4 South Africa

9.6.5 Rest of Middle East & Africa

10 KEY DEVELOPMENTS

10.1 Agreements, Partnerships, Collaborations and Joint Ventures

10.2 Acquisitions & Mergers

10.3 New Product Launch

10.4 Expansions

10.5 Other Key Strategies

11 COMPANY PROFILING

- 11.1 AGCO Corporation
- 11.2 Deere & Company
- 11.3 Kubota Corporation
- 11.4 CNH Industrial NV
- 11.5 Morris Industries Ltd
- 11.6 Seed Hawk Inc
- 11.7 Davimac Pty. Ltd.
- 11.8 Buhler Industries, Inc
- 11.9 Kinze Manufacturing, Inc
- 11.10 SDF Group
- 11.11 Dewulf Group
- 11.12 Bourgault Industries Ltd
- 11.13 Kasco Manufacturing Co., Inc.
- 11.14 Caterpillar
- 11.15 Salford Group

List Of Tables

LIST OF TABLES

- 1 Global Agriculture Planting Equipment Market Outlook, By Region (2024-2032) (\$MN)
- 2 Global Agriculture Planting Equipment Market Outlook, By Type (2024-2032) (\$MN)
- 3 Global Agriculture Planting Equipment Market Outlook, By Seed Drills (2024-2032) (\$MN)
- 4 Global Agriculture Planting Equipment Market Outlook, By Air Seeders (2024-2032) (\$MN)
- 5 Global Agriculture Planting Equipment Market Outlook, By Planters (2024-2032) (\$MN)
- 6 Global Agriculture Planting Equipment Market Outlook, By Broadcast Seeders (2024-2032) (\$MN)
- 7 Global Agriculture Planting Equipment Market Outlook, By Transplanters (2024-2032) (\$MN)
- 8 Global Agriculture Planting Equipment Market Outlook, By Box Drill Seeders (2024-2032) (\$MN)
- 9 Global Agriculture Planting Equipment Market Outlook, By Other Types (2024-2032) (\$MN)
- 10 Global Agriculture Planting Equipment Market Outlook, By Form (2024-2032) (\$MN)
- 11 Global Agriculture Planting Equipment Market Outlook, By Mechanical (2024-2032) (\$MN)
- 12 Global Agriculture Planting Equipment Market Outlook, By Automatic (2024-2032) (\$MN)
- 13 Global Agriculture Planting Equipment Market Outlook, By Crop Type (2024-2032) (\$MN)
- 14 Global Agriculture Planting Equipment Market Outlook, By Cereals & Grains (2024-2032) (\$MN)
- 15 Global Agriculture Planting Equipment Market Outlook, By Oilseeds & Pulses (2024-2032) (\$MN)
- 16 Global Agriculture Planting Equipment Market Outlook, By Fruits & Vegetables (2024-2032) (\$MN)
- 17 Global Agriculture Planting Equipment Market Outlook, By Turf and Turf Grass (2024-2032) (\$MN)
- 18 Global Agriculture Planting Equipment Market Outlook, By Other Crop Types (2024-2032) (\$MN)
- 19 Global Agriculture Planting Equipment Market Outlook, By End User (2024-2032) (\$MN)

20 Global Agriculture Planting Equipment Market Outlook, By Commercial Farmers (2024-2032) (\$MN)

21 Global Agriculture Planting Equipment Market Outlook, By Smallholder Farmers (2024-2032) (\$MN)

22 Global Agriculture Planting Equipment Market Outlook, By Agricultural Cooperatives (2024-2032) (\$MN)

23 Global Agriculture Planting Equipment Market Outlook, By Government and Public Sector (2024-2032) (\$MN)

24 Global Agriculture Planting Equipment Market Outlook, By Horticulture and Floriculture Businesses (2024-2032) (\$MN)

25 Global Agriculture Planting Equipment Market Outlook, By Agri-Tech Startups (2024-2032) (\$MN)

26 Global Agriculture Planting Equipment Market Outlook, By Other End Users (2024-2032) (\$MN)

Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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