

# **Planting Machinery Market Forecasts to 2030 – Global Analysis By Machinery Type (Seed Drills, Planters, Transplanters, Air Seeders, Precision Planting Machines and Other Machinery Types), Crop Type, Fuel Type, Technology, Application and By Geography**

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## **Abstracts**

According to Statistics MRC, the Global Planting Machinery Market is accounted for \$20.3 billion in 2024 and is expected to reach \$31.3 billion by 2030 growing at a CAGR of 7.5% during the forecast period. Planting machinery is a specialized equipment used in agriculture for planting seeds, seedlings, or saplings efficiently. These machines are designed to handle various tasks, such as preparing the soil, planting seeds at optimal depths, and spacing them appropriately to ensure healthy crop growth. Planting machinery can range from simple manual seed drills to complex automated planters that integrate seed placement, fertilization, and soil compaction. By enhancing planting speed and precision, they help increase agricultural productivity and reduce labor costs.

According to United Nations, the food production from plants and animals will need to increase by 70% by 2050, compared to 2009, to meet the increasing food demand across the globe.

Market Dynamics:

Driver:

Growing global population and food demand

The growing global population and increasing food demand are driving the market. As agricultural needs rise to meet the demands of a larger, urbanizing world, the adoption of advanced planting machinery becomes essential. These machines enhance efficiency, reduce labor costs, and improve crop yields, supporting sustainable farming practices. Technological advancements, such as automation and precision farming, further propel the market, making planting machinery a critical component in modern agriculture.

#### Restraint:

##### Complex maintenance and repair requirements

Complex maintenance and repair requirements in the market can have significant negative effects. These challenges lead to increased downtime, higher operational costs, and the need for specialized technical expertise. Farmers may face difficulties in maintaining machinery, especially in remote areas, impacting productivity and efficiency. Additionally, the cost of spare parts and repairs can strain budgets, discouraging adoption, particularly among small-scale or resource-constrained farmers.

#### Opportunity:

##### Precision agriculture and technology adoption

Precision agriculture and technology adoption are significantly transforming the market. Innovations like GPS, sensors, and data analytics enable farmers to optimize planting accuracy, soil health, and resource usage. These technologies reduce waste, increase yield, and enhance sustainability, driving demand for advanced planting machinery. The shift towards automation and smart farming solutions is making planting processes more efficient, cost-effective, and environmentally friendly, fueling growth in the market.

#### Threat:

##### Lack of technical expertise

Complex maintenance and repair requirements in the market can hinder productivity and increase costs. The need for specialized skills and parts may result in extended downtime, disrupting planting schedules and crop yields. Additionally, the high cost of repairs and maintenance may deter small-scale farmers from adopting advanced machinery, limiting accessibility. These factors can lead to inefficiencies, reduced

profitability, and a slower overall adoption of technology in agriculture.

#### Covid-19 Impact:

The COVID-19 pandemic significantly impacted the market, disrupting supply chains and manufacturing processes. Restrictions on movement and labor shortages delayed production and delivery of machinery. Additionally, economic uncertainty led to reduced investments in agricultural technology, particularly among smaller farmers. However, the pandemic also accelerated the adoption of automation and digital farming solutions, as farmers sought ways to reduce labor dependency and improve operational efficiency during uncertain times.

The seed drills segment is expected to be the largest during the forecast period

The seed drills segment is expected to account for the largest market share during the projection period. These machines allow for accurate seed depth, spacing, and uniformity, optimizing crop yields. With advancements in technology, modern seed drills incorporate GPS, sensors, and automated systems to enhance precision and reduce waste. Their ability to improve planting efficiency and reduce labor costs makes them a key driver in the growing demand for advanced agricultural machinery.

The horticulture segment is expected to have the highest CAGR during the forecast period

The horticulture segment is expected to have the highest CAGR during the extrapolated period. Machinery tailored for horticulture, such as specialized planters, transplanting machines, and seeders, help improve planting accuracy and efficiency. These innovations support the growth of fruits, vegetables, and flowers by reducing labor costs, enhancing crop yield, and ensuring optimal planting conditions. As consumer demand for fresh produce rises, horticultural planting machinery continues to evolve.

#### Region with largest share:

North America region is projected to account for the largest market share during the forecast period driven by advanced agricultural practices. Farmers are increasingly using automated planting machinery, such as seed drills and planters, to improve efficiency, reduce labor costs, and enhance crop yields. Strong demand for sustainable farming practices, along with favorable government policies, is further boosting the market, making North America a key region for planting machinery innovations.

### Region with highest CAGR:

Asia Pacific is expected to register the highest growth rate over the forecast period driven by increasing agricultural automation and government initiatives promoting modern farming techniques. The adoption of smart farming and precision agriculture technologies is driving the demand for advanced planting machinery. Additionally, with a growing population in Asia, there is a heightened need for more efficient farming practices. This has led to a surge in demand for planting machinery that can improve crop yields and efficiency.

### Key players in the market

Some of the key players in Planting Machinery market include John Deere, CNH Industrial, AGCO Corporation, Kubota Corporation, Kverneland Group, Rabe, AG Leader Technology, Horsch Maschinen GmbH, Great Plains, Kuhn Group, Maschio Gaspardo, Landini, Stanhay, Monose and Sampo Rosenlew.

### Key Developments:

In August 2024, AGCO Corporation, a global leader in the design, manufacture and distribution of agricultural machinery and precision ag technology, has launched new products.

In February 2024, John Deere Unveiled Cutting-Edge Innovations at 5.0 Event. It announced the introduction of 5D GearPro tractors, features that we get to see in GearPro tractors, the technological advancements that John Deere Tractor offers, and the W70 Power Pro Combined Harvester.

### Machinery Types Covered:

Seed Drills

Planters

Transplanters

Air Seeders

Precision Planting Machines

Other Machinery Types

Crop Types Covered:

Cereal Crops

Fruits and Vegetables

Oilseeds

Root Crops

Legumes

Fuel Types Covered:

Diesel-Powered

Electric-Powered

Hybrid-Powered

Technologies Covered:

Manual Planting Machines

Semi-Automated Planting Machines

Automated/Precision Planting Machinery

Smart Planting Machines

Applications Covered:

Agriculture

Horticulture

Forestry

Turf and Landscaping

Contract Farming

Other Applications

#### 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

*Planting Machinery Market Forecasts to 2030 – Global Analysis By Machinery Type (Seed Drills, Planters, Transp...*

- Strategic recommendations for the new entrants
- Covers Market data for the years 2022, 2023, 2024, 2026, and 2030
- 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

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