

# **Post-Harvest Technology Market Forecasts to 2034 – Global Analysis By Technology Type (Cleaning & Grading Technologies, Sorting Technologies, Drying Technologies, Packaging Technologies, Storage Technologies and Other Technology Types), Component, Crop Type, Application, End User, and By Geography**

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## **Abstracts**

According to Statistics MRC, the Global Post-Harvest Technology Market is accounted for \$19.5 billion in 2026 and is expected to reach \$49.0 billion by 2034 growing at a CAGR of 12.2% during the forecast period. Post-harvest technology encompasses the methods, equipment, and processes used to preserve agricultural products after harvesting and before consumption. These technologies include cleaning, grading, drying, packaging, storage, transportation, and processing systems designed to reduce spoilage and maintain product quality. Effective post-harvest management helps minimize food losses, improve shelf life, and enhance market value for farmers and food suppliers. Innovations such as smart packaging, automated sorting, and cold storage systems are increasingly integrated into agricultural supply chains. Growing concerns regarding food waste and supply chain efficiency are driving advancements in post-harvest technologies worldwide.

### **Market Dynamics:**

Driver:

Rising demand for quality preservation

Consumers are increasingly seeking fresh, safe, and nutrient-rich foods. Farmers and distributors are adopting advanced storage and handling technologies to reduce losses. Governments are promoting post-harvest innovations to improve food security. Awareness campaigns highlight the importance of minimizing waste through preservation. Partnerships between agritech firms and food companies are expanding adoption. This trend is driving the market forward.

#### Restraint:

##### Limited adoption among smallholders

High costs of equipment and infrastructure reduce accessibility. Many farmers lack awareness of advanced preservation methods. Limited access to financing slows integration of modern systems. Rural regions often face challenges in scaling post-harvest solutions. Smaller farms struggle to compete with larger players in maintaining quality. This issue is hindering wider market penetration.

#### Opportunity:

##### Smart storage technology innovations

Innovations such as IoT-enabled cold storage and humidity control systems improve efficiency. Farmers benefit from reduced spoilage and extended shelf life. Affordable smart storage solutions can attract mass-market adoption. Partnerships with technology providers expand reach. Integration with mobile apps enhances accessibility for rural farmers. These innovations are fostering market growth.

#### Threat:

##### Inadequate rural power infrastructure

Cold storage and preservation systems require reliable electricity. Farmers in developing areas struggle to maintain consistent operations. High costs of alternative energy solutions create challenges. Power outages reduce efficiency and increase spoilage risks. Governments are working to improve rural electrification through subsidies. This gap is constraining faster market expansion.

#### Covid-19 Impact:

Covid-19 had a mixed impact on the post-harvest technology market. On one hand, demand rose as food safety and preservation became priorities during the pandemic. Farmers and distributors sought solutions to minimize losses amid supply chain disruptions. Online platforms supported distribution of preservation technologies. On the other hand, economic uncertainty limited investments in advanced systems. Preventive health awareness increased focus on safe food handling. Overall, the pandemic is boosting long-term market awareness and adoption.

The fruits & vegetables segment is expected to be the largest during the forecast period

The fruits & vegetables segment is expected to account for the largest market share during the forecast period as these products are highly perishable and require advanced preservation. Farmers and distributors are investing in cold storage and packaging innovations. Retail penetration of preserved fruits and vegetables is strong in developed markets. Preventive health seekers prefer fresh produce with extended shelf life. Affordable preservation solutions appeal to mass consumers. Governments are supporting fruit and vegetable preservation through subsidies. This segment is driving overall market revenue.

The supply chain management segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the supply chain management segment is predicted to witness the highest growth rate due to rising demand for integrated post-harvest solutions. Supply chain technologies improve efficiency from farm to consumer. Farmers benefit from reduced losses and improved profitability. Younger demographics are adopting digital supply chain platforms rapidly. Digital platforms promote awareness of supply chain innovations. Governments are supporting supply chain modernization through policies. This segment is boosting the market with the highest CAGR.

### **Region with largest share:**

During the forecast period, the North America region is expected to hold the largest market share owing to strong consumer awareness and advanced agricultural infrastructure. High adoption of post-harvest technologies supports growth. Leading companies and technology innovators are headquartered in this region. Government initiatives promote food safety and preservation. Retail penetration of advanced storage solutions is strong in the US and Canada. Farmers are willing to invest in premium preservation systems.

**Region with highest CAGR:**

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR driven by rising disposable incomes and growing agricultural modernization. Urbanization and food security concerns are fueling demand for post-harvest technologies. Countries such as China, India, and Japan are adopting preservation systems rapidly. E-commerce platforms support distribution of storage and supply chain solutions. Government subsidies encourage adoption in rural areas. Affordable technologies appeal to mass farmers.

**Key players in the market**

Some of the key players in Post-Harvest Technology Market include Buhler Group, Marel hf., TOMRA Systems ASA, GEA Group AG, AGCO Corporation, Deere & Company, Heat and Control, Inc., Cimbria A/S, Satake Corporation, GrainPro, Inc., The Middleby Corporation, Multiscan Technologies S.L., BIG DUTCHMAN International GmbH, Bosch Packaging Technology and Buhler India Pvt. Ltd.

**Key Developments:**

In February 2026, Buhler India reported double-digit order growth of 12.7% within its Value Nutrition segment, triggering a targeted investment to expand localized manufacturing footprint. This strategic move involves deploying advanced optical sorting, drying, and milling machinery directly into the regional market, allowing domestic Indian processors to process microalgae biomass and locally sourced grains with enhanced water and energy efficiency.

In December 2025, the Buhler Group entered into a strategic joint technology partnership with continuous fermentation innovator Pow.Bio to accelerate next-generation bioprocessing. This collaborative initiative connects Pow.Bio's intelligent automated fermentation software with Buhler's advanced industrial scale-up machinery, allowing commercial microalgae and alternative protein producers to run uninterrupted, high-yield production cycles that drastically lower capital costs.

**Technology Types Covered:****Cleaning & Grading Technologies**

Sorting Technologies

Drying Technologies

Packaging Technologies

Storage Technologies

Other Technology Types

#### Components Covered:

Hardware

Software

Services

Monitoring Devices

Other Components

#### Crop Types Covered:

Fruits & Vegetables

Cereals & Grains

Oilseeds & Pulses

Commercial Crops

Other Crop Types

#### Applications Covered:

Crop Storage

Food Preservation

Quality Monitoring

Supply Chain Management

Other Applications

#### End Users Covered:

Farmers

Food Processing Companies

Warehousing Companies

Agricultural Cooperatives

Other End Users

#### Regions Covered:

North America

United States

Canada

Mexico

Europe

United Kingdom

Germany

France

Italy

Spain

Netherlands

Belgium

Sweden

Switzerland

Poland

Rest of Europe

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Thailand

Malaysia

Singapore

Vietnam

Rest of Asia Pacific

South America

Brazil

Argentina

Colombia

Chile

Peru

Rest of South America

Rest of the World (RoW)

Middle East

Saudi Arabia

United Arab Emirates

Qatar

Israel

Rest of Middle East

Africa

South Africa

Egypt

Morocco

## Rest of 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 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034
- 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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