

Post-Harvest Management Market Forecasts to 2032 - Global Analysis By Component (Solutions and Services), Crop Type, Technology, Distribution Channel, End User and By Geography

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Abstracts

According to Statistics MRC, the Global Post-Harvest Management Market is accounted for \$12.86 billion in 2025 and is expected to reach \$20.92 billion by 2032 growing at a CAGR of 7.2% during the forecast period. Post-harvest management encompasses the strategies and practices used after harvesting crops to maintain their quality, prolong freshness, and minimize losses. This includes careful handling, appropriate storage, efficient transportation, suitable packaging, and timely processing to avoid spoilage, contamination, or degradation due to various factors. Proper post-harvest management safeguards food safety, boosts economic returns for farmers, and preserves the nutritional and market value of agricultural products, thereby reducing wastage and ensuring produce reaches consumers in optimal condition.

Market Dynamics:

Driver:

Digitalization & AI integration

AI-enabled sorting, grading, and quality inspection systems are improving accuracy while reducing manual intervention and post-harvest losses. Digital monitoring tools using IoT sensors help track temperature, humidity, and storage conditions in real time, ensuring better crop preservation. Automation in warehouses and cold storage facilities is enhancing operational efficiency and throughput. Advanced analytics support predictive maintenance and demand forecasting across the post-harvest value chain.

Governments and agribusinesses are increasingly investing in smart agriculture ecosystems to strengthen food security. These technological advancements are accelerating modernization across both developed and emerging agricultural markets.

Restraint:

Inadequate rural infrastructure

Poor access to electricity, roads, and cold storage facilities leads to high levels of spoilage and quality degradation. Many smallholder farmers lack connectivity to digital platforms required for smart storage and logistics management. The absence of reliable transportation networks delays market access and increases post-harvest handling costs. Financial constraints further limit investments in advanced preservation technologies. Fragmented supply chains in rural areas reduce the scalability of integrated post-harvest systems. These infrastructural gaps slow market penetration despite rising awareness of post-harvest loss reduction.

Opportunity:

Hermetic & solar-powered solutions

Hermetic solutions prevent pest infestation and moisture ingress without the use of chemical fumigants. Solar-powered cold storage and drying units offer sustainable alternatives in regions with limited grid access. These innovations support environmentally friendly preservation while reducing operational costs for farmers. Development agencies and governments are promoting renewable energy-based post-harvest infrastructure in emerging economies. Adoption of such solutions is particularly high in tropical and semi-arid regions prone to post-harvest losses. This trend is creating new avenues for technology providers and agri-solution manufacturers.

Threat:

Evolution of treatment-resistant pests

Overuse of chemical protectants has reduced the effectiveness of traditional pest control methods. Resistant insect populations are causing higher storage losses and quality deterioration in grains and horticultural produce. This trend increases dependence on advanced monitoring and non-chemical preservation techniques. Manufacturers face rising R&D costs to develop next-generation pest management

solutions. Regulatory restrictions on chemical residues further complicate pest control strategies. Without effective alternatives, pest resistance threatens long-term storage stability and food safety.

Covid-19 Impact:

The COVID-19 pandemic disrupted post-harvest management operations through labor shortages and logistical constraints. Lockdowns affected harvesting schedules, storage availability, and transportation of agricultural produce. Supply chain interruptions increased post-harvest losses, particularly for perishable commodities. However, the crisis accelerated interest in automation and remote monitoring technologies. Digital platforms gained importance for inventory management and traceability during movement restrictions. Governments prioritized investments in food storage and cold chain resilience to ensure supply continuity. Post-pandemic strategies now emphasize decentralized storage and technology-driven efficiency.

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

The solutions segment is expected to account for the largest market share during the forecast period, as it includes storage systems, cold chain solutions, drying technologies, and pest control mechanisms. Integrated solutions address multiple post-harvest challenges such as spoilage, infestation, and quality degradation. Rising demand for end-to-end post-harvest infrastructure is driving large-scale adoption. Governments and agribusiness firms are investing heavily in turnkey solutions to reduce food losses. Technological advancements are improving the efficiency and affordability of these offerings.

The exporters & importers segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the exporters & importers segment is predicted to witness the highest growth rate. International trade of agricultural commodities requires strict quality preservation and compliance standards. Advanced post-harvest management systems help maintain freshness during long-distance transportation. Export-oriented players increasingly adopt cold storage, controlled atmosphere packaging, and traceability solutions. Growing global demand for high-quality produce is strengthening investment in post-harvest logistics. Regulatory requirements related to food safety are further driving technology adoption among exporters.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share, due to the region experiences high post-harvest losses due to climatic conditions and fragmented supply chains. Countries such as China, India, and Southeast Asian nations are investing in modern storage and cold chain infrastructure. Government initiatives aimed at improving food security and farmer incomes are supporting market growth. Rapid agricultural production growth increases the need for efficient post-harvest handling systems. Private sector participation is expanding through agri-logistics and warehousing investments.

Region with highest CAGR:

Over the forecast period, the Middle East & Africa region is anticipated to exhibit the highest CAGR. Harsh climatic conditions increase the urgency for efficient post-harvest preservation solutions. Governments are investing in cold storage and food security infrastructure to reduce import dependence. Solar-powered and water-efficient technologies are particularly well-suited to the region's environment. Rising horticultural exports are driving demand for advanced storage and handling systems. International development programs are supporting post-harvest capacity building across Africa.

Key players in the market

Some of the key players in Post-Harvest Management Market include Böhler Gro, Ag Growth, John Deer, Marel hf., AGCO Cor, Key Techn, Syngenta A, TOMRA Sy, Bayer AG, Citrosol S., BASF SE, Xeda Inte, John Beam, Pace Inter, and Nufarm Li.

Key Developments:

In December 2025, Pow.Bio, and Böhler Group, the global solution provider for food, feed, and advanced materials, are teaming up to bring an integrated continuous precision fermentation platform to market. The collaboration advances industrial biomanufacturing by accelerating process development, reducing unit production costs thanks to a continuous process, and improving operation performance. Böhler and Pow.Bio are now ready to begin onboarding customers.

In December 2025, Deere & Company entered into an agreement to acquire Tenna, a construction technology company, and a holding of The Conti Group that offers mixed-fleet equipment operations and asset tracking solutions. Tenna offers an integrated

construction technology platform ("Tenna") designed to automate and optimize construction operation workflows. The platform gives contractors a near real-time, full-picture view of their equipment operations and a greater understanding of equipment trends and maintenance needs, while also improving visibility, planning, and jobsite coordination to increase productivity and reduce costs.

Components Covered:

Solutions

Services

Crop Types Covered:

Cereals & Grains

Fruits & Vegetables

Oilseeds & Pulses

Coffee & Tea

Spices & Herbs

Flowers & Ornamentals

Technologies Covered:

Cold Chain Technology

Controlled Atmosphere Storage

Modified Atmosphere Packaging

Vacuum Cooling

Optical Sorting & Imaging

RFID & IoT Solutions

Big Data & Predictive Analytics

Robotics & Automation

Distribution Channels Covered:

Direct Sales

Distributors / Dealers

Online Sales / E-commerce Platforms

After-market Services

End Users Covered:

Farmers / Growers

Food Processing Companies

Cold Storage Operators

Logistics & Supply Chain Companies

Retailers & Wholesalers

Exporters & Importers

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

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