

Composting Equipment Market Forecasts to 2032 – Global Analysis By Product (Compost Turners, Compost Bins, In-Vessel Composting Systems and Other Products), Material, Composting Scale, Technology, End User and By Geography

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Abstracts

According to Statistics MRC, the Global Composting Equipment Market is accounted for \$1,535.7 million in 2025 and is expected to reach \$2,581.2 million by 2032 growing at a CAGR of 7.7% during the forecast period. Composting equipment refers to a range of machinery and tools designed to facilitate the decomposition of organic waste into nutrient-rich compost. These devices help manage, process, and accelerate the natural breakdown of materials such as food scraps, yard trimmings, and agricultural residues. Used in both residential and commercial settings, composting equipment enhances efficiency, reduces labor, controls odors, and maintains optimal conditions like temperature and aeration. By streamlining the composting process, this equipment supports sustainable waste management, promotes soil health, and contributes to environmental conservation and circular economy practices.

According to the USDA, states with comprehensive composting programs have seen a reduction of up to 30% in waste sent to landfills.

Market Dynamics:

Driver:

Growing awareness about environmental sustainability

Growing awareness about environmental sustainability is acting as a strong catalyst for

the composting equipment market. As individuals, communities, and industries increasingly prioritize eco-friendly practices, the demand for effective waste management solutions like composting equipment is surging. Governments and environmental organizations are also promoting composting as a viable alternative to landfilling and incineration. This shift in mindset is encouraging the adoption of composting technologies across residential and agricultural sectors, thereby driving consistent growth in the composting equipment market.

Restraint:

High initial investment cost

High initial investment costs negatively impact the composting equipment market by deterring small- and medium-scale enterprises from adopting advanced solutions. Despite the long-term environmental and economic benefits, the hefty upfront capital required for purchasing and installing composting systems becomes a barrier. This challenge slows market penetration, especially in developing regions, where budget constraints and limited financing options hinder the growth and adoption of modern composting technologies, restraining market expansion.

Opportunity:

Technological advancements in composting machinery

Technological advancements in composting machinery are positively transforming the Composting Equipment Market by enhancing efficiency, automation, and user-friendliness. Innovations such as real-time monitoring, smart sensors, and energy-efficient systems are reducing processing time and operational costs while improving output quality. These improvements are attracting municipalities, industries, and agricultural sectors to adopt modern composting solutions. As demand for sustainable waste management grows, such advancements are fueling market expansion.

Threat:

Operational and maintenance complexities

Operational and maintenance complexities negatively impact the Composting Equipment Market by driving up costs and reducing system efficiency. Frequent breakdowns, labor-intensive upkeep, and the need for skilled technicians deter small-

scale users and new adopters. These challenges hinder seamless integration, especially in rural or under-resourced areas, slowing market penetration. While they spotlight the need for innovation, they simultaneously strain user confidence and long-term investment in composting technologies.

Covid-19 Impact

The Covid-19 pandemic initially disrupted the Composting Equipment Market due to supply chain delays and reduced workforce availability. However, the crisis spurred increased awareness of sustainable waste management, especially at the household and municipal levels. This shift encouraged the adoption of composting solutions to manage organic waste efficiently. As lockdowns normalized home gardening and eco-conscious living, the demand for composting equipment witnessed a steady post-pandemic rebound and growth.

The organic waste segment is expected to be the largest during the forecast period

The organic waste segment is expected to account for the largest market share during the forecast period as environmental consciousness grows, governments and institutions are enforcing stricter regulations on organic waste disposal, encouraging composting as a sustainable alternative. This shift fosters increased adoption of composting equipment to process biodegradable waste efficiently. Moreover, the demand for nutrient-rich compost in farming and landscaping is surging, further boosting the need for advanced composting solutions tailored to organic waste treatment.

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

Over the forecast period, the compost bins segment is predicted to witness the highest growth rate as it offers a user-friendly, cost-effective, and space-efficient solution for managing organic waste at both residential and commercial levels. As environmental consciousness rises and waste reduction becomes a priority, the demand for compact, odor-controlled, and easy-to-maintain compost bins is growing. Their adaptability across urban and rural settings enhances market penetration. This surge in adoption contributes to increased sales of composting equipment, fostering overall market growth and innovation in product design.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share due to rising environmental consciousness, rapid urbanization, and increasing government support for sustainable waste management. Countries like China, India, and Japan are investing heavily in organic waste recycling to combat land pollution and greenhouse gas emissions. The growing adoption of composting solutions in agriculture and municipalities is fueling demand. This regional momentum reflects a broader shift towards greener practices and circular economy goals across Asia Pacific.

Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR, owing to increasing government support for sustainable waste management, rising awareness about environmental protection, and the growing adoption of organic farming. Urban households, commercial establishments, and municipalities are embracing composting solutions to reduce landfill dependence. Technological advancements and incentives for zero-waste practices are accelerating demand. This forward-thinking shift is fostering a circular economy and positioning North America as a leader in sustainable waste solutions.

Key players in the market

Some of the key players profiled in the Composting Equipment Market include Vermeer Corporation, Scarab International, Ecoverse Industries, HotRot Organic Solutions, Midwest Bio-Systems, Green Mountain Technologies, Seko Industries, Eggersmann Group, FEECO International Inc., Harp Renewables, Waste to Fertilizer (WTL), Komptech GmbH, Buhler Holding AG, BioCoTech AS, Doublet-Record, Atlas Industries, FORDAQ Group, Waste Systems Limited, ORTNER GmbH and Sustainable Generation.

Key Developments:

In April 2025, Atlas Renewable Energy has expanded its partnership with Dow through a new power purchase agreement (PPA) to supply solar energy from its 358 MW Casablanca Solar Energy Complex in Bahia, Brazil. This deal helps Dow operate its Brazilian facilities on 100% renewable energy and avoids approximately 37,000 tons of CO₂ emissions annually.

In December 2023, Green Mountain signed a strategic partnership with Coromatic to design and build sustainable data centers across the Nordics. The agreement focuses

on energy-efficient infrastructure and long-term collaboration.

Products Covered:

Compost Turners

Compost Bins

In-Vessel Composting Systems

Anaerobic Digesters

Shredders and Grinders

Other Products

Materials Covered:

Organic Waste

Paper and Cardboard

Agricultural Residues

Wood Chips and Sawdust

Other Biodegradable Materials

Composting Scales Covered:

Small Scale Composting

Medium Scale Composting

Large Scale Composting

Centralized Composting Plants

Decentralized Composting Solutions

Technologies Covered:

Aerobic Composting Technology

Anaerobic Composting Technology

In-Vessel Composting Systems

Static Pile Composting

Windrow Composting Techniques

End Users Covered:

Residential Users

Commercial Entities

Agricultural Sector

Municipalities and Local Governments

Research Institutions

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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