

Waste Management Equipment Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Equipment Type (Waste Collection Equipment, Waste Recycling and Sorting Equipment, Waste Disposal Equipment, Waste Transportation Equipment, Waste Processing Equipment), By Waste Type (Municipal Waste, Industrial Waste, Hazardous Waste, E-waste, Bio-medical Waste), By Application (Residential, Commercial, Industrial), By Region & Competition, 2021-2031F

<https://marketpublishers.com/r/W15AEC13268CEN.html>

Date: May 2026

Pages: 180

Price: US\$ 4,500.00 (Single User License)

ID: W15AEC13268CEN

Abstracts

The Global Waste Management Equipment Market is projected to expand significantly, from USD 14.76 Billion in 2025 to USD 23.32 Billion by 2031, achieving a Compound Annual Growth Rate (CAGR) of 7.92%. This market covers a wide array of machinery and technologies essential for collecting, transporting, segregating, and processing municipal, industrial, and hazardous waste. Key factors driving this growth include accelerating global urbanization, increased industrial output, and stringent environmental regulations demanding effective recycling and resource recovery. In 2025, VDMA reported that about 71% of worldwide plastic waste was managed using environmentally sound practices, indicating a steady rise in the adoption of advanced processing technologies. This positive trend underscores the vital role of specialized equipment in reducing landfill reliance and fostering circular economy principles. Despite robust demand for waste handling solutions, the market faces a considerable hurdle due to the substantial capital expenditure necessary for acquiring and sustaining heavy

machinery. The significant costs linked to purchasing automated sorting systems, compactors, and specialized collection vehicles pose financial obstacles for smaller municipalities and private entities, especially in developing regions. As a result, limitations in funding can hinder infrastructure modernization and slow the broad deployment of critical waste management technologies.

Market Driver

The Global Waste Management Equipment Market is primarily driven by swift urbanization and a rising generation of municipal solid waste. The increasing density of urban populations and expanding industrial activities lead to a massive volume of refuse, demanding sturdy fleets of collection vehicles and high-capacity disposal machinery. Consequently, municipalities are pressured to enhance their operational capacities to manage this growing influx, ensuring both sanitation and efficient logistics. This sustained increase in waste volumes directly correlates with a greater need for and utilization of collection and disposal assets. For example, Waste Management, Inc.'s 'Second Quarter 2025 Earnings' report in July 2025 indicated a 1.6% year-over-year growth in volumes for its Collection and Disposal business, illustrating the continuous demand for waste handling infrastructure and subsequent procurement of heavy equipment. Concurrently, a global movement towards circular economy models and zero-waste objectives is fundamentally altering the requirements for waste management equipment. Market participants are increasingly moving away from conventional landfilling in favor of sophisticated resource recovery methods, which boosts the demand for automated sorting lines, recycling plants, and waste-to-energy technologies. This transformation necessitates considerable capital investment in specialized infrastructure designed to extract value from waste streams and minimize carbon footprints. Republic Services, Inc.'s '2024 Sustainability Report' in July 2025 highlighted this trend by announcing the launch of six new renewable natural gas (RNG) projects, showcasing a tangible pivot to sustainable processing assets. Major industry players are committing substantial funds to support these modernization efforts; for instance, Veolia invested €2.2 billion in net financial investments in 2025, underscoring the extensive capital commitment propelling the sector's technological advancement.

Market Challenge

The Global Waste Management Equipment Market's expansion is significantly hindered by the substantial capital investment needed to acquire and maintain heavy machinery. The high cost of advanced waste management technologies presents a major barrier to market growth, especially for smaller municipalities and private operators with limited

financial means. Modern solutions, such as automated optical sorting systems and specialized electric collection vehicles, necessitate a considerable upfront capital outlay, often much higher than less efficient, traditional equipment. This cost difference impedes modernization and market entry, often compelling operators to prolong the use of outdated infrastructure instead of investing in more effective, contemporary solutions. The financial strain is further intensified by continuous maintenance expenses and the specialized training required for intricate automated systems, which can severely burden the operational budgets of waste management organizations. This financial burden is exacerbated by increasing operational costs across the industry, which diminishes the capital available for new projects. For instance, the Environmental Research & Education Foundation (EREF) reported that in 2024, the national average tip fee at U.S. municipal solid waste landfills climbed by 10% year-over-year, reaching \$62.28 per ton. Such sharp increases in disposal and operational expenses significantly reduce the discretionary funds that municipalities and private companies can allocate towards purchasing new equipment. Ultimately, these budgetary restrictions directly slow the market's growth by delaying the implementation of crucial technologies necessary to meet increasingly strict recycling regulations and circular economy objectives.

Market Trends

The integration of Artificial Intelligence and robotics within Material Recovery Facilities is significantly improving processing capabilities by automating the identification of complex waste streams. These advanced robotic systems leverage computer vision and machine learning to sort high-value recyclables with unparalleled speed and purity, a feat unachievable through manual sorting, thereby directly alleviating the industry's persistent labor shortages. This technology allows facilities to flexibly adapt to changes in packaging materials and contamination standards without necessitating major infrastructure upgrades. An example of this trend is the Southeastern Public Service Authority of Virginia, which, according to AMP's 'AI Takes Out the Trash' press release in November 2025, contracted for AI-driven sortation lines capable of processing 540,000 tons of municipal solid waste yearly, underscoring the increasing reliance on automated intelligence to divert waste from landfills. Another prominent trend is the transition towards electric and hybrid waste collection fleets, which is transforming logistics as operators strive for decarbonization and adherence to stringent urban low-emission zone regulations. In contrast to conventional diesel units, battery-electric powertrains produce zero tailpipe emissions and substantially lower noise levels, making them particularly suitable for residential areas and night-time operations. This shift is further bolstered by the long-term savings in fuel and maintenance costs offered

by electric drivetrains, providing a strategic operational benefit even amid fluctuating fuel prices. Volvo Trucks reported in April 2025, via its 'Volvo reaches milestone with 5,000 electric trucks sold worldwide' report, that it had delivered over 5,000 battery-electric trucks globally, reflecting the strong industry momentum toward sustainable mobility solutions.

Key Market Players

Veolia Environment S.A

SUEZ Recycling & Recovery

Waste Management, Inc

Stericycle, Inc

Republic Services, Inc

Terex Corporation.

Hitachi Construction Machinery Co., Ltd.

Caterpillar Inc

Komatsu Ltd

Kobelco Construction Machinery Co., Ltd

Report Scope

In this report, the Global Waste Management Equipment Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Waste Management Equipment Market, By Equipment Type

Waste Collection Equipment

Waste Recycling and Sorting Equipment

Waste Disposal Equipment

Waste Transportation Equipment

Waste Processing Equipment

Waste Management Equipment Market, By Waste Type

Municipal Waste

Industrial Waste

Hazardous Waste

E-waste

Bio-medical Waste

Waste Management Equipment Market, By Application

Residential

Commercial

Industrial

Waste Management Equipment Market, By Region

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Waste Management Equipment Market.

Available Customizations:

Global Waste Management Equipment Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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