

## **Asia-Pacific Hazardous Waste Handling Automation - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)**

Market Report | 2025-04-28 | 120 pages | Mordor Intelligence

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### **Report description:**

The Asia-Pacific Hazardous Waste Handling Automation Market is expected to register a CAGR of 8.2% during the forecast period.

#### Key Highlights

- The hazardous waste handling automation market is expected to grow significantly over the forecast period due to stringent governmental and industrial regulations to maintain people's safety from hazardous waste and the harm caused to the people and the environment.
- Furthermore, several non-government organizations (NGOs) and community-based organizations (CBOs) are stepping in to help hospitals and other healthcare facilities collect, recycle, and dispose of medical waste. Such initiatives are expected to boost the adoption of automation solutions for waste management.
- Hazardous waste consists of the materials generated daily by people, power plants, and manufacturing companies. Using such automation solutions for handling waste improves the process efficiency and reduces manual intervention reliability, as it can be dangerous to the human body. Hence, the concerns about properly handling these harmful substances can be eliminated. Such increasing safety concerns are expected to boost the demand for automation solutions in waste management in the region.
- Also, hazardous waste poses an enormous threat to public health. It must be treated, recycled, and disposed of effectively to prevent environmental pollution. The growing awareness has brought the government's attention toward setting up rules that can help effectively tackle these wastes.

#### APAC Hazardous Waste Handling Automation Market Trends

Growing Concerns About Waste Management are Expected to Drive the Demand

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- The automation solutions also help control the expenditure toward healthcare treatment caused by the after-effects of these hazardous wastes on the population. Growing awareness and the changing environmental conditions are expected to drive the hazardous waste handling automation market.
- The manufacturing industry is one of the significant segments that produce waste globally. A large portion of this waste is hazardous due to the presence of chemical substances. Furthermore, waste products from the manufacturing industries, such as paints, oils, batteries, strong acids and bases, reactive substances, and other ignitable wastes, should be disposed of with special care. The improper disposal of these wastes impacts the environment greatly and, ultimately, human beings. Therefore, the increasing amount of waste from the production and manufacturing sector is driving the market's growth.
- To avoid the direct contact of humans with hazardous waste, the need for automation increased drastically. By deploying various automation solutions, the concerns of proper handling can be reduced, and process efficacy can be improved.
- Furthermore, the International Environmental Technology Center (IETC) of the United Nations Environment Programme (UNEP) in Japan encourages the deployment of integrated solid waste management systems. Its work also focuses on properly handling specific wastes in developing countries (electronics, agricultural biomass, and plastics). The IETC strives to improve solid waste management by incorporating all stakeholders through local pilot projects.

#### Japan to Hold a Significant Share in the Market

- The public sanitation zone expands as metropolitan areas grow. Setting up trash transfer stations from small- or medium-sized garbage trucks to larger trucks helps improve the efficiency of collection and transport operations in cities with expanding collection zones.
- Furthermore, the expense of garbage collection and transportation accounts for a large portion of waste disposal operations in the city, and improving collection and transportation efficiency reduces costs while maintaining or improving quality.
- The country is witnessing a series of new product launches and mergers and acquisitions in the market, as every vendor wants to utilize the opportunity. The major drivers behind the investments in the market are the continuous evolution and application of new technologies to unlock enormous volumes that were previously considered non-commercial.
- Some Japanese companies have set up joint ventures in China that had significant success in producing and marketing transfer stations. Some of them are also sold to other Asian countries. Transferring to larger trucks at the transfer station enhances transportation efficiency and minimizes fuel consumption per garbage volume by transport vehicles. This factor lowers costs and CO2 emissions, assisting in the fight against global warming and creating demand for waste handling automation in the country.

#### APAC Hazardous Waste Handling Automation Industry Overview

The Asia-Pacific hazardous waste handling automation market is moderately competitive. Product launches, high expense on R&D, partnerships, and acquisitions are the prime growth strategies adopted by the companies in the region to sustain the intense competition.

- August 2021 - Merino Industry Ltd, a laminate producer in India, ordered several machines from Pallmann's portfolio. The order volume consists of three knife ring flakers, two double stream mills, and a re-chipper. The machines are part of a new particleboard plant at Halol in Gujarat. The delivery of the Pallmann machines is scheduled for March 2022.

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Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

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