

North America Hazardous Waste Handling Automation Market - Growth, Trends, Covid-19 Impact, and Forecasts (2023 - 2028)

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Report description:

The North American hazardous waste handling automation market is expected to register a CAGR of 7.2% during the forecast period. With the outbreak of COVID-19, companies have been offering innovative solutions to foster automation solutions in the waste management sector. For instance, Synertech offers Automated Identification and Data Capture (AIDC) tracking and tracing technology that augments sound engineering controls. The solution interfaces with an organization's waste collection scheduling and invoicing systems to provide a comprehensive track and trace, enabling the organization's legal obligations to demonstrate automated records for the collection, weighing, transport, storage, and disposal of waste.

□ 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 in light of 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 further the adoption of automation solutions for waste management.

□ An exclusive partnership was formed between environmental solutions provider US Ecology and machine learning technology company Smarter Sorting to provide retailers with an automated solution to more safely and compliantly classify and segregate RCRA, hazardous and non-hazardous waste. The exclusive partnership between US Ecology and Smarter Sorting was the first collaboration to incorporate artificial intelligence into the supply chain of retail products classified as waste.

□ Several government organizations such as the Food and Drug Administration (FDA), Environment Protection Agency (EPA), and

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Drug Enforcement Administration (DEA) are also consistently working toward the proper management of waste to ensure safety from hazardous medical, chemical, and radioactive wastes.

North America Hazardous Waste Handling Automation Market Trends

Growing Concerns over Waste Management Expected to Drive Market Demand

□ The automation solutions also help control the expenditure on healthcare treatment caused by the after-effects of these hazardous wastes coming in contact with the population. The growth in awareness and the changing environmental conditions are expected to drive the global hazardous waste handling automation market.

□ PegEx Inc., a software developer for the hazardous waste industry, recently supplied its cloud-based PegEx platform to three major new customers, Red Technologies, EnviroSmart, and EnviroCare, to improve productivity, help eliminate risks, and increase revenues of their waste management businesses.

□ The manufacturing sector is one of the most significant sectors for waste production globally. A large portion of these wastes is hazardous due to the presence of chemical substances. Waste products from the manufacturing sectors, 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, which is a significant factor driving the market. 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.

The US Expected to Witness Significant Growth

□ The US is expected to dominate the global hazardous waste handling automation market during the forecast period due to its increasing adoption of automation in the waste management process. The US is expected to remain at the forefront of the regional market as the latest technological breakthroughs and adoptions in the region have assisted the advancement of new hazardous waste handling automation products that can make overall processes more efficient and significantly improve accuracy in various applications.

□ 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.

□ Recently, Veolia, through its subsidiary Veolia North America, signed an agreement to take over Alcoa USA Corp.'s Hazardous Waste Treatment Site located in Gum Springs, Arkansas (the US). With this agreement, Veolia plans the global expansion of its hazardous waste treatment and recycling activity, starting from North America, by adding a flagship site to its existing portfolio.

□ Also, the Michigan Department of Environment, Great Lakes and Energy (EGLE) reissued a license renewal and expansion to Boise, Idaho-based US Ecology's Detroit North hazardous waste management facility. The license is expected to allow US Ecology to continue existing operations, construct and operate two new buildings for storage and treatment, and repurpose an existing building at its Detroit facility. The renewal plans will further strengthen the country's waste management systems.

North America Hazardous Waste Handling Automation Market Competitor Analysis

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

□ In August 2021, Merino Industry Ltd, a laminate producer, placed an order for several machines from Pallmann's portfolio, with the order volume consisting of three knife ring flakers, two double stream mills, and a re-chipper, and the supervision of commissioning. The delivery of the Pallmann machines for the company is scheduled for March 2022.

□ In July 2021, DX Engineering announced that it had acquired Top Ten Devices Inc. and would manufacture and distribute three of its signature devices under the Top Ten Devices brand-the A/B Station Selector, the Op Swapper, and the Band Aide Band Decoder.

Additional Benefits:

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

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