

Recycling Inspection Market by Material Recycled (Waste Plastic, Paper, Metals, Glass), Technology (X-ray Inspection System, Near-Infrared Sorting), End-use Facility (Plastic Recycling Plants, Paper Recycling Plants), and Region - Global Forecast to 2031

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Abstracts

The recycling inspection market size was valued at USD 1.38 billion in 2026 and is projected to reach USD 1.95 billion by 2031, at a CAGR of 7.23% between 2026 and 2031.

“Rising demand for high-quality recyclates to drive adoption of advanced inspection systems.”

The growing demand for high-quality recycled materials is emerging as a key driver for the recycling inspection market, as industries increasingly prioritize performance, consistency, and sustainability in their material sourcing. Sectors such as packaging, automotive, electronics, and consumer goods are now seeking recyclates that closely match the properties of virgin materials, especially for high-value and sensitive applications like food-grade packaging. This shift is driven not only by regulatory requirements but also by brand commitments to sustainability and circular economy goals. As a result, even minor contamination or misclassification in recycled materials can significantly impact their usability and market value.

To meet these rising expectations, recycling facilities are under pressure to improve the precision and efficiency of their sorting processes. This is where advanced inspection technologies such as AI-enabled systems, near-infrared sensors, and optical sorting solutions play a critical role. These technologies help accurately identify different material types, remove impurities, and ensure consistent output quality at high

processing speeds. In a market where quality directly influences pricing, customer trust, and long-term contracts, operators are increasingly investing in robust inspection systems. This growing emphasis on producing high-purity recyclates is therefore significantly driving the adoption of advanced recycling inspection solutions across the value chain.

“Vision inspection systems to account for the third-largest share of the recycling inspection market, in terms of value, during the forecast period.”

Vision inspection systems account for the third-largest share of the recycling inspection market, driven by their growing role in enhancing sorting accuracy and enabling real-time material identification. These systems use high-resolution cameras, advanced image processing, and AI algorithms to detect variations in shape, size, color, and surface defects across waste streams. They are particularly effective in applications where visual differentiation is critical, such as sorting colored plastics, identifying contaminants in paper streams, and improving quality control in packaging waste. Compared to other technologies, vision systems offer flexibility and adaptability, allowing operators to upgrade software and algorithms without significant hardware changes. As recycling facilities increasingly move toward automation and data-driven operations, the integration of vision inspection systems is expanding, supporting improved operational efficiency and consistent output quality, thereby securing their position as a key technology segment in the market.

“Paper recycling plant segment to account for the third-largest share of the recycling inspection market in terms of value.”

Paper recycling plants account for the third-largest share of the recycling inspection market, driven by the need to maintain consistent fiber quality and minimize contamination in recycled paper products. These facilities process diverse waste streams, such as corrugated boxes, office paper, and mixed paper, in which contaminants like plastics, inks, adhesives, and food residues can affect processing efficiency and final product quality. As demand for recycled paper increases, particularly in packaging applications, operators are adopting inspection systems to improve sorting accuracy and ensure uniform output. While inspection intensity is lower than for plastics, the scale of operations and quality requirements continue to support steady adoption, securing their position as the third-largest segment in the market.

“Europe is the third-largest region of the global recycling inspection market.”

Europe holds the third-largest share in the recycling inspection market, supported by its strong regulatory framework and long-standing commitment to sustainable waste management practices. The region has implemented stringent recycling targets and circular economy policies, encouraging the adoption of advanced inspection and sorting technologies across material recovery facilities. Additionally, the presence of a well-developed recycling infrastructure and high awareness regarding environmental sustainability among industries and consumers is driving demand for efficient inspection solutions. The increasing focus on improving material quality and reducing contamination, particularly in plastics and packaging waste, is further accelerating the deployment of advanced inspection systems, reinforcing Europe's position as a key market in the global recycling inspection landscape.

By Company Type: Tier 1 - 55%, Tier 2 - 25%, and Tier 3 - 20%

By Designation: Directors - 50%, Managers - 30%, and Others - 20%

By Region: North America - 40%, Europe - 35%, Asia Pacific - 18%, and Rest of the World – 7%

The key players profiled in the report include TOMRA Systems ASA (Norway), STEINERT GmbH (Germany), Pellenc ST (France), Böhler Group (Switzerland), Hefei Meyer Optoelectronic Technology Inc. (China), MSS, LLC (US), Bunting (US), CASSEL Messtechnik GmbH (Germany), Terex Corporation (US), and Sesotec Group (Germany), among others.

Study Coverage

This report segments the market for recycling inspection based on inspection technology, material recycled, end-use facility, and region, and provides estimations of value (in terms of USD million) for the overall market size across various regions. A detailed analysis of key industry players has been conducted to provide insights into their business overviews, services, and key strategies in the recycling inspection market.

Reasons to Buy this Report

This research report is focused on various levels of analysis — industry analysis (industry trends), market share analysis of top players, and company profiles, which

together provide an overall view of the competitive landscape, emerging and high-growth segments of the recycling inspection market; high-growth regions; and market drivers, restraints, and opportunities.

The report provides insights into the following points:

Market Penetration: Comprehensive information on recycling inspection offered by top players in the global market

Analysis of key drivers (rising global waste generation and increasing complexity of waste streams, stringent environmental regulations and recycling targets across regions, growing adoption of automation and AI-based sorting technologies in material recovery facilities, increasing focus on circular economy and demand for high-quality recycled materials), restraints (high initial investment and integration costs of advanced inspection systems, limited adoption in developing regions due to cost sensitivity and infrastructure gaps), opportunities (integration of artificial intelligence and machine learning for improved sorting accuracy, expansion of recycling infrastructure in emerging economies, growing demand for high purity recycled materials in manufacturing industries), and challenges (variability in waste composition affecting inspection efficiency and consistency, balancing cost efficiency with high performance and accuracy requirements)

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the recycling inspection market

Market Development: Comprehensive information about lucrative emerging markets. The report analyzes the markets for recycling inspection across regions

Market Diversification: Exhaustive information about new products, untapped regions, and recent developments in the global recycling inspection market

Competitive Assessment: In-depth assessment of market shares, strategies, products, and manufacturing capabilities of leading players in the recycling inspection market

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