

Global AI Waste Sorting Robot Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global AI Waste Sorting Robot market size was valued at US\$ 926 million in 2025 and is forecast to a readjusted size of US\$ 2633 million by 2032 with a CAGR of 16.1% during review period.

AI Waste Sorting Robot refers to intelligent automation systems that use artificial intelligence, machine vision, and robotic manipulation to identify and separate different types of waste materials such as plastics, metals, paper, glass, and organics. The system integrates cameras, AI recognition algorithms, robotic arms, conveyor systems, and pneumatic or mechanical sorting modules to improve recycling efficiency and accuracy. It is widely used in municipal solid waste treatment plants, recycling facilities, industrial waste processing centers, and smart city waste management infrastructure. Main product types include robotic arm sorting systems, vision-based conveyor sorting robots, pneumatic-assisted AI sorting units, and fully automated recycling sorting lines. This category excludes manual sorting systems, basic mechanical sorting without AI, and non-robotic separation equipment. The industrial chain of AI Waste Sorting Robot includes upstream suppliers of industrial robots, AI chips, machine vision cameras, optical sensors, conveyor systems, pneumatic systems, and control software. Midstream manufacturers integrate AI models, robotic motion control systems, waste recognition algorithms, and automation platforms into complete sorting solutions. Downstream applications include municipal waste treatment plants, recycling companies, industrial waste processors, landfill diversion facilities, and smart city environmental infrastructure. Supporting services include AI model training, system calibration, maintenance services, recycling optimization, and software updates. In 2025, global AI Waste Sorting Robot production reached approximately 2,813 units, with an average global market price of around US\$320,000 per system. The gross profit margin

of major companies in the industry is between 30%-55%. In 2025, the global production capacity of AI waste sorting robots was approximately 4,018 units.

The AI Waste Sorting Robot market is emerging as a key segment within intelligent waste management and circular economy infrastructure. Growth is driven by increasing global pressure to improve recycling efficiency, reduce landfill dependency, and meet stricter environmental regulations, particularly in Europe, China, and North America. These systems combine artificial intelligence, machine vision, and robotics to identify and separate mixed waste streams with higher accuracy and lower labor costs compared with traditional mechanical or manual sorting methods. Adoption is accelerating in municipal solid waste treatment plants, recycling facilities, and industrial waste processing centers. However, the market remains in a transitional phase, where deployment is often project-based and depends on public investment and policy incentives. High initial capital expenditure, system integration complexity, and variability in waste composition remain key challenges. Despite these constraints, continuous improvements in AI recognition accuracy and robotic manipulation efficiency are expected to drive steady adoption. Overall, the market is positioned for strong growth from a relatively early-stage base.

This report is a detailed and comprehensive analysis for global AI Waste Sorting Robot market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global AI Waste Sorting Robot market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global AI Waste Sorting Robot market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global AI Waste Sorting Robot market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global AI Waste Sorting Robot market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for AI Waste Sorting Robot

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global AI Waste Sorting Robot market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include AMP Robotics Corp. (AMP Sortation), Glacier, EverestLabs Inc., Machinex Industries Inc., Waste Robotics Inc., Max-AI (Bulk Handling Systems), ZenRobotics, Recycleye Ltd. (CP Group majority-owned), PICVISA Machine Vision Systems S.L., Bollegraaf Recycling Solutions, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

AI Waste Sorting Robot market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Vision-based AI Waste Sorting Robot

Near-infrared AI Waste Sorting Robot

Hyperspectral AI Waste Sorting Robot

3D Vision AI Waste Sorting Robot

Multi-sensor Fusion AI Waste Sorting Robot

Market segment by Picking Method

Vacuum Suction AI Waste Sorting Robot

Mechanical Gripper AI Waste Sorting Robot

Air Jet Assisted AI Waste Sorting Robot

Hybrid Picking AI Waste Sorting Robot

Market segment by Rated Picking Speed

Below 40 Picks per Minute Rated Picking Speed

40 to 70 Picks per Minute Rated Picking Speed

Above 70 Picks per Minute Rated Picking Speed

Market segment by Application

Municipal Solid Waste Sorting

Mixed Recyclables Sorting in Material Recovery Facilities

Construction and Demolition Waste Sorting

Industrial Solid Waste Sorting

Others

Major players covered

AMP Robotics Corp. (AMP Sortation)

Glacier

EverestLabs Inc.

Machinex Industries Inc.

Waste Robotics Inc.

Max-AI (Bulk Handling Systems)

ZenRobotics

Recycleye Ltd. (CP Group majority-owned)

PICVISA Machine Vision Systems S.L.

Bollegraaf Recycling Solutions

Ryohshin Co., Ltd.

FUJI Corporation

EII, Inc.

Hangzhou DataBeyond Technology Co., Ltd.

Suzhou JONO Environmental Technology Co., Ltd.

Dongguan Qinglv Environmental Technology Co., Ltd.

Shandong Qunfeng Heavy Industry Technology Co., Ltd.

Jiangsu Keson Environment Technology Co., Ltd.

Guangzhou Justra Technology Co., Ltd.

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe AI Waste Sorting Robot product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of AI Waste Sorting Robot, with price, sales quantity, revenue, and global market share of AI Waste Sorting Robot from 2021 to 2026.

Chapter 3, the AI Waste Sorting Robot competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the AI Waste Sorting Robot breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and AI Waste Sorting Robot market forecast, by regions, by Type, and by

Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of AI Waste Sorting Robot.

Chapter 14 and 15, to describe AI Waste Sorting Robot sales channel, distributors, customers, research findings and conclusion.

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