

Global AI Waste Sorting Robot Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global AI Waste Sorting Robot market size is expected to reach \$ 2633 million by 2032, rising at a market growth of 16.1% CAGR during the forecast period (2026-2032).

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 studies the global AI Waste Sorting Robot production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for AI Waste Sorting Robot and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of AI Waste Sorting Robot that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global AI Waste Sorting Robot total production and demand, 2021-2032, (Units)

Global AI Waste Sorting Robot total production value, 2021-2032, (USD Million)

Global AI Waste Sorting Robot production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global AI Waste Sorting Robot consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: AI Waste Sorting Robot domestic production, consumption, key domestic manufacturers and share

Global AI Waste Sorting Robot production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global AI Waste Sorting Robot production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global AI Waste Sorting Robot production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global AI Waste Sorting Robot market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World AI Waste Sorting Robot market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global AI Waste Sorting Robot Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global AI Waste Sorting Robot Market, Segmentation 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

Global AI Waste Sorting Robot Market, Segmentation 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

Global AI Waste Sorting Robot Market, Segmentation 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

Global AI Waste Sorting Robot Market, Segmentation by Application:

Municipal Solid Waste Sorting

Mixed Recyclables Sorting in Material Recovery Facilities

Construction and Demolition Waste Sorting

Industrial Solid Waste Sorting

Others

Companies Profiled:

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.

Key Questions Answered:

1. How big is the global AI Waste Sorting Robot market?
2. What is the demand of the global AI Waste Sorting Robot market?
3. What is the year over year growth of the global AI Waste Sorting Robot market?
4. What is the production and production value of the global AI Waste Sorting Robot market?
5. Who are the key producers in the global AI Waste Sorting Robot market?
6. What are the growth factors driving the market demand?

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