Robot Overview

Company Information

The past two decades has seen ZenRobotics create, define and drive growth in the waste industry. We're proud to be the first company to use Artificial Intelligence (AI) in waste sorting and we're even prouder to have our clients reach many firsts in the world. From launching the world's first ever robotic recycling station to building fully automated next-generation MRFs on an industrial Scale. Now, we lead a new chapter by becoming a Terex Brand.

Get more value out of your waste with ZenRobotics. We have been serving frontrunning recycling companies since 2007, using AI to automate waste sorting and make outdated, inefficient and unsafe manual sorting a thing of the past with our safe sorting robots.
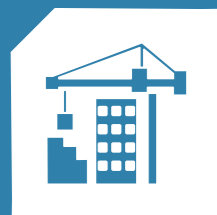
Global waste generation is set to increase by 70% by 2050. Of the 2 billion tons of waste generated annually, only 19% is recovered through recycling or composting.

Unless...we change this outcome.

Waste Types

With automated AI-based sorting, you can get valuable high-quality recyclables, actionable data and circular economy leadership.
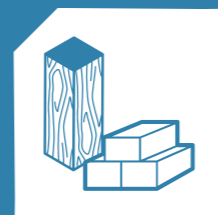
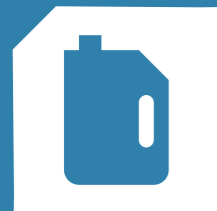**Construction & Demolition**

Commercial & Industrial

Wood Waste

Municipal Solid Waste

Scrap Metal

Rigid Plastics

Inert Waste

Light Packaging

Dry Mixed Recycling

Bag Sorting

Safe Sorting

AI-powered robots replace inefficient, costly and potentially dangerous manual processes. Our Safe Sorting robots make sure valuable recyclables aren't wasted and minimise the risk to your workforce. It will look a little different with each operator, but these are the underlying reasons why more and more operators are automating their waste sorting processes.

Smart waste sorting robots are the most efficient way to pick desired materials out of your waste streams and they require minimal human involvement. Higher automation means lower costs and risks related to using manual sorting, as well as less facility downtime. It is our mission and every operates best interests to make outdated, inefficient and unsafe manual sorting a thing of the past with our safe sorting robots.

Today's best-performing MRFs are data and robotics driven or to say it better, ZenRobotics-driven.

Why Robotize - Automation makes facilities smarter.

Generate Revenue - *Finding and extracting new value out of waste*

AI-based waste sorting robots not only sort but also study your waste up to 24/7, resulting in new know-how and understanding of your waste. On top of recovering more high-value recyclables with increased efficiency, you can discover and add new, even unexpected materials as you free yourself from old ways of working dictated by manual processes. High-quality recyclables have high demand and ZenRobotics helps you grab your share of it.

Cut Costs - *Making your facilities more efficient*

Our safe sorting robots are the most efficient way to pick desired materials out of your waste streams. Powered by AI, they require minimal human involvement. Higher automation means lower costs and risks related to using manual sorting, as well as less facility downtime. It also means higher value work for your employees.

Lead The Way - *Meeting and exceeding recycling targets*

Smart waste sorting robots support forward-looking waste operators in their pioneering work towards the circular economy. Customers, consumers and regulators alike are calling for higher recycling rates and other circular economy goals. Modernising your facility with ZenRobotics with cutting edge technology helps you go beyond these rapidly changing requirements and build a competitive advantage in the evolving waste industry.

Robots

Your operations stand to benefit from AI-based sorting, whatever your starting point.

Whether you want to modernise your existing facility with smart robotics or invest in a new fully automated recycling plant, we have you covered. Here are three options for how you can robotize your waste operations, as demonstrated by several operators around the world.

Heavy Picker: The multipurpose waste sorting robot for bulky material

Heavy Picker is the world's strongest sorting robot that can easily separate multiple waste fractions with the help of various sensors, heavy-duty robot arms and artificial intelligence. It provides a simple, unmanned sorting process and makes waste sorting safer, more accurate and profitable.

Fast Picker: The high-speed robot for maximizing material recovery

Optimal for material recovery facilities (MRFs), this robot replaces manual sorting and increases profits with high output purity. Fast Picker's compact design allows easy integration to existing processes and conveyors.

ZenBrain: The more you sort, the smarter your robots become

ZenRobotics has harnessed AI to increase waste sorting efficiency. Our own software goes under the name ZenBrain, referring to its highly advanced recognition ability and autonomous decision-making.

How to Robotize

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Three types of Solution to choose from below:

Standalone
Order a fully automated and independent waste sorting station.

Retrofitted
Integrate AI-based sorting robots into your existing facility.

Greenfield
Design a new large-scale facility around smart robotics.

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