ZENTOBOTICS ATEREX BRAND



Heavy Picker 4.0

The world's strongest robot in bulky waste sorting, achieving high-purity fractions with unrivaled **precision** and **efficiency**.

Overview

ZenRobotics Heavy Picker is the world's first robotic waste sorting solution designed exclusively for waste sorting.



The Heavy Picker can sort several high-purity fractions, weighing up to 40kg, simultaneously with the help of heavy-duty arms and high IQ artificial intelligence.

The Heavy Picker is a fully autonomous sorting robot that can be retrofitted to an existing capacity or set up as a standalone sorting station that only requires space on site.

Our Heavy Picker provides a simple, unmanned sorting process and

 As many robotic arms as required
 Advanced Al powered recognition system with deep learning algorithm

Trained to recognise the most

and counting!

relevant material categories - 500

Online reporting tool for analysis of

Features

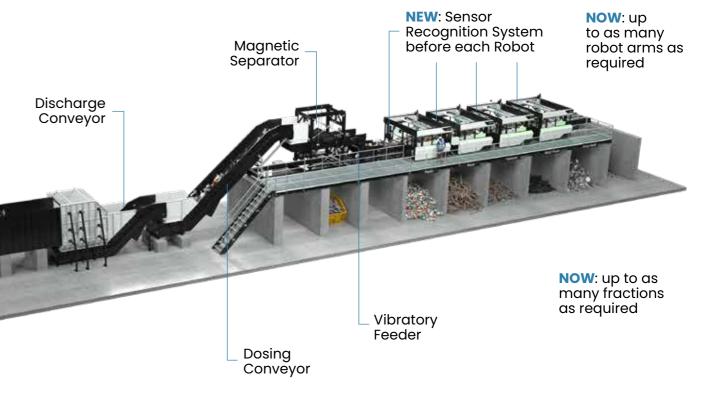
makes waste sorting safer, more accurate and profitable.

ZenRobotics Safe Sorting Robots automate waste sorting and make outdated inefficient and unsafe manual sorting a thing of the past.

ZenRobotics 4.0

Revolutionising Sorting Technology - Efficiency Perfected!

Fully **automated** and **independent** waste sorting station



Waste Types

Heavy Picker easily adapts to a wide range of sorting needs. It can sort multiple fractions, various shapes and different sizes at the same time – and even prioritise the most valuable objects to maximise profits.



Construction & Demolition Waste (C&D)

- Wood by grade (A/B/C/D wood)
- Inert mixed and by type: bricks, concrete, stones etc.
- Rigid plastics mixed or by polymer
- Metals



Commercial and Industrial Waste (C&I)

- Rigid Plastics mixed or by type
- OCC
- Wood mixed or by type
- Metals



Rigid Plastics

- Plastics from mixed waste
- PP, PE, PVC, PET etc.
- Plastics by shape, size and or colour
- Black plastics



Mixed Inert

- Stones
- Bricks
- Asphalt
- GypsumConcrete etc.



Scrap Metals

- Metals by shape, colour, brass, aluminum, zinc, copper, stainless steel etc.
- Metals by type: Iron scrap, copper wires, "meatballs" etc.
- Contaminants



MSW

- Bulky waste
- Bag sorting by colour

material flow and enable 24/7 operations

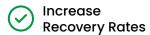
Adjustable material purity for

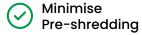
individual fractions

Feed Rate Control to optimise

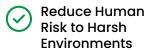
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Benefits

















Installation Options



sorting station requiring no modifications to existing facility infrastructure

existing facility infrastructure

station for a fully robotized greenfield installation.

Technical Specification

Robot Arms	As many as required	Discharge Chutes	Up to 4 per Arm
Sensor Units	1 sensor unit per robotic arm	Max. Object Weight	40 kg (88 lb)
Gripper Type	Mechanical Gripper	Max. Object Size	1500 mm x 500 mm x 400 mm (60' x 20' x 16')
Max. Speed per Arm	2300 Picks per Hour*	No. of Recognised Fractions	Unlimited
Sorting Belt Speed	0.1 - 0.6 m/s (20-118 fpm)		
Unit Length	4161 mm (13′ 8″)	Installed Power (1 robot)	8.3 kW (11.2 HP)
Unit Width	5265 mm (17′ 3″)	Air Consumption	Pressure of air supply: 7 bar (100 psi) 60 I/min (2 CFM)
Unit Height	3800 mm (12′ 6″)		
Unit Weight	3000 kg (6614 lbs)	Noise Level	<85 dB(A)

100% utilisation in ideal conditions. Technical specification subject to change. *Actual picking speed depends on material feed.

ZENFOBOTICS

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