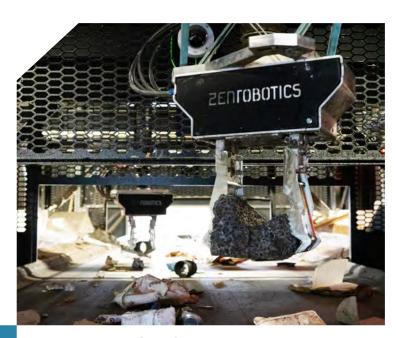
ZENFOBOTICS

HEAVY PICKER

ZenRobotics Heavy Picker is the world's first robotic waste sorting solution designed exclusively for waste sorting. It is a strong multipurpose robot for large and bulky waste that can sort several high-purity fractions simultaneously with the help of heavy-duty arms, various sensors and artificial intelligence. The Heavy Picker is a fully autonomous sorting line that can be retrofitted to existing capacity or set up as a standalone sorting station that only requires space on site.



BENEFITS

Increase Recovery Rates

Improve Sorting Quality

Uninterrupted Sorting

Enable 24 / 7 Operations

Minimize Pre-shredding

Reduce Human Risk

KEY FACTS

1 - 3 robotic arms

Trainable to recognize unlimited fractions

Online reporting tool for analysis of waste

RGB-, VIS- and hyperspectral cameras, 3D sensor system and metal detection

Feed Rate Control with signals and sensors to control upstream feeding and sorting equipment (optional)

SORTING TASKS

The Heavy Picker can sort construction and demolition waste (C&D), commercial and industrial waste (C&I) as well as plastics, metals, wood, inert, plastic bags and more. Heavy Picker minimizes the need for pre-shredding waste or pre-sorting the waste with an excavator.

CONSTRUCTION & DEMOLITION

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

■ Metals

COMMERCIAL & INDUSTRIAL

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

RIGID PLASTICS

- Plastics from mixed waste
- Plastics by polymer: PP, PE, PVC, PET, etc.
- Plastics by shape, size and/or color

INERT

- Stones
- Bricks
- Asphalt
- Gypsum
- Concrete, etc.

SCRAP METALS

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

INSTALLATION OPTIONS

- RETROFITTED to complement existing facility infrastructure
- Set up as a STANDALONE SORTING STATION requiriung no modifications to existing facility infrastructure
- Set up as the MAIN SORTING STATION for a fully robotized greenfield installation

ZENIOBOTICS



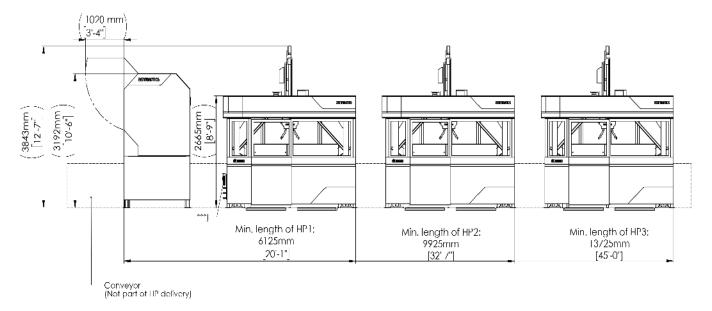
TECHNICAL SPECIFICATIONS

1, 2 or 3
1
Mechanical Gripper
2300 picks/h*
0,1-0,6 m/s, 20-118fpm
6125mm x 13725mm, 20' 1"x 45
4700kg - 11300kg
10400lb - 25000 lb
2700mm x 2000mm, 8' 10"-6
Up to 6 / arm

30 kg, 66 lb
L 1500mm, W 500mm
L 60", W 20"
Unlimited
10 kW, 13.4 hp
120 I/min/gripper at 6 bar
4.2 cfm at 87 pis
<80 bB(A)

Technical specification subject to change.

^{*} Actual picking speed depends on feed



The delivery of a complete Heavy Picker system includes a sensor unit, a control system, 1–3 robot arms, chute collars and a safety cage.