

AQC-C



MAX-AI®
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Max-AI® AQC-C (for Autonomous Quality Control) are the ultimate in post-sort automation. When combined with NRT optical sorters, the paper and container sorting process is 100% autonomous and the need for human contact with waste is eliminated.

The AQC-C is a solution that is comprised of Max-AI VIS (for Visual Identification System) and at least one collaborative robot (CoBot). CoBots can work alongside people, minimizing structural requirements and footprint while improving maintenance access. The AQC-C can be quickly and easily placed into existing Material Recovery Facilities (MRFs) with no down time.

This advanced technology uses a machine vision system to see the material, specialized artificial intelligence to think and identify each item, and robotic sorters to pick targeted items or contamination. Max-AI AQC-C provide MRF operators with sustained and consistent sorting performance while improving safety, recovery, product quality and operational expenses.

Can be installed in sort cabins, on narrow walkways and in other tight locations

Works alongside people

Easily scalable; up to four robotic sorters can be added behind each Max-VIS system

Up to four separate sorts from a single unit

Consistent and predictable pick rates

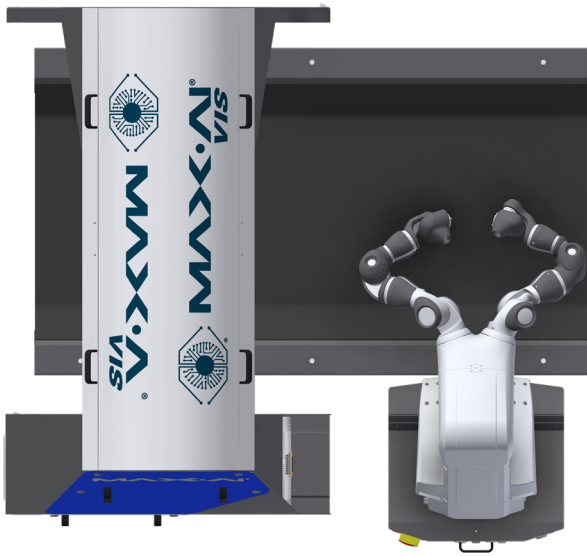
Dependable & able to work multiple shifts

Advanced neural networks can be retrained to identify new materials as waste streams change

Captures valuable material composition data with machine vision & artificial intelligence

Minimal structural requirements & footprint for easy installation

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Maximum Conveyor Frame Width 1.066 mm
 Maximum Sorting Belt Width 800 mm
 Sorting Range 457 mm each robot

STANDARD STRUCTURE
 Installed Length: 2.845 mm
 Installed Width: 2.362 mm
 Installed Height: 2.032 mm
 Installed weight: 546 kg (approx)

Technical Specifications

Model	AQC-C
Identifiable Materials	Plastics & metal containers, paper, cardboard, cartons, residue
Sorting Speed	Up to 40 picks/min per robotic unit (2 arms)
Number of Sorts	Up to 4 separate sorts per unit
Air Consumption	1,13 m ³ /min @ 6,9 BAR
Required Air Supply	Filtered and Dry Air, Pressure: 6,9 BAR, ISO 8573.1 Class 1.4.2
Voltage, VAC 50/60 Hz, Single Phase	230V
Main Circuit Breaker	20A
Full Load Amperage (FLA)	15A
Power consumption @ FLA	3,5 kW
Maximum Object Weight	250 g
Maximum Object Size	250 mm
Maximum Object Height	150 mm
Sorting Conveyor Speed	0,5 - 1,0 m/sec.
Suitable Operating Environment	Indoors only; 2-37°C