AQC-2

MAX·AI® AQC

Max-AI® AQCs (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-2 makes multiple sorting decisions autonomously; for example, separating plastic film, small cardboard, containers and residue from a stream of newspaper. All of this is done at rates exceeding human capabilities and each pick is prioritized for profitability.

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 AQCs provide MRF operators with sustained and consistent sorting performance while improving safety, recovery, product quality and operational expenses.

- An autonomous high-volume sorting solution.
- Exceeds human capabilities in every metric including pick rate, accuracy, and uptime; and sustains those capabilities every minute of the day.
- Up to three separate sorts.
- Picks are prioritized by value, weight, or other operator specifications. Priorities are easily adjusted when market conditions change.
- Advanced neural networks can be retrained to identify new materials as waste streams change.
- Can be installed in existing MRFs with no down time.
- Improves plant safety by eliminating human contact with waste.

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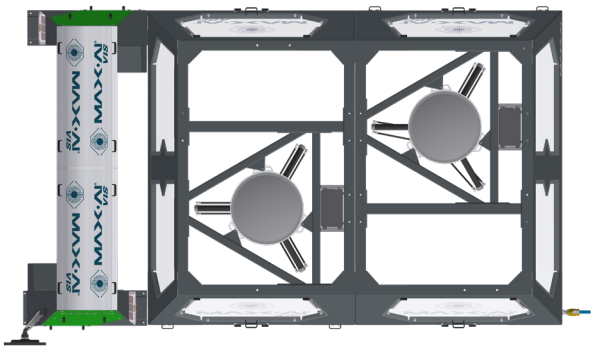

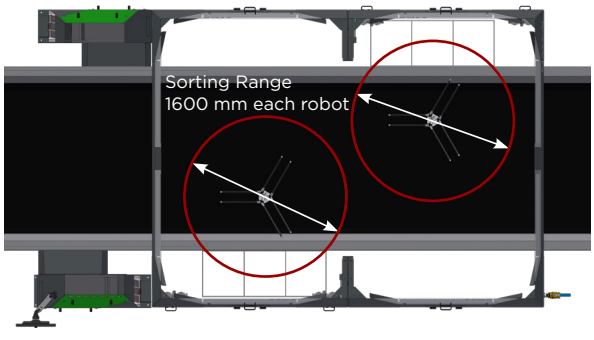

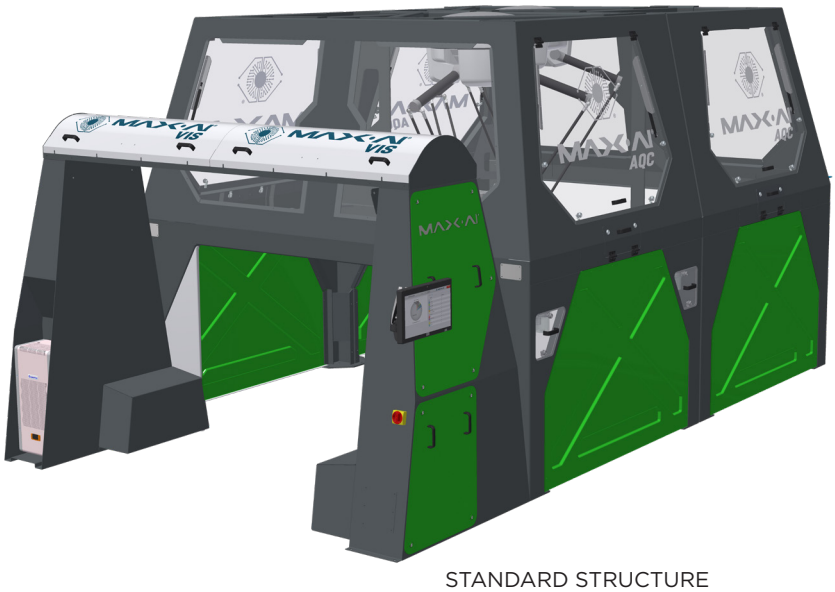

STANDARD STRUCTURE

Installed Length: 5.131 mm
Installed Width: 2.947 mm
Installed Height: 2.550 mm
Installed weight: 2.040 kg (approx)

Technical Specifications

Model	AQC-2
Configuration	Dual robot-central sort conveyor, picking to chutes on both sides of conveyor
Identifiable Materials	Paper, cardboard, plastic & metal containers, cartons, residue
Sorting Speed	Up to 60 picks/min. per robot
Number of Sorts	Up to 3 separate sorts per robot
Air Consumption	2,3 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	25A
Full Load Amperage (FLA)	20A
Power Consumption @ FLA	4,6 kW
Maximum Object Weight	0,5 kg
Maximum Object Size	250 mm
Sorting Conveyor Speed	0,5 - 1,0 m/sec.
Suitable Operating Environment	Indoors only; 2-37°C