AQC-1

MAX·AI® AQC

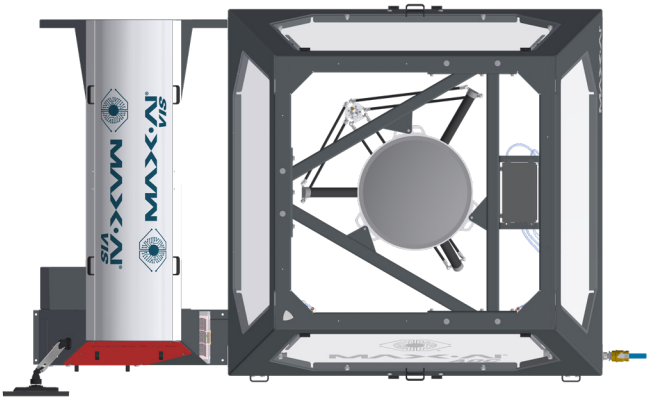
Max-AI® AQCs (Autonomous Quality Control) are the ultimate in post-sort automation. When combined with NRT optical sorters, the paper and container sorting process is 100% autonomous and the need for human contact with waste is eliminated.

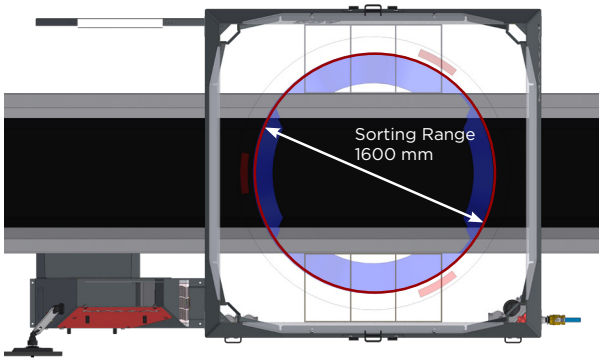
The AQC-1 makes multiple sorting decisions autonomously; for example, separating thermoform trays, aluminum, 3D fiber and residue from a stream of optically-sorted PET bottles. All of this is done at rates exceeding human capabilities and each pick is prioritized for profitability.

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.

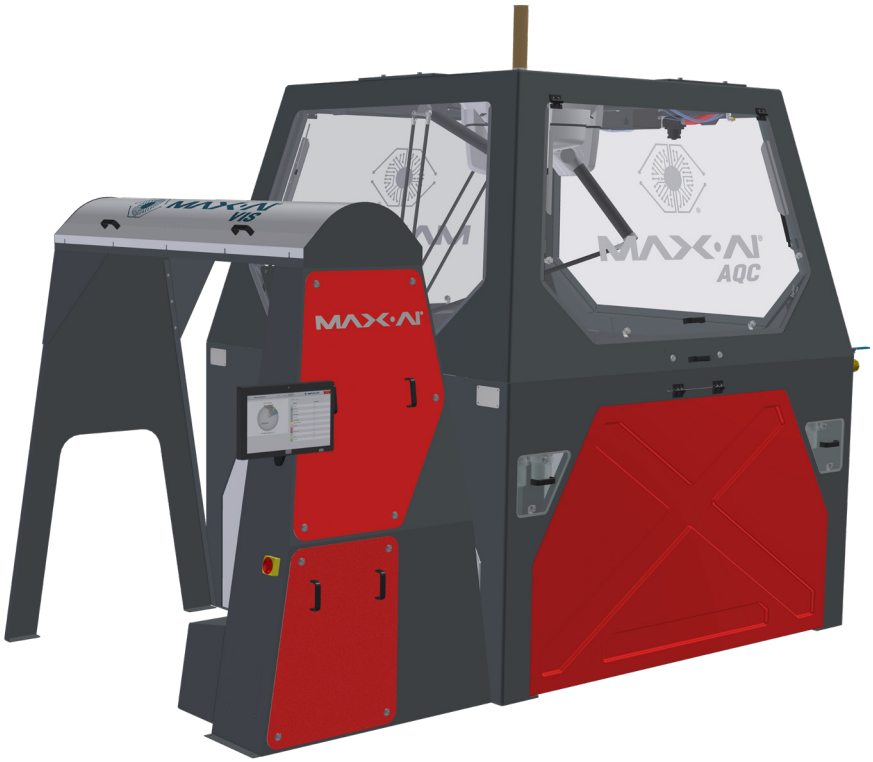
- A completely autonomous high-volume recovery solution when paired with NRT optical sorters.
- Exceeds human capabilities in every metric including pick rate, accuracy, and uptime; and sustains those capabilities every minute of the day.
- Up to six separate sorts from a single unit.
- Picks are prioritized 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.

max-ai.com





Maximum Conveyor Frame Width 1.066 mm
Maximum Sorting Belt Width 800 mm



STANDARD STRUCTURE

Installed Length: 3.429 mm
Installed Width: 2.185 mm
Installed Height: 2.550 mm
Installed weight: 1.360 kg (approx)

Technical Specifications

Model	AQC-1
Identifiable Materials	Plastics & metal containers, paper, cardboard, cartons, residue
Sorting Speed	Up to 70 picks/min.
Number of Sorts	Up to 6 separate sorts
Air Consumption	1,12 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	15A
Full Load Amperage (FLA)	10A
Power Consumption @ FLA	2,3 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