



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 seven separate sorts from a single unit.

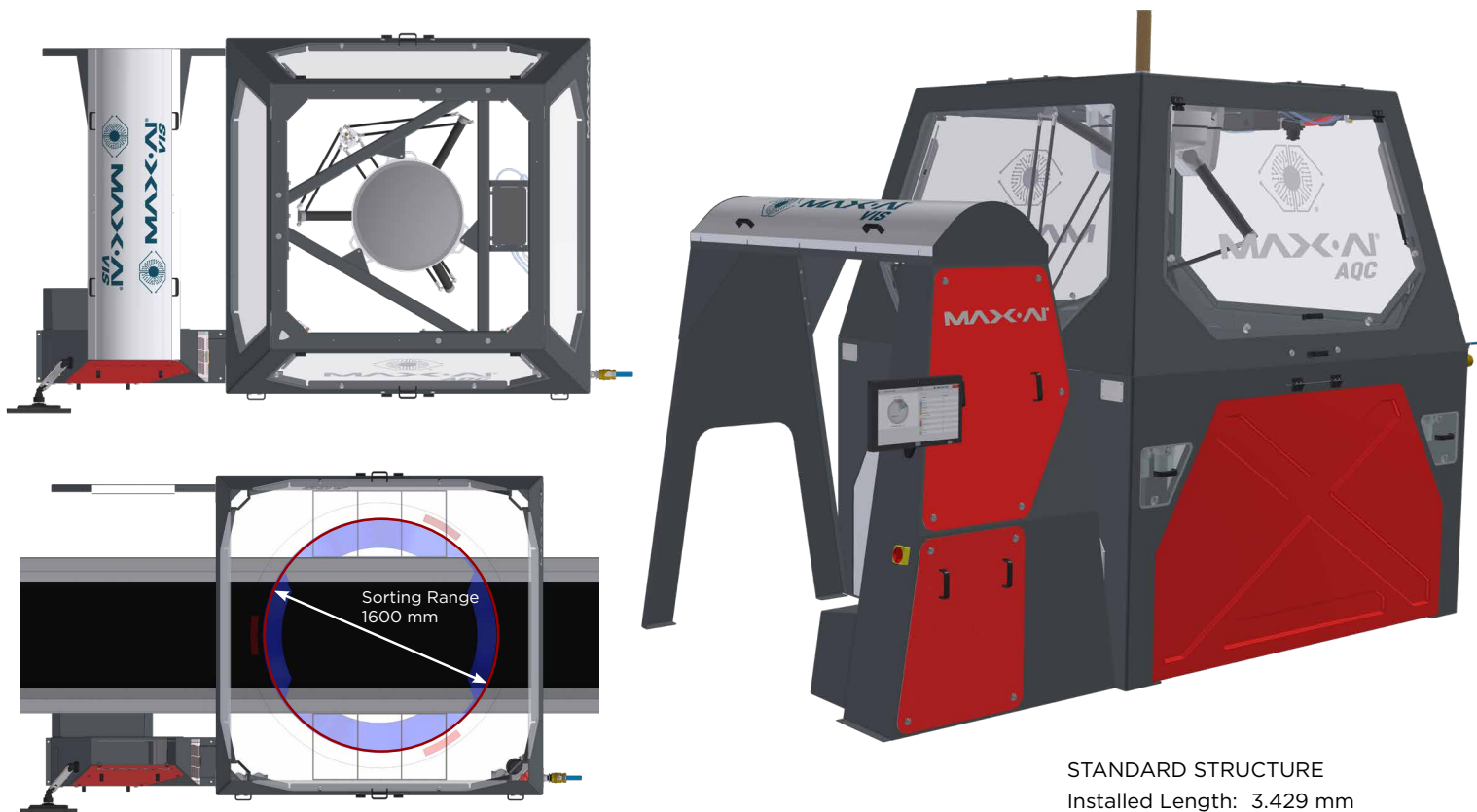
Picks are prioritized by value, weight, or other operator specifications. Priorities are easily adjusted when market conditions change.

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.

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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 7 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 |

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