

CARTONSORT™

NIR SENSOR SORTING SYSTEM FOR DRINK CARTONS AND PLASTIC MATERIALS



FULLY AUTOMATED SORTING OF CARTONS. ELIMINATES EXPENSIVE MANUAL LABOR.

Based on the popular Sapphire™ sorting module, the MSS CartonSort™ provides MRFs a flexible solution for automated optical separation of aseptic, gabletop and drink cartons as well as other selected materials.

The CartonSort™ Module uses a highly advanced near-infrared (NIR) sensor that identifies drink cartons (layered LDPE/cellulose compounds) from a commingled container input stream at unmatched throughputs.

As a division of the CP Group, MSS designs optical sorting solutions that integrate at the highest level with the world's most advanced mechanical separation technology. CP's NEWScreen™, V-Screen™, CP Screen™, Glass Breaker Screen™ and Air Drum Separator™ (ADS) are the perfect choice for pre-processing the incoming feedstock material.

The input material is distributed over the machine width and travels underneath the NIR sensor array which is mounted on top of a high-speed conveyor. State-of-the-art electronics and sophisticated software algorithms process the signals, identify different materials according to their "signatures" and activate corresponding air valves which eject the cartons into a collection chute.

In order to maximize the return on investment the CartonSort™ module can be set up as "dual-eject" unit and sort a second material of choice (PET, PE, #3-#7, PLA, etc.) automatically at the same time.

The CartonSort™ features a user-friendly color touchscreen with advanced diagnostics, setup flexibility, and remote modem or Ethernet access.

OPTICAL SORTING SYSTEMS

CARTONSORT™

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CARTONSORT™ MODELS

Machine Width
Sorting Capacity
Sorting Efficiency
Sorting Purity
Electrical Requirements
Compressed Air Pressure
Compressed Air Usage

SINGLE-EJECT

800mm - 2800mm (32" - 112")
1.5 - 6.0 tons/hr
up to 95%
up to 97%
8 kW
100 psi / 7 bar
Feedstream dependent

DUAL-EJECT

800mm - 2800mm (32" - 112")
1.5 - 6.0 tons/hr
up to 95%
up to 97%
12 kW
100 psi / 7 bar
Feedstream dependent

AVAILABLE FEATURES/UPGRADES

- Dual-Eject configuration
- Metal detector upgrade
- Split configuration
- Color touchscreen user interface with modem/ethernet access
- Selection of languages (English, Spanish, German, French, etc.)
- Different sort configurations by the touch of a button

MSS WARRANTY

As with all our products, the MSS CartonSort™ is supported by experienced, dedicated service technicians. It is covered by a full one-year comprehensive warranty on parts, workmanship, and performance.



Precise air blasts in action ejecting drink cartons.



Storage silo full of drink cartons, automatically sorted by the CartonSort™ NIR optical sorting module.

