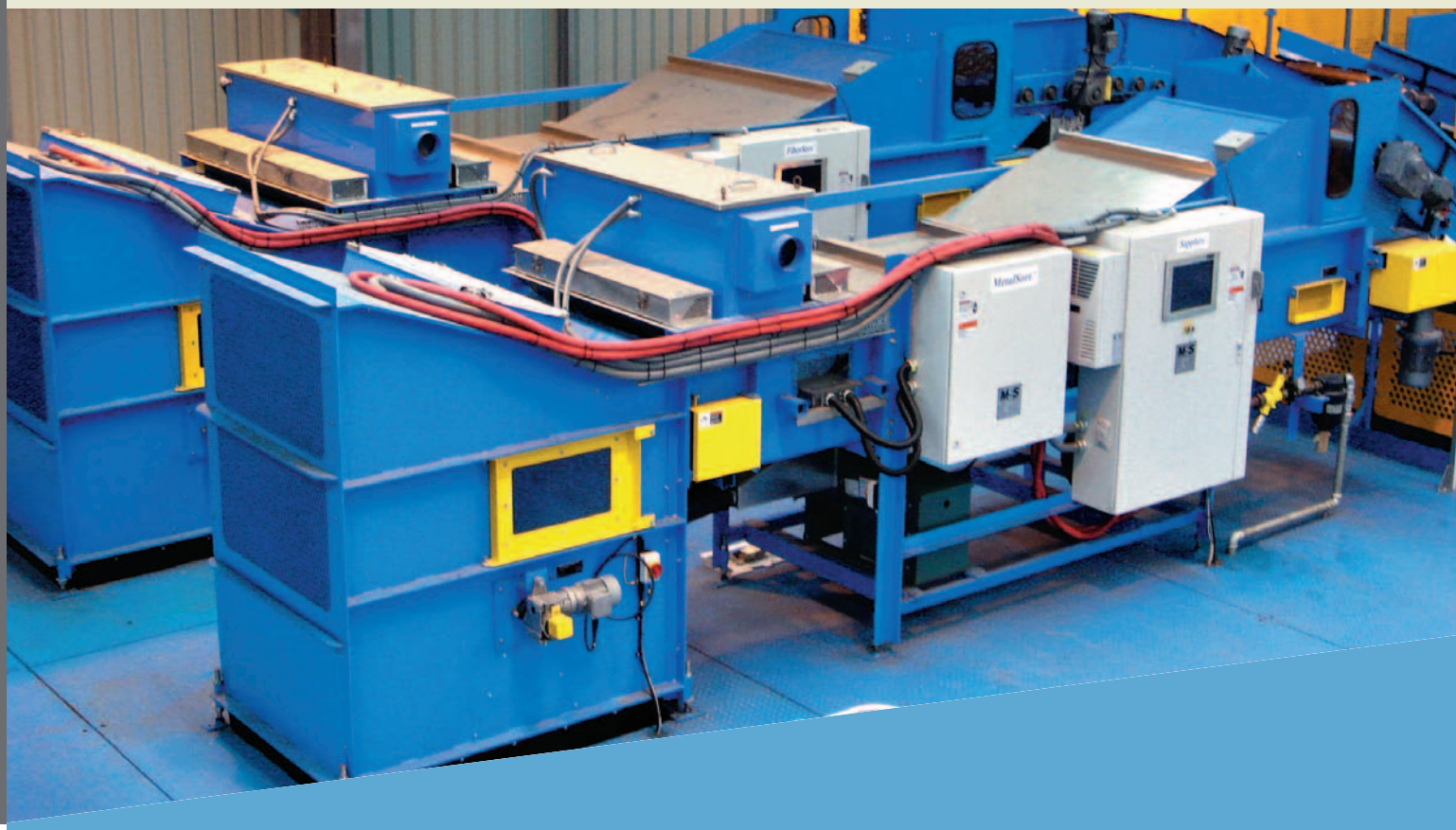
SAPPHIRE™

HIGHLY FLEXIBLE NEAR-INFRARED SENSOR SORTING SYSTEM



MAXIMIZE SORTING EFFICIENCY.
MINIMIZE CONTAMINATION LEVELS.

The MSS Sapphire™ is a highly advanced near-infrared (NIR) sensor sorting system that is capable of identifying polymer materials by type as well as other materials (drink cartons, paper, etc.)

The Sapphire™ provides MRFs and other recyclers an affordable solution for automated optical separation for various applications. While the standard Sapphire™ module generates three output streams from one input stream, it can sort two input streams at the same time in a split configuration, generating a total of up to six outputs.

As a division of CP Manufacturing, MSS designs optical sorting solutions that integrate with the world's most advanced mechanical separation technology.

The incoming material is distributed over the machine width and travels underneath the sensor array, which is mounted on top and at the end of a high/speed acceleration belt. State-of-the-art electronics process the signals from the NIR sensor and activate corresponding air valves, which eject the targeted material upward or downward.

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

The Sapphire™ provides the operator with real-time statistics that can be used for daily reports or for quality control certificates per truck load.

MSS

OPTICAL SORTING SYSTEMS

SAPPHIRE™

HIGHLY FLEXIBLE NEAR-INFRARED SENSOR SORTING SYSTEM

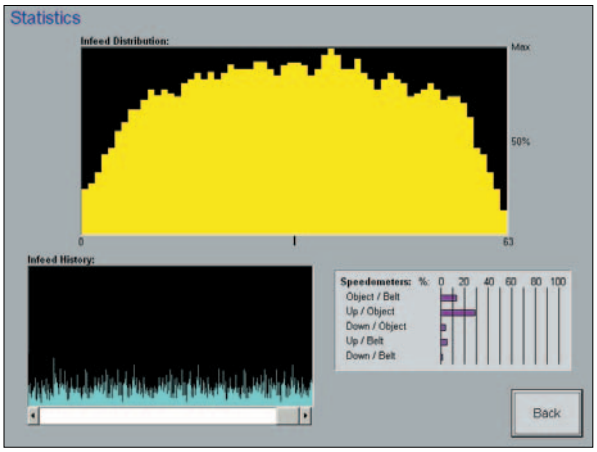
SAPPHIRE™ MODELS	Single-Eject	Dual-Eject
Machine Widths	800-2400mm, in 200mm increments	800-2400mm, in 200mm increments
Sorting Capacity	1.5 - 6.0 tons/hr	1.5 - 6.0 tons/hr
Electrical Requirements	8 kW	10 kW
Compressed Air Pressure	100 psi / 7 bar	100 psi / 7 bar
Compressed Air Usage	Feedstream dependent	Feedstream dependent

AVAILABLE OPTIONS/UPGRADES

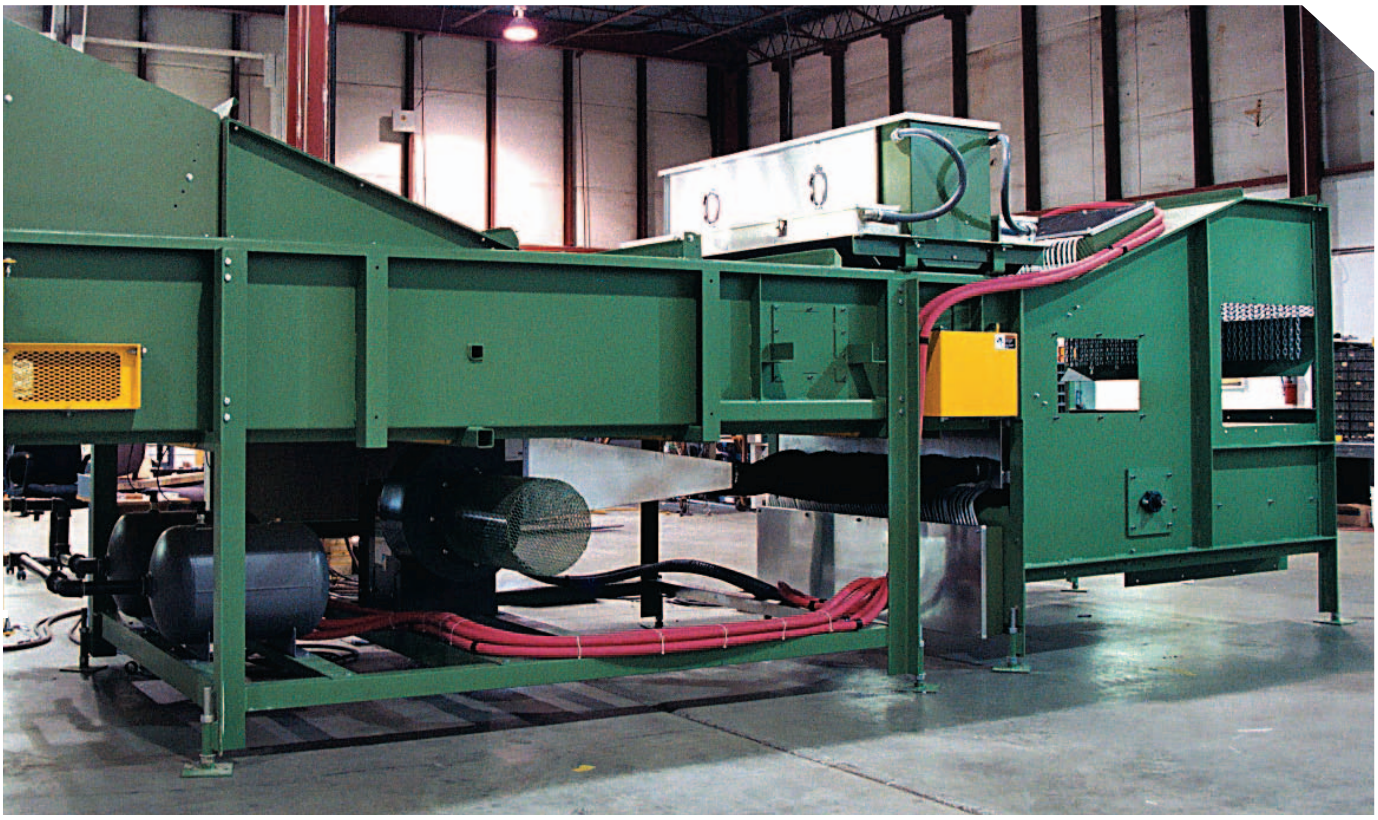
- Metal detector upgrade optional
- Split configuration optional
- Color touchscreen user interface with modem/ethernet access
- Statistics and quality reports download options
- Different sort configurations by the touch of a button

MSS WARRANTY

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



Sapphire™ Material Distribution Statistics Screen



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