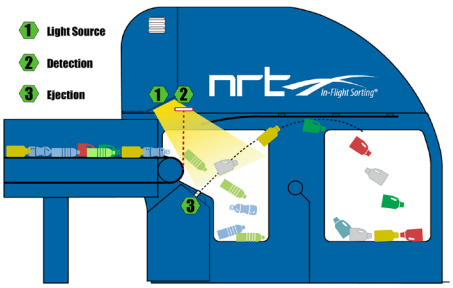
SpydIR®-R

NIR In-Flight Sorting®

Overview

The SpydIR®-R is an advanced infrared sorting system that separates numerous polymers, fiber or plastic film from other materials. It uses proprietary technology and fast, highly sensitive algorithms to rapidly identify unique material signatures from their infrared spectra. SpydIR® is the only technology that uses NRT's patented PET Boost™ to improve detection of thin-wall, wet and full-sleeve labeled PET. While other optical sorters detect material over the belt and eject some time later, NRT offers *In-Flight Sorting®*, which detects and ejects material in flight. In-Flight Sorting® enables the use of reflective detection, continuous auto-calibration, and eliminates motion-related error and belt interference, increasing hit rate and purity levels.

SpydIR®-R



NIR In-Flight Sorting®

Technology

- NIR identification of multiple polymer types
- Proprietary infrared sensing technology and algorithms for rapid detection
- PET Boost™ technology improves detection of thin-wall PET, wet PET and full-sleeve PET
- Operator-friendly color touch-screen graphic control panel

Applications

- Polymers identified include PVC, PS, PETG, PLA, PC, PE, PP and other polymers in any combination
- Remove cardboard, paper, and other fiber from a container stream
- Purify fiber stream of contamination, including metals with addition of MetalDirector™
- Separate WEEE plastics into user-defined polymer groups
- Recover clean PET product from polymer residue streams for return to main PET stream
- Recover wood product from C&D streams
- Sort Tetra Pak®, aseptic and PE coated gabled products from a container stream

Features

- *In-Flight Sorting*® provides unbeatable hit rates and purity
- Industry leading signal-to-noise ratio is ideal for thin-wall PET
- High-speed identification with throughput rates exceeding 16,000 lb/hr
- Remote diagnostics, adjustments and upgrades.
- Real-time and trending material composition analysis with **BHS Total Intelligence Platform**
- Width sizes from 36" to 120"

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