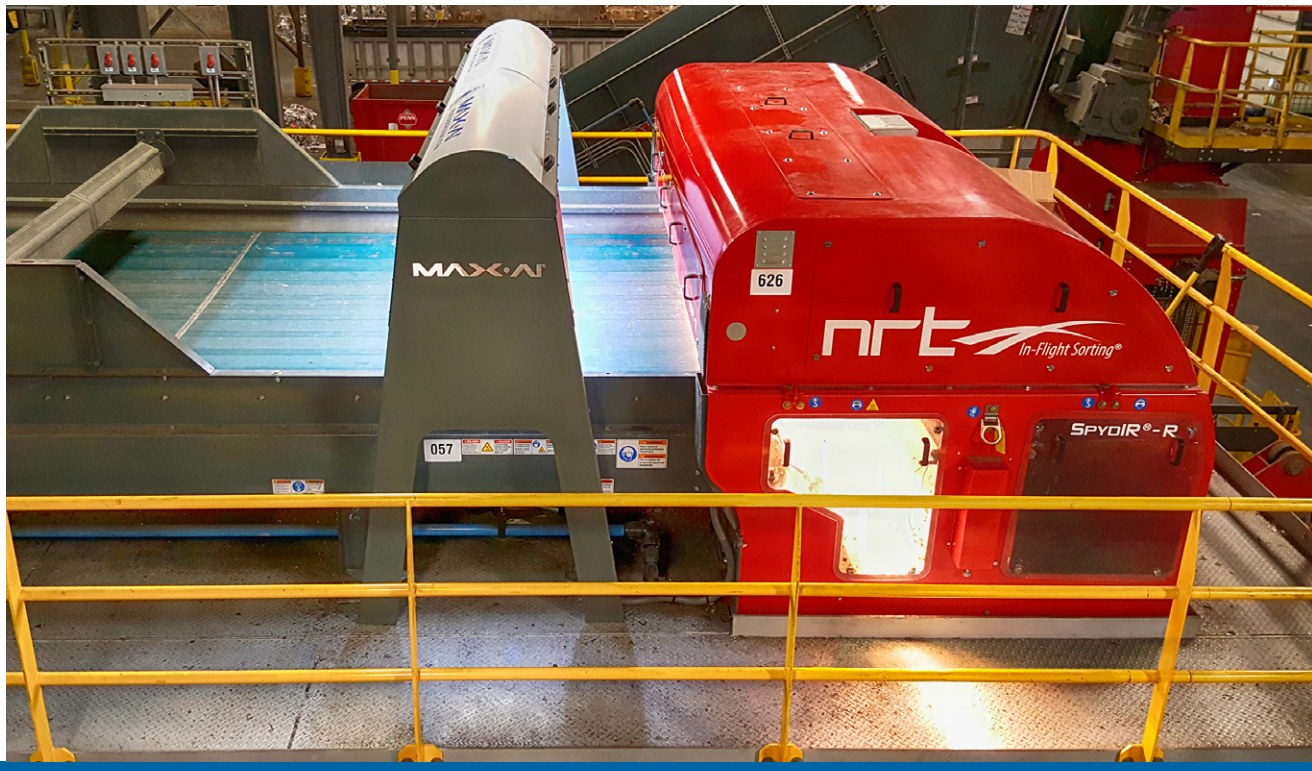
SpydIR® with Max-AI®

In-Flight Sorting® + MAX-AI® VIS

Overview

This optical sorter integrates SpydIR® technology and Max-AI® technology to create a revolutionary new sorter with unmatched detection abilities. NRT's SpydIR technology uses near infrared light (NIR) detection to identify plastics, paper, wood and other materials by material type. Max-AI technology employs a camera and neural network based artificial intelligence (AI) to identify recyclables similar to the way a person does. Max's person-like identification decisions is an additional layer of intelligence that, when added to the SpydIR-R sorter's highly accurate and high volume NIR sorting, creates new capabilities. The result is new capabilities – for example, NRT SpydIR® detection can quickly and reliably identify fiber, PET or numerous other materials, but Max-AI can identify if that fiber is on a tin can or if it's cardboard, and if PET is an undesirable tray or if HDPE is food grade.



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In-Flight Sorting®

+

MAX·AI VIS

Fiber		Metal Can
Fiber		Fiber or Card
PET		PET Bottle PET Tray
Fiber		Container

Technology

SpydIR: NIR identification of multiple polymer types with *In-Flight Sorting®*

Proprietary infrared sensing technology and algorithms for rapid detection

Operator-friendly color touch screen graphic control panel

PET Boost™ technology for detection of thin-wall PET, wet PET & full-sleeve PET

Max-AI: Multi-layered vision system and neural networks "see" and "think" similar to a person to identify materials

Applications

Capture form-specific PET (ex. bottle only, blue/green bottle only, etc.)

Capture food-grade only PET and/or HDPE

Capture specific fiber grades (ex. cardboard, news)

Identify containers with full-wrap fiber labels (suppress fiber ejection)

Identify black plastics, thermoform trays and other items NIR does not

Features

Remote diagnostics, adjustments and upgrades

Real-time and trending material composition analysis with the **Total Intelligence Platform**

Width sizes from 36" to 120"

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