

SORTIMAX-IQ

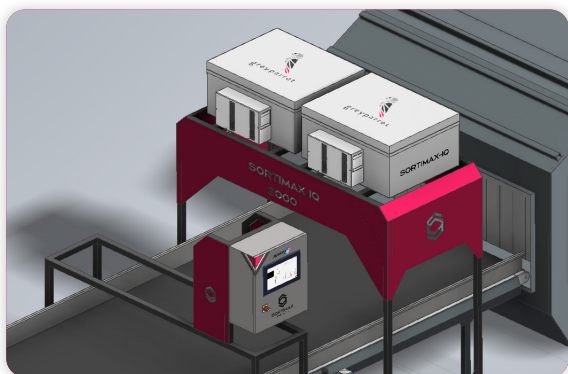
Dynamic sorting assistant powered by the waste's sector most powerful **ARTIFICIAL INTELLIGENCE**.



SORTIMAX™ IQ is an advanced airjet-based sorting system that uses cutting-edge computer vision AI from Greyparrot to identify and eject unwanted materials from a waste stream with high precision. Installed directly on the conveyor line, it continuously monitors and sorts waste fractions in real time.

Most MRFs (Material Recovery Facilities) struggle to meet purity targets due to inconsistent manual sorting, aging equipment, and unoptimised airjet configurations.

SORTIMAX™ IQ was designed to fill this gap: combining intelligent vision systems with automated actuation to enable smarter, faster, and more reliable sorting.



AI SORTING INNOVATION

High Purity Sorting

Achieve product purity levels aligned with market and regulatory demands (e.g., COREPLA), thanks to precision object-level recognition powered by AI.

Adaptability

The AI can be tailored to your specific material stream (e.g. plastics, Tetra Pak), learning and adapting over time to changing input flows.

Operational Efficiency

Cuts down on manual labor and improves overall plant performance by integrating with existing systems and automating critical sorting tasks.

Real-time Data Visibility

Leverages Greyparrot's AI platform to deliver continuous, real-time insights into your material stream, helping teams make faster, data-driven decisions.

► Visual Analysis with AI

Greyparrot's Analyzer captures high-resolution images of the material stream in real-time.

► Object level recognition

Using AI models trained on millions of waste items, SORTIMAX™ IQ classifies materials at the object level (e.g., bottles, trays, paper, Tetra Pak, metals).

► Targeted ejection

Once the AI identifies an unwanted or target item, SORTIMAX™ IQ activates precision airjets to eject or retain materials based on your purity goals.

► Learning over time

Thanks to the Greyparrot platform, SORTIMAX™ IQ continuously learns from your stream data, improving sorting performance with every shift.

Smart Sorting with Greyparrot Integration

SORTIMAX™ IQ's power comes from its deep integration with Greyparrot's AI-powered waste intelligence system.

► Customisable sorting profiles for specific product lines

► Historical and real-time analytics via the Greyparrot dashboard

► Predictive alerts for contamination or system inefficiencies

► Remote configuration and support

With Greyparrot AI, SORTIMAX™ IQ becomes more than just an airjet: it becomes a dynamic sorting assistant that evolves with your plant.



► MAIN APPLICATIONS

Greyparrot built its dataset gathering millions of real waste data point, collected from plants spread across the world - 30 billion images a year.



PET bottles



Film



HDPE



Trays



Plastic Other



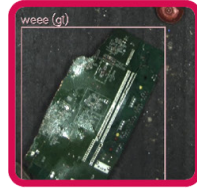
Black Plastic



Paper



Metals



WEEE



Glass



Fabric

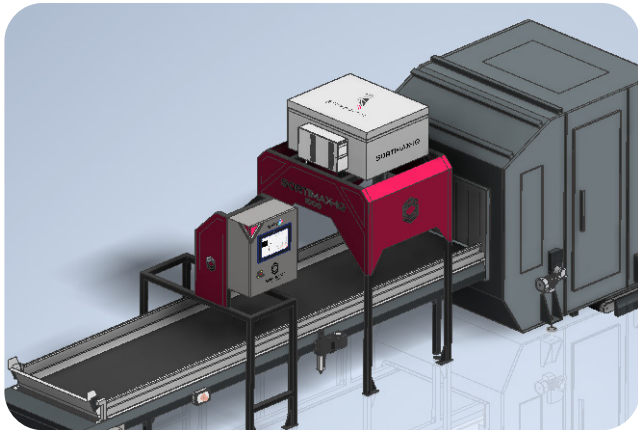


Tetra Pak

► MODELS

SORTIMAX-IQ

ELEVATED PURITY STANDARDS SORTING WITH GREYPARROT AI



BELT SIZE APPLICATION 1000 | 1400 | 2000 | 2800

Speed: max 4m/s

Energy consumption: nominal power 1 kW (1000mm)

Weight: 150 kg (accelerator belt and flight chamber not provided)

Ejection system: MAC bullet valve - nozzles pitch 25mm

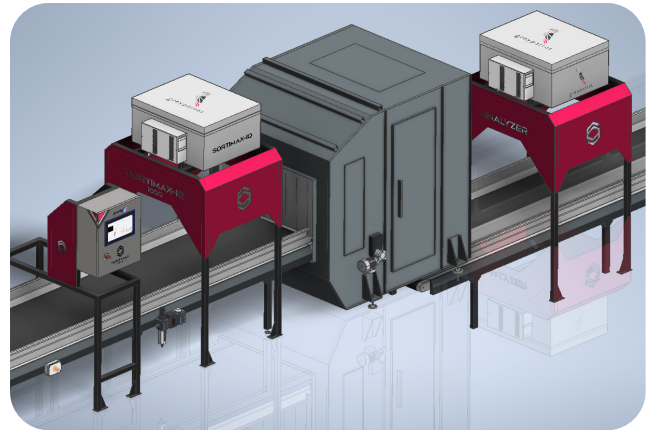
FEATURES:

- deep learning system
- food vs. non food grade recognition
- high speed and stable sorting
- facilitated servicing
- no calibration needed
- modular structure
- user-friendly HMI software

CE Marking - EUROPEAN DIRECTIVES 2006/42/CE, 2014/30/UE

SORTIMAX-IQ DYNAMIC

HIGH PERFORMANCES WITH REAL-TIME DATA CONTROL VIA GREYPARROT ANALYZER



BELT SIZE APPLICATION 1000 | 1400 | 2000 | 2800

Speed: max 4m/s

Energy consumption: nominal power 1,2 kW (1000mm)

Weight: 170 kg (accelerator belt and flight chamber not provided)

Ejection system: MAC bullet valve - nozzles pitch 25mm

FEATURES:

- deep learning system
- food vs. non food grade recognition
- high speed and stable sorting
- facilitated servicing
- no calibration needed
- modular structure
- user-friendly HMI software with retroactive system
- SYNC dynamic control with GP Analyzer AI or GP Analyzer AI + NIR
- real-time quality reports of selected product

CE Marking - EUROPEAN DIRECTIVES 2006/42/CE, 2014/30/UE



CONTACTS:
sortimax.it
greyparrot.ai
info@rixera.it



Milano, Italia
 SORTIMAX™ is a Rixera S.r.l. brand.