



Food Sorting Solutions

**Ensuring pure and safe food
for food packers and processors**

- Color Sorting
- Shape/Size Sorting
- Advanced Foreign Material Sorting
- Built-in Metal Sorting
- Density Sorting



Automated food sorting.

pure.



Sesotec is a global manufacturer of optical sorting solutions designed for the modern food safety environment. With many technologies developed in-house, we are able to provide a wide range of machines at a quality that is unique in the market.

Our mission is to provide the best protection for food packers and processors in an industry where sorting is no longer an option or a luxury, but a necessity.

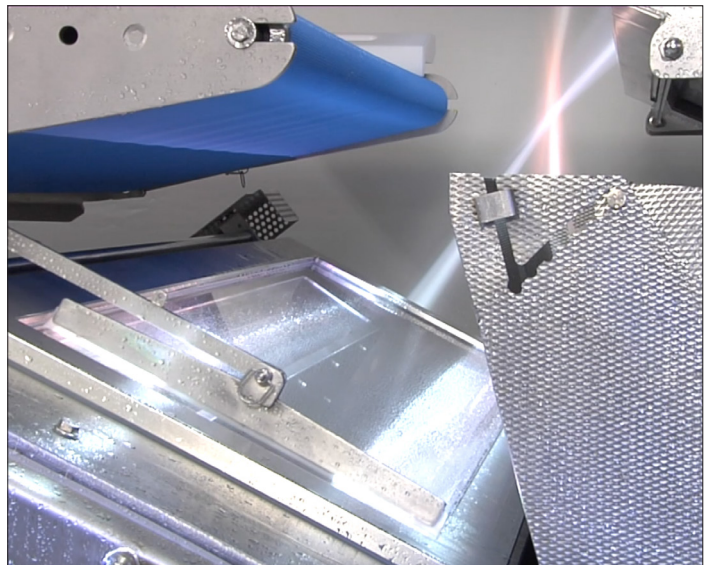
We are committed to enabling food manufacturers to transform their production operations through innovative technologies that increase yield, enhance food quality and provide the strongest food safety insurance available today.

Most advanced sorting technologies

Sesotec is uniquely positioned as a complete vision inspection solutions provider due to competence in x-ray, metal detection and optical sorting technology. We are that company which has expertise in all fields of inspection.

This extensive experience drives our designs toward the following objectives for customers:

- Precise removal of contaminants and impurities without yield loss.
- High-capacity throughput without performance degradation.
- Reliability with extremely low-cost maintenance.
- User-friendly software without sacrificing optimal execution resulting in unique user experience.



Foreign material detection and removal.

We are capable of detecting most types of foreign material.

Contaminants:

- Plastics
- Wood
- Glass
- Stones
- Insects
- Rodents
- etc.

Impurities:

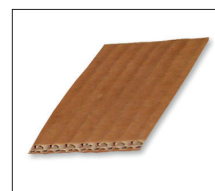
- Discolorations
- Misshapen (length, width, symmetry, area, ...)
- Damage and defects (quality differentiation)
- Extraneous vegetable matter (leaves, stalks, skins, stems, ...)
- Damage & defects



Glass



Wood



Cardboard



Wire



Plastic



Insects



Screw



Stone



String

Sensor-based sorting

■ Monochromatic sensor

Grey scale analysis for simple sorting tasks.

■ Enhanced-color sorting sensor

Proprietary Flashlight illumination system that utilizes the visual, UV and IR spectra. Detection of material based on physical dimensions.

■ Hyperspectral sensor

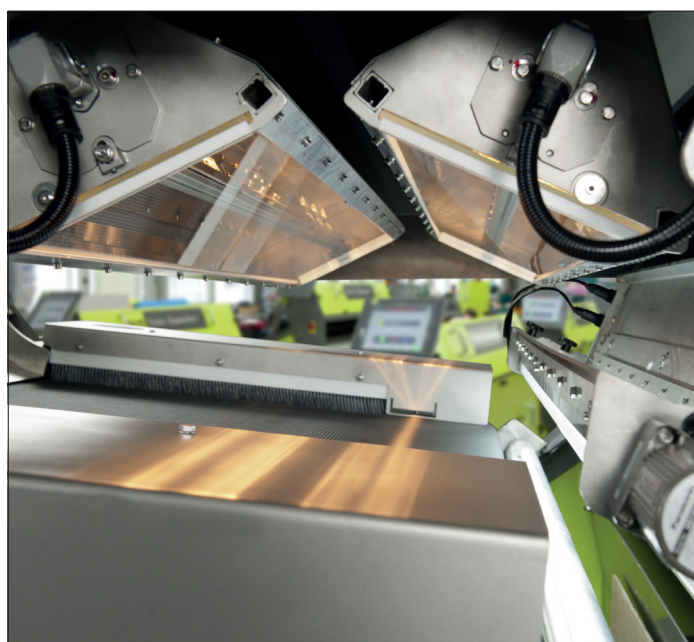
Advanced foreign material detection without blind spots. Detection of material based on chemical compositions.

■ X-ray technology

Detection of material based on density.

■ All - Metal sensor

Inductive sensor to detect ferrous, non-ferrous and stainless steels.



CAPTURA FLOW

An versatile optical belt sorter for multiple applications and industries

- ✓ Precision detection and removal of inorganic and organic contamination
- ✓ Belt sorting for stable product flow and comprehensive object analysis
- ✓ Complete foreign material reduction solution for consumer and brand protection



- Hygienic design for 21st century standards
- Innovative quick and easy cleaning
- Open construction
- Disassembly without tools
- Modular sensor and mechanical upgradability
- High precision air jets customized to the applications
- Optimized energy and air consumption

Designed specifically for the food industry, the CAPTURA FLOW offers an efficient sorting solution for fresh, frozen, dried, cut and whole products. The sorter can reliably remove glass, wood, cardboard, metal, plastics, stones and otherwise difficult to detect contaminants such as insects and rodents.

The modular design is future-proof, allowing sensor and mechanical upgrades at any time.

RAYCON BULK

Sorting system for dry and wet bulk material

- ✓ **Inline detection and separation of contaminants with density differential**
- ✓ **Compact, light, and modular design, easy cleaning and maintenance**
- ✓ **Easy operation in several languages**



- Complete system including vibration chute and reject unit
- Minimum loss of good material due to segmented reject units
- High throughput due to perfectly matched components
- IFS and HACCP compliant
- State-of-the-art technology ensures food without contaminations
- Plug-and-play all-in-one solution

The RAYCON BULK product sorting system detects all contaminants which due to their density, chemical composition, or mechanical dimensions absorb X- radiation better than the surrounding bulk material. This, for example, applies to metal, glass, ceramic and stone contaminations in food materials, and also to some types of plastics.

The product sorting system is equipped with a high-performance industry PC including real-time operating system and sophisticated visualisation software, user administration, multi-product memory, etc.

The system is operated by way of a 10" LCD monitor with touch screen.



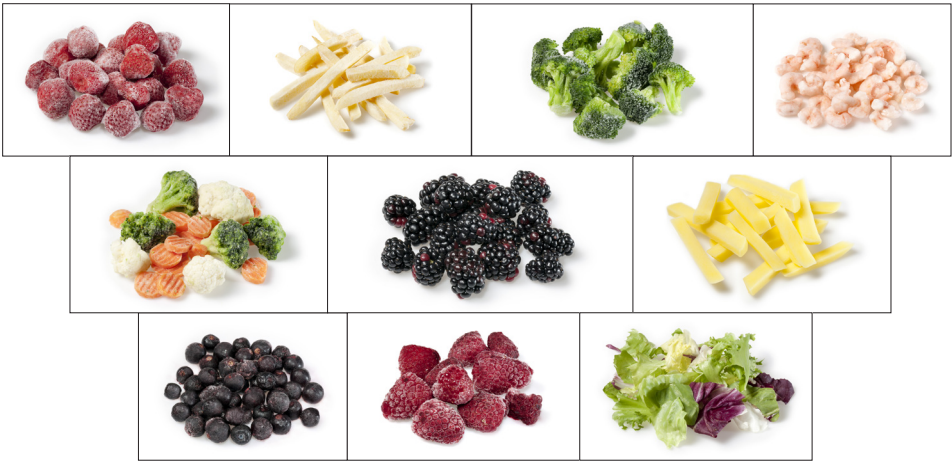
Sophisticated sorting systems

Sesotec provides proven and efficient sorting solutions for food products of all types – fresh, frozen, dried, cut and whole.

Sesotec sorting systems remove a multitude of contaminants and impurities – of organic and inorganic origin.

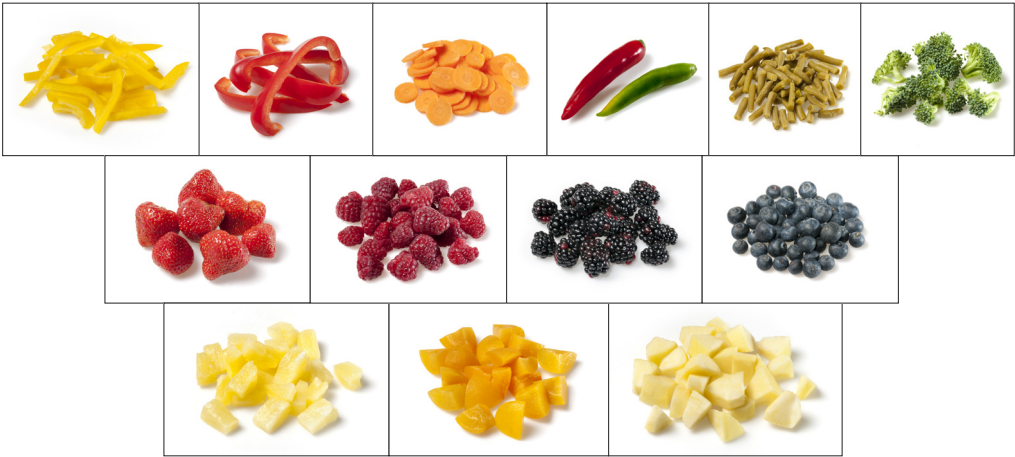
Processed food types

- Frozen
- Fresh cut
- Dried
- Freeze-dried
- Potato products
- Salad blends



Fresh fruit & vegetables

- Apples
- Pears
- Bananas
- Berries
- Cherries
- Beans
- Broccoli
- Carrots
- Paprika
- Tomatoes



The list of products that we can sort is nearly endless. Please speak to us about optical sorting as it pertains to our operation.

Grain, rice, seeds, pulse

- Corn
- Rice
- Wheat
- Barley
- Rye
- Oats
- Millet
- Seeds
- Beans
- Lentil
- Peas



Nuts, dried fruit, coffee, tea, noodles

- Walnuts
- Cashews
- Peanuts
- Pistachios
- Hazelnuts
- Almonds
- Raw coffee
- Roasted coffee
- Noodles
- Dried fruit (raisins, apricots, plums, bananas, figs, mango)
- Tea



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Sesotec system world



Detecting and separating contaminants:

Removing contaminants:

- metals
- plastics
- glass
- ceramics, porcelain, stones
- and many others

Removing from (good material):

- bulk materials
- liquids and pastes
- individually packaged product
- packed and loose items

Product types:

- end-products (food, textiles, plastics etc)
- industrial raw materials
- recycled materials

can be integrated into all types of conveyor systems



Detecting and separating sub-standard products

Qualitative defects:

- incorrect colour
- agglomerations
- breakages
- air inclusions in packs
- incorrect positioning / distribution

Quantitative defects:

- incorrect weight
- count errors (incorrect number of items in package)

Product types:

- end-products (food, textiles, plastics etc)
- industrial raw materials
- recycling materials

can be integrated into all types of conveyor systems



Sorting mixed materials into single fractions:

Types of material:

- glass
- plastics
- metals
- food
- and many others

Delivery flows:

- bulk materials
- individually packaged product

can be integrated into:

- conveying systems
- bulk material flows

Operating Companies:



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Choose Success!