

Autosort MC D Series

*Multi-chromatic
“all round vision” sorter*



D Series to remove:

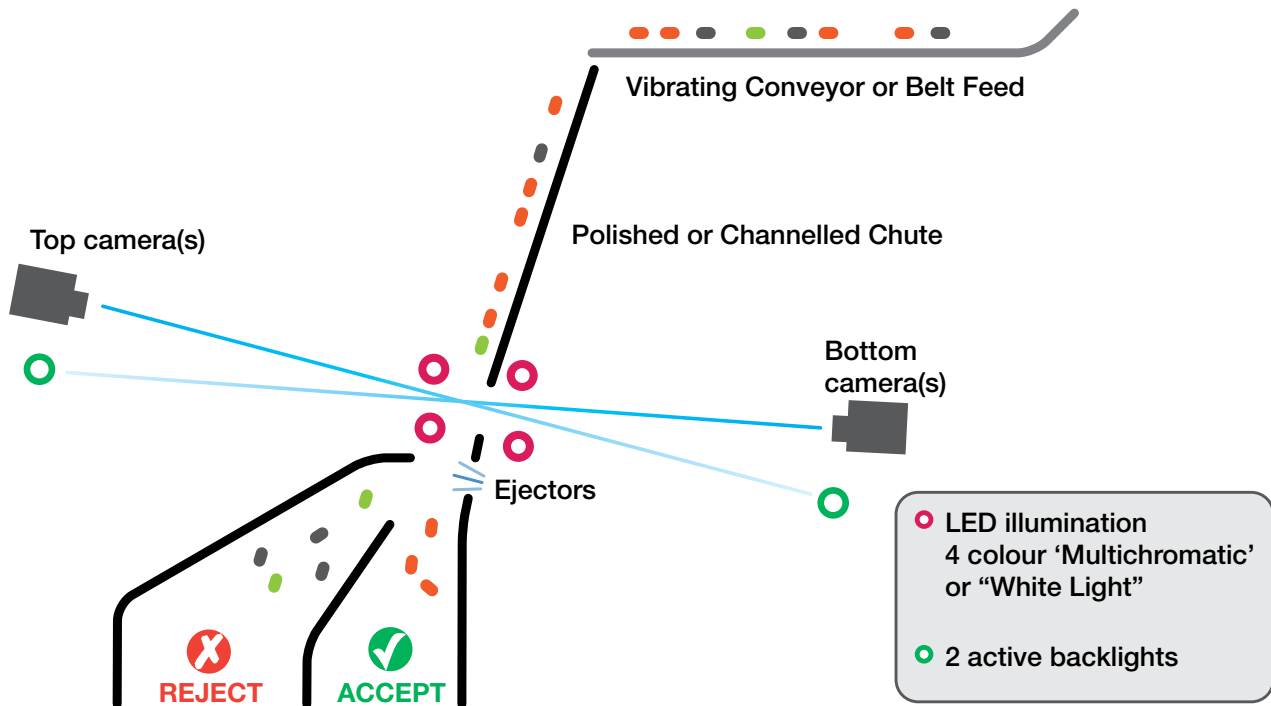
- > Contamination
- > Foreign bodies
- > Rot, skin, brown, yellow and burn
- > Burnt, bruised
- > Insects, wood, stone, plastic, leaves, EVM, shell and stalk
- > Discoloured product

Typical products:

- > Dry, fresh, frozen or processed foods
- > Wide range of vegetables
- > Fruits, sliced, diced, dry or frozen
- > Potato products, fries, dehydrates and formed
- > Nuts, seeds and grains
- > Snack foods, natural or manufactured



Autosort MC - D Series



Operation

The Autosort MC Range uses a rapid sequence of light to obtain "more than colour" information from the product. Often, even very similar colours can be differentiated and the infra-red capability improves the detection of foreign bodies. The camera information is processed by ultra-fast digital signal processors and commands are sent to one or more ejectors to remove the unwanted item efficiently.

These systems are designed specifically for larger products such as nuts, frozen, diced and sliced vegetables and fruits. The system is designed to remove natural defects, together with contaminants such as insects and stones. The D Series is configured to allow for inspection from both sides.

With resolution better than 1 mm, vision beyond visible light, ability to verify the spectral signature of every particle passing and the very latest image processing technology, this sorter is a must in many applications. The Multichromatic light source can be replaced with Monochrome illumination for less demanding applications.

Benefits

Human inspectors cannot see all around the product and their diligence is limited. The D Series ensures that even small defects on any side of the product are not missed, giving the assurance of full inspection. By removing discoloured items and contamination, the quality and value of the finished product is increased. The customer is rewarded with consistent product and food safety is enhanced by ensuring that foreign bodies and contamination are removed. Surround vision giving all round added value!

Accept: ✓

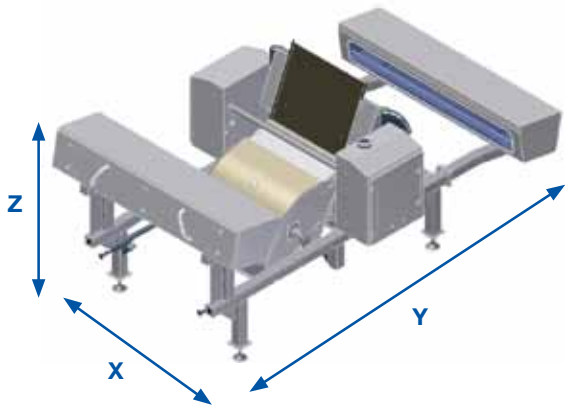
Reject: ✗

Dehydrates:

 Red Chilli	 Red Chilli
 Sultanas	 Sultanas
 Onion	 Onion

Nuts, seeds & grains:

 Rye grain	 Rye grain
 Almonds	 Almonds
 Peanuts	 Peanuts



Model specifications

MODEL	D1	D2	D3
No. of Ejectors	64	128	192
Lighting	1 to 4 colours – R, G, B, IR		
Cameras – Double sided viewing	2	4	6
Inspection Width (mm)	672	1344	2016
Dimension X (m)	1.8	2.5	3.1
Dimension Y (m)	3.2	3.2	3.2
Dimension Z (m)	1.9	1.9	1.9
Sort Options	2 or 3 way sort		
	Monochromatic, Bichromatic or Multichromatic		

Capacities kg/hr

Frozen / Dried Vegetables	500-3000	1000-6000	1500-9000
Potato/ Corn Snacks	200-800	400-1500	500-2500
Seeds / Grain	1000-4000	2000-8000	3000-12000

Key Features

- > Inspection in 4 specific parts of the spectrum from blue to infrared
- > 3 sizes of machine to suit most processors
- > Rapid LED lighting
- > Unique spectral signature sorting
- > Compact footprint
- > Top only, double-sided or full surround viewing
- > User-friendly, large [12"] colour touchscreen
- > Cameras well away from the product – remain clean
- > Remote support via the internet – training and maintenance at a much reduced cost
- > Alarms – on board and external to management systems
- > High resolution cameras – from 0.5 mm
- > Sorting parameters retained for immediate recall



- Delivery chute to suit product**
- > Adjustable angle
 - > Interchangeable



- Cameras and backlights well away from the product**
- > Keeps cleaner
 - > Modular frame construction

Options

- > External alarm connections
- > Application-specific take off chutes

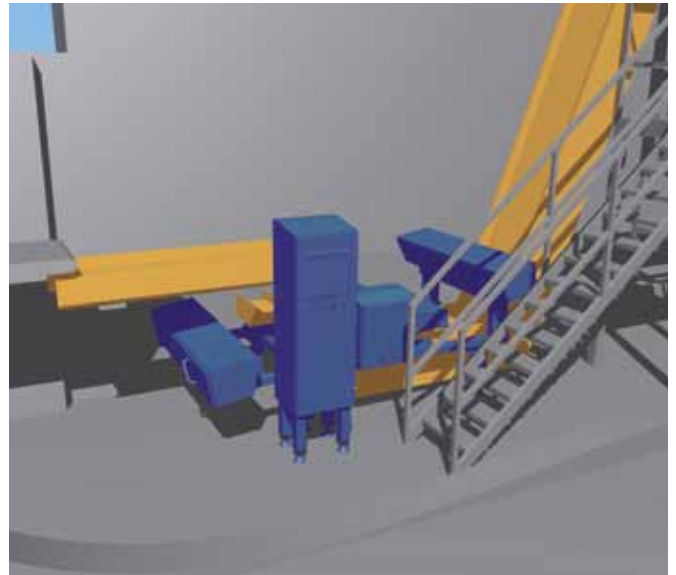


- Two or three way sort options**
- > Forward or backward rejection

Installations and Customer Comments

Radix offers a complete turnkey service, from individual sorters to complete lines. Autodesk Inventor 3D drawings enable the customer to visualise an Autosort in their factory. Working with partner companies we can provide auxiliary equipment including conveyors, elevators, vibratory feeders and other process equipment.

With over 22 years' experience, Radix has covered a wide range of installations. We have had many accolades from satisfied customers, including:-



"I bought spares with the machine, but they have not yet come out of the box. We have not used a single spare part in 18 months."

"The best piece of kit in the factory."

"The machine works very well - it's a great machine"

"The machines perform well - we made a good choice in choosing Radix."



Radix Systems Limited, founded in 1988, is a member of the Fowler Westrup Group, specialists in post-harvest processing and is committed to improving quality within the food processing industry. Operating from modern premises in Winchester, southern England, most of our staff are professional engineers. All our sorting and inspection systems carry the 'CE' marking and are technologically advanced, whilst remaining simple to install, operate and maintain. Full back-up and training is available from the company and from our international agents.

Radix Systems Limited

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Represented by:

A Series

C Series

D Series

E & P Series

Blue Alert