

Autosort MC A Series

*Opto-electronic
sorter for small and
lightweight products*



A Series to remove:

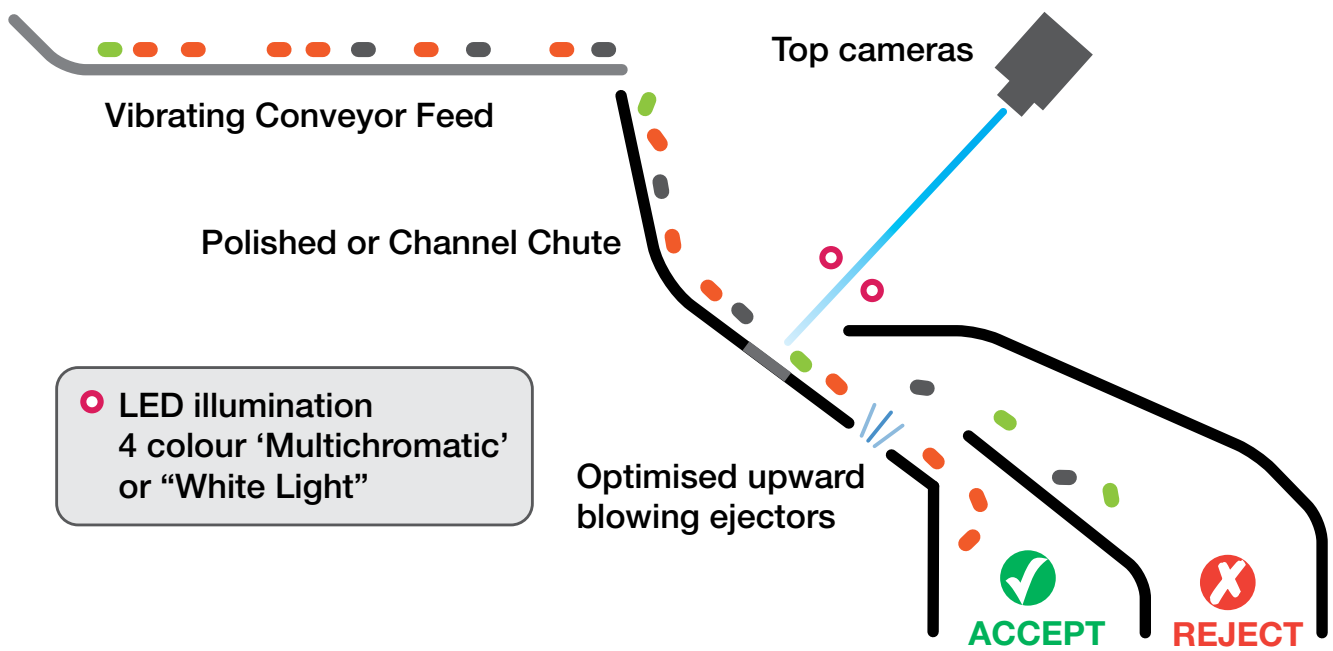
- > Product defects
- > Rot, skin, brown, yellow and burn
- > Foreign bodies
- > Contamination
- > Insects, wood, stone, plastic, leaves, EVM, shell and stalks
- > Damaged products
- > Discoloured product

Typical products:

- > Dry or frozen foods
- > Small and lightweight products
- > Leaves, flakes, granules and coarse powders
- > Herbs and spices
- > Nuts and pulses
- > Seeds and grains
- > Potato products, flakes and chips
- > Breakfast cereals



Autosort MC - A Series



Operation

The Autosort MC Range uses a rapid sequence of light in specific parts of the visible and infrared spectrum to obtain "more than colour" information from the product. Often even very similar colours can be differentiated and the infra-red capability improves 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.

The A Series is specifically configured for efficient sorting of difficult-to-handle, lightweight products such as green herbs or flakes. After being spread on a vibratory feeder, the product accelerates down the chute and is inspected by the 2048-pixel line-scan camera(s). Defects and contaminants are removed by short puffs of air from 64, 128 or 256 ejectors built into the chute. The unique shape of the chute and configuration of the ejectors ensure very high detection efficiency and low wastage of good product. The enclosed construction ensures virtually dust-free operation. Dust hoods, dust extraction connection and air conditioning options are available. A Series sorters may also be prepared for use in harsh environments.

Benefits

Natural materials contain impurities and less-than-perfect product. By removing discolouration and contamination, the quality and value of the finished product is increased, or lower grade raw material can be used. The customer will be rewarded with a consistent product and will come back with repeat orders. Also, food safety is enhanced by ensuring that foreign bodies and contamination are removed before it reaches the consumer. Added value all round!

Accept:



Reject:



Herbs - dried and frozen:



Parsley



Parsley



Chives



Chives

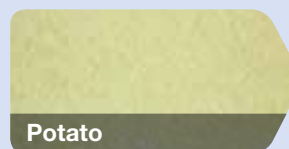


Cumin



Cumin

Dehydrated vegetables:



Potato



Potato



Leek



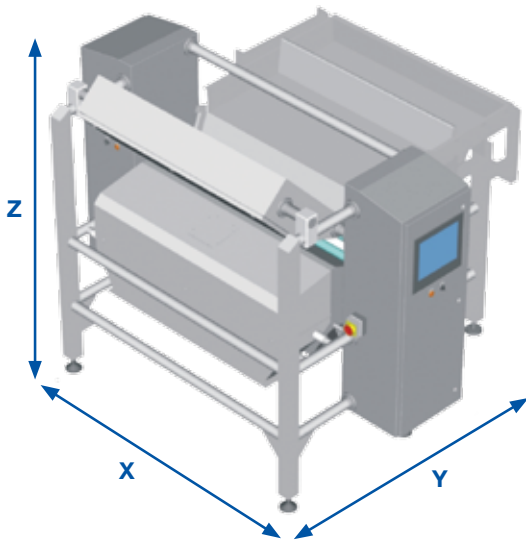
Leek



Onion



Onion



Model specifications

MODEL	A1	A1HR	A2	A2HR	A3
No. of Ejectors	64	128	128	256	256
Lighting	1 to 4 colours – R,G,B,IR				
Cameras	1	2	2	4	4
Inspection Width (mm)	672		1344		2016
Dimension X (m)	1.90		2.48		3.15
Dimension Y (m)	2.16		2.16		2.16
Dimension Z (m)	1.97		1.97		1.97
Sort Options	Single Pass, Two Pass, Reclaim				
	Monochromatic, Bichromatic or Multichromatic				

Capacities kg/hr

Potato Flake	750	1500	2250
Dried Parsley	125	250	375
Dehydrates	1000	2000	3000

Key Features

- > Small footprint - Autosort occupies ~1m line length
- > 3 sizes to suit most processors
- > High resolution inspection from 0.15mm - 0.5mm practical
- > Multi-chromatic illumination – red, green, blue, infrared or combination with long-life LEDs
- > Upward-blowing ejectors for maximum efficiency and minimum waste
- > Cameras well away from product – remain clear of dust
- > Self-cleaning rotating tube illuminators
- > Vibratory feeder, not a belt conveyor, no moving parts
- > Purpose-designed chute – delivers lightweight product gently and for correct presentation to cameras
- > User-friendly interface, large 12" colour touchscreen
- > Sorting parameters retained for immediate recall
- > Versatile sort criteria – 3 defect colours/shades and sizes
- > Sorting statistics reported – reject rates and quantity
- > Alarms – on board and external to management systems
- > Remote support via internet- training and maintenance at much reduced cost

Options

- > Reclaim two pass sorting
- > Freezer room (-20°C) operation
- > ATEX rating for dusty operation
- > External alarm connections
- > External data collection

Autosort A Series



Air conditioning option



Infeed vibrator (single or split options)

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Installations and Customer Comments

Radix offer 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 applications. We have had many accolades from satisfied customers, including:-



"We are very pleased with Radix' handling of this project – right through from ordering, performance guarantees, short time delivery, excellent hygienic execution and quick commissioning. With software screens in clear Danish, it is easy to operate with no surprises at all. Installation fulfils all guarantees - perfect! An order execution that unfortunately is only too rare nowadays."

"The potato flake sorter has been a great success. Whenever we have a need for a flake sorter, your company would be at the top of the list."

"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