

SENTINEL II

OPTICAL SORTER



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The Sentinel II optical sorter is designed to sort many food applications and is typically found in the tomato, peach and potato processing industry. Using the latest in illumination and detection technology, Sentinel II is a highly efficient and cost-effective sorting solution.



APPLICATIONS

- Tomatoes (cannery)
- Peach (cannery)
- Peeled potatoes
- Washed potatoes
- Many more ...

BENEFITS OF THE SENTINEL II

- + Attractive return on investment
- + High productivity
- + High efficiency
- + Controllable, consistent product quality
- + Open design
- + Yield optimization
- + Stable lighting/sensors
- + Robust and compact design
- + Low maintenance cost

EFFICIENT SORTING

Sentinel II's high resolution sensors and clear user interface allow the customer to set the sorter to reject a broad range of diseases and defects such as green, sunburn, blemishes, etc... while also removing foreign materials such as cotton stalks, corn cobs, pit, pit fragments, plastic, glass, animal matter, etc.

FLEXIBILITY

Sentinel II offers low, medium or high speed modes depending on the specific application sorting requirements. With three different sorter size offerings, Sentinel II covers a wide capacity range of 20-200 tons/hour making it an ideal solution for the seasonal and year round processors seeking off-color, defect and foreign material control.

“Sentinel II can be placed in different positions in the processing line”



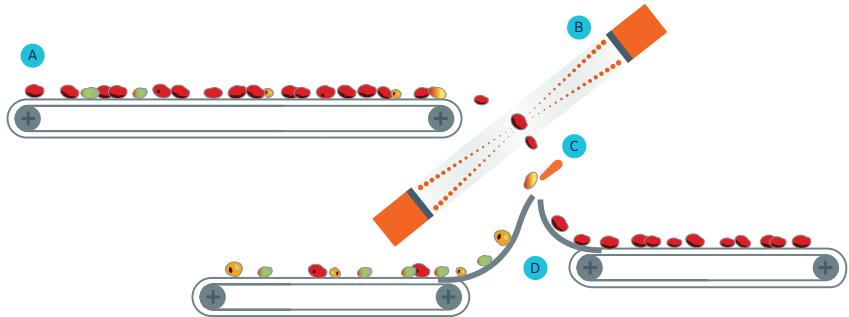
Sentinel II sorting pre-peeled tomatoes at high capacity.



Inspection of peaches on the Sentinel II.

WORKING PRINCIPLE

The produce is spread uniformly onto the infeed belt and is scanned by cameras on both sides. A few milliseconds later defects are rejected by intelligent finger ejectors, positioned at the end of the infeed belt, while the other produce continue their way along the sorting line.



(A) Infeed belt
(B) Full width NIR and color vision sensors

(C) Diversion fingers
(D) Accept / reject

1 RETURN ON INVESTMENT

The Sentinel II can be tailored to customer requirements, removing small blemishes and other discolorations efficiently. With different belt speeds, the machine offers the highest throughputs in the industry. These elements of adaptability make the Sentinel II a cost-effective option for processors of different types of produce and generate an attractive return on investment.

2 TECHNOLOGY

Customers can choose from a range of factory configurations, for example, a double or a single sided off-belt inspection system. The sorting technology meets individual process needs and delivers a higher quality produce with less manual grading and downtime. The new pulsed LED and sensor system provides excellent sorting stability and ensures low maintenance.

3 EASY TO USE

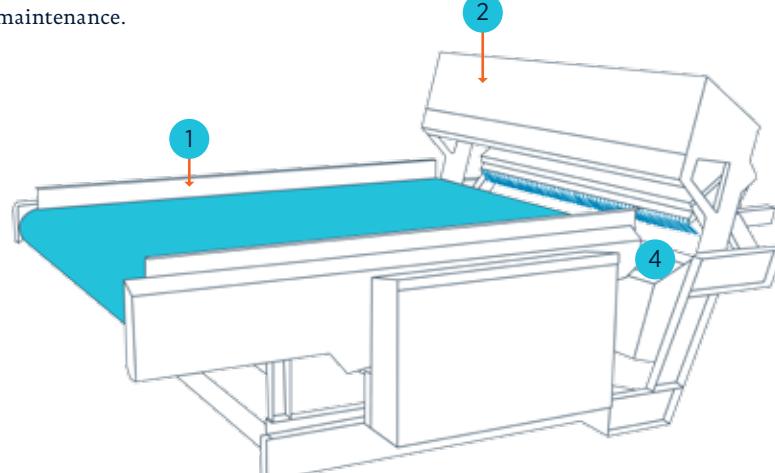
The machine has an intelligent user interface, permitting the operator to adjust the sorting quality. Scanning the produce and analyzing different defects, it allows access to data about the type of defects being identified. Furthermore, the user control system can offer diagnostics and maintenance information to ensure optimal sorting performance at all times.

4 OPEN DESIGN

The open design of the Sentinel II guarantees easy access for sanitation and maintenance.



3 Product scanning



ADVANCED SORTING CRITERIA

- Foreign material
- Subtle color
- Blemish
- Damage
- Size/ form

DIMENSIONS AND SPECIFICATIONS

Model	Dimensions				Utilities	
	Width	Length	Height	Infeed elevation	Power	Air
SENTINEL II 600	600 mm (24")	2748 mm (108")	1332 mm (53")	710 mm (28")	3 ph+N 0.3 kVA	100 psi 7 bar
SENTINEL II 1000	1000 mm (40")	2748 mm (108")	1332 mm (53")	710 mm (28")	3 ph+N 1.0 kVA	100 psi 7 bar
SENTINEL II 1600	1600 mm (64")	2748 mm (108")	1332 mm (53")	710 mm (28")	3 ph+N 2.0 kVA	100 psi 7 bar
SENTINEL II 2000	2000 mm (79")	2748 mm (108")	1332 mm (53")	710 mm (28")	3 ph+N 3.3 kVA	100 psi 7 bar



You are a Resource Revolutionary.

TOMRA Sorting Solutions Food unites two strong brands in the food industry to become the leading provider of sensor based sorting, peeling and processing technology for the fresh- and processed food industries.

Turning yield into usage, profits into progress, TOMRA transforms the way the world obtains, uses, and reuses its resources.

If you are interested in a free demonstration with your own product or if you need more information, please contact us directly.



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