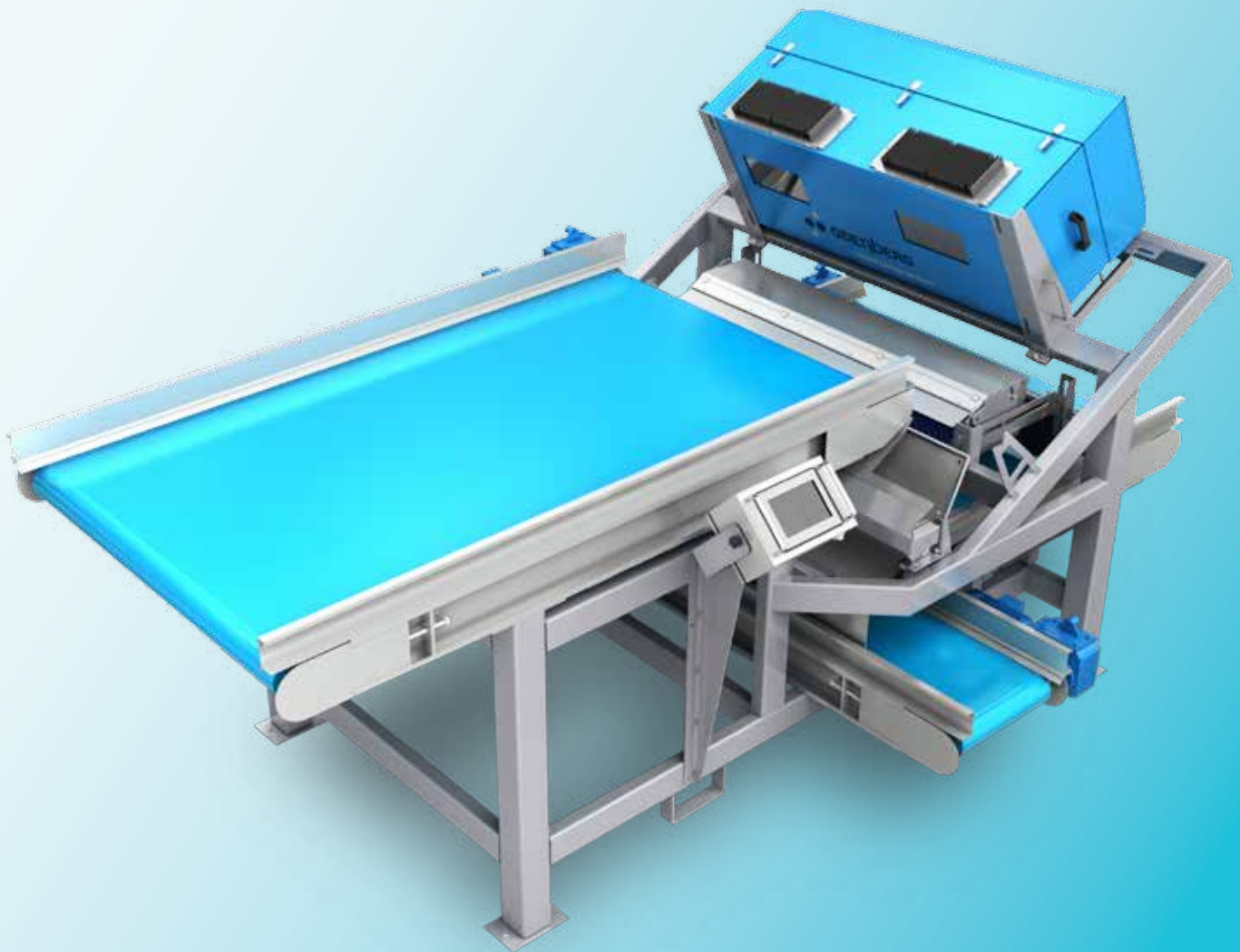


FPS

OPTICAL SORTER



FPS

OPTICAL SORTER

The FPS Field Potato sorter is a new sensor based sorter for unwashed potatoes removing soil clods, stones and foreign material. It is a high volume, high capacity, robust machine for growers and packers that is built to last. The FPS machine is ideal for difficult lifting and variable crop conditions.



DETECTION

The FPS uses unique multi-spectral NIR near infrared sensors to scan each individual item 'in flight'. This allows for an unobstructed view of the product with a high capacity sort. The sensors analyze for soil clods, stones, foreign material, and rot.

REJECTION

Gentle product handling is assured by design; the first accept grade gently passes smoothly through the machine while soil clods, stones, and foreign materials are sorted out by intelligent finger ejectors with high reliability and accuracy.

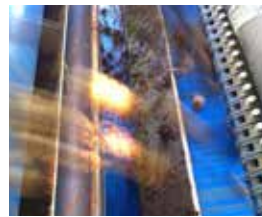
BENEFITS OF THE FPS

- +Significant labor reduction.
- +Reduced storage costs.
- +Increased yield.
- +Improved quality.
- +Increased throughput.
- +Easy to install.

FRESH/PACK APPLICATIONS

- +Unwashed potatoes:
 - +fresh pack potatoes
 - +processed potatoes
 - +seed potatoes

Gentle product handling is assured by design



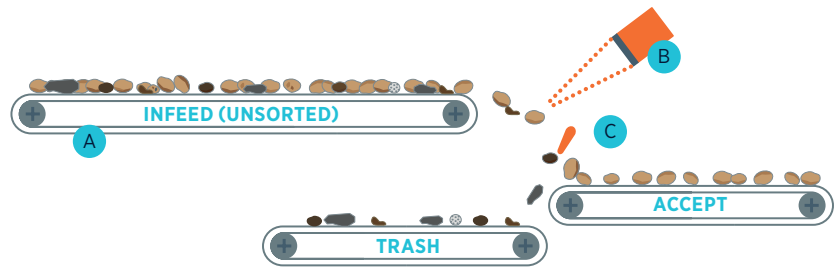
The FPS uses unique multi-spectral near infra red technology



Finger ejectors reject soil clods, stones, and foreign material of various sizes & weights

WORKING PRINCIPLE

The product is spread uniformly onto the infeed belt and scanned by a camera in each different inspection zone. A few milliseconds later one type of material will be rejected by intelligent finger ejectors, positioned at the end of the conveyor belt, while the good products continue along the sorting line.



- A** Infeed (unsorted)
- B** Full width NIR and Color Vision sensors
- C** Intelligent finger ejectors

1 HIGH CAPACITY & LOW MAINTENANCE

High capacity and low maintenance are guaranteed by a simple belt feed system. This keeps installation and running costs low and reduces the risk of stoppages.

2 FLEXIBILITY & GENTLE HANDLING

Flexibility and gentle handling are given by design. Accept product pass untouched through the sorter while intelligent low wear finger ejectors reject the rest.

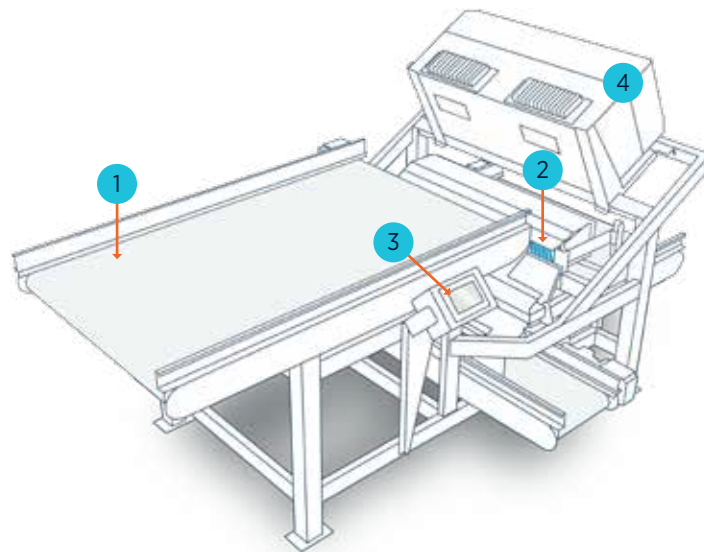
3 SIMPLE CONTROLS & FEEDBACK

Simple controls and feedback are provided by the robust touch screen. This makes it easy to call up set sorting criteria and to adjust the parameters to get the result you need.







4 CONSISTENT LONG LIFE ACCURACY

Consistent long life accuracy is guaranteed with the strong rugged construction with tough and robust electronics and rejector. The 'off' belt view guarantees a clear view and low maintenance.



ADVANCED SORTING PARAMETERS

-  Soil Clod
-  Stones
-  Foreign Material
-  Rotten Potatoes

DIMENSIONS AND SPECIFICATIONS**

Model	Dimensions				Utilities			Capacity
	Width	Length	Height	Infeed Belt	Power	Air	Water (max)*	Max Capacity (kg/h)
FPS 1200	1855 mm (73")	3510 mm (138")	1880 mm (74")	1200 mm (47")	4 kVA	75 l/min	0-0.15 l/min	15 - 35,000
FPS 1800	2455 mm (97")	3910 mm (154")	1880 mm (74")	1800 mm (74")	5 kVA	120 l/min	0-0.15 l/min	22 - 50,000
FPS 2400	3055 mm (120")	4910 mm (193")	1880 mm (74")	2400 mm (94")	6 kVA	150 l/min	0-0.15 l/min	30 - 70,000

*Only required in special cases

**Information shown for reference and may change depending on the application



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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