

ODENBERG TITAN II

Optical Sorting



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The ODENBERG Titan II optical sorter is a performance machine to grade/sort on quality, size and for safety. It is a low-cost ownership machine for the packer and processor, built to last. Proven worldwide with hundreds of installations, the Titan II is the latest upgrade to the Titan, boosting power and features.



DETECTION

The ODENBERG titanII uses a top and bottom array of Color & NIR optical sensors to scan the surface of individual item 'in flight'. This allows for an unobstructed view of each side of the product with a high capacity sort. The color vision sensors analyse for size, shape and color etc. The NIR sensors (Near Infra Red) analyse for defects which are difficult to see with the human eye such as soft rots etc.

REJECTION

Gentle product handling is assured by design; the 1st grade produce gently pass through the machine while 2nd & 3rd grade are directed into individual streams by intelligent finger ejectors with precision and accuracy. More grading options are available.

BENEFITS OF THE TITAN II

- +Reduces labor requirements up to 70%.
- +Faster pack, increased throughput up to 20%.
- +Increased yield.
- +Consistent quality.
- +Easy to install.

PROCESSOR APPLICATIONS

- +Potato (skin on & peeled)
- +Carrot
- +Peach (halves)
- +Pear (halves)
- +Tomato
- +Green Bean
- +Citrus (Oranges, Mandarines, etc)
- +Onion
- +Beet

FRESH/PACK APPLICATIONS

- +Potato (salad / small)
- +Potato (main crop & large)
- +Potato Russet
- +Carrot
- +Pickles, Cucumbers, Gerkins
- +Onion
- +Tomato
- +Sweet Potato

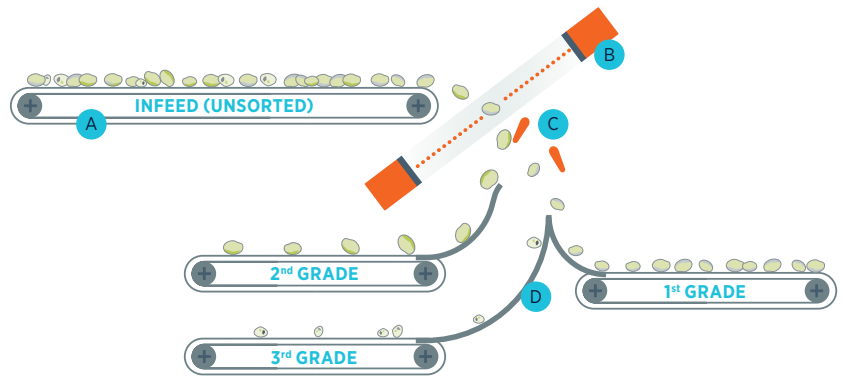
Gentle product handling is assured by design



The TITAN II's NIR optical sensors sort a potato product for shipment.

WORKING PRINCIPLE

The product is spread uniformly onto the infeed belt and will be scanned by cameras on both sides. A few milliseconds later one type of material will be 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 (unsorted)
- B Full width NIR and Colour Vision sensors (both sides viewed)

- C Intelligent finger ejectors
- D Gentle handling convey chutes (optional)

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 passes smoothly through the sorter while intelligent low wear ejectors manage additional grades.

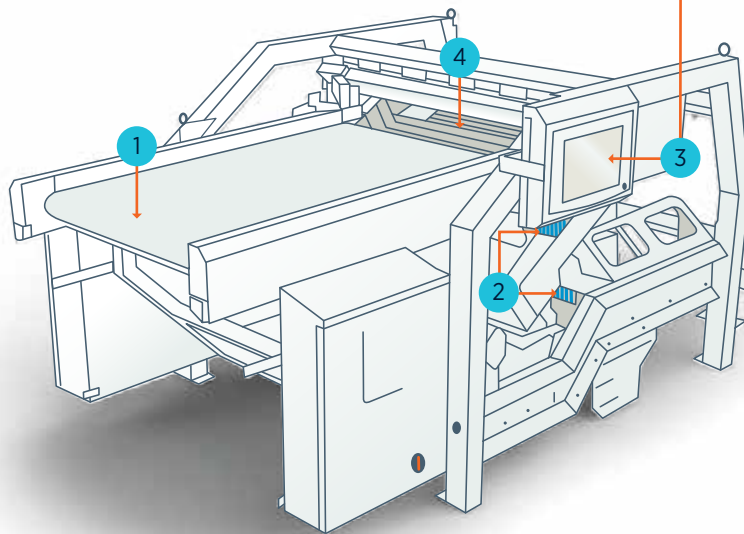
3 QUALITY CONTROL & FEEDBACK

Quality control and feedback are secured by the intuitive touch screen. Dashboard information on sort and line performance gives a highly detailed view of efficiency with data/rends on flow, grades/reject rate, etc.



4 CONSISTENT LONG LIFE ACCURACY

Consistent long life accuracy even on subtle color defects is provided by LED sensor technology. The 'off-belt' view guarantees a clear view and low maintenance.



ADVANCED SORTING PARAMETERS

- Size / Geometry
- Misshape
- Color Defect
- Defect
- Blemishes
- Damage
- Foreign Material

DIMENSIONS AND SPECIFICATIONS

Model	Dimensions				Utilities			Capacity
	Width	Length	Height	Infeed Belt	Power	Air	Water (max)	Max Capacity (kg/hr)
TITAN II 162.x	1239 mm (49")	2900 mm (114")	1500 mm (59")	400 mm (16")	0.6 kVA	50 l/min	0.8 l/min	2.500 - 10,000
TITAN II 242.x	1352 mm (53")	2900 mm (114")	1500 mm (59")	600 mm (24")	1.0 kVA	70 l/min	1.2 l/min	5 - 17,000
TITAN II 402.x	1896 mm (75")	2900 mm (114")	1500 mm (59")	1000 mm (40")	2.0 kVA	120 l/min	2.0 l/min	8 - 30,000
TITAN II 602.x	2833 mm (112")	4303 mm (169")	1500 mm (59")	1500 mm (60")	3.3 kVA	180 l/min	2.5 l/min	12 - 45,000

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



You are a Resource Revolutionary.

ODENBERG and BEST work together under the umbrella of TOMRA Sorting Solutions as leading providers of optical sorting 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.



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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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