

BLIZZARD

OPTICAL SORTER



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The Blizzard free-fall pulsed LED camera sorting machine is the most ideal and cost effective optical sorting solution for the frozen fruit and vegetable processing industry. The Blizzard provides continuous food inspection to ensure food safety and customer satisfaction at all times by removing unwanted foreign material, discolorations and misshapen product, with maximum yield!



DETECTION

The Blizzard is a small footprint free-fall sorting machine that easily fits in processing lines and was specifically designed to optimally fit the output of IQF tunnels or packaging lines. Pulsed LEDs with different wavelengths and specifically designed sensors ensure a reliable detection of color, shape and structural differences. This modular sorter can be designed according your specific needs.

REJECTION

State-of-the-art air ejectors reject unwanted material with millisecond precision, allowing the good product to continue for further processing. The small pitch system ensures an efficient removal of all defects at high capacity, providing a high quality end product while reducing labor costs and good product loss in order to increase yield.

BENEFITS OF THE BLIZZARD

- + User-friendly
- + Low maintenance
- + Calibration free
- + High capacity
- + Optimised sorting results
- + Increased uptime, quality, throughput & yield
- + Designed to fit the output of IQF tunnels and packaging lines

FOOD SORTING APPLICATIONS

IQF Vegetables:

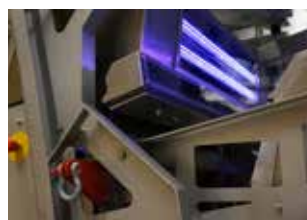
- +IQF peas
- +IQF corn
- +IQF green beans
- +IQF carrots
- +IQF bell peppers
- +IQF broccoli
- +IQF cauliflower
- +IQF celery
- +IQF green leek
- +IQF lima beans
- +IQF mushrooms
- +IQF spinach
- +IQF zucchini
- +IQF mixed vegetables

IQF Fruit:

- +IQF raspberries
- +IQF blueberries
- +IQF blackberries
- +IQF redberries
- +IQF apples
- +IQF cranberries
- +IQF strawberries
- +IQF cherries

And many many more ...

Advanced inspection technology guarantees maximum performance on FM removal



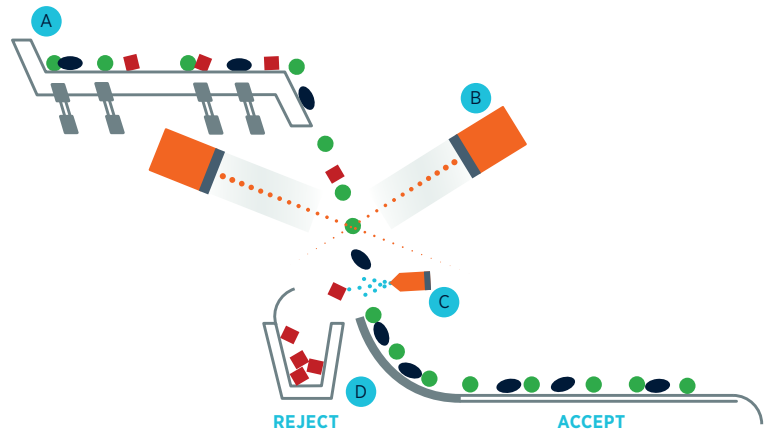
The combination of camera and pulsed LED technology ensures a stable detection and rejection of unwanted material.

WORKING PRINCIPLE

An infeed shaker spreads the product uniformly over the free-fall chute. The produce is guided towards the inspection zone, where it is scanned by different pulsed LEDs and a combination of cameras.

A few milliseconds later the unwanted material is hit by a precise, powerful burst of air sending the defects into the rejection zone while the good product continues its natural free-fall.

- A** Infeed shaker
- B** Pulsed LEDs and cameras
- C** Air guns
- D** Accept/ reject



1 INFEED

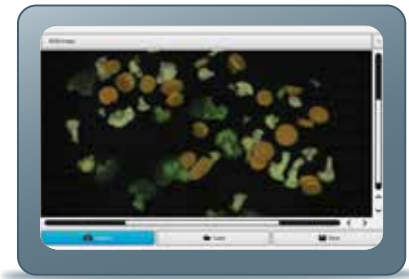
High-frequency shakers installed on the machine frame minimize the influence of vibrations and make the sorter ultra compact. Either a shaker or a conveyor belt can be placed in front of the machine's infeed shaker.

2 OPEN DESIGN

The Blizzard's open design facilitates the machine's sanitation and maximizes its ease of use. The electrical cabinet is placed at the rear end of the machine, again simplifying sanitation by making the machine easily accessible.

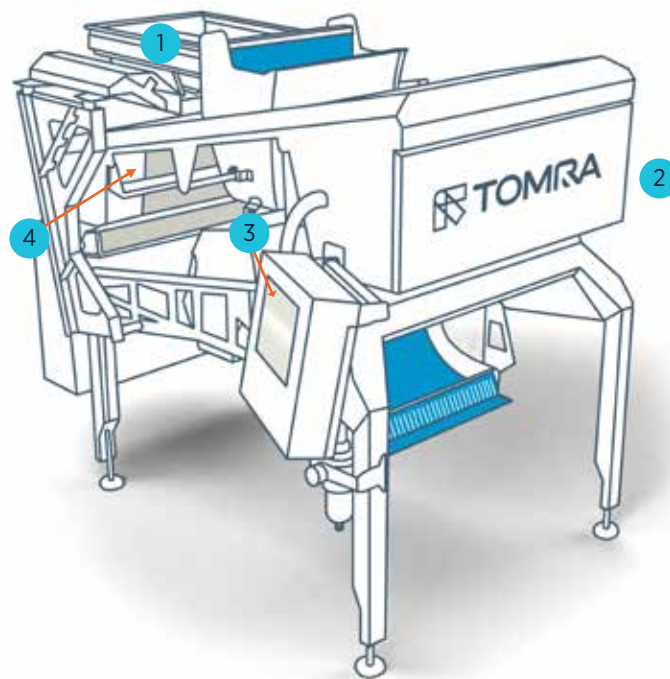
3 TOUCH SCREEN

Quality control and feedback are ensured by the intuitive Graphical User Interface (GUI) and touch screen. Thanks to the PAX system, your personnel or TOMRA's service engineers can also access the settings from anywhere in the world.



4 PULSED LEDs

LEDs have a long life giving a consistent and reliable output, making the lighting system of the sorter virtually maintenance and calibration free. Also in the cold environments, the pulsed LEDs have the advantage of generating little or no heat.



ADVANCED FOOD SORTING CRITERIA

- Detailed size / geometry
- Detailed shape
- Color
- Subtle defects
- Biological characteristics
- Foreign material

DIMENSIONS AND SPECIFICATIONS

Model	Dimensions				Utilities	
	Width	Length	Height	Infeed Elevation	Power	Air
BLIZZARD	2161 mm (85,1")	2932 mm (115,4")	1966 mm (78,6")	1905 mm (75")	1ph: 1,2kVA + 3ph: 2kVA	6-7 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.



TOMRA Sorting Food EMEA

Research Park Haasrode 1622
Romeinse straat, 20
3001 Leuven
BELGIUM

Tel: +32 16 396 396
Fax: +32 16 396 390
W: tomra.com/food
E: food-sorting@tomra.com

TOMRA Sorting Food AMERICAS

875 Embarcadero Drive
West Sacramento
California 95605
U.S.A.

Tel: +1 916 388 3900
Fax: +1 916 388 3901
W: tomra.com/food
E: food-sorting-us@tomra.com

TOMRA Sorting Food ASIA

1A/E, Rihua Building, No.8, Xinfeng 2nd Road
Huli District, Xiamen, Fujian, P.R.C
361006 Xiamen
CHINA

Tel: +86 571 8893 5895
Fax: +86 571 8893 5897
W: tomra.com/food
E: food-sorting-asia@tomra.com