

# BLIZZARD

Optical Sorting



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



We sort a variety of IQF fruit and vegetables

## DETECTION

The Blizzard is a small footprint free-fall sorter that easily fits in processing lines and was specifically designed to optimally fit the output of IQF tunnels. 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 to the customers' specific needs.

## REJECTION

State-of-the-art air ejectors reject defects 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 increasing good product handling and yield.

## BENEFITS OF THE BLIZZARD

- +User-friendly
- +Low maintenance
- +Calibration free
- +High capacity
- +Optimised sorting results
- +Increased uptime, quality, throughput & yield

## APPLICATIONS

### Vegetables:

- +IQF bell peppers
- +IQF broccoli
- +IQF carrots
- +IQF cauliflower
- +IQF celery
- +IQF corn
- +IQF green beans
- +IQF green leek

### Fruit:

- +IQF apples
- +IQF blackberries
- +IQF blueberries
- +IQF cranberries

- +IQF lima beans
- +IQF mixed vegetables
- +IQF mono vegetables
- +IQF mushrooms
- +IQF peas
- +IQF spinach
- +IQF zucchini

- +IQF raspberries
- +IQF redberries
- +IQF strawberries
- +IQF cherries

And many many more ..

## Advanced technology guarantees qualitative output

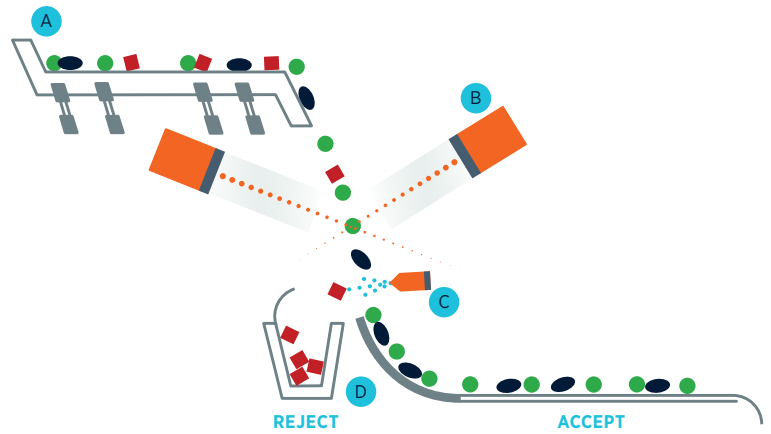


The combination of camera and pulsed LED technology ensures a stable detection and rejection of defects.

## 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 a specific set of different pulsed LEDs and a combination of cameras. A few milliseconds later the defects are hit by a precise, powerful burst of air sending them into the rejection zone while the good product continues its natural free-fall.

- A** Infeed shaker (unsorted)
- B** Cameras
- C** Precise air guns
- D** Accept/ reject



### 1 INFEEED

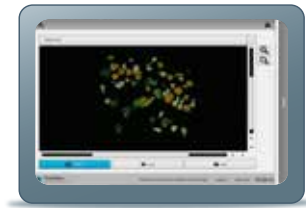
High-frequency shakers installed on the machine frame minimize the influence of vibrations and make the machine ultra compact. Either a shaker or a conveyor belt can be placed in front of the machine's electromagnetic infeed shaker.

### 2 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 IQF produce sorting field the pulsed LEDs have the advantage of generating little or no heat.

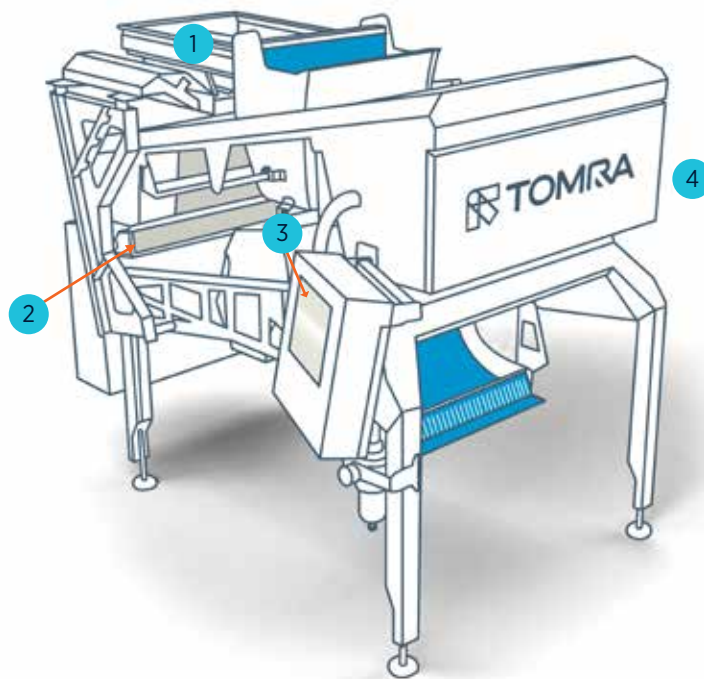
### 3 GUI

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



### 4 OPEN DESIGN

The Blizzard's open design not only facilitates the machine's sanitation but also 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.



## ADVANCED SORTING PARAMETERS & TECHNOLOGY

- Detailed Size / Geometry
- Detailed Shape
- Subtle Color
- Subtle Defect
- Biological Characteristics
- Data
- Subtle Blemishes
- Damage
- Foreign Material
- Advanced Foreign Material Detection

## DIMENSIONS AND SPECIFICATIONS

Model	Dimensions				Utilities	
	Width	Length	Height	Infeed Elevation	Power	Air
<b>BLIZZARD</b>	1870 mm (73,62")	2932 mm (115,43")	1933 mm (76,10")	1855 mm (73,03")	1,2 kVA (230V) 2 kVA (400V)	6 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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for more information



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