

BEST HELIUS™

Optical Sorting



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The Helius™ free-fall sorter provides the optical sorting solution to address the constantly increasing demands for high-quality products, ensuring consistent food quality and customer satisfaction with products free of unwanted discolorations, foreign material, ...



DETECTION

With up to 12 individual laser signals, the Helius™ detects all color, structure defects from a stream of good product.

Helius™ is also able to sort based on biological characteristics, invisible to the human eye. Combined with BEST's patented FLUO™ technology, the Helius™ detects the slightest shades of chlorophyll to create an even better contrast between good products and defects.

Other technologies available are SWIR, Detox™ for aflatoxin and AFMD.

REJECTION

After the inspection of the produces, the unwanted material is ejected via a front or rear ejection system. The manifold position before or behind the produces provides higher rejection accuracy, efficiency and more consistent sorting. The Helius™ sorter can also be equipped with a 3-way sorting system for greater flexibility, even lower false reject and improved yield.

BENEFITS OF THE HELIUS™

- +Maximum efficiency in all conditions
- +Calibration free
- +Small footprint
- +Upgradeable
- +Self-learning (Flex & Smart Sort technology)
- +Low on maintenance
- +Easy to operate

APPLICATIONS

Dried fruit:

- +Raisins
- +Figs
- +Prunes
- +Dried cherries

Vegetables:

- +Carrots
- +Peas
- +Frozen corn
- +Frozen zucchini
- +Dry beans
- +Green beans
- +Peppers
- +Baby leaf spinach

Nuts:

- +Almonds, cashews, hazelnuts
- +Peanuts, pecans, pistachios
- +Sunflower, sesam seeds
- +Walnuts, pine nuts, brazil nuts,...

IQF vegetables and fruit:

- +IQF Blackberries,
- +IQF Broccoli
- +IQF Mixed vegetables
- +IQF Strawberries

Fruit:

- +Fresh blueberries, cranberries
- +Fresh & frozen cherries

And many many more ..

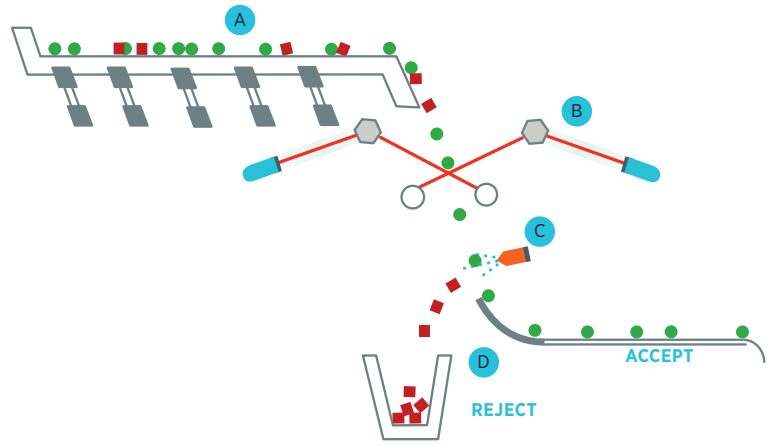
Technology allowing to see the invisible



Inspection of peanuts in free-fall.

WORKING PRINCIPLE

The feed shaker spreads the products uniformly over the free-fall chute. The product falls down towards the inspection zone, where it is scanned by the lasers. 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 Lasers
- C Precise air guns
- D Accept - Reject

1 EJECTOR MANIFOLD

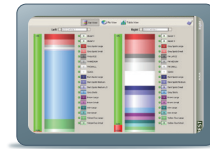
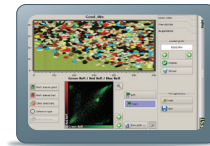
The Helius™ sorter is equipped with new ejector valves exclusively designed for BEST. The state-of-the-air guns reject any defect within milliseconds.

2 UPGRADEABLE AND MODULAR

Thanks to its symmetrical, mechanical concept, the Helius™ fits in any production line using minimal space. The sorter is not only retrofit-able in case of future lay-out changes but can also be upgraded.

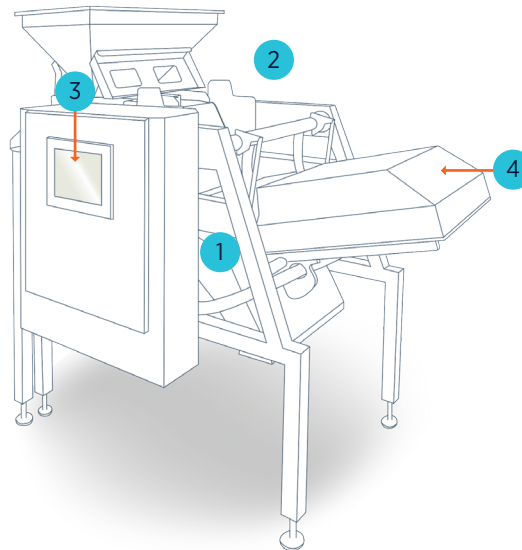
3 SMART SORT

The Smart Sort module helps the operator setting parameters by analyzing the incoming product. The software automatically provides a set-up in a simple and timely manner. Advanced artificial intelligence makes the machine self-learning and defines good products and defects.



4 LASER

The Helius™ offers different types of laser technologies, such as FLUO™, SWIR, AFMD and Detox™ lasers, that fit the specific needs of each customer.



ADVANCED SORTING PARAMETERS & TECHNOLOGY

- Subtle Color
- Subtle Defect
- SWIR
- Biological Characteristics
- Subtle Blemishes
- Damage
- Foreign Material
- Advanced Foreign Material Detection
- Detox™
- FLUO™

DIMENSIONS AND SPECIFICATIONS

Model	Dimensions				Utilities		
	Width	Length	Height	Infeed Elevation	Power	Air	Water (max)
HELIUS™ 640	2133 mm (84")	3395 mm (133,7")	2408 mm (94,8")	2080 mm (81,9")	5 kVA	6 bar	3 bar
HELIUS™ P 640	2542 mm (100")	2784 mm (109,6")	2483 mm (97,7")	2483 mm (97,9")	3.3 kVA	6 bar	3 bar
HELIUS™ 1200	2774 mm (109,2")	4197 mm (165,2")	2408 mm (94,8")	2080 mm (81,9")	3.3 kVA	6 bar	3 bar
HELIUS™ P 1200	2987 mm (117,6")	2995 mm (117,9")	2483 mm (97,7")	2483 mm (97,7")	3.3 kVA	6 bar	3 bar
HELIUS™ 1600	3198 mm (125,9")	5481 mm (215,8")	2408 mm (94,8")	2179 mm (85,8")	3.3 kVA	70 l/min	1.2 l/min



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.



Scan QR-Code with reader for more information on the Helius™.

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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