



THE OPTIMAL SORTING SOLUTION FOR FRAGILE FRUITS

A unique combination of innovative detection and gentle handling for your precious products











The MAGNUS features a low-speed string conveyor system with minimal drop at the exit to reduce mechanical damage to fragile products during inspection and sorting.

This makes MAGNUS the gentlest optical sorter for small, delicate items without compromising performance and quality.



HIGH-RESOLUTION CAMERA INSPECTION

With its advanced high-resolution color camera system, the MAGNUS accurately detects deviations in color, size, and shape.

MULTISPECTRAL LASER DETECTION

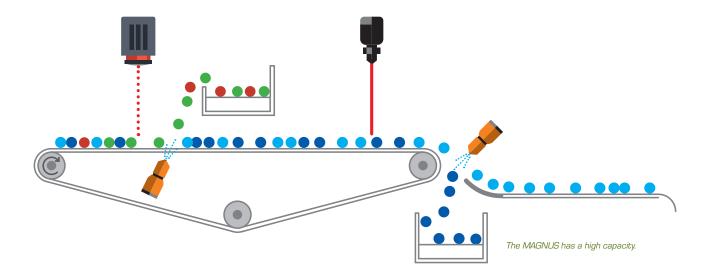
To further improve sorting accuracy, the MAGNUS can be equipped with our latest laser technology. By combining multiple lasers with specific wavelengths, the MAGNUS easily identifies structure and biological characteristics, ideal for detecting soft and shriveled fruits and removing foreign materials such as wood, plastic, stone, and glass.

SUPERIOR RESOLUTION

The MAGNUS boasts an unmatched laser scanning speed of up to 4000 scans per second, achieving an optical resolution of 0.3 mm. This enables it to accurately detect stems.

MULTIDIMENSIONAL IMAGE PROCESSING

The different camera and laser signals are processed simultaneously, so that defects and foreign objects are detected more precisely, and the risk of false rejections is reduced. Millions of subtle variations in color and structure can be identified with pinpoint precision. The result: an excellent good-to-bad ratio that leaves other systems far behind.

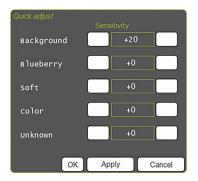


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SORTING SMARTER
WASTING LESS
SHAPING TOMORROW

ADVANCED AI

The MAGNUS differentiates between multiple products and defects, processing them as needed. Its advanced Al sorting software learns to identify these products and defects based on images and autonomously decides which ones to remove during the sorting process. This frees your operators from tedious tasks. But if they do find errors, your operators can easily fine-tune the algorithm by classifying additional images or using the Quick Adjust feature, which makes it child's play to adapt the detection sensitivity.



With **Quick adjust**, adjusting the detection sensitivity is child's play.

LOW-SPEED STRING CONVEYOR

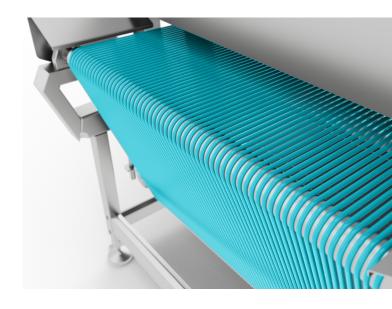
The MAGNUS features a low-speed string conveyor, also known as an O-ring belt, with minimal drop at the exit, which greatly reduces mechanical damage to fragile products during inspection and sorting without compromising defect removal accuracy.

PRECISION EJECTION SYSTEM

The MAGNUS offers both a single and dual rejection system to separate color defects from soft or rotten fruits and foreign objects. In dual rejection or ThreeWay mode, the MAGNUS ejects soft or rotten fruits downwards, ensuring that their ejection path is separate from that of good product to prevent contamination by juice.

ROBUST AND MODULAR

The MAGNUS base frame is designed to meet the highest hygienic standards. It is also modular, so not only can the MAGNUS be easily configured to meet your needs, but it can also be upgraded with the latest technology once installed. And like all of our sorters, it is equipped with the CUMULUS operating and sorting software - guaranteed integrability.



THE MAGNUS IN A NUTSHELL

- · Gentle handling of fragile fruits
- Unmatched detection accuracy
- · Excellent good to bad ratio
- Manual labor savings
- Extremely maintenance & user friendly
- Flexible product changeover
- · Sanitary design compliant
- · Guaranteed upgradability & integrability
- 24/7 (remote) service

THE MAGNUS
CAN BE USED FOR
A VARIETY OF
DIFFERENT
APPLICATIONS,
ESPECIALLY FRESH
OR FROZEN FRUITS





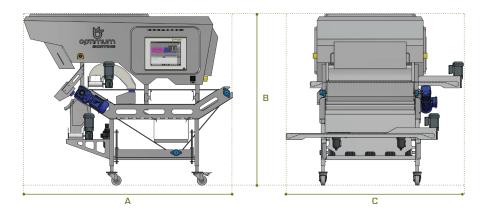






INTERESTED IN A FREE DEMO?

Contact our sales team to explore the possibilities for your application and visit one of our demo centers for a comprehensive test on your own product. This way, you'll see exactly what our machines can do for you.





[mm]	A length	B height	C width
1000	2645	2170	1410
	[104 in]	[85.5 in]	[55.5 in]

The dimensions are indicative. Detailed drawings are available on request

standard O option		MAGNUS	
Type		1000	
Machine type		O-ring belt sorter	
Inspection width		1000 mm (40 in)	
Network		Ethernet	
Software	Cumulus		
Camera	RGB		
Laser	IR, Fluo, UV	0	
	Class	3R	
Detection modes	Color		
	Shape		
	Structure		
	Fluorescence	0	
Lighting	High-frequency fluorescent tubes		
	LED (white)	0	
Sorting modus	TwoWay		
	ThreeWay	0	
Reject valves	Pitch 15 mm (5/8 in)	64	
Noise level		+/- 75 dB(A) using reject air valves	
Electrical supply	Voltage	230 VAC	
	Phases	2P+N	
	Frequency	50 Hz / 60 Hz	
	Power	5 kW	
Compressed air	Quality	ISO norm 8573-1:2010	
	Class	1.4.2 Norm	
	Filter	0.1 μ - Dry	
	Air connection	1"	
	Incoming pressure	2-5 bar • 29-72.5 PSI	
	Average consumption	1200 L/min	
Frame	Material	Stainless steel 304	
	Protection class	IP65	
	Dimensions	See drawing	
Cooling	Air to air	•	
N2 generator		0	
Reject system	Conveyor belt	0	









