

MAG NUS



THE OPTIMAL SORTING SOLUTION FOR FRAGILE FRUITS

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





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

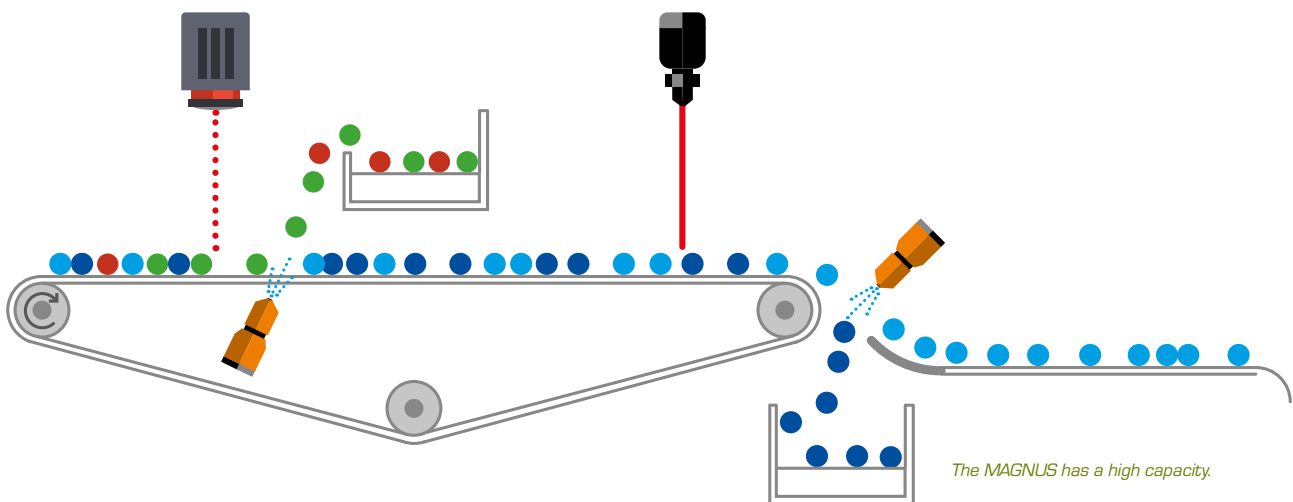
The MAGNUS boasts an unmatched laser scanning speed of up to 4000 scans per second, achieving an optical resolution of 0.3 mm. This enables it to accurately detect stems.

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.

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.

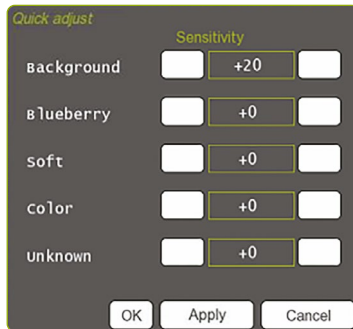


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**SORTING SMARTER
WASTING LESS
SHAPING TOMORROW**

ADVANCED AI

The MAGNUS differentiates between multiple products and defects, processing them as needed. Its advanced AI 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.



Quick adjust

	Sensitivity	
Background		+20
Blueberry		+0
Soft		+0
color		+0
unknown		+0

OK Apply Cancel

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

LOW-SPEED STRING CONVEYOR

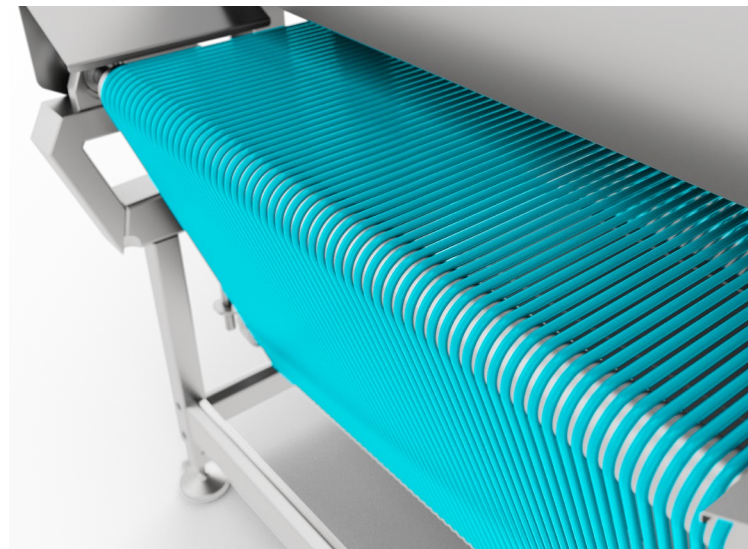
The MAGNUS features a low-speed string conveyor, also known as an O-ring belt, with minimal drop at the exit, which greatly reduces mechanical damage to fragile products during inspection and sorting without compromising defect removal accuracy.

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

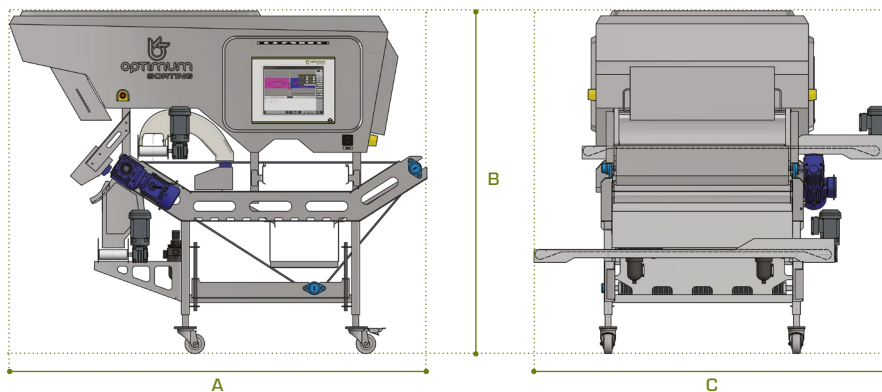
**THE MAGNUS
CAN BE USED FOR
A VARIETY OF
DIFFERENT
APPLICATIONS,
ESPECIALLY FRESH
OR FROZEN FRUITS**



SCAN
OR CLICK

INTERESTED IN A FREE DEMO?

Get in touch with the sales team of Optimum Sorting and have your products tested at one of our demo centers around the globe. Experience firsthand the benefits our machines can bring to your business!



magnus

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

The dimensions are indicative.
Detailed drawings are available on request

■ standard ○ option

		MAGNUS
Type		1000
Machine type		O-ring belt sorter
Inspection width		1000 mm [40 in]
Network		Ethernet
Software	Cumulus	■
Camera	RGB	■
	IR, Fluo, UV	○
Laser	Class	3R
	Color	■
	Shape	■
	Structure	■
	Fluorescence	○
	High-frequency fluorescent tubes	■
	LED (white)	○
	TwoWay	■
	ThreeWay	○
Reject valves	Pitch 15 mm [5/8 in]	64
Noise level		+/- 75 dB(A) using reject air valves
	Voltage	230 VAC
	Phases	2P+N
	Frequency	50 Hz / 60 Hz
	Power	5 kW
	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
	Material	Stainless steel 304
	Protection class	IP65
	Dimensions	See drawing
Cooling	Air to air	■
N2 generator		○
Reject system	Conveyor belt	○

optimum
SORTING

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More info?

