



SEA.XL

OPTICAL SORTING



XL PERFORMANCE AI PRECISION

SEA.XL is a revolutionary solution for the nuts industry, offering superior precision and efficiency. Designed to identify even the smallest elements, it ensures every batch meets the highest quality standards.



With state-of-the-art vision technology and AI-powered control, SEA.XL optical sorter streamlines the sorting process for almonds, hazelnuts, pistachios, walnuts and more. Maximize productivity, remove impurities, and achieve flawless results across all nut types.

SEA.XL





Excel in Nuts Processing with SEA.XL

Engineered specifically for the nuts industry, SEA.XL expertly handles a wide range of nut varieties. Exceptional precision in removing impurities to achieve consistently high quality standards.

By integrating the SEA.XL, nut processors can consistently achieve market-leading results with reduced costs and improved quality.

MAXIMIZE THE QUALITY OF YOUR NUTS

- Detect stones and any kind of FE (foreign materials) with ease.
- Deliver uniform output for superior product presentation.
- Reduce rework by ensuring first-pass accuracy.
- Improve profitability by minimizing reject and maximizing yield.

AN EXTRAORDINARY VISION SYSTEM

SEA.XL is equipped with next-generation vision technology, making it crucial for the nuts industry. Utilizing high definition RGB full-color cameras and hyperspectral infrared device, it identifies morphological imperfections, shells and contaminants with extraordinary precision.

PRECISION THAT IMPROVES QUALITY

Whether you are processing mouldy hazelnuts, damaged almonds or rotten pistachios, the SEA.XL guarantees a flawless final product, consistently meeting market demands. With highly flexible customizable recipes, this enables precise, tailored setups for each specific nut type, ensuring perfect processing outcomes.





XL Performance



XL Quality

Consistent, high-grade outputs that meet rigorous industry standards for the highest food safety.

XL Productivity

Combined vision system that ensures the fastest scan rate maximizing the output.

XL Technology

Equipped with multi-angle RGB and Hyperspectral infrared cameras to capture every detail with extreme precision.

XL Efficiency

Accurate and precise removal of unwanted materials while minimizing false-positive, reject of good product and resource consumption.



AI Precision

THE INTELLIGENT SOFTWARE TO EXCEL IN YOUR BUSINESS

The SEA.XL's Human-Machine Interface (HMI) ensures operators have full control with ease.

- Interactive 21.5-Inch Touchscreen: Simplifies navigation and sorting adjustments.
- Multi-Language Support: Designed to speak your language.
- Custom Views and Reports: Organize your interface for real-time monitoring and enhanced productivity.



THE ARTIFICIAL INTELLIGENCE FOR OPTICAL SORTING

BRAIN™ is the AI powered software taking accuracy and efficiency to a new level. With BRAIN™, you can create the most complex recipes in a flash. So you can achieve your highest sorting performance.

WHAT BRAIN CAN DO FOR YOU

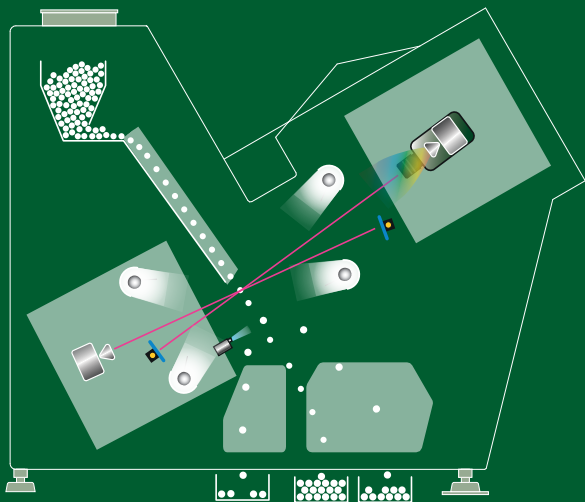
- **Unmatched Sorting Accuracy**
Revolutionize precision with BRAIN™'s advanced AI algorithms for unparalleled sorting accuracy.
- **Enhanced Efficiency**
Boost productivity with BRAIN™'s high-speed parameters setting, minimizing human trials.
- **Cost and time saving**
Achieve significant cost and time reductions by avoiding manual errors and optimizing sorting operations.
- **Ongoing Support**
Count on our dedicated support team for continuous assistance and future-proof upgrades.

BRAIN™ is an integrated feature on our SEA.XL sorters.
EXTREME PERFORMANCE. MADE EASY.

Worldwide Service & Lab Testing.

Cimbria offers global support services to help your business thrive. From pre-purchase lab testing to post-installation support, we are with you every step of the way.

- Global lab facilities for customizable trials.
- Training programs for seamless integration.
- Remote support and troubleshooting from dedicated specialists.



Configurations.

- Standard configuration: RGB full-colour camera with integrated hyperspectral SWIR camera
- Optional configuration: Multiple vision packages SWIR/ INGAAS and UV
- From 2 to 6 chutes
- Fast ejectors
- Display 21,5 inches
- Available configurations for multiple passes and reverse sorting
- Vibrating plates equipped with optional aspiration system

PUT US TO THE TEST.
Send us your toughest sorting challenge, and we will craft the perfect solution!



SCAN YOUR QR
CODE TO SET UP
YOUR TRIAL

Maximum Flexibility.

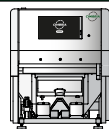
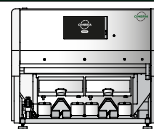



PLEASE DOWNLOAD THE DATA
SHEET FOR MORE TECHNICAL
INFORMATION.

SEA.XL can be configured to meet your needs. Multiple feeding chute configurations provide maximum versatility, while a gentle processing prevents breakage. The versatile chute allows you to operate a variety of products within the same system.

Our global team of experts is available for support, always.

TECHNICAL DATA

			SEA.XL 2	SEA.XL 4	SEA.XL 6
					
Dimensions	Length	mm / inch	1330 / 52,36	1960 / 77	2590 / 102
	Width	mm / inch	1985 / 78,15		
	Height	mm / inch	1720 / 67,72		
Weight		kg	1100	1550	1650
		lbs	2425	3418	3640
Compressed air consumption (max value at 6 bar)		l/min	700	1400	2100
		m³/h	42	84	126
Power supply/frequency		V/Hz	230V - 50/60 Hz (L + N + PE)		
Power absorption (A) Power consumption (Kw)		A - Kw	6,2 - 1,4	9,7 - 2,2	13,3 - 3,0

CERTIFICATIONS

- CE conformity for safety and quality assurance.
 - Compliance with UL and CSA standards for global applicability.
- 2006/42/EC on machinery safety
 - 2014/30/EC on electromagnetic compatibility

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