



SEA.XL

OPTICAL SORTING



An expert
at your side.



XL PERFORMANCE AI PRECISION

SEA.XL is a revolutionary solution for the recycling 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 streamlines the sorting process for PET, HDPE, PP, PS, and more. Maximize productivity, remove impurities, and achieve flawless results across all plastics types.

SEA.XL



EXCEL in Plastics Recycling with SEA.XL

Engineered specifically for the recycling industry, SEA.XL expertly handles a wide range of polymers. Exceptional precision in removing impurities to achieve consistently high quality standards. By integrating the SEA.XL, recyclers can consistently achieve market-leading results with reduced costs and improved quality.

MAXIMIZE YOUR PLASTIC QUALITY

- Detects different plastic types, and 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.

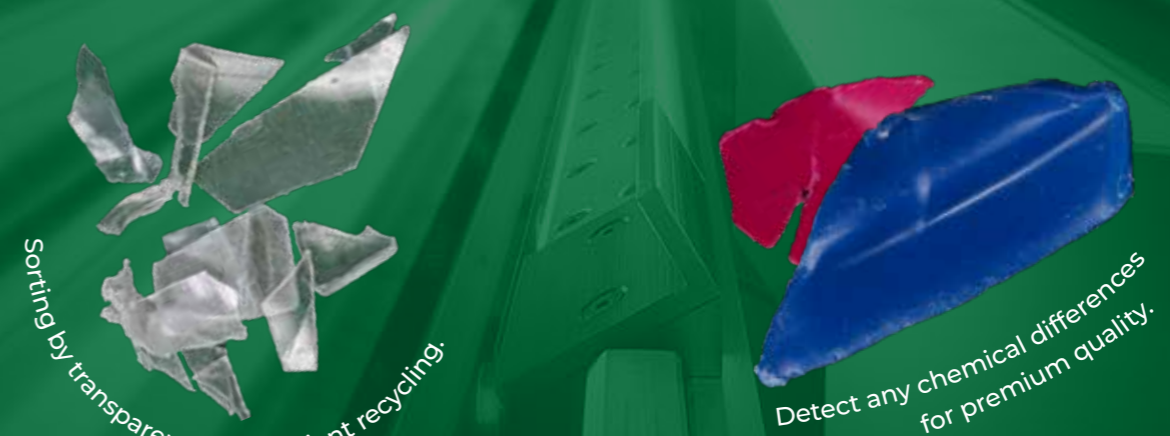


AN EXTRAORDINARY VISION SYSTEM

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

PRECISION THAT IMPROVES QUALITY

Whether you are processing mixed plastics, contaminated polymers or degraded materials, SEA.XL guarantees a flawless final product, consistently meeting market demands. With highly flexible customizable recipes, this enables precise, tailored setups for each specific polymer type, ensuring perfect processing outcome.





XL PERFORMANCE



XL Quality

Consistent, high-grade outputs that meet rigorous industry standards for recycling plastics.

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 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

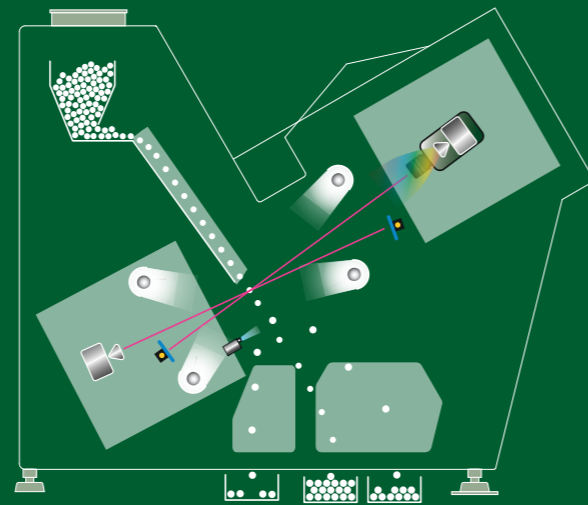
- **Unmatched sorting accuracy**
Revolutionize precision with BRAIN™'s advanced AI algorithms for unparalleled sorting accuracy.
- **Enhanced Efficiency**
Boost productivity with BRAIN™'s high-speed parameters setting, minimizing human trials.
- **Cost and time saving**
Achieve significant cost and time 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



SCAN YOUR QR CODE TO SET UP YOUR TRIAL

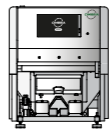
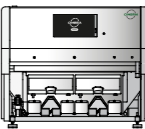
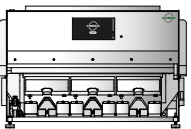
Maximum Flexibility.



PLEASE DOWNLOAD THE DATA SHEET FOR MORE TECHNICAL INFORMATION.

SEA.XL is designed to adapt to your specific requirements. With multiple feeding chute configurations, it offers exceptional versatility, allowing you to process a wide range of products within the same system seamlessly. **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 |
| | | m ³ /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

Copyright © 2025 all rights reserved. Pictures and technical data herein mentioned are indicative only and can be subject to changes. CIMBRIA reserves the right to change designs and specifications without notice.

Cimbria.com

Release date: June 2025/EN

CIMBRIA A/S

Faartoftvej 22
7700 Thisted
DENMARK
Phone: +45 96 17 90 00

CIMBRIA S.R.L.

Via Colombarotto 2
40026 Imola BO
ITALY
Phone: +39 0542 361423

Follow us   