

SANICON CONVEYOR SYSTEMS

High Performance Metal Detection in Food Products

- Compact reduced line space
- Compliance with HACCP and IFS Standards
- Reject systems to provide effective contaminant removal
- Stable and reliable with a small metal-free zone
- Enhanced performance data with optional graphical touch-screen (shown)



Standard systems, customized to suit specific customer requirements

GENIUS+ SANICON CONVEYOR

Key Features

- **Standard Aperture Sizes:** GENIUS+ is available in over 200 standard aperture sizes to provide solutions that deliver the best performance and results.
- **Customized Conveyors to Suit:** Using standard components the Sesotec SANICON is customizable to meet the detection performance and product handling needs of each application.
- **Robust Construction:** Fully welded stainless steel angle and tube frame, with food grade plastic components. Suitable for hostile environments and mechanical demands. Clean design to IP65 and IP66/69K standards, suitable for all food and pharmaceutical environments.
- **Positive Reject Devices:** Airblast, Pusher, Slide Retract, Pivot Drop Flap are some of the options available to remove contaminated products from the line. Optional reject confirmation and bin full detection are available.
- **Designed with Food Safety in Mind:** Angle frame, lift out decking, spaced mounts. Open construction allows for wash through without harbourage areas.



Easy to Clean and Sanitize in Minutes

Stability and Performance

- **Highest Standards of Engineering:** Precision search head coil construction guarantees stability regardless of the environment.
- **Single Half Wave Mode:** Ensures high performance metal detection in stop-and-go applications and at very high rates of speed.
- **Automatic Balance Control:** Maintains coil balance and detection stability under changing environmental conditions and temperatures.
- **Product Tracking:** Automatic adjustment for incremental product signal changes (recipe, moisture, thawing) to provide optimal sensitivity with minimal false rejects.
- **Multi-Frequency Technology:** Automatically selects multiple operating frequencies for best sensitivity and stability throughout a wide range of products.

Low Cost of Maintenance

- **Single Controls Enclosure:** Power supply and processor are housed in one enclosure for better wash immunity and a lower component count.
- **Easy Quick Board Swap:** Universal processor for all GENIUS+ types. Product parameters maintained in exchangeable memory.
- **No Field Balance Required:** Built with precision and robust design, the coil balance is factory configured without the need for environmental adjustment.
- **Low Cost of Ownership:** Reliability, stability and high performance are key elements to the design.



Optional reject bin for safe storage until QA can identify contaminants

Production Reporting

- **Insight.Net, InsightLog.Net:** Offers remote production, contaminant logging and Audit Check compliance reporting. Remote product set-up and adjustment also available.
- **Two Independent Serial Interfaces:** Easy integration through RS232 or RS485.
- **TCP/IP Network Compatible:** Ethernet interface (TCP/IP 100 Mbit/s).
- **WLAN Interface:** With integrated aerial (802.11 b/g).
- **Hard Copy Printed Reports:** Optional production reports via log printer.
- **USB Interface:** Export data from log file or user and system data (included with touch screen option).
- **Barcode Scanner Interface:** Serial interface for remote product change using a barcode scanner.
- **Profibus Interface:** PLC data highway



Metal detection with enhanced food safety and security

Audit Check Validation Software for HACCP Compliance

- **Programmable Test Interval:** Time and date of each validation challenge is programmed in accordance to final customer or HACCP requirements.
- **Preselected Test Samples Sizes:** Corresponding Ferrous, Nonferrous and Stainless Steel test samples are entered to prompt the user to test in accordance to policy.
- **Out of Spec Samples Rejected:** Each type of sample has a maximum signal limiter to prevent larger samples from being accepted during a validation challenge.
- **Audit Check Alarms:** Signals when a test is required, or fails safe if a challenge fails or is incomplete.
- **Record Keeping:** Results stored in Logbook, uploadable via RS232/242, Ethernet or WLAN.



7" Color touch user interface with enhanced graphics



Audit check alarm system



Icon driven user-interface



At-a-glance view of production statistics

Enhanced Sensitivity

- **Full Automatic Product Learn:** Each product's conductivity characteristics, including gain, sensitivity and phase are taught using the dual channel DSP software and stored into independent memories. This signature is compared to incoming product to detect the smallest fragments of metal.
- **Quick Teach:** Simplified "on the fly" Product Learn that updates the product compensation, for small changes in the product.
- **Quick Learn System:** Change products without disrupting production, to compensate for step-changes in product.
- **Self Health Monitoring System:** Ensures the GENIUS+ is always operating at peak performance by measuring key system operating points and alerting the user in case of a problem.
- **240 Product Memory:** Provides ample storage for multiple SKUs and products.

User Friendly – Intuitive

- **Simple and Efficient:** All major settings and functional parameters can be reviewed at a glance.
- **Two User-Interfaces to provide Best Performance:** 1) Back-light, seven-line, four-button menu-driven graphic display. 2) 7" color touch-screen with clearly designed workflow.
- **Multiple Languages:** Up to 12 user selectable languages.
- **Multiple Level Password Protection:** Protects key parameters such as product change, automatic update, product parameters and system data.
- **Visual Display Lights:** LED display on main panel for operation, detection and error messaging.



Slide retract for bulk-flow, multi-lane application



GENIUS+ SANICON Conveyor – Setting higher standards in food safety

Sesotec Inc. is a global provider of metal detection systems for modern food production environments where high performance metal detection with attention to cleanliness and high sanitation standards is required. Just as food processors are committed to the **highest levels of food safety and quality**, so is Sesotec committed to high quality engineering and exceptional construction.

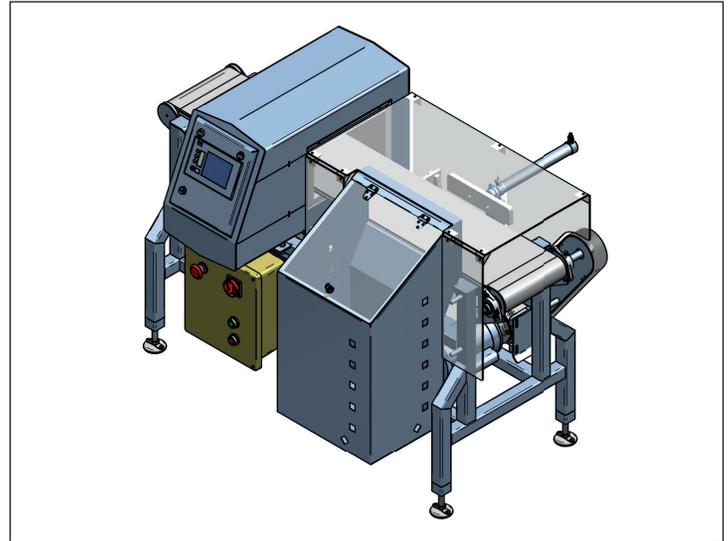
Using the latest in signal processing software and multi-frequency technology, the GENIUS+ is a high quality metal detection system that can detect even the smallest pieces of metal in food. Sesotec systems help you conform to **HACCP** standards and achieve the highest levels of product purity.

The system is **easy to use** with full automatic product learn and fast learn functions that optimize performance. HACCP validation software, TCP/IP data logging, and Ethernet or Profibus capabilities provide a comprehensive record of all HACCP challenges and system activities.

Sesotec technology enhances food production safety. The **Sanitary Conveyor** is designed to reduce risk in food production systems, by reducing harbourage areas where pathogen growth can take place within the product-handling systems. Sesotec GENIUS+ metal detection technology, combined with minimized flat surfaces, angle frame members, and components that disassemble in minutes, without the need of tools, offer you a **comprehensive food safety solution**.

About Sesotec

Sesotec Inc., is a subsidiary of **Sesotec GmbH**, positioned to serve the needs of North America with its regional assembly, sales, and service operations. We have extensive practical expertise and are dedicated to providing the very best in customer support, service, and parts availability. All Sesotec products are made to exacting standards to provide trouble-free, reliable service and to facilitate ease of use and maintenance, matching the best in the industry. Our customer base is worldwide and includes major food, pharmaceutical and chemical companies.



Precision 3D CAD Design

General Specifications

- **Suitable for:** Sesotec GENIUS+ aperture sizes from 250mm to 600mm wide up to 300mm high
- **Optional:** Touch screen display
- **Construction:** 304 stainless steel; angle and tube frame with food approved plastic components
- **Available Lengths:** 48-96" in 6" steps
- **Available Widths:** 8", 12", 16", 18", 22"
- **Available Heights:** 30-40" in 2" steps +/- 2" adjustment
- **Belt Speeds:** up to 200fpm
- **Power:** 120VAC/1PH/60Hz standard: optional 220VAC/3PH/60Hz and 575VAC/3PH/60Hz
- **Belting Type:** Modular plastic belting; other belts optional
- **Reject Systems:** Stop on detect with light or alarm, air-blast, pusher, or slide retract are some of the available reject systems
- **Other Options:** Casters, reject bin, low air pressure sensor, reject confirmation, bin full detection, product guides, complete angle frame construction, variable speed
- **Custom Solutions:** Sanicon conveyors can be customized to suit specific product requirements

For more information or to discuss your requirements please contact our office closest to you: