



METAL DETECTION SYSTEMS

Tunnel Metal Detectors

Detection and separation of metal contaminants
in piece and bulk goods

Sesotec
6-priority
concept



Latest technology for best detection accuracy

Innovative technology

Our tunnel metal detectors guarantee reliable detection of magnetic and non-magnetic metal contaminants with single, dual, multi or multi-simultaneous frequency technology.

- Tunnel metal detector GLS with single or dual frequency
- Tunnel Metal Detector GLS MF with Multi-Frequency
- INTUITY tunnel metal detector with multi-simultaneous frequency



Compliance Package

Our compliance software package for seamless and efficient documentation consists of the Audit Check, Sensitivity Prediction, Compliance Mode, Integrated Compliance Monitoring (ICM) and Integrated Validation Process (IVP) functions. It helps customers meet food safety standards, increase production efficiency, enhance product quality, and more.

THiNK - Artificial intelligence

The intelligent AI software was developed specifically for INTUITY and is an add-on option for products with very high product effects. THiNK is able to almost completely mask the product effect, thus increasing detection sensitivity and reducing false rejects to a minimum.

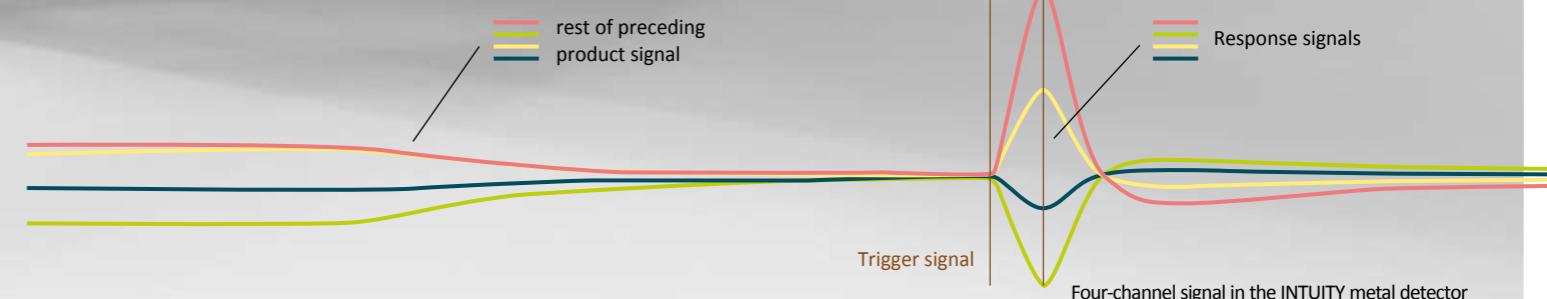
UL/CSA certified

All our metal detectors are UL/CSA certified.



Made in Germany

All our metal detectors are developed and produced in Germany.



Functionality

- A The transmitter winding generates a permanent electromagnetic alternating field.
- B This is also active in a certain area outside the coil, which is why every metal detector has a zone that must be kept metal-free.
- C The two receiver windings are connected to each other, and their signals thus cancel each other out („Balanced Coil“ principle).
- D As soon as a metal particle (as shown here in the example of a Sesotec test piece) passes the detector, a disturbance of the electromagnetic field occurs, which is picked up by the receiver coils. The electronics of the metal detector process the signal, evaluate it and output a metal signal.

Self-monitoring of the detection unit of metal detectors

The Integrated Compliance Monitoring monitors the detector by feeding a four-channel signal into the signal chain that is specifically tuned to the product under test during the teach-in process. This signal is transmitted at short intervals and thus determines the state of the machine.

Through the use of ICM

- reduced the frequency of testing,
- increased reliability and
- prevent the blocking of goods

Metal detection holistically thought through.

Especially in the food industry, the quality of the products has top priority. The delivery of faulty goods can have fatal consequences. It can lead to extremely expensive recalls, recourse claims or, in the worst case, consumer damage. We help you to protect yourself – with the help of high-precision metal detection. Our metal detectors were developed primarily for use in the food industry. They quickly and reliably detect the smallest metal contaminants in both packaged and unpackaged foods- regardless of their size, shape or position. They can be used both in the middle of the production line for the inspection of bulk materials or raw materials and at the end for the final inspection of packaged food.

Typical fields of application in food production

We support food producers in ensuring the best possible food safety. Our tunnel metal detectors are perfect for the following industries:



Meat and sausage products



Bread and bakery products



Cheese and dairy products



Canned, frozen, ready meals



Pasta



Grinding and peeling mill products



Nuts, dried fruits and vegetables



Nutrients and seasonings



Snacks, cookies, crackers



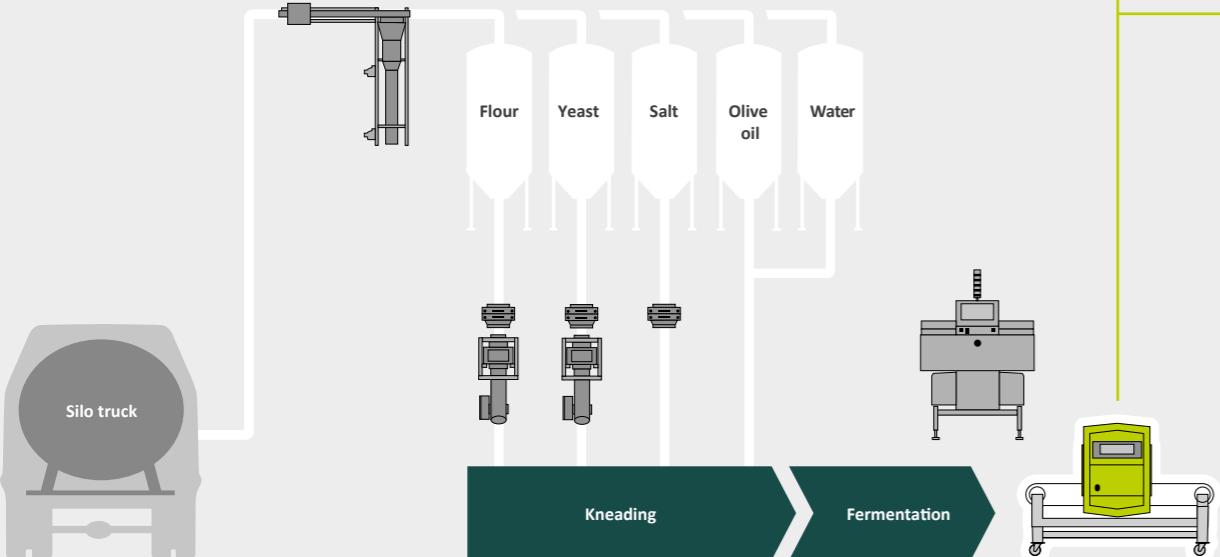
Confectionery



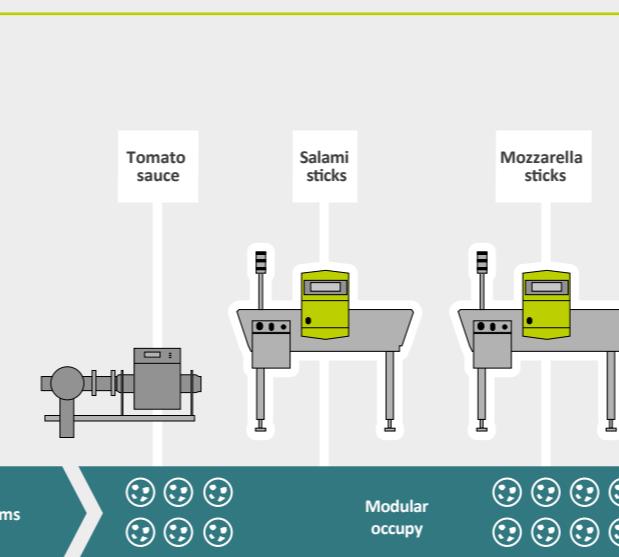
Fodder

Whether during an incoming goods inspection, inline inspection during packing, weighing, labeling or end-of-line in the final inspection of packaged food: Our metal detection systems ensure optimum food safety.

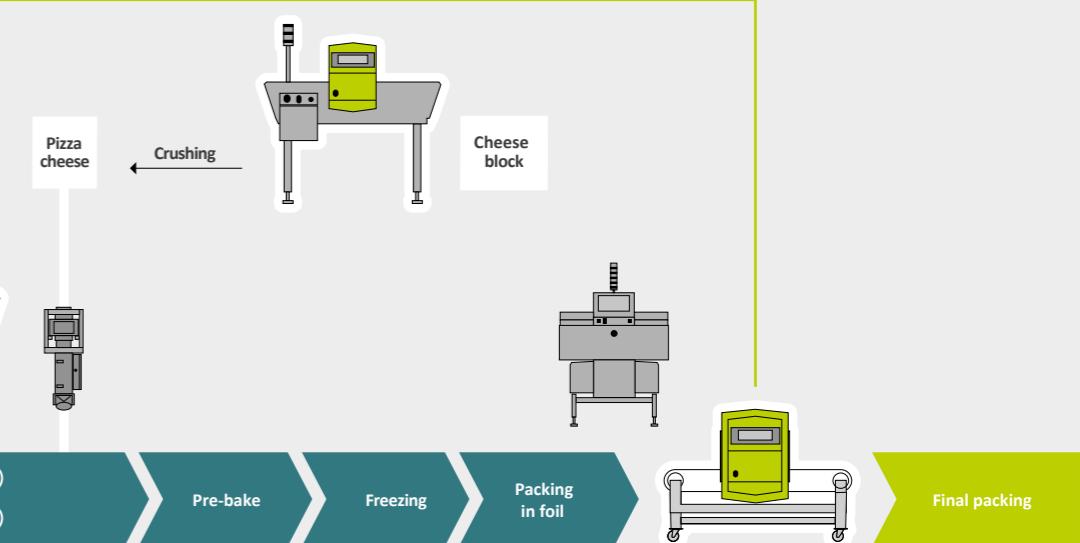
Goods receipt



Production

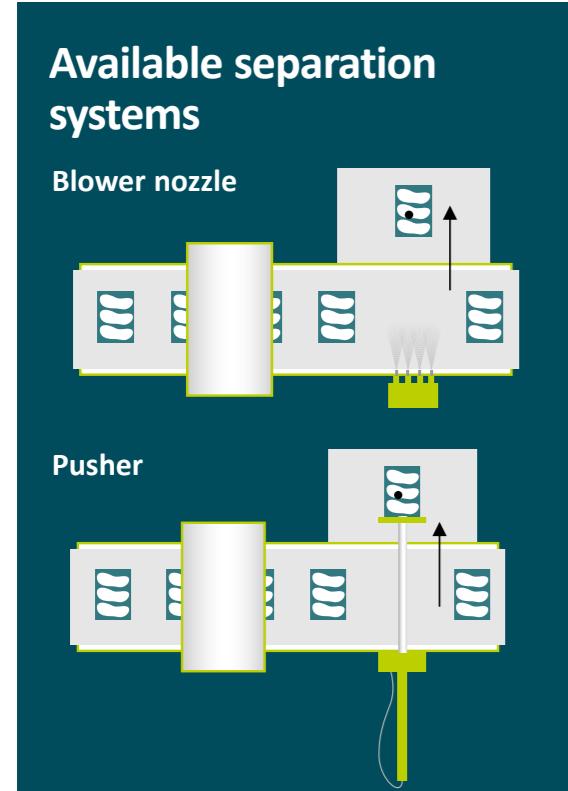


Outgoing goods



A holistic system

For best detection results and maximum efficiency, we offer VARICON+ and UNICON+, high-performance complete systems for dry and wet areas. Latest technology with extremely short metal-free zone combined with robust and easily accessible stainless steel conveyor belt designs guarantee highest detection sensitivity and stability.



VARICON+ D

With flat belt for better adhesion of dry and packaged products.

- Idler pulleys with small diameter
- Smooth transition between conveyor belt sections for smaller products



VARICON+ W

With link belt for easier cleaning and higher production efficiency after wet cleaning.

- Maintenance-free sliding rollers for link belt
- Optional: Conveyor control cabinet and detection coil as well as hinged cover over display according to protection class IP66/69 and signal device according to protection class IP66
- Special hygienic variants can be realized as UNICON+.

UNICON+ for special solutions

With the UNICON+ conveyor belt series, we realize individual adaptations and solutions for optimal installation in the customer's own environment. UNICON+ is based on the proven and robust VARICON+ conveyor belt technology and can be designed for dry or wet cleaning.

- Reliable metal detection system with GLS, GLS MF and INTUITY metal detectors
- For the examination of general goods with a maximum load of up to 130 kg
- Modular design allows individual solutions in combination with customized reject systems suitable for the respective customer product
- Process conformity to BRC, IFS and HACCP
- Customized variants available for hygienic requirements

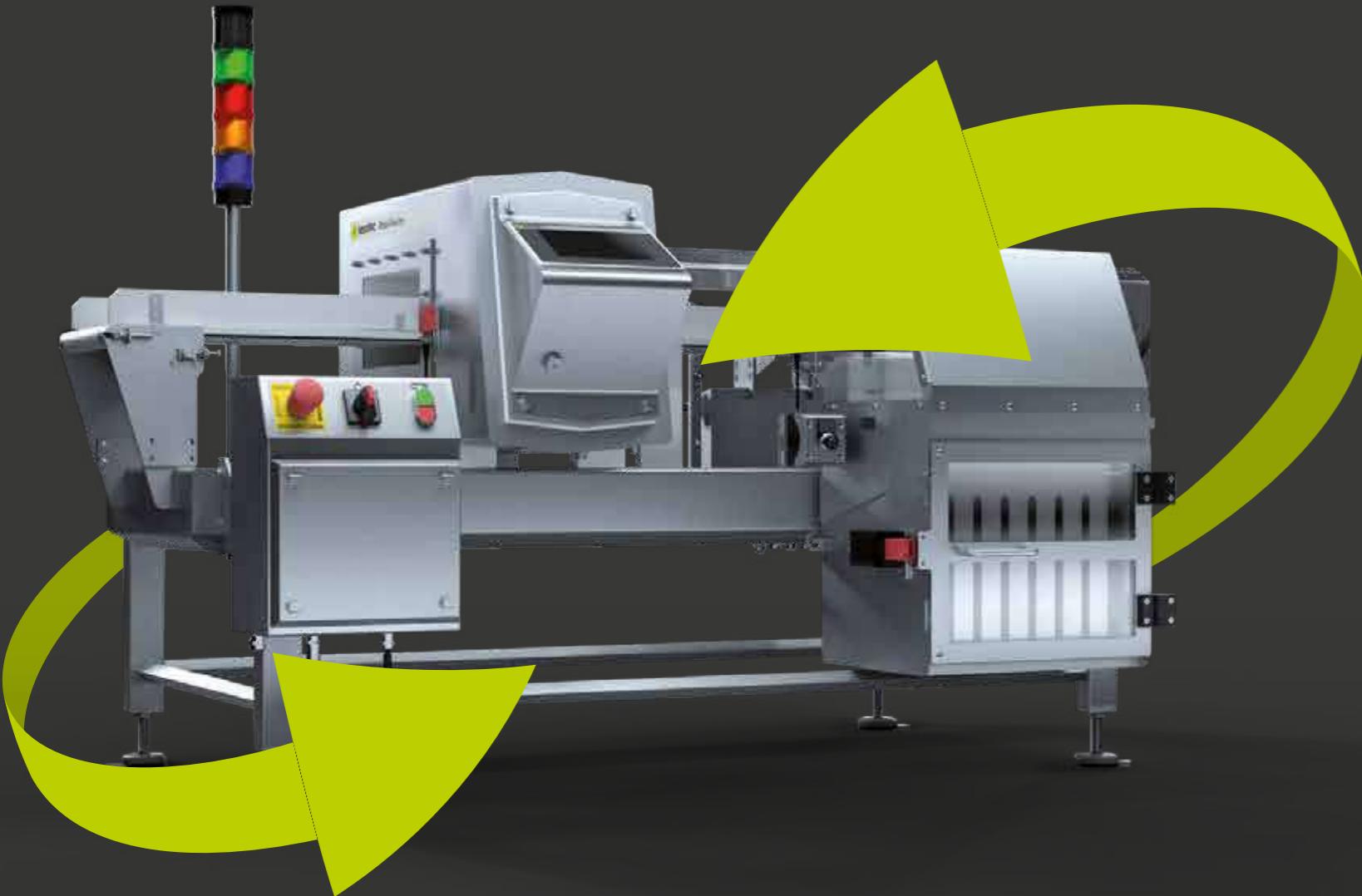


Customized UNICON+ ascending conveyor belt solution

THE SESOTEC 6-PRIORITIES CONCEPT

Your priorities. Our answers.

The development of our metal detection systems was focused on one thing in particular: Your priorities. In-depth analysis and background discussions have revealed the key requirements for foreign object detection. On this basis, we have intensively researched solutions. This has resulted in our Sesotec 6-priorities concept with practical answers to your challenges.



P1 Conformity & Accuracy

Reliable detection of magnetic and non-magnetic foreign objects throughout the inspection area enables compliance with all current specifications and standards.

P2 Safety for people & product

The automatic venting of the pneumatics in the event of an emergency stop and compressed air monitoring, as well as the ejection control, ensure all-round safe operation for people and products.

P3 Simple operating concept

Thanks to a large touchscreen, intuitive user guidance with quick access to the most important system functions, a help function and features such as the Auto-Learn function, our tunnel metal detectors offer particularly easy everyday handling.

P4 Comprehensive hygiene concept

Robust and hygienic housings allow easy cleaning.

P5 Efficiency in all areas

Intelligent sensitivity adjustment and high interference immunity prevent false positives and increase profitability.

P6 Reliable, fast service

With warranty services, combined on-site and remote service, and targeted training, you have optimal support for smooth operation.



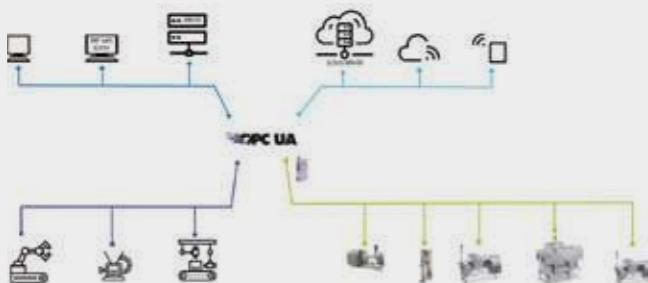
Conformity & Accuracy

Our metal detectors support and facilitate compliance with the necessary food safety

Our systems exceed international standards

With our metal detectors, you are on the safe side when it comes to international food standards.

- BRC, IFS and HACCP compliant (exceeds detection accuracy requirements of current food safety standards)
- Higher Level Compliance (Marks & Spenser quality requirement) is optionally available for all devices with a reject system



Sesotec INTERLINK - Metal Detection 4.0



Insight.NET: central data management for Sesotec metal detection systems

OPTION FOR INTUITY AND VARICON+ INTUITY:
INNOVATIVE SOFTWARE FOR SEAMLESS AND EFFICIENT DOCUMENTATION

Compliance Package

Our compliance software package consists of Audit Check, Sensitivity Prediction, Compliance Mode, Integrated Compliance Monitoring (ICM) and Integrated Validation Process (IVP) functions.

- **Audit check:** guides through the audit routine with the help of a flow wizard and logs all steps.
- **Sensitivity prediction:** enables automatic determination of the detection sensitivity of various foreign bodies.
- **Compliance Mode:** can set the sensitivity to factory or audit standards to achieve compliance.
- **Integrated Compliance Monitoring:** ensures that current sensitivities are continuously monitored at defined time intervals.
- **Integrated Validation Process:** The machine includes an integrated multi-step process for simplified validation of products.



The two-step approach of Integrated Compliance Monitoring (ICM)

1 Self-monitoring of the detection unit of metal separators

The ICM monitors the detector by feeding a four-channel signal into the signal chain, which is specifically tuned to the product being tested during the teach-in process. This signal is transmitted at short intervals and thus determines the state of the machine.

2 Compliance Mode

The ICM generates an alarm condition to report non-compliance when the detection prediction exceeds the compliance mode value. In this case, the production line is stopped automatically. All results and incidents are logged in the logbook and time stamped.

Integrated Validation Process (IVP)



The Integrated Validation Process (IVP) is a documentation tool and provides evidence that the desired quality objectives for the respective product are achieved. The goal or result of the Integrated Validation Process is a certificate issued by Sesotec with the validation results.

Advantages for the customer

- Compliance with food safety standards
- Savings in working time, packaging material and product waste
- Increase in production efficiency
- Increase in product quality
- Reducing the risk of poor quality control and missing records

Safety for people & product

The system is safe for brand, product, personnel and data

Higher Level Compliance

With Sesotec machines you are on the safe side as far as international food standards are concerned. As a result, the devices also meet Marks & Spencer's quality requirements.

Transparent protective cover

- The protective cover over the ejector unit serves as a mesh guard.
- Additional safety due to automatic release of pneumatics in case of machine failure, which protects the operator.
- Protective polycarbonate cover for full overview of the reject system.



Rejection monitoring for packaged products

- If contamination is detected, the rejection system is activated.
- The „Reject Confirmation System“ checks whether the contaminated product has been separated. If no signal follows here, an error message is displayed in the software.
- This means that it is not possible for a contaminated product to be overlooked due to problems with the separating unit, for example.

High data security guaranteed

- The definition of **different user groups** with specific rights facilitates access protection (e.g. Service, Admin & Operator).
- With the user administration, individual access authorizations can be assigned to an operator.
- The “Login2Go” function saves the data on a USB stick. This saves logging in with password entry.
- Optional: RFID login for INTUITY



Compressed air monitoring

- An error message appears when the pressure drops or is not applied and is noted in the logbook.
- In this way, the operator is warned at an early stage of a drop in compressed air, which would result in impairment of the separating unit.

Level indicator for collection container

- An error message appears when the container is two-thirds full (time window until error message can be set, e.g. 5 seconds).
- This prevents a backlog of products in the collection container up to the conveyor belt.

Container monitoring and interlocking

- Enables opening/closing the container via the user interface with corresponding user rights.
- Prevents access to the collection container by unauthorized persons, allowing only authorized persons to remove discharged products from the container.
- Moreover: An error message appears if the container is open for a longer period of time (time window can be set, e.g. 30 seconds).

Simple operating concept

Simple operation boosts user satisfaction, facilitates handling and minimizes the risk of errors

Clever support through our software

- **Multi-product memory:** Device settings for 300 or 500 different products can be stored. Product change-over is quick and easy, including the possibility of batch tracing by querying a batch number.
- **Auto learn function with product compensation:** automates the product-specific device settings. Prevents false triggering due to intrinsic effects of the product (e.g. due to salts, moisture, etc.) by automatically determining the best instrument setting for optimal detection while maintaining high noise immunity.
- **Quick teach function:** simplified learning process for product compensation, e.g. after changing a product recipe or batch.
- **Auto-tracking:** enables intelligent, dynamic tracking of the product compensation parameters in the event of changes in the product (formulation, moisture, thawing products), thus guaranteeing optimum detection sensitivity without false alarms.
- **Stop-and-go operation:** enables reliable metal detection even in stop-and-go operation, such as discontinuous conveying.

Integrated help menu



As soon as the operator clicks on a question mark ...



...a window opens with a detailed explanation

Ergonomic position of the display

Sequence wizard

Menu-guided teach-in and audit check

Help menu

A consistent help menu supports the operator

Quick Access

to important system functions

USB port

With protective cover according to IP66/69



Comprehensive hygiene concept

Depending on the hygienic requirements, the systems offer a corresponding design for simple, effective cleaning and maintenance



Easily removable link belt for cleaning



Hygienic screw connection: Each screw is hygienically sealed



Sealed USB port with high degree of protection and attached protective cap



10%

of annual turnover
is due to cleaning costs

Did you know that cleaning is one of the most time-consuming and resource-intensive aspects of operating a food manufacturing or processing facility? According to one study, half of companies in the food industry spend at least 10% of their total annual turnover on cleaning.

High hygiene standards – for food production

The complete stainless steel and plastic construction makes our metal detection systems ideal for the food industry.

- Sloped surfaces on the INTUITY ensure that water runs off/ condensation is avoided
- Protection class IP65 as standard and optionally up to IP66/69

Mechanical and technical features

- **Hygienic design**, easy and effective to clean
- **Low installation length and metal-free zone**: greatly simplifies integration of the metal detector into existing conveyor belt systems
- **Robust construction** with open conveyor frame for hygienic cabling
- **UNICON+ for particularly high hygienic requirements**, for example in the meat sector or for unpacked, raw products



Efficiency in all areas

Increase output, save work time and avoid food waste



Advantages for the customer

- Compliance with food safety standards
- Savings in working time, packaging material and product waste
- Increase in production efficiency
- Display of predicted performance and compliance values for easy verification

Active compliance mode

The user can program in the system what should happen in case of non-compliance with the configured sensitivity forecast, be it a warning message or even a stop of the production line.



Compliance Mode

Reduction of the false reject rate (F.R.R.) & minimization of the loss of good material:

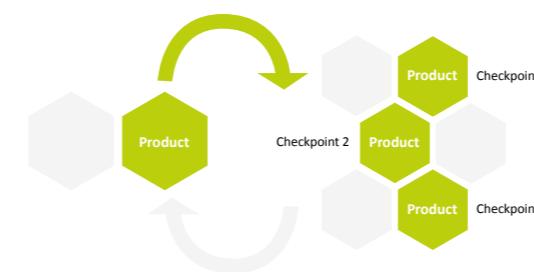
The metal detector adjusts the trigger level of the set product to reliably detect the specified test bodies.

Auto Tracking

Dynamic Auto Tracking enables intelligent tracking of the product compensation parameters in the event of changing product properties, e.g. if the recipe or temperature changes.

Checkpoints

Checkpoints are used to restore product parameters. In the course of quality assurance, they allow a comparison between the current and previously saved product settings. This makes it possible to reconstruct individual products and track changes.



Statistical evaluations

INTUITY provides a comprehensive event history with detailed statistical data.



Sensitivities prediction

After the teach-in process, the software automatically indicates the most suitable Inspection Level (IL) with associated sensitivities for ferrous, stainless steel and non-ferrous metals. The IL with the predicted sensitivities that most reliably meet customer requirements can then be selected.



Advantages for the customer

- Instant overview of the sensitivity level
- Simple adjustment with the required detection sensitivity
- Enormous time savings during the teach-in process
- Easy determination of the best inspection level for the product to be inspected

Reliable, fast service

Ensure and improve performance,
provide fast help in case of unexpected failures,
prevent problems

- Customer-specific training for operation and service/maintenance
- Annual maintenance and product validation
- Initial commissioning on site by qualified service technicians
- Demo devices available at **short notice**
- High overall plant efficiency and stable operation

The Sesotec Service: Global. Competent. Responsive.

In addition to first-class equipment and systems, Sesotec also offers you first-class service for all aspects of foreign object detection. Our winning service convinces includes a variety of features that flexibly adapt to your individual application. Our service offers you long-term investment and planning security.



Telephone support

Many questions and incidents can be resolved over the phone. Our free telephone support is available daily from 6 am to 8 pm and on weekends from 8 am to 5 pm. Fast, simple, effective.



Remote Access

Frequently, malfunctions on machines can also be remedied via remote access. Sesotec service technicians have direct access to your machines via Ethernet connection and can perform error analyses, optimizations and parameter settings.



Remote support with augmented reality

In addition to telephone support and remote access, Sesotec also offers video-based support with augmented reality. This is done via the TeamViewer Pilot app.



Sesotec spare and wear parts packages

With the preventive spare and wear parts package for our devices and systems, you have the supplies you need in the event of machine downtime and can quickly and easily replace mechanical components yourself.

For maximum productivity and profitability

- Maintenance free tunnel metal detectors
- High overall plant efficiency and stable operation
- Wear and spare parts package for fast resumption
- 10 years spare parts availability
- Remote support for shorter downtimes

$$A \times P \times Q = OEE$$

Availability Performance Quality Overall Equipment Effectiveness

NEW

Spare parts online catalog for fast processing of spare parts orders

365 days

Our service is available to you 365 days a year and guarantees fast response times and thanks to service centers located worldwide.



PLEASSED TO MEET YOU

Metal detection in perfection



GLS

The entry-level model for inspecting piece and bulk goods on a conveyor belt with good detection accuracy

1,1
mm

300
kHz

**Single
or dual
frequency**

Detection*

Frequency

Technology



For packed and
unpacked piece
and bulk goods

Free consultation

<https://www.sesotec.com/emea/en/contact>



Highest flexibility

Perfect adaptation to customer-specific requirements thanks to a closed coil system with over 200 different coil sizes.



Audit check

The audit check guides you through the audit routine with the help of a process wizard and logs all steps. This continuous quality monitoring is of enormous importance, especially for food producers and processors, to ensure consistently high product quality.

GENIUS ONE Control Unit

- New user interface with touch display for easiest operation
- Faster teach-in, fewer operating errors and short operating times
- Cost and time savings through effective operating and service functions

Technical data

GLS

VARICON+ GLS

Detection accuracy	from Ø 1,06 mm V2A	from Ø 1,06 mm V2A
Frequency bandwidth	up to 300 kHz	up to 300 kHz
IP protection class	IP65 (optional with display cover and detector shaft for IP66/69K)	IP65 (optional with conveyor control cabinet to IP66/69K and signaling device to IP66)
Display size	5" color touch display	5" color touch display
Min./Max. Tunnel size (DB x DH)	50/25 mm 2800/250 mm	250/100 mm 900/350 mm
Number of available sizes	348	34
Max. Product size		800/300 mm
Ambient temperature	-10°C to +50°C	-10°C to +40°C
Product temperature	-20°C to +80°C	-20°C to +80°C (VARICON+D) -20°C to +65°C (VARICON+W)
Conveyor belt length		1.000, 1.300 or 1.500 mm with belt stop 1.500, 1.700 or 2.000 mm with rejector
Conveyor belt speed	0,3 to 2,1 m/s best sensitivity 0,02 to 3,0 m/s max. possible	0,3 to 2,1 m/s best sensitivity 0,02 to 3,0 m/s max. possible
Max. Belt loading		20 kg (belt width up to 400 mm) 50 kg (from belt width 500 mm)
Rejection systems		Belt stop Pusher or blowing nozzle

Software options

Audit check

Accessories

Insight.NET
Sesotec memory module for data archiving

INTERLINK module
For connection with other networks

Test bodies
In various sizes and configurations

*Detection of stainless steel on a GLS 250/150-GO

GLS MF

The standard model for the examination of piece and bulk goods on a conveyor belt with a very good detection accuracy

0,90
mm

Detection*

600
kHz

Frequency

Multi
frequency

Technology



For varying
product sizes and
different products

Free advice

<https://www.sesotec.com/emea/en/contact>



Compliance Mode

In Compliance Mode, sensitivity can be set to factory or audit standards at the touch of a button to achieve compliance while reducing false rejection rates. Process stability is thus constantly maintained.

Sensitivity prediction

Sensitivity prediction is automatically calculated after each teach-in process and after changes in sensitivity-dependent parameters, and enables automatic determination of the detection sensitivity of various foreign bodies.

Metal type optimization

The GLS MF can be programmed for a specific type of metal, e.g. stainless steel, can be programmed and the best frequency for the corresponding type of metal is automatically selected.



Technical data

GLS MF

Detection accuracy	from Ø 0.9 mm V2A	from Ø 0.9 mm V2A
Frequency bandwidth	up to 600 kHz	up to 600 kHz
IP protection class	IP65 (optional with display cover and detector shaft for IP66/69K)	IP65 (optional with conveyor control cabinet to IP66/69K and signaling device to IP66)
Display size	5" color touch display	5" color touch display
Min./Max. Tunnel size (DB x DH)	250/150 mm 700/300 mm	250/150 mm 700/300 mm
Number of available sizes	14	13
Max. Product size	600/250 mm	600/250 mm
Ambient temperature	-10°C to +50°C	-10°C to +40°C
Product temperature	-20°C to +80°C	-20°C to +80°C (VARICON+D) -20°C to +65°C (VARICON+W)
Conveyor belt length		1.000, 1.300 or 1.500 mm with belt stop 1.500, 1.700 or 2.000 mm with rejection
Conveyor belt speed	0,1 to 2,1 m/s best sensitivity 0,02 to 5,0 m/s max. possible	0,1 to 2,1 m/s best sensitivity 0,02 to 5,0 m/s max. possible
Max. Belt loading		20 kg (belt width up to 400 mm) 50 kg (from belt width 500 mm)
Rejection systems		Belt stop Pusher or blowing nozzle

VARICON+ GLS MF

Software options

Audit check, compliance mode, sensitivity prediction in standard
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Accessories

Insight.NET
Sesotec storage module for data archiving

INTERLINK module
For connection to other networks

Test bodies
In various sizes and configurations

INTUITY

The high-end model for best detection accuracy even for products with high product effect



THiNK

0,79 mm	900 kHz	Multi- simultaneous frequency
Detection*	Frequency	Technology

Multi-simultaneous frequency technology

INTUITY uses a combination of two frequencies depending on the product characteristics, and applies them simultaneously to the product under investigation. Every product leaves a „digital fingerprint“ (product effect). A metal trigger threshold (envelope) is calculated and stored around these points. All signals outside this threshold are automatically detected as metal. Signals within the threshold are assigned to the product effect.

Compliance Package

Our all-inclusive food safety package guarantees compliant food production and process reliability when launching new products. In addition, the software ensures that the machines work perfectly at all times, product waste is reduced, and the machine is optimally protected against tampering thanks to paperless documentation.



INTUITY Control Unit

- Intuitive user interface with 7" color touch display
- Quick access to important system functions through configurable start screens
- Permanent self-monitoring of all important system functions
- Simple setup process through menu-guided wizards
- Clear display of all operating messages and system states



Products with high product effect

Free advice

<https://www.sesotec.com/emea/en/contact>



Technical data

	INTUITY	VARICON+ IC
Detection accuracy	from Ø 0,79 mm V2A	from Ø 0,79 mm V2A
Frequency bandwidth	up to 900 kHz	up to 900 kHz
IP protection class	IP65, at the detection tunnel IP66/69 (optional with display cover IP66/69)	IP65 (optional with conveyor control cabinet to IP66/69K and signaling device to IP66)
Display size	7" color touch display	7" color touch display
Min./Max. Tunnel size (DB x DH)	250/150 mm 700/350 mm	250/150 mm 600/400 mm
Number of available sizes	163	8
Max. Product size		500/350 mm
Ambient temperature	-10°C to +40°C	-10°C to +40°C
Product temperature	-20°C to +80°C	-20°C to +80°C (VARICON+D) -20°C to +65°C (VARICON+W)
Conveyor belt length		1.300 or 1.800 mm with belt stop 1.800, 2.000 or 2.500 mm with rejector
Conveyor belt speed	0,3 to 1,0 m/s best sensitivity 0,02 to 3,0 m/s max. possible	0,3 to 1,0 m/s best sensitivity 0,02 to 3,0 m/s max. possible
Max. Belt loading		20 kg (belt width up to 400 mm) 50 kg (from belt width 500 mm)
Rejection systems		Belt stop Pusher or blowing nozzle

Software options

Compliance Package	Audit-Check, Compliance Mode, Sensitivity prediction in standard ICM and IVP optional
THiNK	Artificial intelligence based software with annual or permanent license
Insight.NET	Sesotec memory module for data archiving
INTERLINK module	For connection with other networks
Test bodies	In various sizes and configurations

*Detection of stainless steel on an INTUITY 250/150

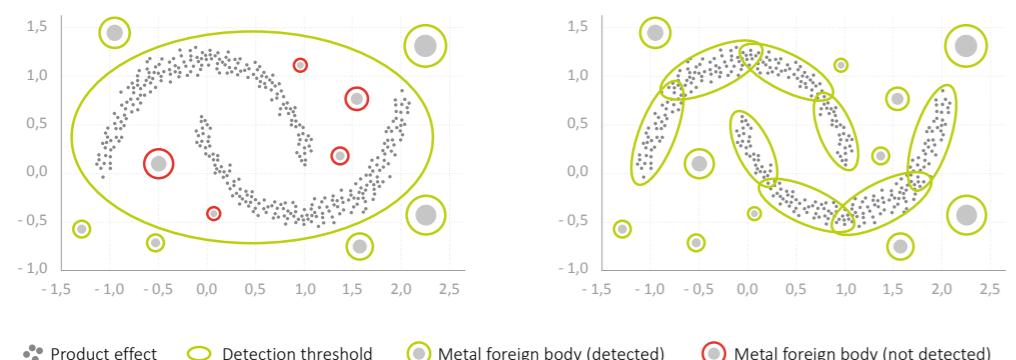


OPTIONS FOR INTUITY
INTELLIGENT KI SOFTWARE FOR MAXIMUM DETECTION ACCURACY

THiNK – Metal Detection with Artificial Intelligence (AI)

The THiNK software is an additional option for products with very high product effects. THiNK is able to almost completely mask the product effect, thus increasing detection sensitivity and reducing false rejects. **Your advantage with Sesotec:** The software is based on artificial intelligence and independently draws conclusions from large amounts of data.

Multi-simultaneous frequency



- Every product leaves a “digital fingerprint”
- A metal trigger threshold is calculated and stored around these points
- Inside the threshold, the signals are assigned to the product effect, outside detected as metal

THiNK Technology

- Multidimensional AI algorithms calculate the detection threshold more accurately and stably with each product
- AI models thus create multiple detection thresholds
- Detection sensitivity is thus significantly increased and false triggering reduced

THiNK about it...

THiNK was developed specifically for the INTUITY. Different license models are possible for this intelligent software. Please feel free to contact us at any time to get started.

Typical fields of application for artificial intelligence (AI)

- Better, more stable detection of products with high and/or fluctuating product effects (storage in brine or water, metalized packaging, etc.)
- The smallest metal contaminants are reliably detected, whereas they remained undetected with previous systems
- Hiding of RFID tags, for example on E2 containers filled with meat and sausage products



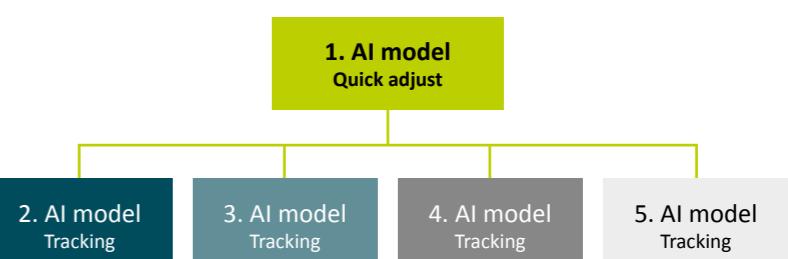
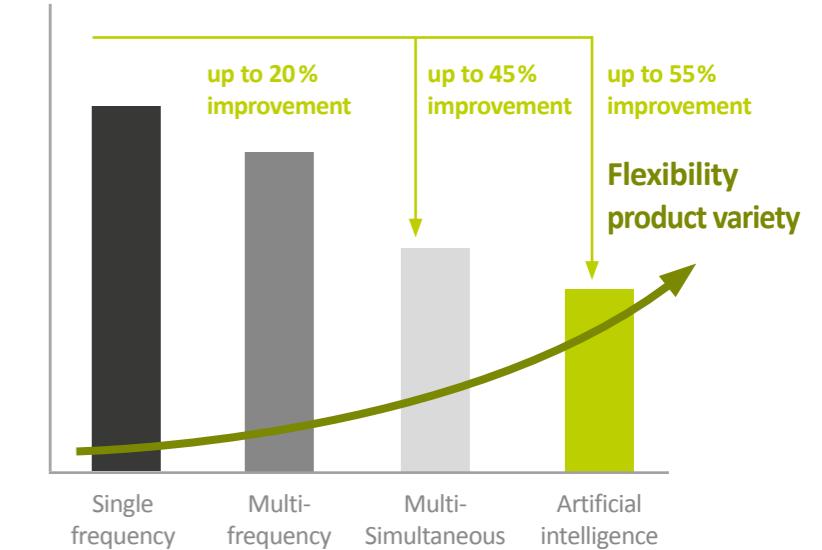
THiNK Auto-Tracking

Production data and parameters are collected via this function, and used in AI model building. The various AI models are continuously adapted to production. This ensures reliable production with maximum detection performance.

Advantages for the customer

Innovation leader through artificial intelligence

Detectable test body size



- More security against product recalls
- Less food waste
- Increase in production efficiency
- Increase in product quality
- Higher profitability
- Reliable detection for products with high product effects



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