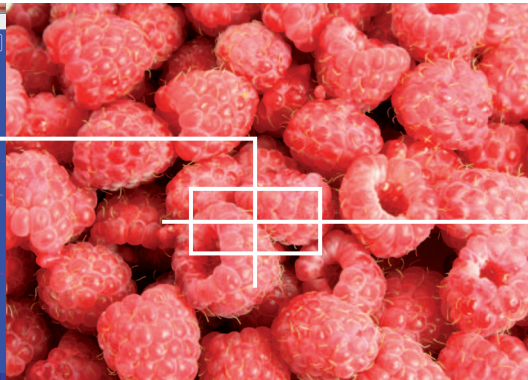
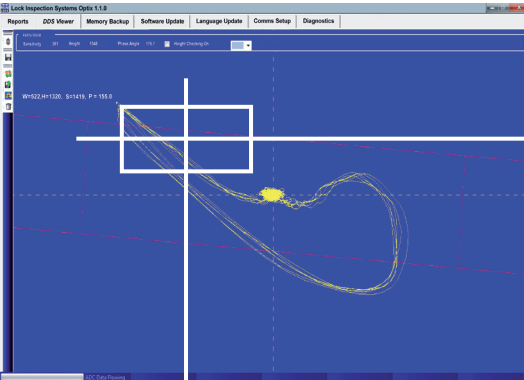
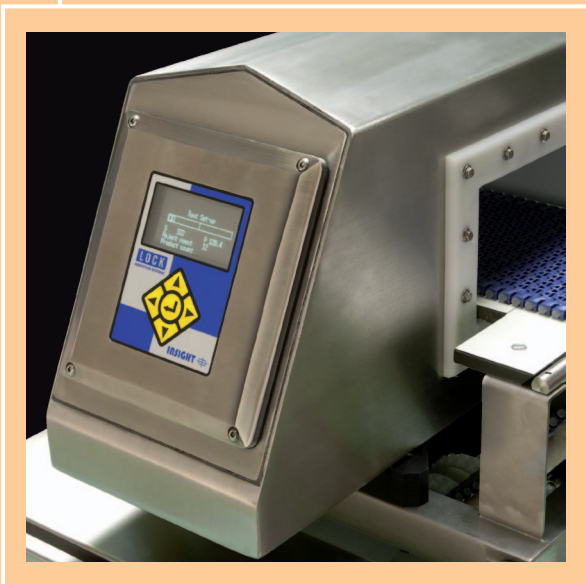


# INSIGHT

IN PURSUIT OF PURITY...



Analyse  
**Detect**  
Report



METAL DETECTION  
FOR THE  
FOOD & PACKAGING  
INDUSTRIES

**LOCK**

EARNING CUSTOMER CONFIDENCE

INSPECTION SYSTEMS

# Analyse Detect Report



# INSIGHT

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**LOCK INSPECTION SYSTEMS** is the worlds leading independent manufacturer of metal detection systems for the Food and Packaging Industries.

Faced with the challenge of developing an all new range of metal detectors for food manufacturing and packaging, Locks R&D team were handed a simple brief - design a product to set new standards for good manufacturing practice, efficiency, product quality, traceability and compliance with existing and forthcoming legislative and regulatory requirements.

The INSIGHT range excels on all points. Highly resistant to vibration, the INTEGRATED DIGITAL SEARCH HEAD and sophisticated OPTIX detector management software enable the INSIGHT to clearly display the detailed product profile needed to achieve perfect product setups using Locks unique DDS (Direct Digital Signal) vector diagram. This guarantees detection and rejection of the most minute metal fragments while achieving stable operation and market leading sensitivities to all metals.

Complemented by an array of innovative features, the INSIGHT delivers tangible benefits to the manufacturer at every key stage in their process and is equally effective in both "wet" and "dry" applications.

- Detection and removal of metal contamination from incoming raw materials and formulations prior to processing and manufacture
- Unrivalled product and brand protection
- Choice of multi-frequency search heads available from 30 to 875kHz
- User-friendly operation including auto-setup
- INSIGHT metal detectors are available with a full range of systems and reject options including full fail-safe specification comprising reject confirmation, air failure alarm and bin full alarm
- Compact design allows easy integration with all well known brands of inspection and packaging machinery
- Data storage for up to 8000 events
- Data reports can be downloaded to a standard memory stick or PC to enable the secure storage and distribution of quality records in PDF or other formats



## EFFICIENCY

**Materials Screening:** The quality of a finished product can only be guaranteed if incoming and in process materials are effectively screened to remove all unwanted metallic particles.

**Cost Savings:** Early detection of metal contamination affords significant cost savings since lower value materials rather than finished products are rejected. In addition, early removal protects downstream machinery from expensive damage and downtime.

**Superior Performance:** The INSIGHTs compact Integrated Digital Search Head takes care of metal detection and signal processing, continuously updating product compensation settings to deliver extreme sensitivity to magnetic and nonmagnetic metals whilst eliminating false rejects. An extensive range of systems options allow the user to select a reject suitable for their process, thereby minimising product loss when contamination is detected.

**Metallised Film:** The INSIGHT automatically senses metallised film packaging and creates product setups that filter out its impact, thereby achieving the maximum possible sensitivity to metal contaminants without sacrificing productivity.

# Analyse Detect Report

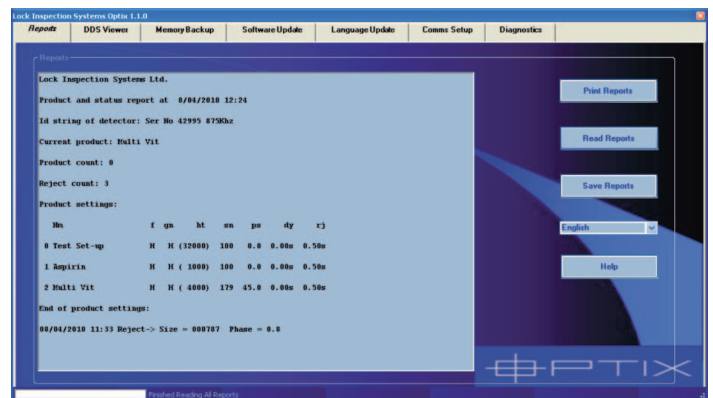
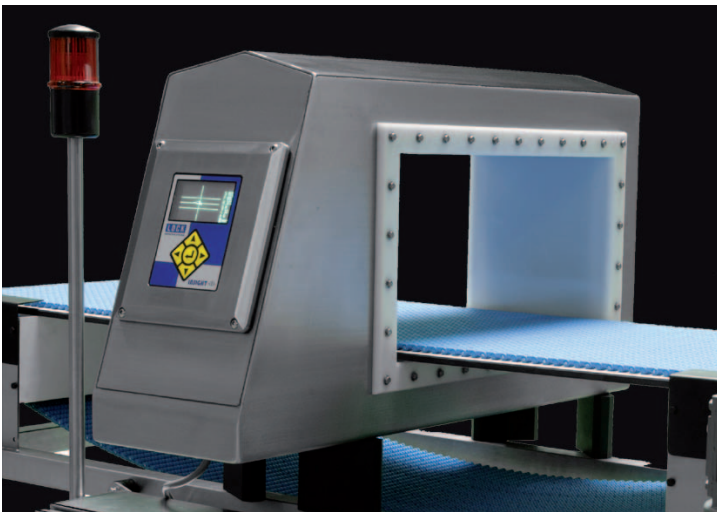
## PRODUCT QUALITY AND HYGIENE

Metal detection equipment needs to be installed at designated critical control points according to HACCP principles. Contamination from broken sieves, blades, bearings and damaged milling equipment will be detected at these stages.

**High Sensitivity:** Extremely resistant to vibration, the INSIGHTs Integrated Digital Search Head and sophisticated signal processing software is capable of filtering out even the most complex product signals in order to detect and reject minute fragments of metal. Locks unique coil design and signal processing capability offer particularly high sensitivity to stainless steel.

**Fail-safe:** Product integrity is fully protected by the INSIGHT during power fluctuation or interruption. "Test Prompt" software ensure adherence to quality systems.

**Hygiene:** The INSIGHT range is sealed to IP69k/PW12 from approved materials which allows full wash down where required to provide necessary levels of cleanliness.



## TRACEABILITY

**Communications:** Every INSIGHT metal detector is available with wired or wireless ethernet connectivity and SCADA capability. The external USB port allows all events and product presets to be downloaded onto a standard memory stick or PC to enable secure storage and distribution of quality records in PDF or other formats.

Each INSIGHT provides full data security (up to four password protected security levels are available), integrity and traceability. Using the advanced comms options the INSIGHT can be operated remotely or networked with other systems. Diagnostics, set-up and interrogation routines are performed by the on board processor and can be reported instantly or downloaded to a memory stick via OPTIX.

**Data Management Systems:** INSIGHT is designed to be fully compatible with Lock's DataChek software, thereby enabling data monitoring and collection from all networked metal detection equipment. This provides a comprehensive and traceable central record for each product and batch.

Product quality & integrity are fundamental requirements within the food manufacturing and packaging industries.

The INSIGHT range of metal detectors delivers unsurpassed protection from all types of metal contaminant.



### INSIGHT C5 "Throat" metal detector

The INSIGHT C5 is the most compact metal detector of its type on the market, having been specifically designed to be installed between scales and vertical form fill and seal bagmakers.

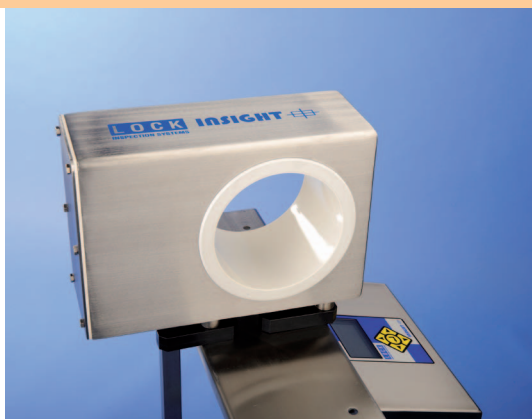
- Ideal for limited space installation
- User friendly operation
- 875kHz frequency and high resistance to vibration deliver sensitivity 30% higher than industry standard
- Customised installation kits available to requirement
- Choice of mounting types



### INSIGHT VF "Shortfall" metal detector

The INSIGHT compact vertical fall system can be installed at the beginning of the production line to inspect materials in bulk powder or granule form or at any point where inspection of free falling products is necessary.

- Throughput up to 50 tonnes per hour
- Quick release sealed valve or cowbell reject mechanisms available
- Sealed to IP66 for wash down applications
- ATEX zone 21 approved by independent assessor
- Protects downstream machinery when installed early in process
- Reduces wasteful processing of contaminated ingredients
- Test kit included (not ATEX versions)



### INSIGHT PL "Pipeline" metal detector

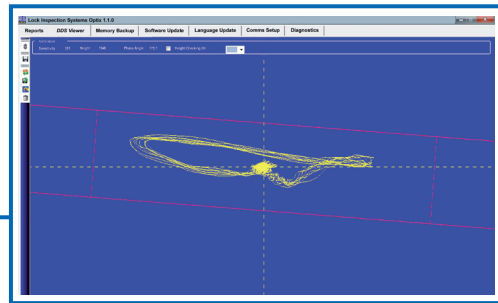
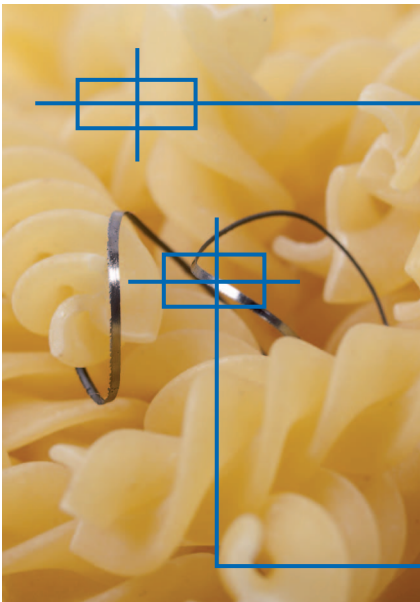
Purpose designed for contaminant detection of products transported by pipeline, especially foodstuffs such as meat, preserves, soups, pet foods, dairy products, powders and pastes.

- Unparalleled accuracy in all environments
- Broad range of flow-rates for industry standard pipe sizes
- Sealed to IP66 for aggressive washdown applications

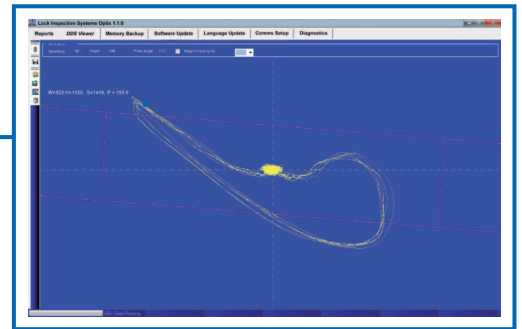
# INSIGHT

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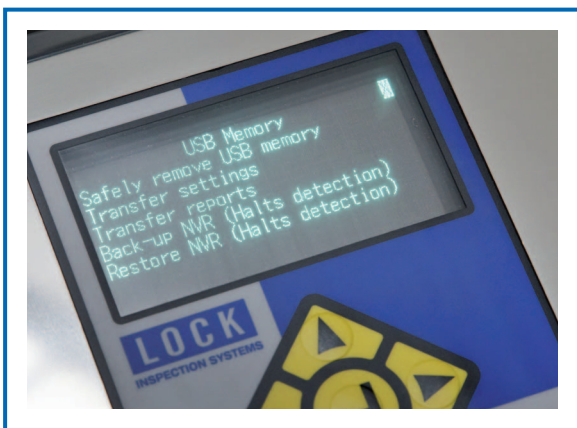
## Analyse



## Detect



## Report





## LEADERS IN METAL DETECTION TECHNOLOGY

With over half a century's experience of delivering custom-designed automated quality assurance solutions, Lock Inspection Systems is setting new standards in metal detection technology.

Locks technical team builds on a database of past experiences compiled from around the world to design tailored solutions to its customers individual requirements. Devoting sustained investment in new product development, the company continues to pioneer innovative equipment that sets ever-higher benchmarks in product protection.

Backed by an extensive international network, our technical and customer services in Europe, the USA and China provide unparalleled after-sales care and consultancy. Lock has secured a leading position in product protection for the food, pharmaceutical and textile industries and is proud to be allied with many of the worlds foremost manufacturers.

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