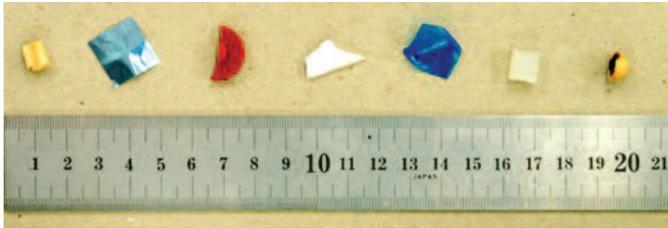


Options for



New detection technology for invisible foreign bodies

Food Radar Systems AB is a Swedish supplier of systems that can increase product safety in the food industry.

The Food Radar detection sensor is their latest development. It has been optimised, in particular, for emulsions and food that are pumped through pipelines.

The difference between this sensor and other detection systems for foreign matter is that it operates with microwaves.

In this way, it can detect low density foreign matter including hard and soft plastic pieces, wood and rubber particles as well as pits or stones from drupes.

The system is equally suited for detecting glass, metal and stones with the detectable particle size being dependent on the homogeneity and composition of the respective food product.

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Detectable and disposable tote bin covers

Metal detectable disposable tote bin covers are the latest product development in the innovative and expanding range of detectable food safe products by Detectamet Ltd.

Following the



development of a metal detectable food

safe polythene, disposable detectable tote bin covers are the first release from a new range of industry leading products to be launched by Detectamet.

It is a result of extensive and continued investment into new product research.

The tote bin covers easily stretch over standard 300 and 200 litre stainless steel tote bins and provide

a hygienic tight seal minimising the risk of product contamination, with the essential benefit of being metal detectable.

They are supplied on a roll and are currently available in blue, red, yellow and green with other colours available on request.

Detectamet Ltd are committed to providing metal detectable solutions for the food sector and this exciting development is part of its ongoing strategy in the development of new and pioneering detectable products for the global market.

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Inspecting free flowing bulk materials

The GF4000 metal detector has been designed specifically for inspecting free flowing bulk materials in the food industry and is unique to S+S Inspection Ltd.

Easily integrated into existing pneumatic and vacuum pipeline systems, the detector is suitable for use with powders, granulates and similar materials at high flow rates. The fast acting rejection system diverts metallic contaminants into a reject container with the minimum interruption to the material flow. All components of the system are manufactured from stainless steel to meet the most demanding hygiene standards.

The modular design allows the GF4000 to be easily integrated into new or existing vertical or horizontal vacuum and pneumatic pipelines up to 150mm in diameter using quick connectors such as Morris couplings to form air tight flanges.

Control is by the well proven GENIUS+ digital processing unit providing the highest level of control flexibility. The control unit uses multi-channel detection technology

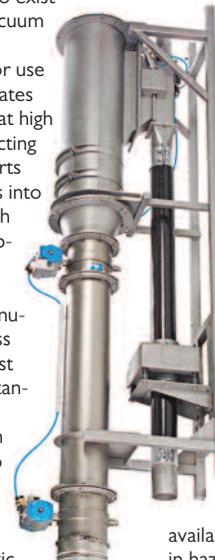
to combine maximum sensitivity to all metallic contaminants with excellent suppression of external EMC interference. The electronics provide fully-automatic self-monitoring, self-calibration and product effect compensation with auto-learn capability. Multiple product data may be stored in non-volatile memory with password protection to simplify system set-up at product change-over.

The menu driven validation system meets the demands for critical control monitoring of all recognised standards, including HACCP, BRC and IFS. A built-in password protected system log records complete documentation of all operating parameters. Data can be integrated into the user's own data processing systems by means of standard interfaces.

Where required, versions are available to ATEX standard for use in hazardous conditions.

The GF4000 system is ideal for inspecting incoming powders and granulates before transporting into storage silos and at any point in the manufacturing process to minimise the risk of contaminants being carried through to final product despatch.

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Self-cleaning magnet eliminates hassle

Industrial Magnetics Inc has launched a self-cleaning, pneumatic line housing (PLH) for dilute-phase pneumatic systems to improve product purity and protect processing machinery from tramp metal damage.

The PLH incorporates a series of 1" diameter rare-earth tubes on staggered centres, to ensure that all of the product flowing through the housing makes repeated contact with the magnets. The resulting capture rate far exceeds any other magnetic separator available for this type of application.

The new unit can be routinely cleaned of captured metal contami-

nants by the simple flick of a switch, encouraging frequent and routine cleaning for optimum performance and eliminating the time consuming and tedious removal of collected metal by hand.

It can work in either a horizontal or vertical position, and the sealed unit stops line pressure drops and surges. It is leak-proof up to 15 PSI and is suitable for processing dry, powder, and granular materials.

Nedox coating on the magnetic tubes protects them from abrasion and corrosion and helps to prevent bridging or clogging in the housing.

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foreign body prevention

Foreign body detectives go on site

RSSL is to employ high-tech hand-held scanners in the fight against foreign bodies in food. Scientists from RSSL's microscopy department are already experts in identifying foreign bodies. Now they are launching a new service that will help trace the source of foreign bodies from the factory floor, and may help companies fight off false claims from customers.

Using the hand-held scanners, RSSL's scientists will be able to map all the different metals, and many of the plastics, which are used throughout a factory. This information can then be correlated with the results of a foreign body identification to suggest likely sources of the contamination.

Or perhaps it will be used to demonstrate that none of the suspect material is used on-site, which might suggest a false claim from the consumer. Some manufacturers might use the service only after a foreign body has been reported. Others will see the benefit of using it before an incident ever occurs.

"Most manufacturers do not have a complete picture about all the

materials that are present in processing equipment," notes Tom Ray, who heads RSSL's microscopy department.

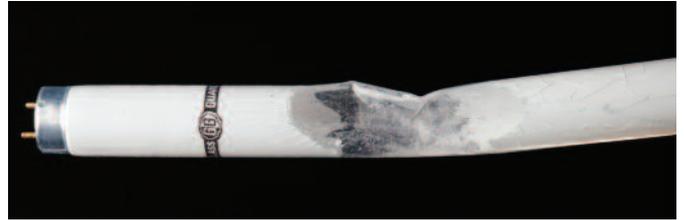
"The first question we ask when we receive a customer complaint and identify the contaminant is where in the plant that particular material is used.

"If manufacturers don't know, the process of identifying the source can be long and drawn out and if production is held up the costs can soon rack up. Mapping the plant ahead of an incident could save hours of time and lost production at a later date."

RSSL's investment in the hand-held XRF scanners will be supported by the addition of new equipment in the microscopy department (including a second high resolution scanning electron microscope and a confocal laser scanning microscope).

This further enhances RSSL's capabilities in foreign body identification and is part of a wider programme of major investment at RSSL in new laboratory spaces and laboratory refurbishment.

✉ enquiries@rssl.com



Lamp coatings are still safe after six years

GlassGuard's BlackBand lamp coatings reduce the risk of glass in food. They have recently undergone testing by a leading UK test laboratory and the result confirms the exceptional performance of the fragment retention lamp coating throughout its life. A drop test after 50,000 burning hours (at least six years) showed no degradation of the fragment retention qualities of the lamps.

This is an important confirmation of the effectiveness and longevity of the BlackBand coating, which pro-

ducts products, profits and personnel by retaining the glass fragments in case of accidental lamp breakage.

This performance far exceeds the minimum requirement for IEC 61549 (BS EN 61549) Fragment Retention Lamp Standard.

The coating will retain its mechanical properties throughout the life of the lamp ensuring glass retention at the end of the lamp life. A lumen loss of less than 1% was also recorded from the 50,000 hour life.

✉ xxxxxxx

Metal detector serves time behind bars

Known around the world for its reliable, robust metal detection equipment, Fortress Technology has installed one of its standard conveyor-based Vector metal detector units at Brixton Prison for the UK television series 'Gordon Behind Bars'.

The four part documentary saw Gordon Ramsay producing mouth-watering lemon treacle slices with the prisoners, with the aim of selling them to retail and catering outlets and forming a new business.

Fortress Technology's metal detector was supplied to the TV production company in order to ensure the cakes complied with food hygiene and safety standards before being sold outside the prison.

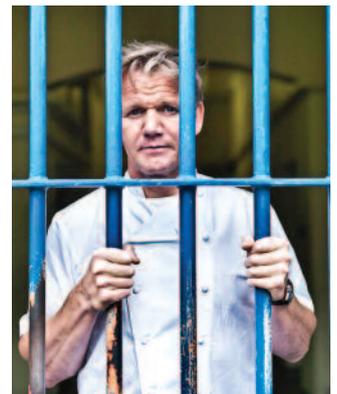
"Our Vector conveyor systems are built to perform in the harshest of environments, but we never expected to be asked to install one in an inner London prison and certainly not for a television show," Phil Brown, sales director at Fortress Technology told International Food Hygiene.

The Vector conveyors are purpose built to customer specifications

and may be integrated with Fortress's Phantom Standard Metal Detectors to provide a convenient and effective 'all-in-one' detection solution. A wide range of belt sizes is available using heavy duty or plastic modular belting, plus there is a selection of reject mechanisms and a variety of advanced options also available.

The first episode of Gordon Behind Bars saw viewing figures peak at an impressive 3.7m.

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Sort any product on differences

Just about every company in the food processing industry has to cope with the high demands of today's international quality standards. Foreign objects like stones, plastics, glass, shells, etc are unacceptable in any form of food. Any form of food needs to be free of bacterial infections and any form of hazardous material.

Whatever your defect, Visys sorts any product on differences in colour, structure, shape, density, bioprint, or any combination thereof. Visys performs at top level due to the smart combinations between digital laser technology and the proprietary Chycane chute-fed system.

Integrated in a full digital range of smart laser sorters, laser sorters, bioprint sorters, optical sorters and X-ray sorters Visys does not allow any form of foreign matter, extraneous

vegetative matter or discolourations to pass the digital sorting barrier.

Today, Visys is the fastest growing global sorting company with a dedicated sorting range for all types of nuts and dried fruit, fresh, frozen or dehydrated.

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