

S+S Inspection Inc.



Product Purity.

**Optimal contaminant detection
for the food industry**

- Metal Detectors/Complete Systems
- X-Ray Systems
- Magnet Separators



Systematic metal detection and contaminant rejection.

Solutions for all process stages and conveying types

pure.

Consumer protection in the food industry: S+S is a global leader in the development and manufacture of detection and separation systems with significant expertise in a wide range of applications, using the most advanced technology to provide a product range that is unrivalled in versatility and quality.

S+S manufactures systems for all process stages, product types, and conveying types, as well as for all critical control points of the production process: This includes Magnet Systems, inductive Metal Detectors with Automatic reject systems and X-Ray Inspection systems.

S+S systems combine exceptional ease of operation with the highest reliability. S+S inspection systems meet all the requirements concerning full traceability and complete documentation of all quality-relevant data.

Effective and reliable detection and removal of

- magnetic metals
- non-magnetic metals (copper, brass, stainless steel etc)
- contaminants (glass, stones, ...)
- faulty products

Highest benefit

- consumer protection
- quality assurance

Seamless integration

- into every stage of the process
- into every type of conveying system
- plug and play board replacement
- customized design

Highly developed technology

- product effect compensation
- digital signal processing
- automatic teach-in
- multi-product memory
- simple to operate

Total project support

- project consultation and analysis
- product trials and test machinery
- training and seminars
- worldwide after-sales service



For bulk materials

Systems with eject flap or swivel funnel are used for the detection and rejection of metal contaminants from bulk materials in free-fall applications. Using standard connections such systems can be easily integrated into existing pipes. Our sophisticated design prevents backjamming, clogging, the formation of material deposits, and provides access for complete cleaning of the reject assembly. All the system components are designed to meet the stringent hygiene requirements for the food industry.

Our free-fall Metal detectors can be integrated in horizontal, vertical, or inclined vacuum and pressure conveyor pipes. These systems are fully automatic in operation, and remove any magnetic and non-magnetic metal particles from bulk materials such as granulate, powder, or flour. With their modular design they can be adapted to the respective conveying conditions.

For the separation of ferrous metals from bulk materials S+S provides magnet separators that are designed for the high requirements in the food industry. These systems are exceptionally easy to integrate into existing or new production lines (e.g. pipes, free-fall sections, or material funnels).

RAPID 4000

Metal detectors for low hygiene free-fall applications. Metal contaminants are rejected by a "Quick Flap System" designed to prevent the interruption of the product flow during the reject cycle.



RAPID 5000

Metal detectors for high hygiene free-fall applications with "Quick Flap Reject System". This design has proven to be especially effective for fine grains and bulk powder applications.



GF 4000

GF 4000 metal detector for pneumatically conveyed bulk materials (e.g. granulate, powder, or flour) utilizes our "Quick Flap System" design which is suitable for high conveying speeds.



MAGBOX FOOD

The MAGBOX pipe magnet for free-fall applications is primarily used in the food industry, the pharmaceutical industry, and other applications that require a high degree of sensitivity for magnetic metals.



RAPID 6000 and RAPID 8000

Metal detectors for free-fall applications with swivel reject system. This reject system is very well suited for following materials: coarse grained or flaky, light fibrous, brittle and moist bulk materials. RAPID 8000 series is designed for very high throughput rates.



For individually packed materials

Metal detectors that are integrated in conveyor belt lines are used for the incoming and outgoing inspection of packaged bulk materials and of individually packed materials. They can be combined with many types of customer-specific automatic reject systems (air blast nozzles, pusher, slide retracts, ...).

Complete systems – comprising of a conveyor, metal detector, and reject system – guarantee the highest operating reliability and detection performance.

C-SCAN GHF

Our latest Metal Detector is primarily used in the food industry mounted to conveyor systems or other product transport systems. It is designed to provide the highest detection capability, especially in regards to stainless steel contaminate detection.



SANICON

High performance metal detection conveyor systems that incorporate many features related to Food Safety and Sanitary design requirements.



SANICON and GLS Metal Detector with Touch Screen

Large intuitive touch screen interface, image driven for easy product and machine operation set-up.

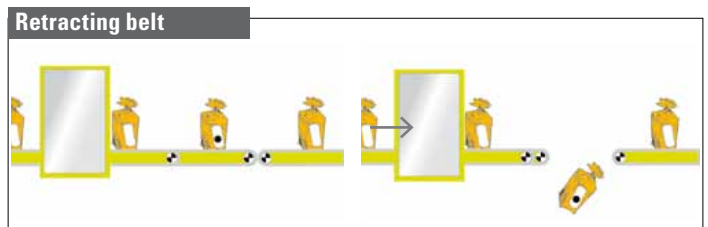
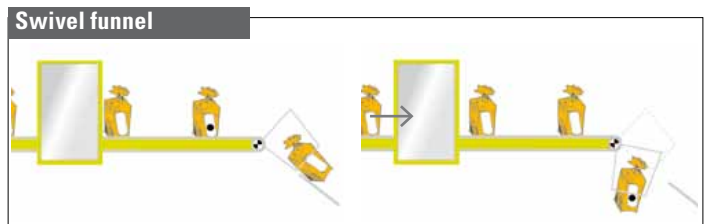
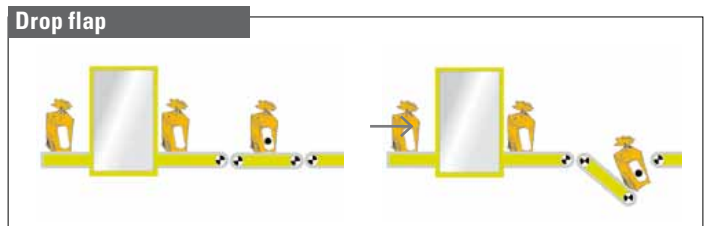
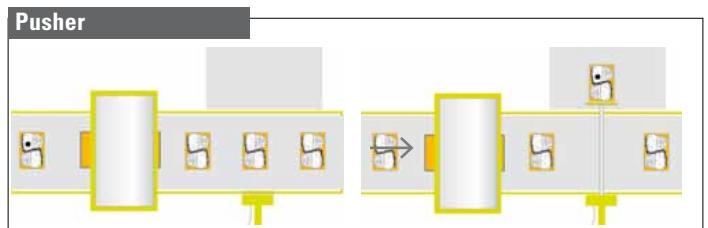
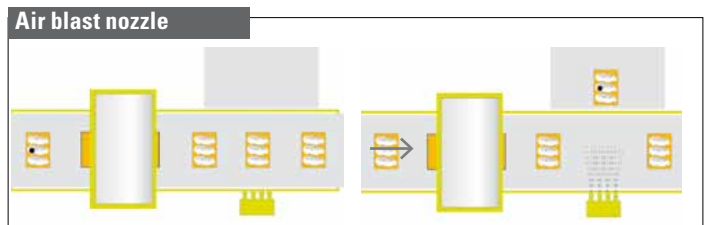
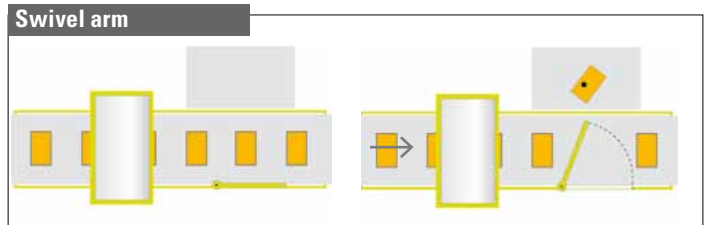
S+S RAYCON X-ray product inspection system provides highly accurate inline detection of contaminants (magnetic and non-magnetic metals, glass, ceramics, stones, raw bones, PVC, and rubber). Other product defects such as broken, malformed, or missing products, clumping, and trapped air can also be detected.

The system also detects a possible underweight or overweight of products. Reliable detection is even guaranteed in metallic or metalized packaging materials. For automatic reject systems, standard and customer-specific reject systems can be integrated into the X-ray system.



RAYCON

In addition to the detection of various kinds of contamination the RAYCON product inspection system allows the detection of other product defects or faults at the same time.



Reject Systems

To avoid the necessity of manual operator intervention in case of contaminate detection, the system can be combined with an automatic reject system. Since the design of such reject systems must consider

a variety of parameters (product distance, shape, size, nature, conveying speed, function monitoring, etc.) S+S offers a variety of reject options designed for specific application requirements.



For liquid and slurry products

Metal detectors for the inspection of liquid or slurry products such as soups, sauces, sausage meat, or jam can be easily integrated into existing pipes with the use of standard quick release pipe fittings or threads. Optimally matched to the respective product, a variety of reject valves (arv, piston, or ball valves) are used for the rejection of metal contaminates.

The metal detector LIQUISCAN VF+ is suitable for vacuum fillers manufactured by Handtmann, Vemag, Rex and Frey and others. Models with linking gear box for manual linking systems are also available.

For the separation of ferrous metals from liquid and slurry products S+S provides the magnet separators of the LIQUIMAG series that are designed for the high requirements of the food industry. These systems are exceptionally easy to integrate into existing or new product lines (e.g. pipes) and incorporate features for easy cleaning.



LIQUIMAG

Our LIQUIMAG Filter magnets were specifically developed and designed to reliably separate the finest magnetic contaminants from a wide range of pumped liquid and slurry products.



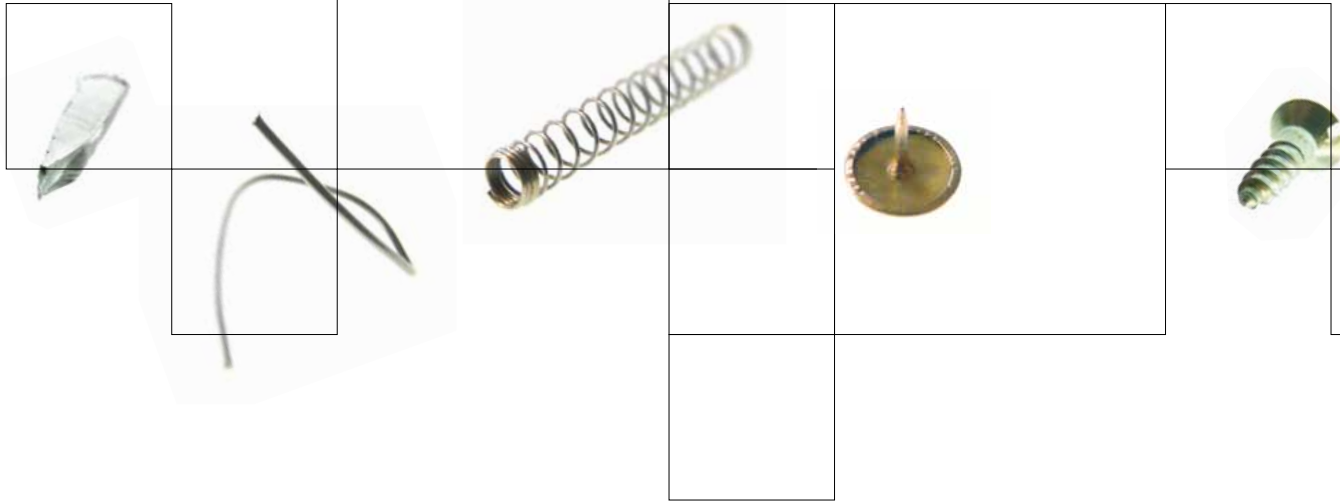
LIQUISCAN VF+

The LIQUISCAN VF+ metal detector for filler applications is installed on vacuum fillers or pumps. It comes standard with adjustable (height) stand and casters. The low and well balanced center of gravity design provides stability when the system is moved.



LIQUISCAN PL

The LIQUISCAN PL metal detector for pumped products is designed to be integrated into product flow pipes. As standard this system is equipped with a base mount or wall mount bracket. As an option an adjustable (height) stand is available with casters.



Consumer protection.

Product purity. An imperative in the food industry

All food products that are consumed by people must be absolutely pure and clean of any contamination. This is one of the most important requirements for any food producer. One critical element is that your products leave the factory free of any metal or other contamination. This guarantees that the consumer is safe from any health impairments, that your company is safe from a loss of confidence or product liability concerns and expensive product recalls.

Quality assurance.

IFS compliant production. Responsibility and economic success

The INTERNATIONAL FOOD STANDARD (IFS) defines the most important requirements for the quality management of food manufacturers. All the renowned trade chains therefore demand that their suppliers are certified according to this IFS standard.

The detection and rejection of metals and contaminants is a critical element of the IFS compliance. Chapter 5 states that food manufacturers must take all of the necessary steps to prevent contamination of metal particles or other contaminants. For example, the IFS rating system provides that when a gap in metal detection is found during an audit, this will lead to deductions of points that may endanger the certification.

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S+S system world**Detecting and
separating
contaminants:**

Removing contaminants:

- metals
- plastics
- glass
- ceramics, porcelain, stones
- and many others

Removing from (good material):

- bulk materials
- liquids and slurries
- individually packaged product
- packed and loose items

Product types:

- end-products (food, textiles, plastics etc)
- industrial raw materials
- recycled materials

can be integrated into
all types of conveyor systems

**Detecting and
separating
sub-standard products:**

Qualitative defects:

- incorrect colour
- agglomerations
- breakages
- air inclusions in packs
- incorrect positioning / distribution

Quantitative defects:

- incorrect weight
- count errors (incorrect number of items in package)

Product types:

- end-products (food, textiles, plastics etc)
- industrial raw materials
- recycling materials

can be integrated into
all types of conveyor systems

**Sorting
mixed materials into
single fractions:**

Types of material:

- glass
- plastics
- metals
- and many others

Delivery flows:

- bulk materials
- individually packaged product

can be integrated into:

- conveying systems
- bulk material flows

For further information or to discuss your particular application contact one of our specialists.

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worldwide

German Engineering with local application
knowledge and locally produced
material handling systems.