



sartorius
mechatronics

Nothing can escape
your quality control!



turning science **into solutions**

Contaminants in clear focus, even at high speeds



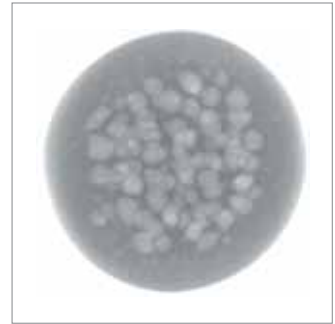
Detection of metallic contaminants, even in metal packages



Completeness check



Weight calculation for individual areas



Recognition of cavities in cheese

The bar is always being set higher in terms of process reliability in the industry. The main focus is on the installation of control points at which products can be checked for contaminants. There are many reasons why contaminants may get into the production process. In every case, they pose a risk to the end user and therefore an incalculable risk for the manufacturing company.

The solution: The Dyxim series of X-ray inspection systems from Sartorius. They detect contaminated products and discharge them safely. These processes are carried out automatically and are documented so that data can be provided for the statistical evaluation of the control process.

Dyxim X-ray inspection systems work to a very high level of accuracy and can detect:

- Metals
- Bones with high calcium content
- Glass
- Stones
- Ceramic
- High-density plastics (PVC)

Dyxim X-ray Inspection

Systems don't just guarantee the detection of contaminants. Added value is generated through:

- Monitoring of form, volume, and dimensions
- Fill level monitoring
- Completeness checks
- Weight monitoring
- Detection of cavities and rips in products

Available Device Models

Dyxim X-ray inspection systems are available in the following models:

- Flat-bed scanner Dyxim FB series
- Single scanner Dyxim S
- Double scanner Dyxim D

Dyxim FB-Series

The Dyxim FB series of X-ray inspection systems is used to inspect products in cartons, plastic bags, metallized film and loose goods.

Belt speeds of up to 70 m/min and a detector resolution of 0.4–0.8 mm ensure rapid, high-precision detection of contaminants. Various versions of the Dyxim FB series are available, depending on product-specific characteristics and individual customer requirements.



Dyxim FB 40
The most compact model in the Dyxim FB series. For the inspection of very small packages.



Dyxim FB 60
For the inspection of small packages at high belt speeds.



Dyxim FB 80/120
For inspection of medium to large-sized products, such as (tubular) pouches, cups, boxes, and small cans, as well as checking unpackaged products.



Dyxim FB 160
The biggest unit in the Dyxim FB series. Suitable for the inspection of large packages and unpackaged products.

Dyxim S and D Series

The single and double scanners in the Dyxim series are particularly suitable for detecting contaminants in foods and beverages packaged upright containers or in jars, metal cans and bottles. Contaminants located directly under the lid, in curved areas or on the sides of a container are a real challenge for any X-ray inspection system.

The Dyxim S and D series of X-ray inspection systems are predestined for such tasks. The Dyxim S series is designed for particularly tall containers and uses a single X-ray sensor, while the patented core of the Dyxim D series comprises two X-ray sensors, installed at right angles to each other. The Dyxim D series is particularly suitable for glass-in-glass applications.



Dyxim S series
Featuring a single X-ray sensor for inspecting jars, metal cans and bottles.



Dyxim D series
High-performance model with patented core (consisting of two X-ray sensors) for inspecting jars, metal cans and bottles.

Advantages of a Double Scanner System



First view

Depending on the container alignment, contaminants may be hiding behind the shadows caused by the side walls.



Second view

The contamination is clearly visible in the center of the image.

Shadows in X-ray images make the detection of contaminants much harder. If you use a double scanner system, you get two views at right angles to each other. This improves detection power significantly in particularly critical areas.

All X-ray inspection systems in the Dyxim series can be fitted into existing system architecture without difficulty. You can also change them over to cope with new products quickly and without great expense. All Dyxim systems are operated simply and intuitively via a 15" LCD color monitor with touch screen. The devices are easy to clean, thanks to their stainless steel housing and optional IP65 protection class. All Dyxim units work automatically in harmony with the production line. There is no need for special operating personnel.

Ask us about the best solution for contaminant detection in your processes. We're here to help.



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