

smiths

Packaged Product Inspection



SMITHS
DETECTION
for a safer world

X-Ray Inspection of Packaged Products

As the world's leading manufacturer of X-ray inspection equipment, with over 40 years of continuous X-ray specialist development, Smiths Detection understands the importance of product quality. The Eagle line of X-ray product inspection systems were designed with reliability, versatility and ease of use firmly in mind; ensuring that you receive the highest quality, totally dependable inspection equipment you deserve and your customers demand. With over 35,000 X-ray systems installed globally, no competitor can even come close to our experience in automatic X-ray inspection.

End of Line Packaged Product Inspection

In order to remain successful in a highly competitive, and increasingly global market place, you must ensure that your products meet the quality standards your customers demand. There is significant costs associated with poor product quality. Before your products even reach the consumer you will need to meet the standards required by retailers and government agencies, we help you demonstrate that commitment to quality. In addition to immediate quality benefits, you will also realize that an Eagle™ system offers you much more in terms of added value – with highest cost/benefit ratio in the industry.

Packaged Product Inspection

The Smiths Detection Eagle™ line of inspection systems provide 100% product inspection of foreign contaminants including: metal, stone, glass, dense plastics and calcified bone, as well as checkweigh and multi-lane inspection capability, we can help maximise your overall line efficiency. Several machine sizes are available to accommodate different product sizes. The Eagle™ X-ray systems intended for packaged product inspection from the smallest footprint to the largest are: Pack 240, 320, 430, 720 and 1000.

Eagle Pack 430

- Designed for mid-sized packaged products
- High speed imaging up to 400 FPM
- Capable of multi-lane applications
- Roll-out conveyors available
- High-resolution package available
- Network Capable
- 15" detector coverage



Twin pack of garlic and butter baguettes inspected for correct weight, contaminants and butter placement



Twin pack of garlic and butter baguettes rejected for incorrect butter placement, even though the package is correct weight



Benefits of Owning an Eagle X-ray Inspection System

Dependability

The Eagle™ X-ray Inspection equipment inspects 100% of the product for foreign body contaminants including: metal, stone, glass, dense plastics and calcified bone. X-ray inspection replaces conventional technologies with reliable inspection of aluminium foil or metallized film, cans or glass jars. While inspecting for contaminants, the Eagle™ X-ray systems can simultaneously checkweigh products, to minimum or average weights legislation both as a whole package weight and at the same time within separate packaged zones. For example, independently weighing meat content in a multi compartment meal to control product giveaway.

Efficiency

Our proprietary SimulTask™ software is able to inspect products regardless of variations such as frozen/thawed state or variations in moisture or salt content. X-ray inspection will help eliminate customer complaints due to low count, weight, broken or damaged product, low fill level. The Eagle™ inspection systems are designed with a small footprint to maximize the available space in your factory. The high speed inspection and rejection capabilities make it easier for you to run your lines faster, which helps you stay ahead of your competitors. With 40 years of designing, manufacturing and testing all critical components in house, we deliver the highest “up time” in the industry, meaning greater equipment reliability, availability and the highest line efficiency. All of our critical X-ray components are designed for 100% duty cycle giving you 24/7 availability.

Return on Investment

The easy to use SimulTask technology, with auto calibrate for contaminant detection and checkweighing, makes it possible to set up a new product in the machine and be running the new product online in a matter of minutes. SimulTask technology provides increased traceability which reduces malicious complaints and provides total due diligence with our full reporting package. The Eagle™ systems will automatically store rejected images with time a stamp in a QA notes section. With full network connectivity and a USB port for easy report and image collection, and an extensive on board diagnostics package available through ethernet or modem allows you to have a technical specialist at your machine within minutes, for error diagnosis and product set up (if required). With a highly competitive price structure and the lowest ongoing cost of ownership the Eagle™ range offers an exceptional return on investment (ROI) in a short payback period.



(Above) A tin of cookies is checked for contaminants, weighed and the individual piece count is verified. Rejects are separated into different bins for contaminated product or weight rejects.

Eagle Packaged Product Inspection Systems

Eagle Pack 240

- Designed for high speed flow-wrap lines, blister packs or small packaged items
- High Speed imaging up to 400FPM
- Multiple inspection capabilities for line rates up to 300 PPM
- IP-64 and IP-65 available
- Network capable
- 6" Detector Coverage

Eagle Pack 320

- Ideal for high speed flow wrappers and small to mid-size packaged items
- High Speed imaging up to 400FPM
- Multiple inspection capabilities at line rates up to 300 PPM
- Network capable
- 9" Detector Coverage

Eagle Pack 430

- Designed for mid-sized packaged products
- High speed imaging up to 400 FPM
- Capable of multi-lane applications
- Roll-out conveyors available
- High-resolution package available
- Network Capable
- 15" detector coverage

Eagle Pack 720

- Designed for small case sizes and multi-lane applications
- High Speed Imaging up to 250 FPM
- Capable of multi lane applications
- Roll-out conveyors available
- High-resolution package available
- Network Capable
- 28" detector coverage

Eagle Pack 1000

- Designed for large case and bag inspection applications
- High Speed Imaging up to 250 FPM
- Capable of multi-lane applications
- Roll-out conveyors available
- High resolution package available
- Network capable
- 39" detector coverage

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