



Sapphire Inspection Systems

Product Guide



Entry Level Systems
Food and Pharmaceutical



A Series

A sophisticated and economic entry level x-ray inspection system for automatic, end-of-line inspection. Compact enough to fit into an existing production line, the A Series from Sapphire can inspect small to mid-size packaged product.

Superior Performance

- Foreign material detection (metal, stone, glass, bone and certain plastics)
- Scan for mass, missing or broken product.
- Detect voids
- Rates up to 150-fpm
- Automatic calibration

Conveyor Systems
Food, Beverage and Pharmaceutical



G20 System

These systems can be configured for a wide range of products from packaged items to unpackaged bulk-product flows. Superior foreign material detection including metal, bone, stone, glass and certain plastics as well as product conformity checks.

Superior Performance

- Flexible layout available in multiple configurations.
- Optional IP69K design
- Hygienic design, to FSMA standard
- Rates up to 400-fpm
- Multi-lane inspection
- Seal verification option
- Curtain-free option



G40/G80 System

Designed for large packaged products and wide unpackaged bulk-product flows the Sapphire G40 and G80 are state of the art, high-speed inspection systems. Offering superior foreign material detection including metal, bone, stone, glass and certain plastics as well as product conformity checks.

Superior Performance

- Custom systems with apertures up to 614mm wide x 614mm high.
- Hygienic design, to FSMA standard
- Optional IP69K design
- Rates up to 400-fpm
- Multi-lane inspection
- Curtain-free option

Hi-Resolution Systems
Fish and Pharmaceutical



G120 System

Using high-resolution area sensors on an indexing conveyor, fish products of all types are examined under high sensitivity for bones as small as 0.2mm in diameter.

Superior Performance

- Automatic bone and foreign material detection including metal, stone, glass and certain plastics .
- Optional rework line and reject stations.
- Designed for wash-down environments with IP69K standard and easy dismantle for sanitation.
- Hygienic design, to FSMA standard
- Low false reject rates



G180 System

The system can inspect dosing devices such as insulin pumps or inhalers to confirm mechanical assembly integrity, as well as check fill level in vials, dose level in capsules, integrity of blister packs, seal and patient leaflet verification.

Superior Performance

- Area Pixel Sensor technology for high resolution imaging.
- Real time analysis.
- Designed to pharmaceutical industry standards.
- Automatic rejection or marking of defective products.
- Available with certified database package to 21CFR Part 11.

Pumped Products
Food, Beverage and Pharmaceutical



G70 System

The Sapphire G70 is an inspection and measurement system for virtually anything that can flow through a pipe. From soups and sauces to meat products, the G70 offers improved contaminant detection prior to filling.

Superior Performance

- Real time fat/lean meat analysis.
- Foreign material detection (metal, stone, glass, bones and certain plastics).
- Throughputs up to 30,000 lbs/hr.
- Automatic changeover between products.
- Designed for wash-down environments with optional IP69K and easy dismantle for sanitation.

Sapphire SAC - Always at the forefront

Renowned as the innovators of low energy inspection, Sapphire Inspection Systems have over 40 years experience in the development, manufacture and application of x-ray inspection systems and core x-ray components.



Pembroke College
Cambridge

Corporate Partner of Pembroke College, Cambridge



Rigid Container Systems

Plastic Bottles, Metal Cans, Glass Jars



G30 System

The Sapphire G30 is designed for small cylinder shaped rigid containers. Combining a side-view and down-view inspection, this system offers the highest levels of detection. Ideal for containers of near equal width and height, the G30 is also suitable if multiple product geometries are produced on a single line.

Superior Performance

- Inspects small jars and cans.
- Dual detection technology, horizontal and vertical inspection, to detect the thinnest glass fragments in glass containers.
- Foreign material detection (metal, stone, glass, bone and certain plastics).
- Automatic set-up.
- Confirms fill level and container integrity.
- Rates up to 330-fpm



G35 System

The G35 rigid container x-ray inspection systems incorporate dual side-view linear array technology, offering users high speed and detection sensitivity. Available with an integrated conveyor or can be designed to fit over an existing production line.

Superior Performance

- Inspects tall bottles, jars and cans.
- Dual detection technology, two horizontally opposed inspections, to check for glass fragments in glass containers.
- Available with automatic inspection height adjustment to ensure optimum performance.
- Confirms fill level and container integrity.
- Rates up to 200-fpm



G50 System

Large rigid containers can benefit from the adaptable design of the Sapphire G50 series. Thanks to the sophisticated dual detector technology even thin glass fragments in large glass containers, can be detected.

Superior Performance

- Inspects large bottles, jars and cans.
- Two independent x-ray generators and dual linear array technology.
- Optional third view for increased detection sensitivity.
- Available with an integrated conveyor or can fit over an existing production line.
- Hygienic design, to FSMA standards
- Containers as tall as 300mm
- Confirms container integrity and fill level.
- Rates up to 400-fpm and beyond



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