

smiths

Rigid Container Inspection



**SMITHS
DETECTION**
for a safer world

X-Ray Inspection of Rigid Containers

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.

Rigid Container Product Inspection

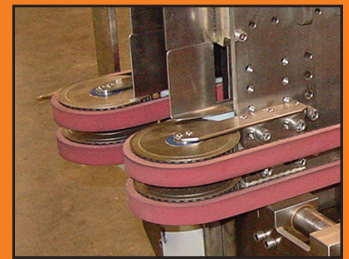
Smiths Detection's rigid container inspection systems, the Eagle Tall and the Eagle QuadView, make the difficult task of inspecting rigid containers for foreign contaminants -- even glass in glass contaminants -- possible. The Eagle Tall, our single-view system, is designed to allow for installation over a customer's existing conveyor line, eliminating the need for costly line modifications. The over the line systems allow easy access for cleaning and routine maintenance. Smiths Detection's newest system, the Eagle Quad View, inspects glass jars using four separate views to ensure complete inspection of the container even in the bottom of the jar (or the crown area).

Eagle™ QuadView

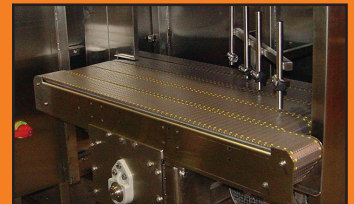
- Full coverage detection - NO BLIND SPOTS
- Ideal for glass-in glass contaminant detection
- Line speeds up to 400 FPM/122MPM
- 4 angles of inspection for contaminants, resulting in a low false reject rate while providing a clear image of the jar bottom
- Fully integrated material handling system available
- Installation ease by dropping over the existing conveyor line
- Image analysis software that adjusts to accommodate varying crowns on jar bottoms
- The only solution to detect glass anywhere on the bottom of a glass container
- Fill level, weight, non-glass contaminants also can be detected



SimulTask 4.0 Screen Shot



Optional Side Grip Conveyor for QuadView



Optional Side Transfer Conveyor for QuadView



Eagle™ Tall

The Eagle Tall is used for high-speed online inspection of vertical containers such as cardboard cylinders, vertical cartons, jars and upright bags. This machine sits over an existing conveyor which provides ease of installation, as well as accessibility for cleaning and routine maintenance. The Eagle Tall eliminates the need for costly line modifications required to install most online inspection systems.

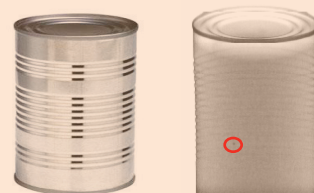
- Line speeds up to 400 FPM/122MPM
- 12"/305 mm high detector coverage
- Generates real time streaming statistical data
- Network capable
- Detects metal, glass, and stone inside rigid containers of all types
- Verify total weight and fill level in metal, fiber, and plastic containers
- Single view geometry is ideal for metal and metal/fiber cans plus plastic bottles
- Cost effective solution for the inspection of glass jars for glass contaminants when the contaminant tends to suspend above the jar bottom



Spotlight Application - High speed checkweighing of cans

In addition to its contaminant detection abilities, the Eagle Tall has the capability to check-weigh cans and reject consecutive cans running at approximately 500 pieces per minute. Dual reject stations remove cans from the line and into separate reject bins depending on whether they contain contaminants or are of an unacceptable weight. A reject-verify system will ensure that each rejected can is actually removed from the line.

Sample Eagle Tall Applications



Can containing 1.5mm stainless steel contaminant



Jar containing 1.5mm stainless steel and 2.5 x 3 x 5 glass shard



Peanut Butter Jar containing 1.2mm stainless steel and 3.0mm glass



Baby Food Jar containing 1.25mm stainless steel sphere



Salad Dressing containing 1.25mm stainless steel sphere

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