

# InspireX R50D & InspireX R50Q

## Total Inspection In Another Dimension



**The InspireX R50D and R50Q x-ray systems provide outstanding detection of foreign bodies such as glass, stone, metal, bone and high density plastic in tall rigid containers including bottles, metal cans and jars.**

### **InspireX R50D**

The InspireX R50D is a dual beam x-ray system that not only detects foreign bodies but can simultaneously perform a range of product integrity checks such as mass measurement.

### **InspireX R50Q**

The InspireX R50Q uses four x-ray beams so is especially effective at inspecting wide neck and non-uniform glass jars for glass shards.

### **Quick, Easy and Cost-Effective Installation**

The InspireX R50D and R50Q x-ray systems simply straddle existing production conveyors and take up minimum line space. This provides a quick, easy and cost-effective installation without the creation of additional product transfer points.

### **X-ray solutions for a range of applications**

The systems are suitable for the inspection of plastic bottles, tetrapacks, glass jars and metal cans. Both systems suit single-lane applications.

# InspireX R50D and R50Q

## Functionally Rich X-ray Systems

The InspireX R50D and R50Q x-ray systems offer superior inspection on medium and high density containers like metal cans and glass jars. They provide exceptional ferrous, non-ferrous and stainless-steel detection as well as the detection of other foreign bodies like glass, metal, stone, bone, high density plastics and rubber compounds like viton. In addition they can simultaneously perform a wide range of in-line quality checks including monitoring fill levels, detecting damaged packs and inspecting that the closure is in place e.g. the bottle cap.

### Software Capability

- Unique XTP software tools analyse products with the highest possible resolution, offering unsurpassed levels of detection particularly in challenging areas of a metal can or glass container
- Fully automated set-up ensuring maximum production uptime
- Adaptive filtering - meaning the container outer profile filters dynamically change for every container ensuring optimum detection and minimum false rejects

### Design / Hygiene

- Class-leading hygienic design following GMP, NSF and EHEDG principles
- IP65 as standard and IP69K is available as an option for harsh wash down environments
- Easy access to all machine areas with no hidden bug traps where bacteria could breed, ensuring minimum downtime and optimum protection against pathogenic micro-organism growth
- Parallel cooling method reduces air conditioner size & running costs

### Audits / Verification

- Full statistics traceability for quality reporting
- Images/statistics retained after power down, ensuring sensitive data is retained
- Performance verification built in to ensure constant optimum performance
- All reports/images downloadable to USB or via network – paperless record keeping
- Reject confirm and bin full options ensure a 100% effective rejection from the line

### Flexibility

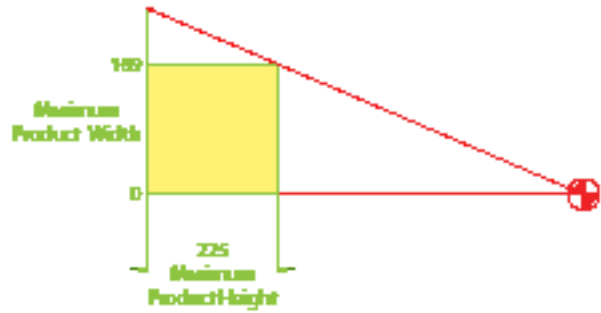
- Low power 360W x-ray generator to suit a wide range of containers like metal cans and glass jars
- Optional diode sizes to suit a variety of applications
- X-ray scan speed automatically synchronises with customer belt speed, keeping one to one image ratio - no manual adjustments are required, ensuring maximum uptime of the production line, detection is optimised and rejection is never compromised



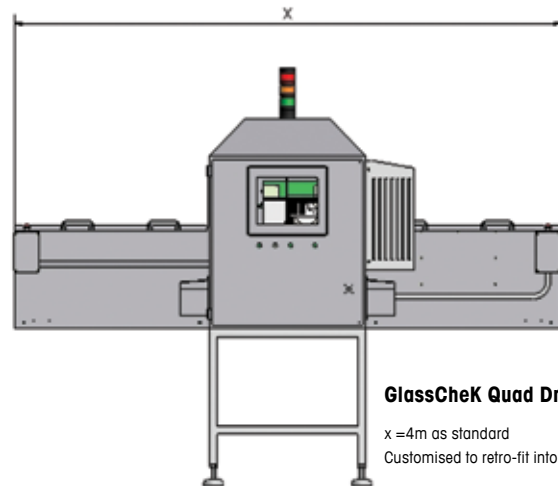
## Advantages of Multiple X-ray Beams

Any container that fits inside the x-ray beam angle can be inspected. For tall rigid containers multiple x-ray beam inspection provides unsurpassed detection. Angled beams reduce blind spots and optimise detection in the most challenging areas - base, sidewalls and neck.

With the InspireX R50D each product is scanned by two horizontal x-ray beams. For the InspireX R50Q the product is simultaneously scanned with one vertical and three horizontal x-ray beams, significantly increasing the overall inspection coverage in jars.



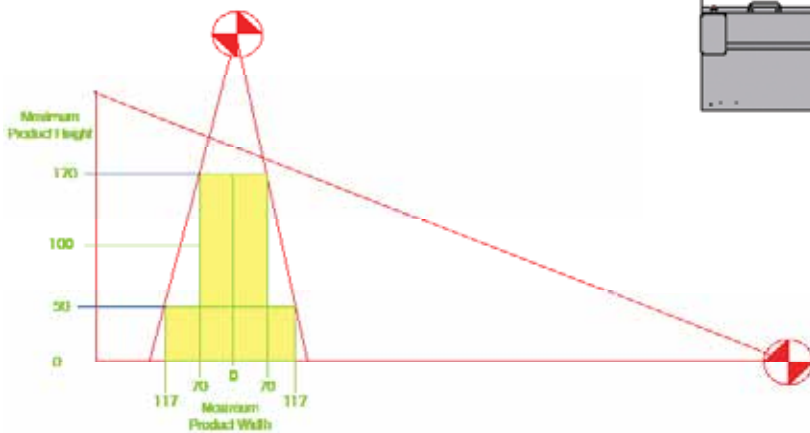
InspireX R50D



**GlassCheK Quad Drawing**

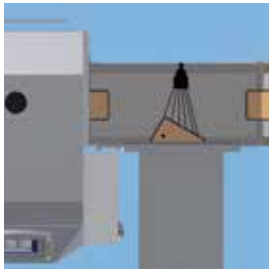
x = 4m as standard  
Customised to retro-fit into existing lines

InspireX R50Q

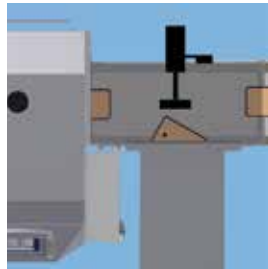


## Reject Mechanisms

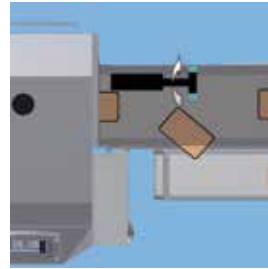
There are a number of different types of fully integrated high-speed reject systems available. The correct choice depends on a number of factors like type of environment, belt speed, container type, weight and size. All reject systems have optional reject verification, ensuring that the faulty product has been rejected into the reject bin, verifying the reject is working.



Air blast reject system



Side pusher reject system



Servo Cam reject system

## Specifications

Model	InspireX R50D / R50Q AFD
Adaptive software	Automatic product variation compensation and real time display
Casing material	Stainless Steel - system is lead free
Connectivity	External USB (capturing data on a memory stick) or Ethernet ports directly or via optional OMAC OPC server
Maximum scan height	R50D 300 / 400mm and 400 AFD (Adjustable Focal Distance), R50Q 147mm
Conveyor speed	Up to 90m/min. as standard (using the customers conveyor) / fully variable via encoder as an option
Cooling method	Air conditioned main cabinet. Recirculating oil cooling system for optimal low x-ray tube temperature.
Display	Full color TFT 15inch touch screen
Masking function	Equipped as standard
Operation humidity	30-85%
Temperature	5-40°C
Power options	80Kv 4.5mA
Power supply	230V (50/60Hz)
Preset memory	Unlimited amount of product menus as standard
Traceability	Full event log incl. changes of parameters, products and users
X-ray detector	Highly stable USB detector with 0.8mm diode as standard / 1.5mm diode as an option
X-ray emissions	< 1microsievert per hour
X-ray protection	Protective curtains or Extended tunnel guards or Chicaning

## InspireX R50D and R50Q Capabilities

The InspireX R50D and R50Q x-ray systems are specifically used in the food and pharmaceutical industries and are most suitable for the inspection of packaging types like metal cans, glass jars and tall rigid containers.

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For more information



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