



| Features  | Suppliers  |    |    |
|---|--|----|----|
|   | APM / Smiths   |    |    |
| <b>General</b>  |  |    |    |
| (1) Manufacturer or assembler   | Manufacturer   |    |    |
| (2) Dual energy detection option available                                  | √  |    |    |
| (3) Quad view for glass in glass inspection                                 | √  |    |    |
| (4) Food XR Specialist  | √  |    |    |
| (5) Detection anywhere in the product <u>and anywhere in the container.</u> | √  |    |    |
| (6) Full stats & time stamped reject images                                 | √  |    |    |
| (7) Easily networkable  | √  |    |    |
| (8) Full BRC / Tesco / M&S specification                                    | √  |    |    |
| (9) Weighing facility available   | Subject to product tests   |    |    |
|   |  |    |    |
| <b>Hardware</b>   |  |    |    |
| (10) XR Tube Warranty   | Standard tube has 4 year "sliding scale" warranty. Ask for details |    |    |
| (11) Sealed XR tube or costly oil changes required.                         | Patented hermetically sealed maintenance free tube                 | €€ | €€ |
| (12) Industrial PC + UPS  | √  |    |    |
| (13) IP65 & IP69K Available   | √  |    |    |
| (14) Air conditioner as standard  | √  |    |    |
| (15) Factory air & dust sucked into the machine                             | No   |    |    |
| (16) Compliance with local XR rules (NI & ROI)                              | √ Full   |    |    |
| (17) Full XR license &  | √ Full   |    |    |



|  |                   |  |  |
|--|-------------------|--|--|
| insurance held by local supplier                         |                   |  |  |
| (18) Fully qualified experienced local technical support | √                 |  |  |
| (19) Extensive local installed base in the food industry | √ Ask for details |  |  |

(1) Some companies notably metal detector manufacturers have started to assemble XR systems by buying in components such as the XR tube. Typically these units achieve low cost by using cheap components. Smiths Detection is a specialist XR manufacturer i.e. the main components are all manufactured by Smiths Detection. Today more than 35,000 Smiths Detection x-ray units are in operation in 150 countries. You can have full confidence in the quality of Smiths XR systems.

(2) An example of tangible technology leadership is Smiths' MDX option which differentiates between organic and inorganic matter.

(3) Another tangible example of technology leadership is the ability to view a glass jar from four angles giving superior glass contaminant in glass container inspection.

(4) Smiths is the largest manufacturer of XR inspection systems in the world. The food inspection division is based in Alcoa in the USA. Here food inspection specialists have developed unique hardware and software solutions based on many years partnership with the world's leading food producers.

(5) Generally speaking most XR systems find it easier to detect contaminants in the densest part of the product (In the direction of the XR beam). The difficult thing for some machines is to detect a contaminant in the least dense part of the product. Make sure you trial both.

(6) Having the ability to view automatically date and time stamped images of rejected product is a major bonus for QA staff e.g. the image makes finding the contaminant within the product an easy task as the image tells you where to look.

(7) The Smiths machine is Windows XP based making secure networking for remote access to reports easy without having to buy special software.

(8) As the standards change we change with them. You can be sure that your new Smiths system meets the latest BRC, Tesco & M&S specifications.

(9) We have installed XR systems in Ireland which weigh multi-lanes of food products as well inspecting for contaminants. Think of the simplicity of a single conveyor for multi-lane products



compared to the mechanics involved in a combined metal detector check weigher set up. This application requires product testing to determine suitability.

(10) The XR tube is a key expensive component within an XR system. Ask each supplier if they manufacture the tube and what the warranty is.

(11) The X-ray tube is located in an oil bath. For most suppliers the oil gets dirty over time as the oil sump sucks in moist air & contaminants. Even if you accept the high cost of regular oil changes you still run the risk of dirty oil leading to tube failure. Smiths' hermetically sealed tube technology is a major selling point as it saves money & downtime.

(12) Some X-ray units are controlled by standard home PCs instead of industrial PCs. Ask for details.

(13) If you need to wash down then you need to know the IP rating.

(14 / 15) An air conditioner keeps the machine cool without sucking in moist air or dust leading to higher reliability & longer life.

(16) The rules in NI & ROI are different. We make sure the installation is fully compliant to local rules.

(17) We are fully licensed and insured to transport, sell, install, operate & repair X-ray inspection systems for the food industry. Ask for license & insurance details from all potential suppliers.

(18) We provide fast and efficient local support. Ask if support is local or based from England etc...

(19) Ask for references. We can provide a comprehensive list of Irish users of Smiths Detection X-ray inspection systems in many areas within the food industry.

XR systems will not detect flies, hair nets, light wood, hair, plastic gloves, and aluminium foil.