XR-TDI CHEESE BLOCK X-RAY INSPECTION SYSTEMS

TDI PACKSYS

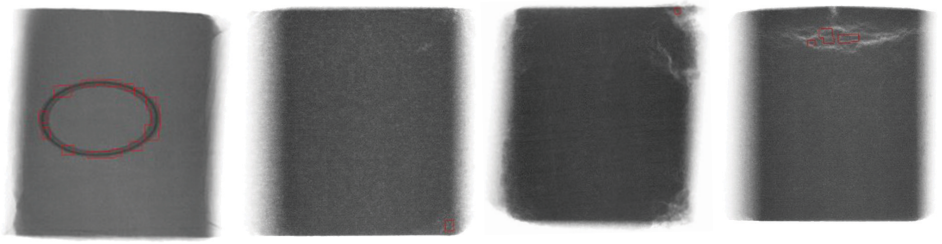
X-RAY THE WAIT IS OVER

XR-TDI Cheese Block X-Ray Inspection Systems are the first viable x-ray inspection solution for the ~40lbs cheese blocks. Don't get stuck using metal detectors or other out-dated technology – these systems can not only inspect large cheese blocks; their sole purpose is doing so!

Systems feature the industry's most powerful x-ray generator with advanced product masking software – find metal contaminants down to 0.8mm; find glass, stone, gaskets, and other dense contaminants to 2.0mm. With a modified conveyor, motors, and roller configuration, the weight of multiple cheese blocks in the x-ray system at one time is no concern for the cheese block x-ray.

Applications

- Plug-and-play solution for inspecting 40-lb cheese blocks
- Full-range detection – find metal contaminants down to 0.8mm; find glass, stone, gaskets, and other dense contaminants to 2.0mm
- Detect integrity issues (broken, hollow blocks, improper seals, etc.)



Gasket | Improper Vacuum Seal | Broken Corner | Block Integrity Issue

Key Features & Functionalities

- **1st viable x-ray solution** for ~40lbs (18kg) cheese blocks
- Combines the **industry's most powerful x-ray generator** with an advanced **TDI high-configuration detector** for superior penetration and performance
- **Advanced proprietary software** developed in conjunction with leaders in the cheese industry
- **Modified conveyor, motors, and roller configuration –** designed to handle the weight of multiple cheese blocks
- **Detect defects or integrity issues –** including blocks with broken corners or edges, hollow blocks with pockets of liquid, and even blocks that have not been properly vacuum sealed will all be detected by the cheese block x-ray
- **Full-range detection –** find metal contaminants, as well as glass, stone, gaskets, and other dense materials
- **304 stainless steel construction**
- **Customized generator placement** for optimal sensitivity
- **Optional reject conveyor** automatically removes any product suspected of having contaminants
- **Easily view and export detailed data logs** on production rates, times, and contamination %s; download via Ethernet or USB
- **User-friendly Windows-based software –** quickly change between programs; real-time images of the current product allow for quick location and identification of contaminants

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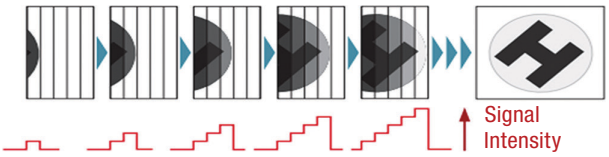
System Highlights

TDI (Time Delay Integration)

TDI is a technology that delivers increased detector exposure levels by converting multi-row surface images to single-row line images by signal accumulation. We use an 8-stage TDI detector: for the same x-ray energy, the TDI detector achieves 8 times the exposure of a standard linear array detector.

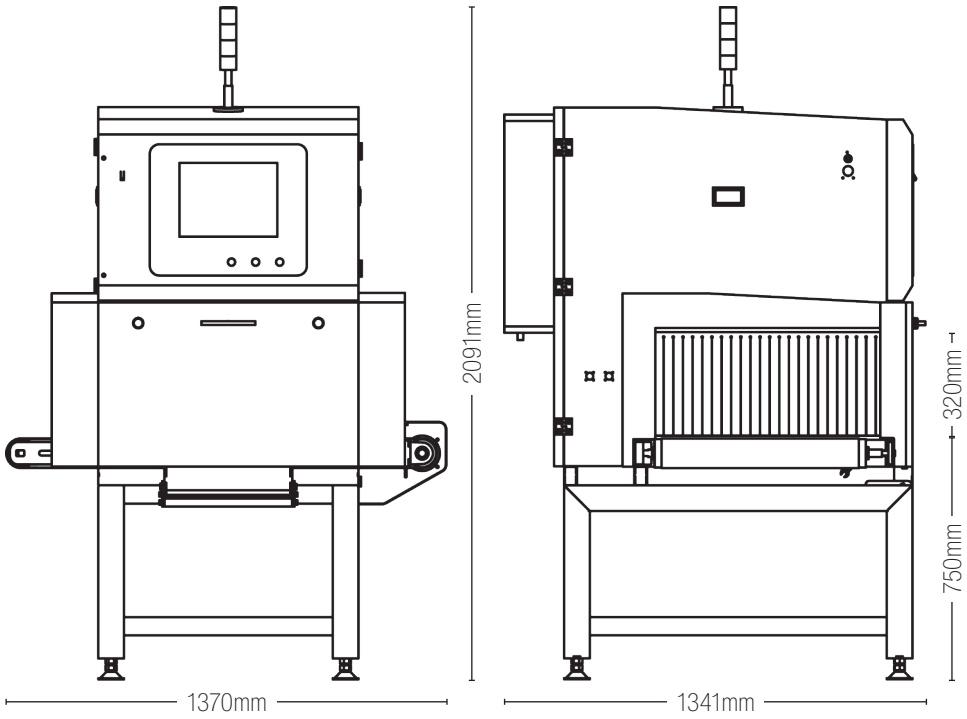


Smart Algorithms (AI)

Smart Algorithms (also refer to as AI) add an additional level of inspection; developed on a per product and per application basis. They allow the system to simulate Computer Vision, and optically inspect the x-ray image for contaminants. If the contaminant can be seen, it can be detected, even if the density is too low to be caught by traditional x-ray algorithms. The system learns the normal product state, and can then identify any visible contaminants, regardless of density.

	XR-6080CH
X-Ray Generator:	MAX 120kV, 480W
Inspection Width:	600mm
Inspection Height:	300mm
Conveyor Speed:	10-60m/min
Operating System:	Windows Professional
X-Ray Emissions:	< 5 µSv/h (CE standard)
IP Rating:	IP54/IP66/IP69K
Working Environment:	Temperature: 32-104°F; Humidity: 30-85% (no dew)
Reject Options:	Sound and Light Alarm; Belt Stop; Optional Rejectors
Power Supply:	220V/60Hz
Construction:	Stainless 304
Operator Interface:	15" Touchscreen HMI
Data Export:	USB/Ethernet/WIFI
Finish:	Mirror Polish / Bead-Blasted

Note: Product models and specifications are subject to change. For more information, contact TDI Packsys.



Note: Dimensions shown above are for the XR-4080CB; subject to change.

TDI Packsys

TDI Packsys is a premier provider of inspection solutions and packaging automation systems. Our expert team is dedicated to delivering state-of-the-art solutions that meet your budget. Contact us to see how we can help optimize your operation.

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