



**Thermo Scientific Xpert B400/B600**  
X-Ray Inspection System

- Detects contaminants in bulk flows
- Maximized throughput
- Multilane rejection to reduce waste
- Easy to clean and maintain

## Foreign object detection

in bulk food products prior to use as ingredients or packaged products

The Thermo Scientific™ Xpert™ Bulk X-ray Inspection Systems start where other contaminant detection approaches leave off. They are ideal for finding metal, glass, rock and other objects in bulk foods such as nuts, seeds, berries or vegetables. The systems come in two inspection widths to optimize throughput/cost and can be customized to fit your production environment.

# Thermo Scientific Xpert B400/B600 X-Ray Inspection Systems

## Application and X-Ray Specifications

|                                   |   |
|-----------------------------------|---|
| X-ray Power                       | 70 kV, 1.2 mA (84W) or 80 kV, 2 mA (160W). B600 160W only   |
| Detector Scan Rate                | Up to 2800 lines/second   |
| Detector Resolution               | 0.8mm standard, 0.4mm optional on B400  |
| Detection Algorithms Available    | Binary, Contrast, Gradient, Groups, Morphology  |
| Inspectable Belt Width            | 264mm (10.39") up to 72mm (2.83") product height (B400)<br>474mm (18.66") up to 72mm (2.83") product height (B600)              |
| Belt Speed Range                  | 10m/min to 64m/min (33ft/min to 210ft/min)  |
| Multilane Operation               | Single lane or 4 lanes with separate reject gates   |
| Maximum conveyable product weight | 10 kg (22 lbs)  |
| Input Funnel Height               | 1350 mm (53 in) ± 75 mm (3 in)  |
| Output Chute Height               | 541 mm (21 in) ± 75 mm (3 in)   |
| System Length                     | Approximately 2.4 m (94.5 in)   |
| X-Ray Shielding                   | No curtains required  |
| Safety/Security Features          | X-ray power key, emergency stops, radiation curtains, LED X-ray imminent/on lights, all doors equipped with magnetic interlocks |
| Human Machine Interface (HMI)     | 15-inch diagonal touchscreen with protective cover  |
| Interface Languages Available     | English, Spanish, Italian, French, German, Chinese; Others available on request   |

## Environmental, Electrical and Operational Specifications

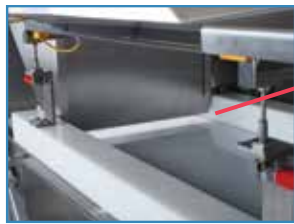
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| Operating Temperature                  | +5°C to +40°C (+41°F to +104°F)                    |
| Machine Cooling                        | Built-in 2083 BTU (610 W) cabinet airconditioner   |
| Relative Humidity                      | 20% to 90% non-condensing                          |
| Electrical Input                       | 190 to 240 VAC, 50/60 Hz, 20-amp service           |
| USB Port                               | 2.0, watertight port on outside of machine         |
| Network Port                           | Ethernet   |
| Compressed Air (for rejection devices) | 80 psi to 100 psi (5.5 bar to 6.9 bar)             |
| Machine Weight (standard model)        | B 400: 850 kg (1870 lbs), B600: 1040 kg (2290 lbs) |

## Conformance Tests and Certifications

|                              |   |
|------------------------------|---|
| Radiation Safety Conformance | FDA CFR 21 part 1020.40 (contact factory for other regional certifications) |
| Export/Safety                | CE, UL or CSA 508A on request (verified by ETL)                             |
| Intrusion Protection Rating  | IP 54 or IP65 with stainless steel airconditioner                           |



Infeed funnel with adjustable product metering



Inspection area with product guides (troughed belt for small products available)



Good product outfeed chute (rejects drop down to bin or takeaway conveyor)



Multilane rejection gates (other rejecters available for small products)

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Literature Code CAD.PI08.0616