

Thermo Scientific Xpert Bulk B400/B600

X-ray inspection for foreign object detection in bulk food 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.

Features

All of the Xpert Bulk systems have the following features:

- Detect a range of foreign objects in bulk flows
- Multiple belt widths optimize flow, sensitivity and cost
- Multilane inspection/rejection minimizes waste
- Easy to clean and maintain
- Heavy duty design; rollers, bearings, AC drive and frame/cabinet
- Shielding to meet radiation requirements anywhere in the world

Options

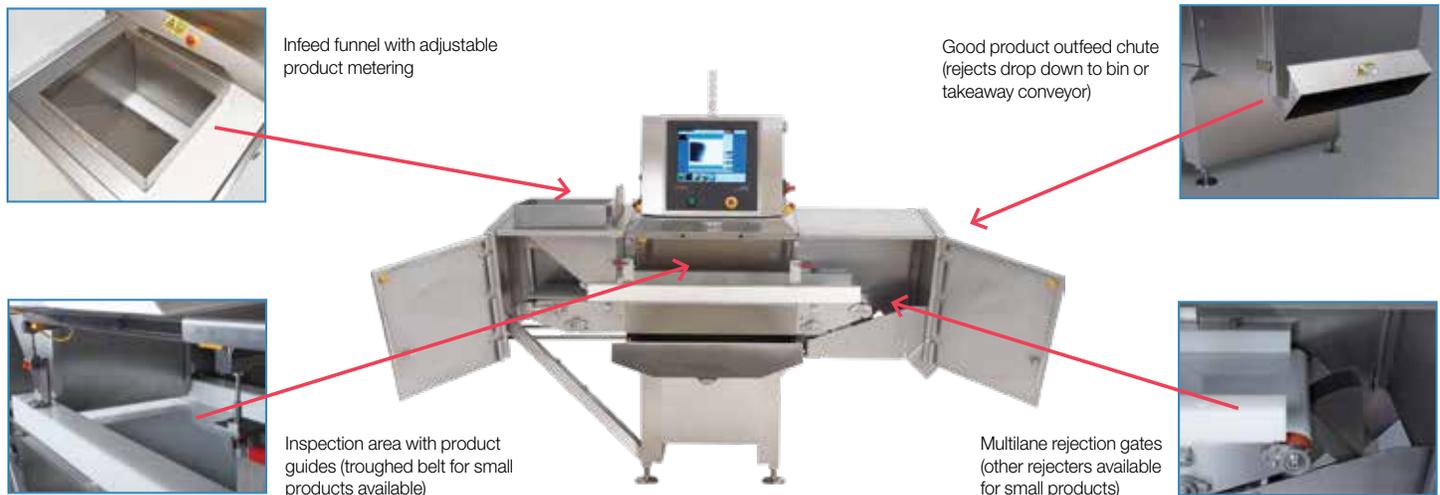
There are a number of options available to meet your needs. They include:

- Stainless steel washdown AC cooling
- Other product guide styles
- Higher power X-ray sources
- Higher resolution detector (B400 only)



Thermo Scientific Xpert B400/B600 System

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	274mm (10.79") up to 72mm (2.83") product height (B400) 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 8 lanes with separate reject gates
Maximum conveyable product weight	80 lbs (36 kg)
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 have 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
Environment, electrical and operational specifications	
Operating Temperature	+5°C to +40°C (+41°F to +104°F)
Machine Cooling	Built-in 2083 BTU (610 W) cabinet air conditioner 1708 BTU/h (500W)
Relative Humidity	0% to 90% non-condensing
Electrical Input	190 to 240 VAC, 50/60 Hz Single Phase, 20-amp service
USB Port	2.0, watertight port on outside of machine
Network Port	Ethernet
Compressed Air (for rejection devices)	40 psi to 100 psi (2.75 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



Find out more at thermofisher.com/xpertBulk

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