

C3-1604

Automated X-ray Inspection System Specifically for Bakery Applications

The **Concept-3™** Series, model C3-1604 X-Ray System is specifically designed for the rapid automatic inspection of package baked product. Bakery applications typically require wide inspection coverage and high ambient temperature capacity. These and many other requirements are covered as standard equipment with the model C3-1604.

Using the **HyperSwitch™** processing platform, this system can simultaneously detect product defects such as:

- Foreign Objects (Metal/Glass/Stone)
- Shape
- Weight/Mass/Fill
- Item Count
- Pinched-in-seal problems
- Item position
- Cross sectional density/uniformity
- Presence/absence of an item

The unique architecture of the **HyperSwitch™** software enables inspection of multiple product types interspersed on a single conveyor. This gives one machine the capability to serve several product producing streams.

Concept-3's low energy system construction is 100% lead free therefore eliminating any hazardous material consideration.



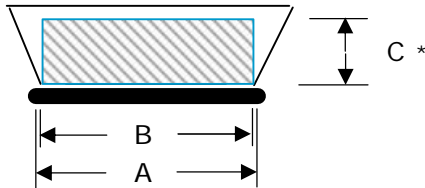
Model C3-1604 shown with option push-arm rejection.

Feature Highlights

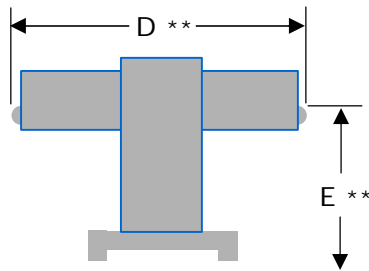
- **HyperSwitch™ software allows mixed product and multiple lane inspection**
- **NEMA-4 or IP65 rating with high capacity A/C for up to 130F ambient conditions.**
- **HyperSwitch Bene™ software automates product setup for contaminant and weight**
- **Conveyor and processing speeds up to 120 FPM standard, higher available**
- **Full tunnel aperture coverage of 16"W x 4"H with no missed upper corners**
- **Conveyor belt is FDA approved and can be easily removed for cleaning**
- **Air-blast, push-arm, drop chute and retractable nose conveyor rejecter mechanisms**
- **Small footprint in 100% stainless-steel construction**
- **Ethernet interface for remote archive, control, and service options**

Technical Overview

Inspection Size



Conveyor size

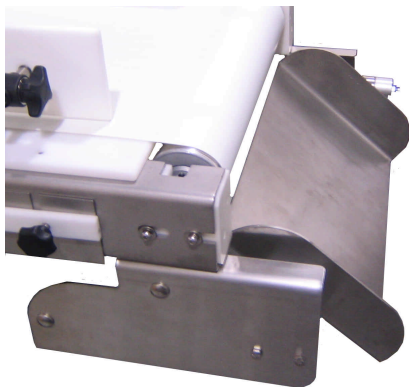


Model Number	A	B	C	D	E
C3-1604-XXXX	16.0	16.0	4.0	60.0	37 – 41**

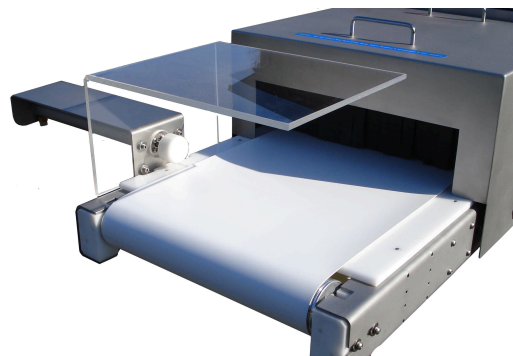
- * Active area is completely square, no missing corners
- ** Custom conveyor heights and lengths available. Add 16" for standard integral rejecter option.
- *** Model number (XXXX) is the x-ray power, e.g. 5002 for 50Kv/2ma

Key Technical Specifications

Belt Speed	Up to 120 FPM maximum
Cooling	3500 BTU Closed system
Inspection Rate	Up to 1000 packs/min
Contaminant Detection	0.6 mm SS sphere minimum Metal / Stone / Glass
Detection Aperture	Full tunnel coverage
Power Service	230VAC 50/60hz 15amp 1Ø service
X-ray Generator	50 keV (optional 80 keV)
Display	12" diagonal TFT-LCD touch screen, rated IP-65
Processing System	HyperSwitch™ on QNX O/S
Communication	TCP/IP over Ethernet
Cabinet	304 stainless steel bead blasted
Conveyor	Medium friction, FDA approved
Temperature	0 to 54°C (32 to 130°F)
Environment	NEMA-4 / IP65
Reject System	Air blast or Push-arm, Drop Chute, or Retracting Nose
Automatic Setup	Contaminant and Weight



Optional side-flap rejecter



Optional push-arm rejecter

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