

EAGLE™ PACK 430

X-RAY INSPECTION SYSTEM



Beam Width	Package Height
284mm (11.1")	152mm (6")
334mm (13.1")	101mm (4")
384mm (15.1")	50mm (2")
434mm (17.1")	BELT

Feature Highlights

- **Advanced image analysis with proprietary SimulTask™ software for automatic detection and rejection**
- **Auto-learn enables simple setup for new products**
- **Built in modem and Ethernet card for remote technical support**
- **High speed imaging up to 120MPM [400FPM]**
- **Tool-less belt removal**
- **A/C Cooling is standard on all models**
- **HACCP ready, full event and contaminant logging**

The Smiths Detection Eagle line of inspection systems provides 100% product inspection of foreign contaminants including: metal, stone, glass, dense plastics and calcified bone. The systems can also check weigh, measure fill-level, verify component presence/absence and are multi-lane capable; Smiths can help maximize your overall line efficiency.

The Eagle Pack 430 is designed for inspection of mid-sized packaged products. The system provides 430mm [16.9"] of detection coverage at the belt and is capable of high-speed imaging up to 106MPM [350FPM]. With the Eagle Pack 430's multi-lane inspection abilities, customers can inspect multiple lanes of the

same or dissimilar products or use one lane for production and the other for rework. Standard and high-resolution packages are available to satisfy each customer's specific requirements by balancing smaller contaminant detection and high line speeds.

All Eagle systems are network capable, allowing remote access by Smiths Detection's expert technicians to quickly diagnose and often correct issues without dispatching a technician for on-site service. The system is available in both IP65 and IP69k environmental ratings to suit any packaging plant, and features a roll-out conveyor for easy maintenance and cleaning.

Technical Data **EAGLE PACK 430**

General Specifications

Max. object size	See beam geometry
Conveyor heights	788mm to 1219mm +/-50mm [31" to 48" +/-2"]
Conveyor lengths	1829mm [6'], 2438mm [8'] or 2896mm [9'6"]
Conveyor speed at mains frequency	15 to 120MPM [50 to 400FPM]

X-ray Generator

Max. anode voltage • cooling	0-70kV or 0-140kV • hermetically sealed oil bath
Current	1mA/2mA/5mA
Beam direction	Top center, directed down

Image Generating System

Software	Simul-Task proprietary image processing software
Computer	Industrial PC Intel CPU Core2Duo E8400 2x 3.0Ghz w/2GB RAM, HDD 80GB Windows® XP embedded, integrated UPS • touch screen color monitor w/USB keyboard
Detector	1.2mm pitch or .8mm pitch, single energy or 1.2mm pitch, dual energy
X-ray converter	16bit A/D Converter

Communications

I/O	I/O board with up to four input signals, four reject outputs, five PLC status signals, RS-232 interface
Network	Network card 10/100 mbps
Statistical data	Throughput, reject, weight, and system validation statistics available both in the GUI and SQL Database

Installation Data

X-ray leakage	Meets all applicable laws and regulations with respect to X-ray emitting devices including compliance with 21 CFR 1020.40 and 21 CFR 179.21
Protection rating/Operating temp	IP65/0°-43°C [32°-110°F] or IP69k/0°-43°C [32°-110°F]
Cooling method	4000 BTU/hr air conditioner
Power requirements	230 VAC, +15/-10%, 50/60 Hz, 20 Amp, single phase
Air requirements	5.5BAR [80psi], 9.5mm [3/8"] line, dry and filtered
Water requirements	For IP69k only - Flow 7.6LPM [2.0GPM]/Temp 10°-32°C [50°-90°F]
Cabinet construction	Glass beaded stainless steel construction with roll out conveyor
Conveyor belting	Seamless impregnated, polyester fiber underside with a white urethane top face coating, working temperature range of -30° to 100°C [-22° to 212°F]

Additional Features

Reject options	Signal only, reject light, single piston push arm, single lane air blast, dual arm push rod
Product guides	Available through tunnel and louvers
Multi-Task™	Software upgrade enabling advanced detection and control logic, discrete rejecting, reporting, and tracking capabilities
Reject stations	Multiple rejection stations linked to inspection routines

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