

DATA SHEET

SXRF Series: Scalable X-ray Inspection for Various Product Sizes

Bizerba's SXRF Series X-Ray Inspection Systems provide advanced contaminant detection with a compact, washdown-ready design. Available in multiple sizes (4080, 5080, 6080, 8040), these systems adapt to various production needs while ensuring high-speed inspection, low false reject rates, and seamless integration. With AI-powered detection, dual-energy technology, and automated diagnostics, the SXRF series delivers efficient and cost-effective food safety compliance.

Main features

High-sensitivity detection identifies metal, bone, glass, plastic, rubber, and stone, even in low-density materials.

AI-powered dual-energy technology enhances contaminant detection and minimizes false rejects.

Optimized for high-speed, high-throughput production lines with multi-lane and multi-product capability.

Hygienic, washdown-ready stainless steel design with IP65, IP66, or IP69K ratings.

Tool-free belt and curtain removal allows for quick cleaning and maintenance.

Intuitive touchscreen interface with automated calibration and self-diagnostics for minimal downtime.

Seamless integration with OPC-UA, ERP, and MES software for smart production environments.

Energy-efficient X-ray tubes reduce operating costs and extend system lifespan.

Low-maintenance construction minimizes downtime and total cost of ownership.



System functions

Advanced Foreign Object Detection – Identifies contaminants including metal, glass, rubber, bone, and more.

Multi-Function Inspection – Performs simultaneous checks for weight, shape, count, and chaotic product flow.

High-Speed Multi-Lane Inspection – Ensures accurate scanning across multiple product lanes.

Secure Access Control – 3-tier password-protected login ensures data integrity and restricted access.

Automated System Diagnostics – Built-in troubleshooting tools streamline maintenance and minimize downtime.

Technical data

Specifications	Facts
Model	SXRF 4080 SXRF 5080 SXRF 6080 SXRF 8040
X-ray lamp	MAX. 80kV, 210W 350 W 480 W
Detector	0.4mm 0.4mm 0.4mm 0.8mm
Maximum product height	220 mm 250mm 300mm 400mm
Maximum product width	400 mm 500mm 600mm 790mm
Belt speed	10-60 m/min 10-40m/mm 10-40m/mm 10-40m/mm
Rejector	Compatible w/ all rejectors
Radiation protection	Curtains and protective tunnel
External radiation	< 1µSu/h
Cooling	Industrial air conditioner
Product management	Automatic recording of the parameters of the tested product
Image management	Automatic image saving and analysis
Parameter adjustment	Automatic self-learning
Display	17" touch screen
Operating system	Windows 10
Connection	USB port (USB2.0), Ethernet interface, OPC-UA
Supply voltage	110-240 VAC/20A
Power consumption	1200 W
Pneumatic requirement	4-8bar/58-116 psi
Tightness class	Available in IP65, IP66 & IP69k configurations
Machine cleaning level	Easy
Working temperature	from -10°C to 40°C
Working humidity	30-90% non-condensing water vapor
Standard device height	800 + 100mm
Housing material	Glass-blasted stainless steel

Options

Automated Reject System – Ensures efficient removal of non-compliant products.

Secure Rejection Options – Locking reject bins or run-off trays for controlled disposal.

Flexible Detection Technology – Available with single energy, dual-energy, or advanced Direct Photon Counting detectors.

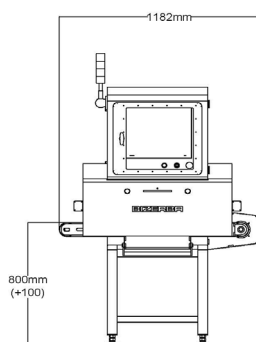
Configurable Washdown Protection – Standard IP65, with optional upgrades to IP66 or IP69K.

FROST Thermostat & Heating System – Prevents condensation and corrosion in low-temperature environments.

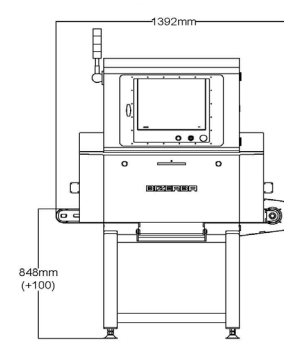
Seamless Industrial Communication – OPC-UA protocol enables integration with smart production systems.

OPC-UA Industrial Communication Protocol – Enables seamless data exchange and integration into smart production systems.

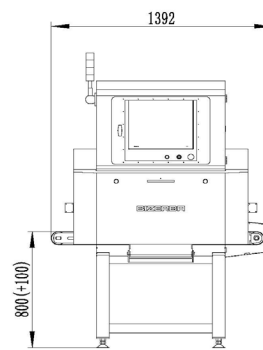
TECHNICAL DRAWINGS



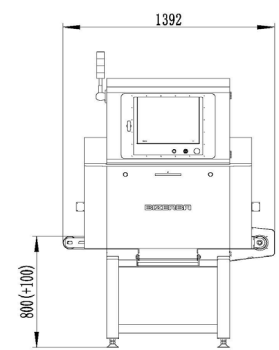
SXRF 4080



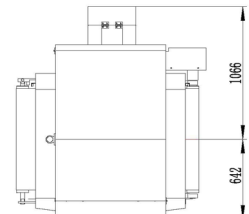
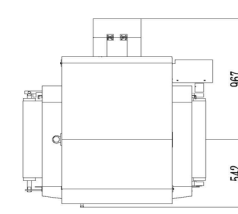
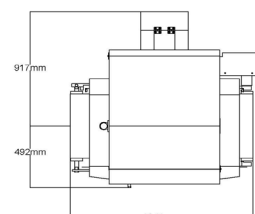
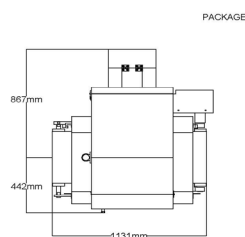
SXRF 5080



SXRF 6080



SXRF 8040



RELATED PRODUCTS

Inspection Portfolio



Dynamic Checkweighers

Ensure precision and compliance. Scan for details or contact our specialist.



X-ray Inspection systems

Detect what you can't see. Scan to learn more or reach out to our expert.



Vision Inspection systems

See the unseen. Scan for insights or consult our specialist.



Metal Detection systems

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Contact our experts today

Arrange a consultation or ask for additional information.

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