



High resolution Dual energy X-ray inspection system

SXM2-3671MWJ / SXM2-4171MWJ

- High resolution foreign body detection
- Reduces complaints for remaining bones
- Reduce false detection

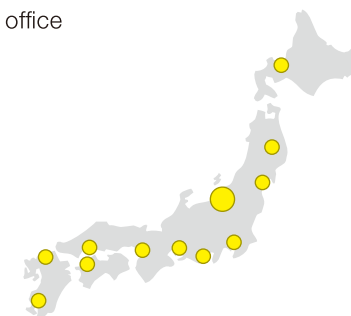
X-RAY INSPECTION SYSTEM



AI inspection option

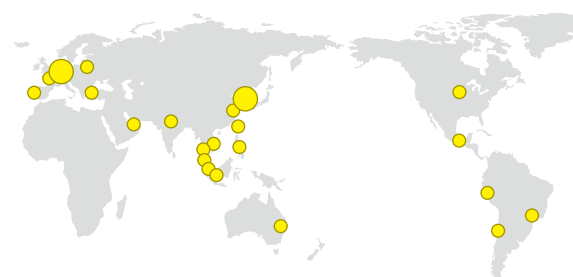
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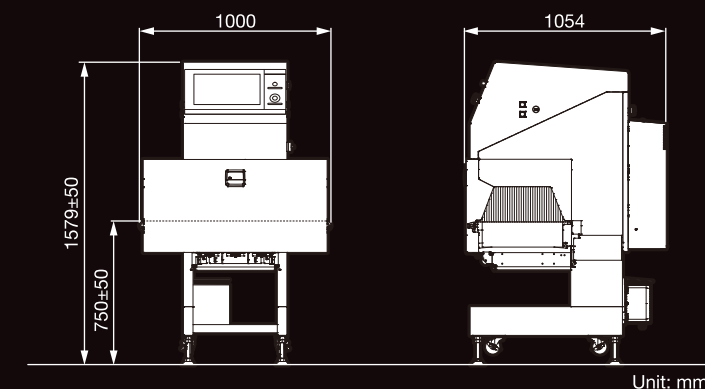
Distributor
28 countries
Asia, Europe, Americas, Oceania

<https://www.system-square.com/en/>



* The information in this catalog is current as of October 31, 2024.
* The appearance and specifications described in this catalog are subject to change without notice for product improvement.
* Some images in this catalog are for illustrative purposes only.

SXM2-3671MWJ / SXM2-4171MWJ



Unit: mm

A ...SXM2-3671MWJ : 226 SXM2-4171MWJ : 276
H'...SXM2-3671MWJ : 150 SXM2-4171MWJ : 150
W'...SXM2-3671MWJ : 330 SXM2-4171MWJ : 380

[Inspectable range]

SXM2-3671MWJ	H	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10	0
	W	226	233	240	246	253	261	268	274	281	288	295	302	309	316	323	330
SXM2-4171MWJ	H	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10	0
	W	276	283	290	296	303	310	317	324	331	338	345	352	359	366	373	380

Model	SXM2-3671MWJ	SXM2-4171MWJ
Dimension of inspection product *1	Maximum passage width 330mm Maximum passage height 150mm	Maximum passage width 380mm Maximum passage height 150mm
Weight capacity	10kg *2	
Conveyor speed	15-45m/min *2,3	
Belt width	420mm	
Detectable material	Iron or stainless-steel ball (Φ0.2mm), stone, glass, cartilage, high density plastic, etc. *4	
Display unit	15.6 inches-wide TFT color LCD (with touch panel)	
Structure	Main unit/Base: All stainless-steel (SUS304) Protection Grade: Main unit equivalent to IP66 (excluding the cooler) *5	
Pass line	750±50mm	
Max. X-ray output	Tube voltage (Max.): 75kV, Tube current (Max.): 8.0mA (Max: 300W)	
Operating environment	Temperature: 0 to 35°C, Humidity: 30 to 85%, No dew condensation allowed. (It is necessary to clean the filter periodically.) *6	
Weight	450kg	
Main power supply	AC200V±10%, 3.0kVA, 50/60Hz	

*1 Products that pass the inspectable range will be scanned. *2 For other weight or conveyor speed, contact SYSTEM SQUARE INC. *3 In accordance with the inspection conditions and items, conveyor speed may be necessary to be limited. *4 The detection sensitivity may vary depending on the type of inspection product and the operating environment. *5 This waterproof standard may not apply when options are mounted. *6 When the operating environment temperature exceeds 35°C, contact SYSTEM SQUARE INC.

*The cover to prevent the X-ray leak may be required at the inlet and outlet according to the length of inspection product.

*Options may be required in case that installation place has large temperature change and (or) high humidity, item to be inspected is too cold or hot.

AI (artificial intelligence) inspection option available

This makes it possible to achieve "automated inspection that is equivalent to judgment by the human eye," something that was previously impossible. We support solving on-site problems.

Powerful support for labor saving /
Reduce Food Loss and Waste / Yield improvement

Continuing to evolve Dual energy X-ray inspection system

High resolution
foreign body
detection

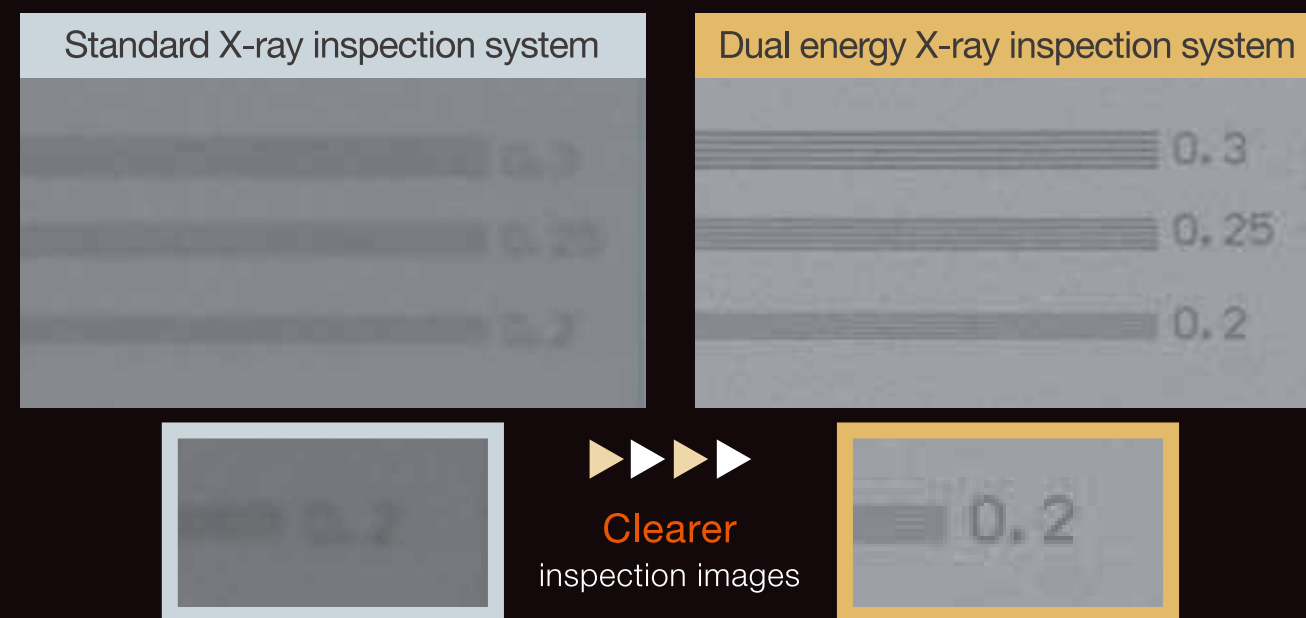
Reduces
complaints for
remaining bones

Reduce false
detection

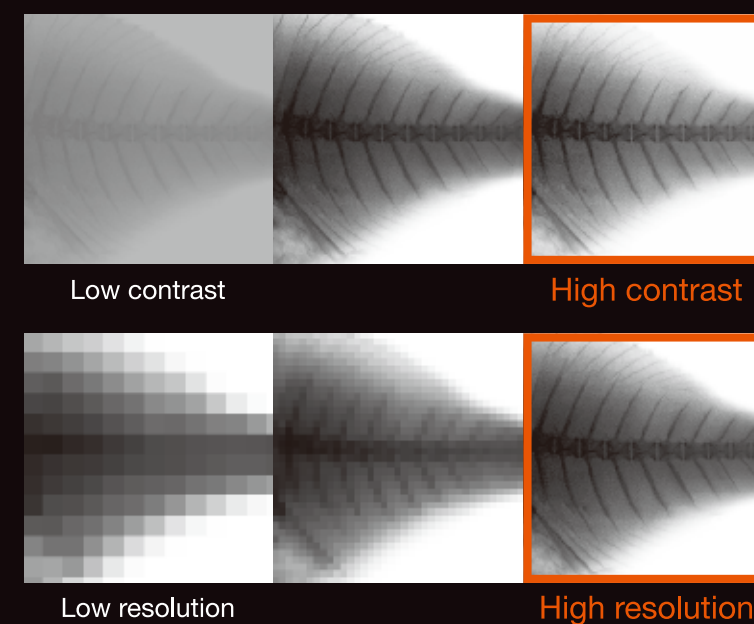
High contrast and high resolution inspection images

Thick products can be imaged with high contrast and high resolution, showing foreign objects more clearly.

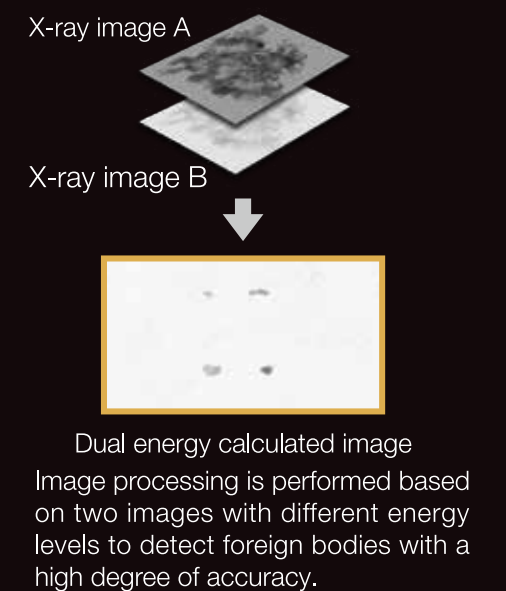
Comparison of contrast and resolution clarity



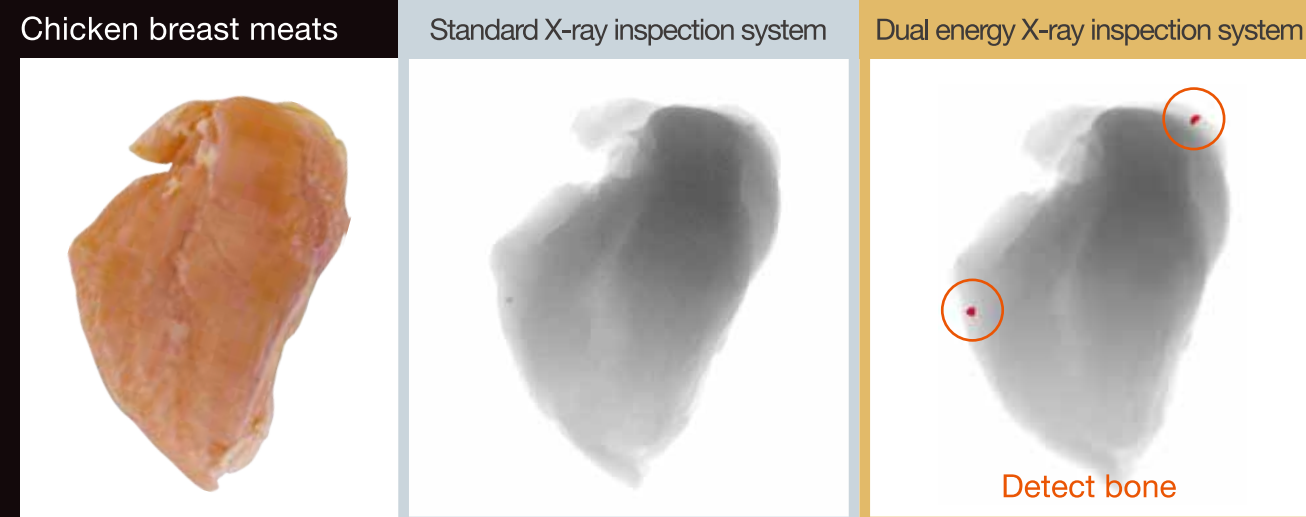
High contrast and high resolution images



What is dual energy inspection?

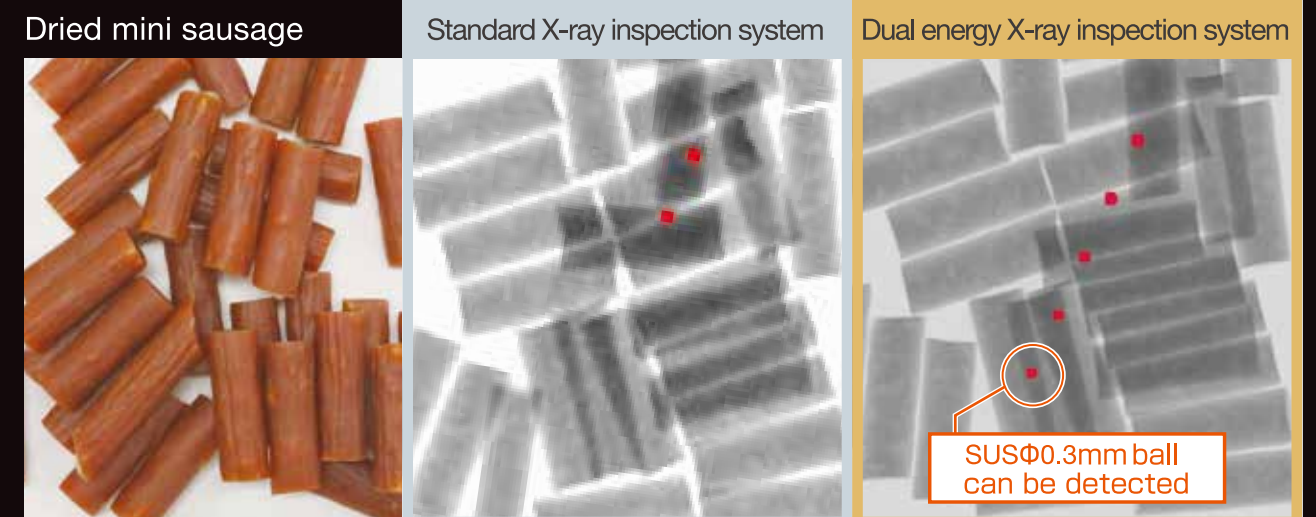


It can detect thin bones and low density foreign bodies



High sensitivity detection of low-density foreign bodies such as sliced bones and resins. It can detect remaining bones that are difficult to detect with standard X-ray inspection system, which leads to a reduction in bone complaints.

Strong against overlapping and uneven products



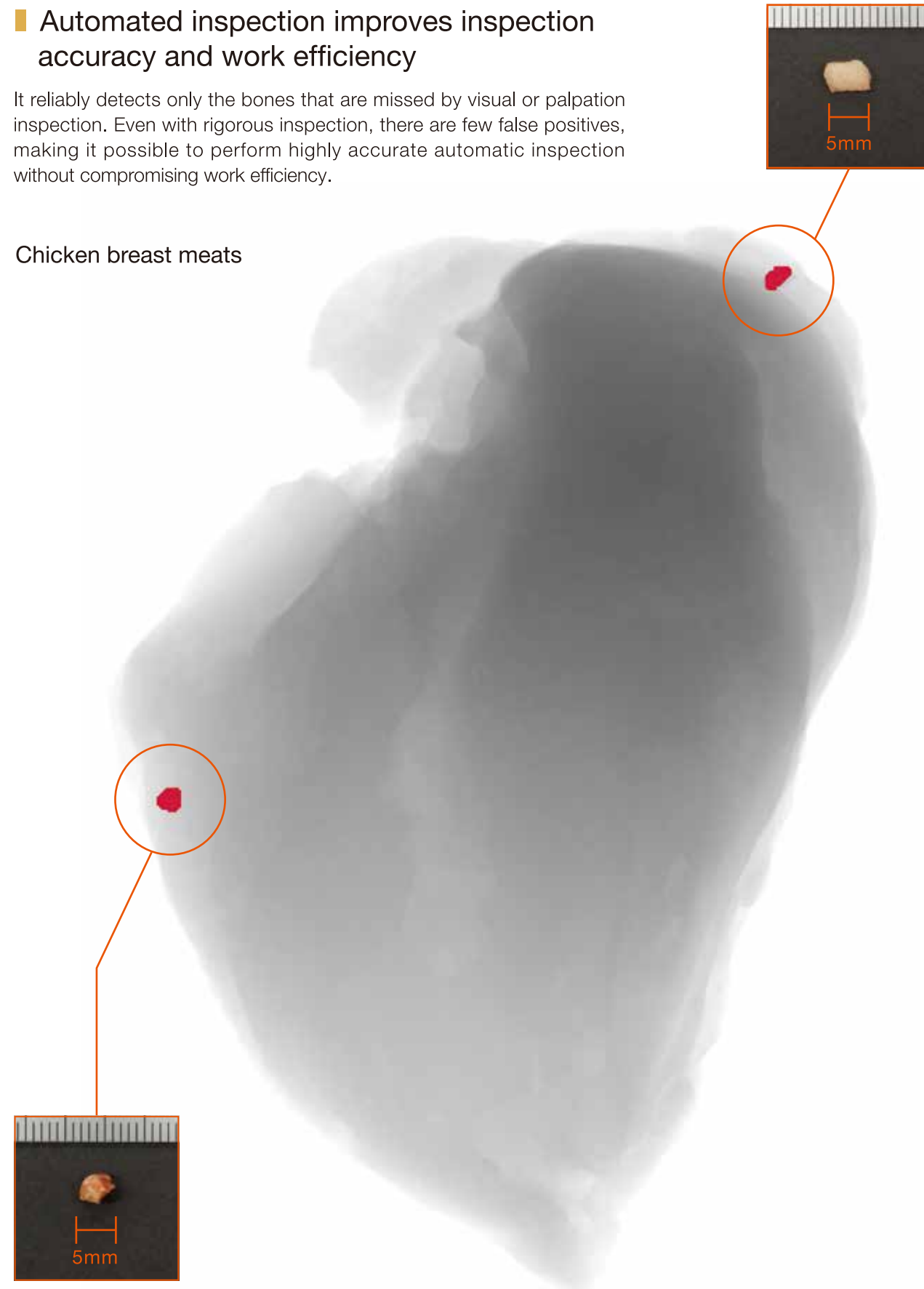
It is strong against overlapping and uneven products, and it detects tiny foreign bodies with high sensitivity. It reduces false positives caused by bulk items, or overlapping products in large bags, reducing food loss.

Breaking new ground with high resolution images

■ Automated inspection improves inspection accuracy and work efficiency

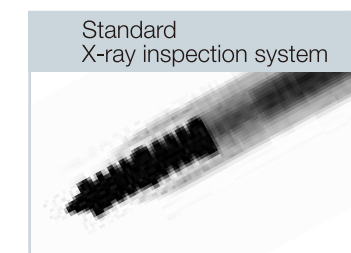
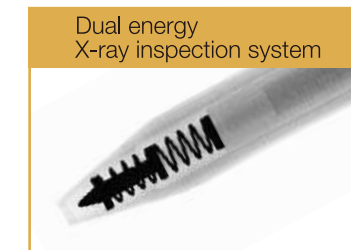
It reliably detects only the bones that are missed by visual or palpation inspection. Even with rigorous inspection, there are few false positives, making it possible to perform highly accurate automatic inspection without compromising work efficiency.

Chicken breast meats



■ Ideal for pinpoint checking of internal structure

Dual energy X-ray inspection systems are capable of clearly capturing images of the shapes and internal structures of parts, which is difficult to capture using standard X-ray inspection systems. It is suitable for checking product structure and inspecting part shapes.



■ Detection accuracy that is not affected by overlapping

When taking X-ray images of grains, overlapping products show up in a strong dark color, making it difficult to distinguish them from foreign objects. Dual energy X-ray inspection systems use sensors to distinguish minute differences in how objects are imaged, making it possible to detect foreign objects.

Mixed nuts

