

MAKE LIFE SECURE AND QUALITY

TXR-B3-DE SERIES

TECHIK HIGH-RESOLUTION DUAL-ENERGY X-RAY INSPECTION SYSTEM FOR BULK PRODUCT



TECHIK® Based on the original bulk material-specific model, TECHIK arms its Intelligent High-resolution Dual-energy X-ray Inspection System for Bulk Product with dual-energy high-speed high-definition detectors, as well as intelligent deep learning technology, which can realize double recognition of shape and material, and effectively improve the inspection effect of fine foreign objects such as stones, soil clods, snail shells, rubber, etc. together with thin foreign matter made of aluminum, glass and PVC. High-definition detector, equipped with intelligent deep learning technology, can achieve the recognition of both material and shape, which effectively improve the inspection effect of fine foreign objects such as stones, soil clods, cow shells, rubber, etc., as well as thin foreign matter made of aluminum, glass and etc.



DEXA Material Identification

The application of X-ray multi-energy tomography technology can simultaneously obtain high and low energy images of the tested product, as well as multiple material attribute information such as density and equivalent atomic number. After a series of processing such as automatic ratio of high and low energy images, it can distinguish the material difference of tested product and foreign matter, so that can effectively improve the detection rate of foreign matter.



Intelligent Algorithm

The AI intelligent algorithm independently developed by TECHIK can simulate manual image analysis, and the detection rate of low-density foreign objects is significantly improved, effectively improving the detection accuracy and reducing the false detection rate.



High Level Hygienic Design

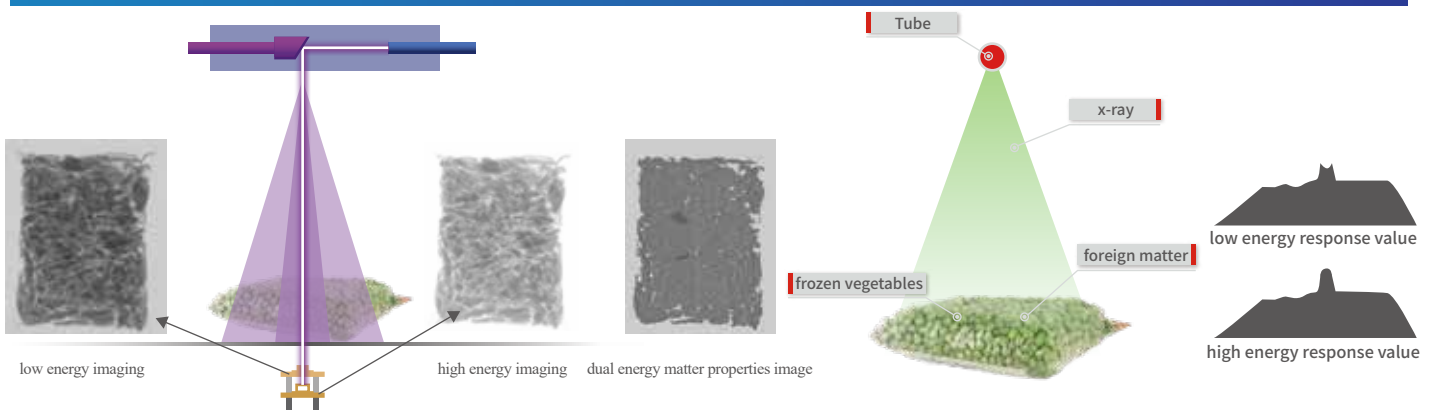
It has strong dustproof and waterproof capabilities, and adopts inclined-plane design and quick release design. There are no sanitary corners, no condensation of water droplets, and no bacteria breeding areas. It is easy to clean and maintain for frozen vegetables and minced meat workshops.



Flexible Solution

Flexible solutions can be customized according to customer needs, and exclusive intelligent detection modes can be selected according to different materials.

> SCHEMATIC DIAGRAM



> SCOPE OF APPLICATION



peanut



pumpkin seeds



sunflower seeds with shell



garlic slices



batam



frozen fruit & vegetable



beans



walnut



broccoli



dehydrated fruits & vegetables

Roasted seeds and nuts: can detect thin glass sheets, small stones, hard plastics, insects, cable ties, cigarette butts, wooden sticks, glass, metal, stones, etc.;

Frozen vegetables: can detect soil clods, snail shells, PVC plastic sheets, rubber sheets, aluminum foil sheets, etc.;

Minced meat: can detect residual bones, other metals mixed into the production line, non-metallic foreign objects, etc.

> DETAILED DESCRIPTION

Dual-energy TXR-B series for bulk product

Model		B3-P1-4010-DE	B3-P1-6010-DE
X-ray tube		MAX.80KV 350W	
X-ray detector		DualE 0.4	
Passing width(mm)		400	600
Passing height(mm)		100	100
Conveyor speed (m/min)		10~90m/min	
Inspection sensitivity	SUS304 ball (φ)	0.3mm	
	SUS304 wire	0.2×2mm	
	Glass ball (φ)	1.0mm	
	Ceramic ball (φ)	1.0mm	
Power supply		2kVA (220V AC uniphase 50Hz)	
Weight(KG)		650Kg	800Kg
Tested product		Bulk product	
Protective level		Transmission part IP66, other parts IP65	
Air source		0.8Mpa	
Safety		≤1μSv/h, prevent X-ray leakage through safety protection device	
Operating environment		Temperature -10~40°C, humidity 30~90%, non-condensing	
Rejecter		48/72 High speed air jet rejecter	72/108 High speed air jet rejecter
Cooling method		Industrial air conditioning	
Optional configuration			
Intelligent recognition		Optional	
Conveyor belt material		Food-grade surface (smooth/bump) belt is optional based on material types	
Included interface		TCP-IP/Modbus communication can be added	
Display language		Chinese and English (other languages are optional)	

Remarks: 1. The detection accuracy mentioned above is for the empty machine state, and the actual detection accuracy is subject to the accuracy of the measured product.

2. The above machine specifications are standard specifications, other sizes and special requirements can be customized.

3. If the product is updated without prior notice, the actual machine shall prevail, please consult the sales representative for details.

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