

Food and Pharmaceutical Industry Contamination Inspection Solution

Foreign Object Detection
Package Completeness Inspection
Overall Management of Production Quality

- X-Ray Inspection Solution
- Metal Detection
- Checkweigher



Innovation



High Efficiency



Cost Save



Good Service

About Vixdetect



VIXDETECT

Intelligent Identification and Detection Technology

Adhering to the philosophy of "Developed and Manufactured in China with World Quality", Vixdetect stick strictly to high indicators and quality to help customers create more value by providing international advanced intelligent detection technology and System-level solutions.

- National New Technology Enterprise.
- Focus on High-Resolution intelligent identification and detection technology.
- The Vixdetect core team has nearly 20 years of experience in the field of food inspection.
- The company owns dozens of intellectual property rights.
- High-tech Enterprise.

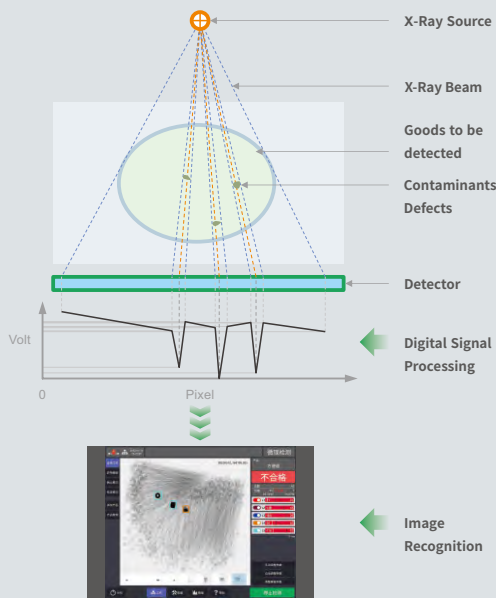
X-Ray Inspection Technology



X-Ray systems are used in food and pharmaceutical industries to ensure product safety and quality. It can detect food contaminants, the shape and composition of goods, and the completeness of packaging. The system can detect contaminants like metal, glass, stone, bone, hard plastic, resin, shell, etc. It can operate in any temperature, humidity and can also inspect saline and aluminised foil products.



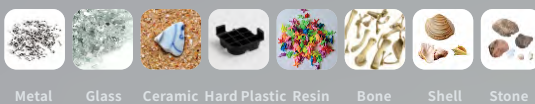
Principle of X-Ray Systems



Detection of packaging, bulk goods, bottles, cans and other forms of food or pharmaceutical



Multi contaminants can be detected



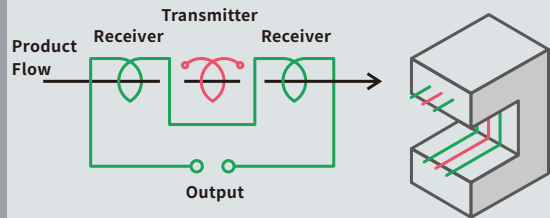
- ① Highly visible lamp stock
- ② 4G Antenna for remote support
- ③ Three X-Ray condition indicator light
- ④ Lock Key
- ⑤ Radiation shield curtains
- ⑥ Conveyor
- ⑦ Safety Interlock Design



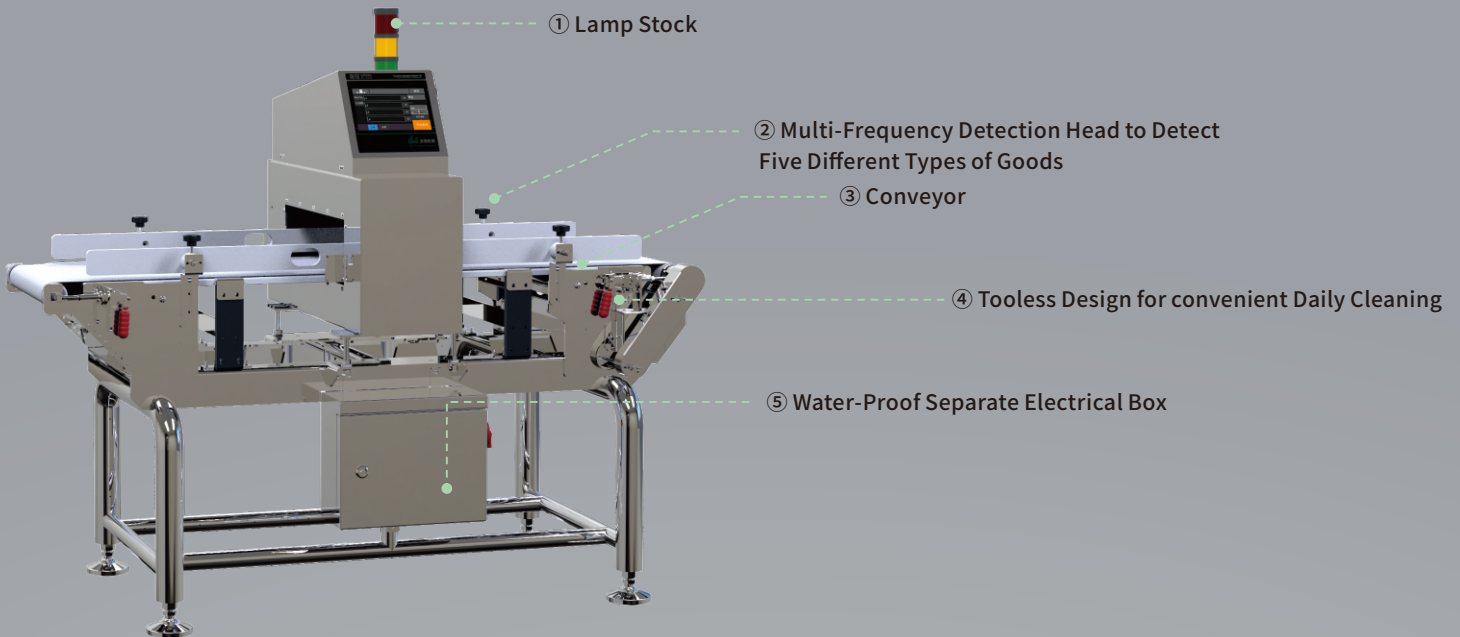
● Metal Detection

The Vixdetect Multi-Frequency metal detection systems based on electromagnetic induction principle, are to detect metal contaminations in food and pharmaceutical. The system adopts the dynamic phase adjustment technology, which can effectively inhibit the product effect. It can not only detect conventional dry or semi-dry products, but also effectively detect a variety of moisture-rich, salt-rich products that are difficult to detect, such as meat, cured products, aquatic products, etc.

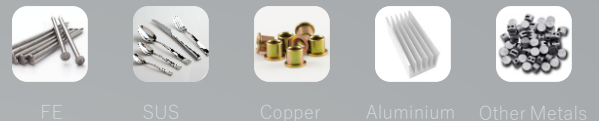
Principle of Metal Detection



Multi-Frequency Detection
One machine capable for different kinds of goods
Simultaneously improve the detection accuracy of FE and SUS

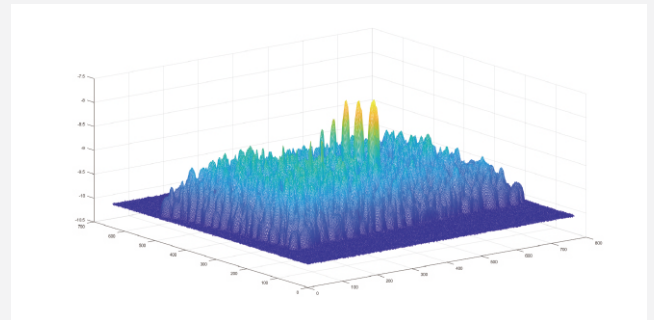
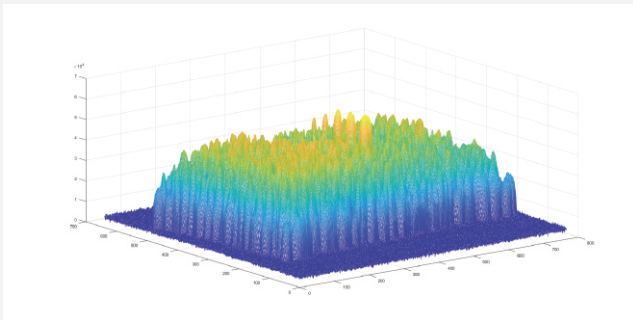


High Sensitivity for FE, NFE and SUS



Vixdetect has developed a highly sophisticated detection algorithm platform, to meet the HIGH-RESOLUTION detection requirements of the food and pharmaceutical industry.

The system is based on neural network. Using dynamic features recognition method, it adopts the best algorithm parameters automatically to detect miniscule contaminants in goods .



Safety

- Three-Dimensional simulation verification of X-Ray space radiation leakage.
- Integrated multiple optical motor mechanical safety interlock.

Intelligent

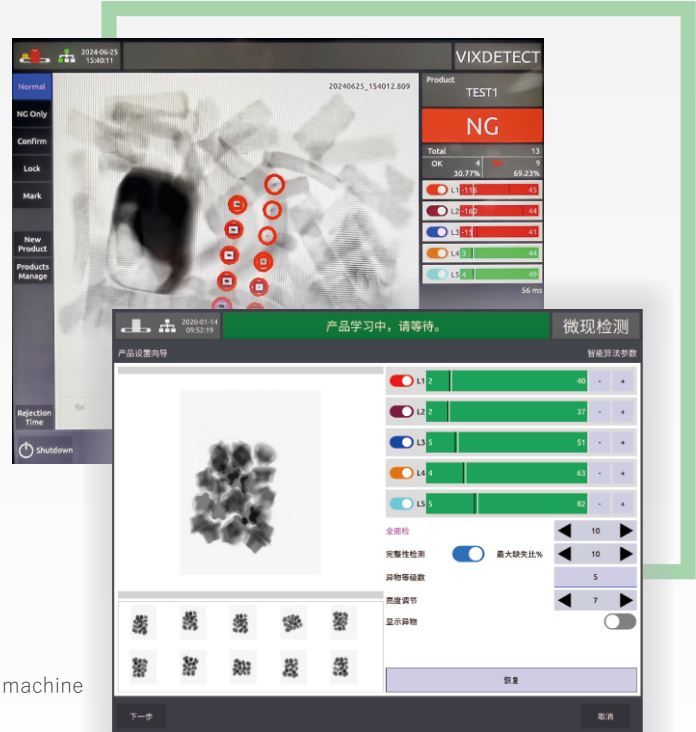


- Based on AI neural network model.
- Highly sophisticated algorithm platform.
- Fully automatic learning process, user-friendly.
- Preset standard AI algorithm, complete training in 15 seconds.
- Customized AI algorithm can be selected to improve detection accuracy.
- Wireless networking function, support remote technical support.

Stability



- Server-level Linux system, natural virus immunity.
- Highly reliable design of industrial grade component machine ensures long-term stable operation.
- Fully enclosed design for food and Pharmaceutical environments.
- Double layer thermal cycle and anti-condensation module.



Packaged Products Inspection | Standard



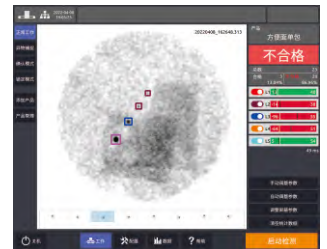
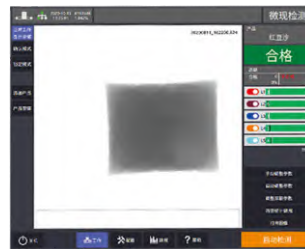
This model is the most widely used inspection model on the market. It offers stable performance and is easy to maintain.



- VXD-C2412
- VXD-C4016
- VXD-C5025
- VXD-C6030
- VXD-C7040
- VXD-C4030

Advantages

- It is based on the advanced Vixdetect Wise-Eye algorithm platform. Precision detection can be realised.
- The standard AI algorithm is simple and intelligent, no previous experience is required, it can quickly add new products according to the wizard.
- According to the product attributes, a variety of rejectors can be selected to accurately eliminate NG products.
- Equipped with 4G wireless and wired network connectivity, It can remotely identify malfunctions in the equipment's software and provide online technical support and operations.
- Powered by a server-level Linux operating system, it is immune to computer viruses and is designed to prevent data loss in the event of unexpected power failures.
- The conveyor system and the main machine can be separated and cleaned directly.
- Superior to the international radiation safety standards, offering enhanced protection through integrated safety interlocks and monitoring functions.



Application

- Snacks
- Meat
- Dairy Food
- Baked and Steamed Food
- Frozen Food
- Sauces and condiments



Contaminants

Metal, Glass, Ceramic, Hard Plastic, Resin, Bones, Shells, etc.

Specification

Model	VXD-C2412	VXD-C4016	VXD-C4030	VXD-C5025	VXD-C6030	VXD-C7040
X-Ray Source	Max 150W/210W	Max 150W/210W/350W	Max 210W/350W	Max 210W/350W	Max 350W/480W	Max 350W/480W
Sensitivity	*SUS Ball : 0.3mm SUS Wire : 0.2*2mm Glass Ball : 0.8mm Ceramic Ball : 0.7mm					SUS Ball : 0.5mm SUS Wire : 0.4*2mm Glass Ball : 0.8mm Ceramic Ball : 0.7mm
OS	Linux					
HMI	17-inch touch screen					
Conveyor Speed	10~90 m/min			5~60 m/min		
Product Weight	Max 5kg	Max 10kg	Max 15kg	Max 20kg	Max 30kg	Max 40kg
Product Dimension	Max Width 240mm Max Height 120mm	Max Width 400mm Max Height 160mm	Max Width 400mm Max Height 300mm	Max Width 500mm Max Height 250mm	Max Width 600mm Max Height 300mm	Max Width 700mm Max Height 400mm
Power	AC220V, 50-60Hz					
Environment	Working Temperature 0~45°C, Relative Humidity 30~85% no condensation					
IP Grade	IP66 for Conveyor, IP54 for other parts					
Machine Material	304 SUS, Mirror/Sandblasted					



Note: The size of the smallest detectable foreign object depends on a number of factors, including the composition of the product, the packaging material, and the size and thickness of the foreign object. In the actual production environment, please refer to the actual product inspection results. The international standard for ceramic glass is 1.0mm, but the actual precision of glass ceramic in the empty machine will exceed this standard.
 *The inspection accuracy for empty machines is subject to a ray source power of 210W and above.

Packaged Products Inspection | TDI



Using multi-line pixel TDI imaging technology, it meets the demanding requirements of higher-precision inspection or high-speed production lines while maintaining high detection accuracy.

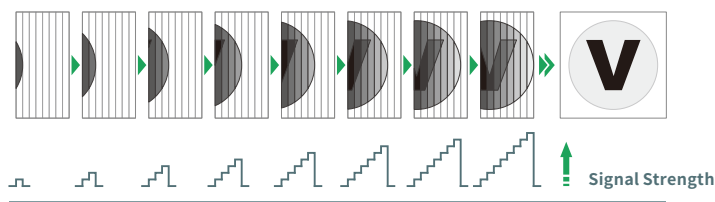


VXD-C4016-T280

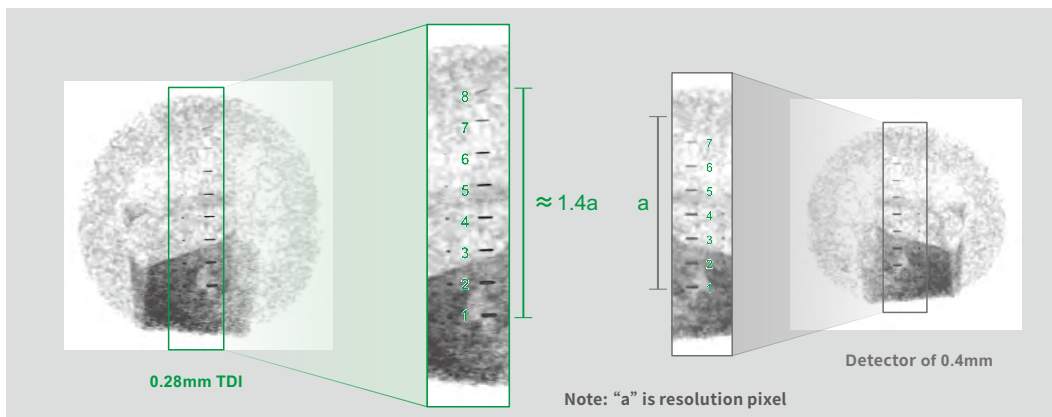
Advantages

- Using multi-line pixel TDI imaging technology, it meets the demanding requirements of higher-precision inspection or high-speed production lines while maintaining high detection accuracy.
- Based on the advanced Vixdetect Wise-Eye algorithm platform, the precision detection can be realized.
- The standard AI algorithm is simple and intelligent, no previous experience is required, it can quickly add new products according to the wizard. According to the product attributes, a variety of rejectors can be selected to accurately eliminate NG products.
- Equipped with 4G wireless and wired network connectivity, It can remotely identify malfunctions in the equipment's software and provide online technical support and operations.
- Powered by a server-level Linux operating system, it is immune to computer viruses and is designed to prevent data loss in the event of unexpected power failures.
- The conveyor system and the main machine can be separated and cleaned directly.
- Superior to the international radiation safety standards, offering enhanced protection through integrated safety interlocks and monitoring functions.

TDI Sensor (Imaging Principle)



■ Product to be detected ■ Under high speed and low power conditions, the TDI can achieve higher detection accuracy.



To Detect

Metal, Glass, Ceramic, Hard Plastic, Resin, Bones, Shells, etc.

Specification

Model	VXD-C4016-T280	
Detector Resolution	0.28mm	Detection Range: Height (mm) Width (mm) 160 267 140 284 120 301 100 317 80 334 60 350 40 367 20 383 0 400
X-Ray Source	Max 150W/210W/350W	
OS	Linux	
HMI	17-inch touch screen	
Conveyor Speed	5~60 m/min	
Product Weight	Max 10kg	
Product Dimension	Max Width 400mm, Max Height 160mm	
Power	AC220V, 50~60Hz	
Environment	Working Temperature 0~45°C, Relative Humidity 30~85% no condensation	
IP Grade	IP66 for Conveyor, IP54 for other parts	
Machine Material	304 SUS, Mirror/Sandblasted	



Packaged Products Inspection | Basic

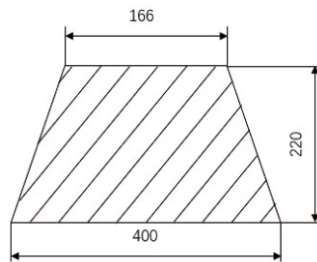
Detect metallic and non-metallic contaminants, including metal, glass, ceramics, hard rubber, shell, bone, stone, etc.



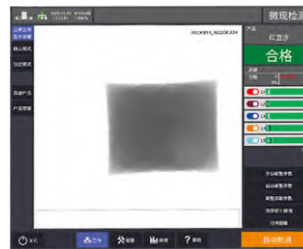
VXD-C4022

Product Dimension

Height	Width
0	400
20	378
40	357
60	336
80	314
100	293
120	272
140	251
160	229
180	208
200	187
220	166



Unit: mm



Application

- Snacks
- meat product
- Dairy
- Baked food
- Frozen food
- Sauces and condiments



Specification

Model	VXD-C4022
X-Ray Source	Max 150W/210W/350W
Sensitivity	*SUS ball: 0.6mm, SUS Wire: 0.5mm*2, Glass Ball: 0.8mm, Ceramic Ball: 0.7mm
OS	Linux
HMI	17-inch touch screen
Conveyor Speed	10~90 m/min
Product Weight	Max 10kg
Product Dimension	Max Width 400mm, Max Height 220mm
Power	AC220V, 50-60Hz
Environment	Working Temperature 0~45°C, Relative Humidity 30~85% no condensation
IP Grade	IP66 for Conveyor, IP54 for other parts
Machine Material	304 SUS

Note: The size of the smallest detectable foreign object depends on a number of factors, including the composition of the product, the packaging material, and the size and thickness of the foreign object. In the actual production environment, please refer to the actual product inspection results. The international standard for ceramic glass is 1.0mm, but the actual precision of glass ceramic in the empty machine will exceed this standard. *The inspection accuracy for empty machines is subject to a ray source power of 210W and above.

Vision and X-Ray Inspection Combination



This equipment uses a technique that integrates visible light images with X-ray images to detect seal defects in a variety of packaged goods.



VID-V1X1-C4016

Advantages

- Employing multi-spectral technology, the equipment integrates visible light and X-Ray detection, ensuring precise sealing position identification.
- Regardless of the thickness, even the thinnest plastic pouches can be inspected as effortlessly as thicker aluminum foil pouches for their seals.
- Based on the advanced Vixdetect Wise-Eye algorithm platform, the precision detection can be realized.
- An integrated parallel deep learning mechanism enables customisable visual inspection functions.
- Equipped with 4G wireless and wired network connectivity, It can remotely identify malfunctions in the equipment's software and provide online technical support and operations.
- Powered by a server-grade Linux operating system, it is immune to computer viruses and is designed to prevent data loss in the event of unexpected power failures.
- It surpasses internationally accepted radiation safety standards and incorporates a safety interlock monitoring function.



To Detect

Detect seal failures such as product entrapment or oil leakage at the seal area, while also detecting product contamination.

Application

Aluminium foil, aluminised foil and PE bag packaging for various food products



Specification

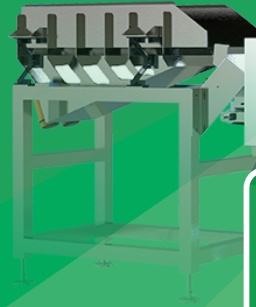
Model	VID-V1X1-C4016
X-Ray Source	Max 350W
Sensitivity	SUS ball: 0.3mm, SUS Wire: 0.2mm*2, Glass Ball: 0.8mm, Ceramic Ball: 0.7mm
OS	Linux
HMI	17-inch touch screen
Conveyor Speed	10~90 m/min
Product Weight	Max 2kg
Product Dimension	Max Width 400mm, Max Height 160mm
Power	AC220V, 50-60Hz
Environment	Working Temperature 0~45°C, Relative Humidity 30~85% no condensation
IP Grade	IP66 for Conveyor, IP54 for other parts
Machine Material	304 SUS, Mirror/Sandblasted

Note: The size of the smallest detectable foreign object depends on a number of factors, including the composition of the product, the packaging material, and the size and thickness of the foreign object. In the actual production environment, please refer to the actual product inspection results. The international standard for ceramic glass is 1.0mm, but the actual precision of glass ceramic in the empty machine will exceed this standard.

Bulk Goods Inspection



Detection of foreign objects and defects in bulk products with low rejection rates and higher detection accuracy.



VXD-B4016
VXD-B6030
VXD-B6016
VXD-B12030

Advantages

- It is based on the advanced Vixdetect Wise-Eye algorithm platform. Precision detection can be realised.
- The standard AI algorithm is simple and intelligent, no previous experience is required, it can quickly add new products according to the wizard.
- According to the product attributes, a variety of rejectors can be selected to accurately eliminate NG products.
- The machine is integrated with a 48-128 way array air reject valve, which can accurately eliminate and reduce carryover of good product.
- 4G network wireless connection, It can remotely identify malfunctions in the equipment's software and provide online technical support and operations.
- Server-level Linux system, computer virus immunity, abnormal power failure without data loss.
- The conveyor system and the main machine can be separated and cleaned directly.
- Superior to the international radiation safety standards ,offering enhanced protection through integrated safety interlocks and monitoring functions.



Application

- Nuts
- Tea leaves
- Fruit and veges
- Herbs
- Multi-grain beans
- Tobacco leaves
- Spices



Contaminants

Metal, Glass, Ceramic, Hard Plastic, Resin, Bones, Shells, etc.

Specification

Model	VXD-B4016	VXD-B6030	VXD-B6016	VXD-B12030
X-Ray Source	210W/350W			350W
Detection Sensitivity	SUS Ball : 0.3mm, SUS Wire : 0.2*2mm, Glass Ball : 0.8mm, Ceramic Ball : 0.7mm			
Operation System	Linux System			
HMI	17-inch touch screen			
Conveyor Speed	5~110 m/min			
Products Weight	Max 10kg			
Aperture Dimension	Max Width 400mm Max Height 160mm	Max Width 600mm Max Height 300mm	Max Width 600mm Max Height 160mm	Max Width 1200mm Max Height 300mm
Power	AC220V, 50-60Hz			
Temperature/Humidity	Working Temperature 0~45°C, Relative Humidity 30~85% no condensation			
IP Grade	IP66 for Conveyor, IP54 for other parts			
Machine Material	304 SUS, Mirror/Sandblasted			

Detection Range:

Height (mm)	Width (mm)
160	267
140	284
120	301
100	317
80	334
60	350
40	367
20	383
0	400

Note: The size of the smallest detectable foreign object depends on a number of factors, including the composition of the product, the packaging material, and the size and thickness of the foreign object. In the actual production environment, please refer to the actual product inspection results. The international standard for ceramic glass is 1.0mm, but the actual precision of glass ceramic in the empty machine will exceed this standard.

For Bottles, Cans & Jars



Detection and rejection of foreign objects in cans, jars and bottles.



VXD-D1623-S
VXD-D1825-S

Advantages

- Based on the advanced Wise-Eye algorithm platform, excellent high-precision detection can be achieved.
- The standard AI algorithm is simple and intelligent, no previous experience is required, it can quickly add new products according to the wizard.
- Customized AI algorithm is suitable for special products. Standard algorithm and customized algorithm can detect in parallel to further improve the detection accuracy.
- It is integrated with a fast pusher rejector, it can accurately reject NG product from the high speed production line.
- 4G network wireless connection, It can remotely identify malfunctions in the equipment's software and provide online technical support and operations.
- Server-level Linux system, computer virus immunity, abnormal power failure without data loss.
- Conveyor system using belt or chain plate structure, flexible adaptation to the practical production line.



Application

Detection of foreign objects in bottles, cans and jars.

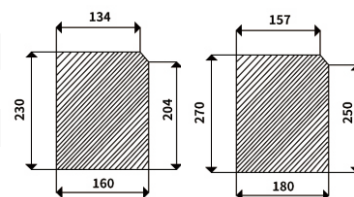


Contaminants

Metals, Glass, Ceramic, Hard Plastic, Resin, Bones, Shells, etc.

Specification

Model	VXD-D1623-S	VXD-D1825-S
X-Ray Source	210W/350W	
Detection Sensitivity	SUS Ball : 0.3mm, SUS Wire : 0.2*2mm, Glass Ball : 0.8mm, Ceramic Ball : 0.7mm	
Operation System	Linux System	
HMI	17-inch touch screen	
Conveyor Speed	5~80 m/min	
Products Weight	Max 10kg	
Product Dimension	Max Width 160mm, Max Height 204mm	Max Width 180mm, Max Height 250mm
Power	AC220V, 50-60Hz	
Temperature/Humidity	Working Temperature 0~45°C, Relative Humidity 30~85% no condensation	
IP Grade	IP66 for Conveyor, IP54 for other parts	
Machine Material	304 SUS, Mirror/Sandblasted	



Note: The size of the smallest detectable foreign object depends on a number of factors, including the composition of the product, the packaging material, and the size and thickness of the foreign object. In the actual production environment, please refer to the actual product inspection results. The international standard for ceramic glass is 1.0mm, but the actual precision of glass ceramic in the empty machine will exceed this standard.

For Goods in Bottle | Dual View



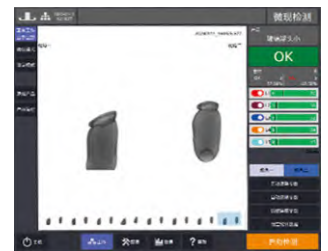
Dual-view simultaneous imaging technology detects cans, cartons and bottled products, with a higher detection rate of foreign objects at the base of the bottle.



VXD-D2253-D

Advantages

- Dual x-ray generator and detection box synchronously image, eliminating detection blind spots, foreign objects at the base of the bottle can also be detected.
- It is based on the advanced Vixdetect Wise-Eye algorithm platform. Precision detection can be realised.
- The standard AI algorithm is simple and intelligent, no previous experience is required, it can quickly add new products according to the wizard.
- Standard algorithm and customized algorithm can detect together to further improve the detection accuracy.
- It is integrated with a fast pusher rejector, it can accurately reject NG product from the high speed production line.
- 4G network wireless connection, It can remotely identify malfunctions in the equipment's software and provide online technical support and operations.
- Server-level Linux system, computer virus immunity, abnormal power failure without data loss.
- Conveyor system using belt or chain plate structure, flexible adaptation to the practical production line.



Application

- Detection of foreign objects in bottles, cans and boxes .

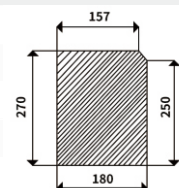


Contaminants

Metal, Glass, Ceramic, Hard Plastic, Resin, Bones, Shells, etc.

Specification

Model	VXD-D2253-D
X-Ray Source	350W/480W
Detection Sensitivity	SUS Ball : 0.3mm, SUS Wire : 0.2*2mm, Glass Ball : 0.8mm, Ceramic Ball : 0.7mm
Operation System	Linux System
HMI	17-inch touch screen
Conveyor Speed	5~60 m/min
Products Weight	Max 10kg
Aperture Dimension	Max Width 180mm, Max Height 250mm
Power	AC220V, 50-60Hz
Temperature/Humidity	Working Temperature 0~45°C, Relative Humidity 30~85% no condensation
IP Grade	IP66 for Conveyor, IP54 for other parts
Machine Material	304 SUS, Mirror/Sandblasted



Note: The size of the smallest detectable foreign object depends on a number of factors, including the composition of the product, the packaging material, and the size and thickness of the foreign object. In the actual production environment, please refer to the actual product inspection results. The international standard for ceramic glass is 1.0mm, but the actual precision of glass ceramic in the empty machine will exceed this standard.

Fish Bone Detection



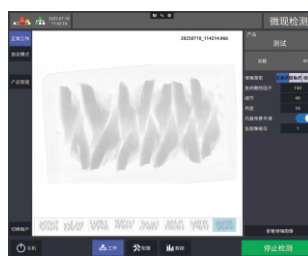
Images and enhances the display of residual fish bones in fish products on a large dual station HD screen, helping operators to efficiently remove fish bones to achieve zero residue.



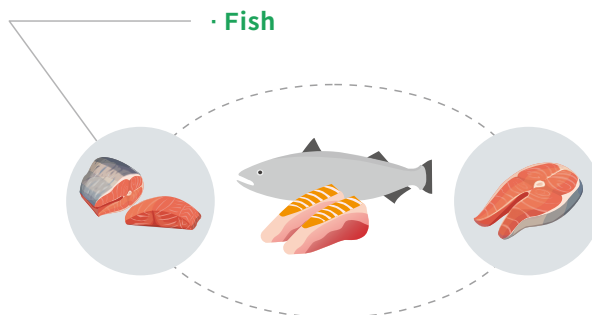
VXD-C4016-F1
VXD-C4016-F2

Advantages

- Based on the advanced Vixdetect Wise-Eye algorithm platform. Precision detection can be realised.
- The specially developed fishbone enhancement algorithm can flexibly adjust the fish meat reject ratio, and the fishbone positioning is more accurate.
- Configure a dual-station automatic image distribution function to achieve double the production capacity of a single-station model.
- 4G network wireless connection, It can remotely identify malfunctions in the equipment's software and provide online technical support and operations.
- Server-level Linux system, computer virus immunity, abnormal power failure without data loss.
- Conveyor system using belt or chain plate structure, flexible adaptation to the practical production line.
- It is superior to the internationally accepted radiation safety standard and has the safety interlock monitoring function.



Application



Specification

Model	VXD-C4016-F1	VXD-C4016-F2
X-Ray Source	350W	
Detection Sensitivity	SUS Ball : 0.2mm, SUS Wire : 0.1*2mm, Glass Ball : 0.8mm, Ceramic Ball : 0.7mm	
Operation System	Linux System	
HMI	17-inch touch screen	
Conveyor Speed	5~20 m/min	
Products Weight	Max 10kg	
Aperture Dimension	Max Width 400mm, Max Height 160mm	
Power	AC220V, 50-60Hz	
Environment	Working Temperature 0~45°C, Relative Humidity 30~85% no condensation	
Integrated screen	1	2
IP Grade	Ip66 for Conveyor, IP54 for other parts	
Machine Material	304 SUS, Mirror/Sandblasted/Brushed metal	

Height (mm)	Width (mm)
160	267
140	284
120	301
100	317
80	334
60	350
40	367
20	383
0	400

Note: The size of the smallest detectable foreign object depends on a number of factors, including the composition of the product, the packaging material, and the size and thickness of the foreign object. In the actual production environment, please refer to the actual product inspection results. The international standard for ceramic glass is 1.0mm, but the actual precision of glass ceramic in the empty machine will exceed this standard.

For Lightweight Products



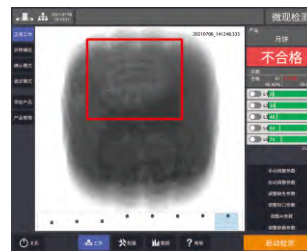
Product internal defect and foreign object inspection.



VXD-C4016-T Series

Advantages

- Simultaneous detection of foreign objects and product defects.
- Based on the advanced algorithm platform of Vixdetect, excellent high-precision detection can be achieved.
- The standard AI algorithm is simple and intelligent, no previous experience is required, it can quickly add new products according to the wizard.
- Standard and customized algorithm can detect in parallel to further improve the detection accuracy.
- Adopt the specialized trapezoidal conveyor structure for baking products.
- 4G network wireless connection, It can remotely identify malfunctions in the equipment's software and provide online technical support and operations.
- Server-level Linux system, computer virus immunity, abnormal power failure without data loss.
- It is superior to the internationally radiation safety standard and has the safety interlock monitoring function.



Application

- Quality inspection of food fillings
- Quality inspection of tablet

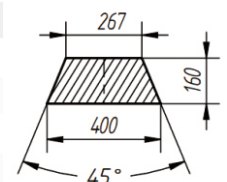
Contaminants

In addition to detecting foreign objects in the product, it can also detect the internal defects in products.



Specification

Model	VXD-C4016-T Series
X-Ray Source	210W
Detection Sensitivity	SUS Ball : 0.3mm, SUS Wire : 0.2*2mm, Glass Ball : 0.8mm, Ceramic Ball : 0.7mm
Operation System	Linux System
HMI	17-inch touch screen
Conveyor Speed	5~60 m/min
Products Weight	Max 10kg
Aperture Dimension	Max Width 400mm, Max Height 160mm
Power	AC220V, 50-60Hz
Temperature/Humidity	Working Temperature 0~45°C, Relative Humidity 30~85% no condensation
IP Grade	IP66 for Conveyor, IP54 for other parts
Machine Material	304 SUS, Mirror/Sandblasted/brushed metal



Note: The size of the smallest detectable foreign object depends on a number of factors, including the composition of the product, the packaging material, and the size and thickness of the foreign object. In the actual production environment, please refer to the actual product inspection results. The international standard for ceramic glass is 1.0mm, but the actual precision of glass ceramic in the empty machine will exceed this standard.

Bone Detection | Dual Energy



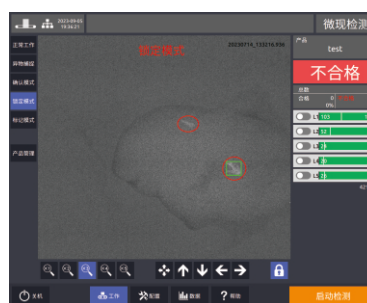
Advanced dual-energy detection technology, high precision detection of low and medium density foreign bodies. For example, residual bone, Bone dreg, cartilage, etc.



VXD-C4016-B

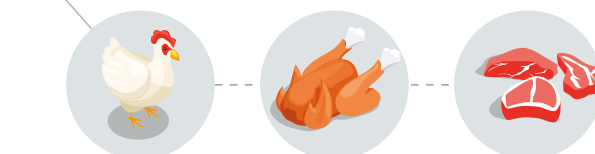
Advantages

- The system employs dual-energy detection algorithms, effectively identifying a wide range of bone fragments of various sizes in meat products, enhancing its ability to detect low-density foreign matter in bulk materials.
- Based on the advanced algorithm platform of Vixdetect, excellent high-precision detection can be achieved.
- By adopting a special conveyor for meat products, the conveyor system and machine body can be separated and washed directly, eliminating secondary contamination.
- 4G network wireless connection, It can remotely identify malfunctions in the equipment's software and provide online technical support and operations.
- Server-level Linux system, computer virus immunity, abnormal power failure without data loss.
- It is superior to the internationally radiation safety standard and has the safety interlock monitoring function.



Application

- Detect small bones in poultry



Specification

Model	VXD-C4016-B
X-Ray Source	350W
Detection Sensitivity	SUS Ball : 0.3mm, SUS Wire : 0.2*2mm, Glass Ball : 0.8mm, Ceramic Ball : 0.7mm
Operation System	Linux System
HMI	17-inch touch screen
Conveyor Speed	5~30 m/min
Products Weight	Max 10kg
Aperture Dimension	Max Width 400mm, Max Height 160mm
Power	AC220V, 50-60Hz
Temperature/Humidity	Working Temperature 0~45°C, Relative Humidity 30~85% no condensation
IP Grade	IP66 for Conveyor, IP54 for other parts
Machine Material	304 SUS, Mirror/Sandblasted

Detection Range:

Height (mm)	Width (mm)
160	267
140	284
120	301
100	317
80	334
60	350
40	367
20	383
0	400

Note: The size of the smallest detectable foreign object depends on a number of factors, including the composition of the product, the packaging material, and the size and thickness of the foreign object. In the actual production environment, please refer to the actual product inspection results. The international standard for ceramic glass is 1.0mm, but the actual precision of glass ceramic in the empty machine will exceed this standard.

Detect Needle in Pork



Specialised in detecting broken needles under the skin of pork necks and other raw meats.



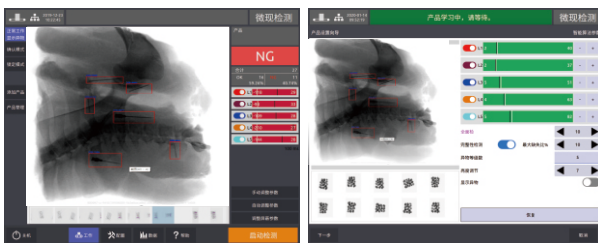
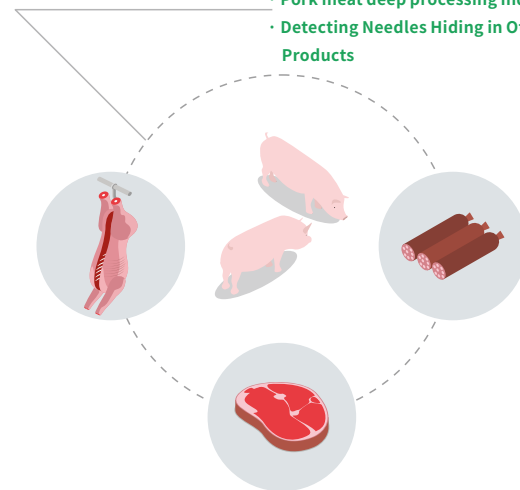
VXD-C6030-U05

Advantages

- Pork body analysis algorithm based on AI technology can accurately detect broken needles and bones in pork products.
- conventional foreign bodies other than needles can also be detected.
- Based on the advanced algorithm platform of Vixdetect, excellent high-precision detection can be achieved.
- 4G network wireless connection, It can remotely identify malfunctions in the equipment's software and provide online technical support and operations.
- Server-level Linux system, computer virus immunity, abnormal power failure without data loss.
- Conveyor system and machine body can be separated and washed directly, eliminating secondary contamination.
- High reliability industrial inspection equipment, double layer thermal cycle, can run 7*24 hours.

Application

- Pig slaughtering and processing industry
- Pork meat deep processing industry
- Detecting Needles Hiding in Other Meat Products



Specification

Model	VXD-C6030-U05
X-Ray Source	350W/480W
Detection Sensitivity	SUS Ball : 0.3mm, SUS Wire : 0.2*2mm, Glass Ball : 0.8mm, Ceramic Ball : 0.7mm
Operation System	Linux System
HMI	17-inch touch screen
Conveyor Speed	5~60 m/min
Products Weight	Max 30kg
Aperture Dimension	Max Width 600mm, Max Height 300mm
Power	AC220V, 50-60Hz
Temperature/Humidity	Working Temperature 0~45°C, Relative Humidity 30~85% no condensation
IP Grade	IP66 for Conveyor, IP54 for other parts
Machine Material	304 SUS, Mirror/Sandblasted

Detection Range:

Height (mm)	Width (mm)
300	351
270	376
240	401
210	426
180	451
150	476
120	501
90	525
60	550
30	575
0	600

Note: The size of the smallest detectable foreign object depends on a number of factors, including the composition of the product, the packaging material, and the size and thickness of the foreign object. In the actual production environment, please refer to the actual product inspection results. The international standard for ceramic glass is 1.0mm, but the actual precision of glass ceramic in the empty machine will exceed this standard.

Customized Inspection



Standard and customized algorithms run in parallel to realise synchronous detection of foreign bodies, product defects, omissions and efficiently meet customers' personalised inspection needs.

- Cheese Stick: stick missing, broken, Insufficient cheese content, extruded deformation and empty package;
- Nut detection: Detection of wormholes and shrivelling in nuts such as coffee beans, macadamia nuts, and batamango nuts, etc;
- Tablet or syringe crack detection: detection of cracks inside the tablet or syringe;
- Detection of sand and tiny bones: detection of low-density sand in food such as pumpkin and plum, detection of tiny bones in pork meat processing products;
- Missing accessories: Detects missing and deformed accessories inside the product package;
- Other customized detection: Provide customized defect detection schemes based on customer requirements;

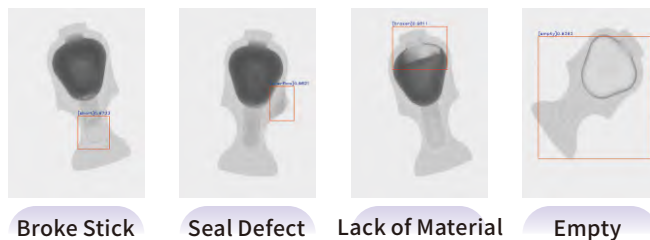
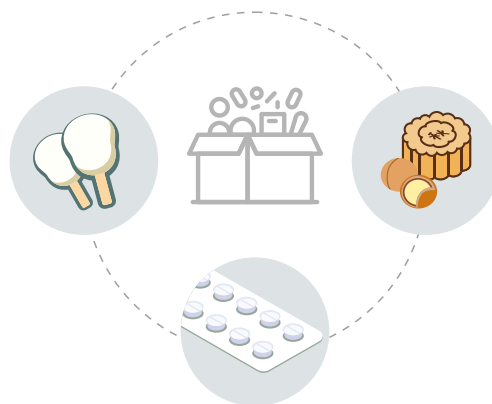


VXD-B4016-UXX

Advantages

- The dual-energy detection algorithm developed for chicken breast can effectively distinguish between chicken and bone ingredient.
- Multi-purpose with one machine, foreign body detection and product defect detection are carried out simultaneously.
- Based on the advanced algorithm platform of Vixdetect, excellent high-precision detection can be achieved.
- The machine is integrated with a 48-128 way array air reject valve, which can accurately eliminate and reduce carryover of good product.
- 4G network wireless connection, It can remotely identify malfunctions in the equipment's software and provide online technical support and operations.
- Server-level Linux system, computer virus immunity, abnormal power failure without data loss.
- The conveyor system and the main machine can be separated and cleaned directly.

Application



Specification

Model	VXD-C4016-UXX
X-Ray Source	210W/350W
Detection Sensitivity	SUS Ball: 0.3mm, SUS Wire: 0.2*2mm, Glass Ball: 0.8mm, Ceramic Ball: 0.7mm
Operation System	Linux System
HMI	17-inch touch screen
Conveyor Speed	5~60 m/min
Products Weight	Max 10kg
Aperture Dimension	Max Width 400mm, Max Height 160mm
Power	AC220V, 50-60Hz
Temperature/Humidity	Working Temperature 0~45°C, Relative Humidity 30~85% no condensation
IP Grade	IP66 for Conveyor, IP54 for other parts
Machine Material	304 SUS, Mirror/Sandblasted

Note: The size of the smallest detectable foreign object depends on a number of factors, including the composition of the product, the packaging material, and the size and thickness of the foreign object. In the actual production environment, please refer to the actual product inspection results. The international standard for ceramic glass is 1.0mm, but the actual precision of glass ceramic in the empty machine will exceed this standard.

X-Ray Inspection and Checkweigher Combination



The X-ray inspection and checkweigher combination is an integrated contaminant detection and weighing device designed to ensure product quality and compliance. It can detect all types of contaminants in the product and weigh the products at the same time, effectively detecting any potential quality issues.



VXW-C4016-4050-1200G

Advantages

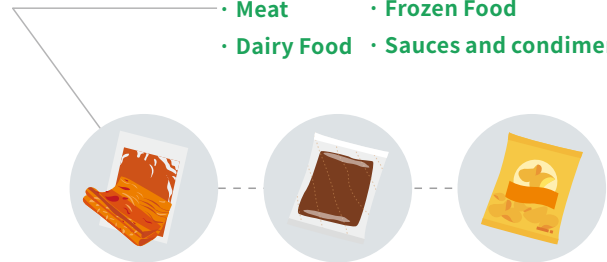
- Based on the advanced algorithm platform of Vixdetect, excellent high-precision detection can be achieved.
- The standard AI algorithm is simple and intelligent, no previous experience is required, it can quickly add new products according to the wizard.
- Standard and customized algorithm can detect in parallel to further improve the detection accuracy.
- According to the product attributes, a variety of rejectors can be selected to accurately eliminate NG products.
- 4G network wireless connection, It can remotely identify malfunctions in the equipment's software and provide online technical support and operations.
- Powered by a server-level Linux operating system, it is immune to computer viruses and is designed to prevent data loss in the event of unexpected power failures.
- The mainframe integrates a high-precision weighing platform, and a single unit performs both X-Ray and weighing inspection functions;
- It is superior to the international radiation safety standards, and has the function of safety interlock monitoring.

Contaminants

Metal, Glass, Ceramic, Hard Plastic, Resin, Bones, Shells, etc.
Weight detection

Application

- Snacks
- Meat
- Dairy Food
- Baked and Steamed Food
- Frozen Food
- Sauces and condiments



Specification

Model	VXW-C4016-4050-1200G
Aperture Dimension	Max Width 400mm, Max Height 160mm
IP Grade	complete machine IP55 detection channel IP66 Built-in condensate pipe
Sensitivity	SUS Ball : Φ 0.3mm, SUS Wire : Φ 0.2 * 2 mm, Glass Ball : 0.8mm, Ceramic Ball : 0.7mm
Conveyor Speed	10-60m/min
Conveyor Height	800±50mm
Direction	From right to left
Products Weight	Max1.2KG
Temperature/Humidity	Working Temperature-10~45°C, Relative Humidity 30~90% Built-in industrial air conditioner
Weighing Platform Size	500mm (Height) *400mm (Width)
Highest Accuracy	±0.2g
X-Ray Source	350W
X-Ray leakage	< 1 μ Sv/h
HMI	17-inch touch screen
OS	Linux System
Detector size	0.4mm Multi-Row high sensitivity receiver
Software	Vixdetect X-Ray Inspection System
Radiation Protection	≤1uSv/h

Detection Range:

Height (mm)	Width (mm)
160	267
140	284
120	301
100	317
80	334
60	350
40	367
20	383
0	400

Movable Model



Can be moved by hand. Compact design, stable performance and easy maintenance.



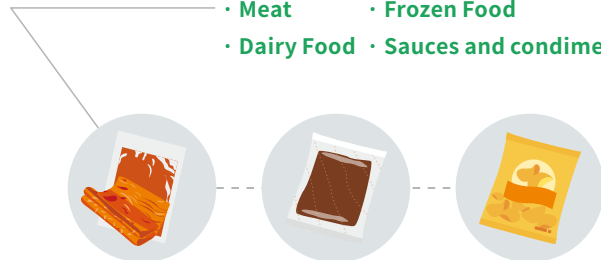
VXD-C4016-M

Advantages

- It is based on the advanced Vixdetect Wise-Eye algorithm platform. Precision detection can be realised.
- The standard AI algorithm is simple and intelligent, no previous experience is required, it can quickly add new products according to the wizard.
- Customized AI algorithms are suitable for special products, standard and customized algorithms can work together.
- According to the product attributes, a variety of rejectors can be selected to accurately eliminate NG products.
- 4G network wireless connection, It can remotely identify malfunctions in the equipment's software and provide online technical support and operations.
- Server-level Linux system, computer virus immunity, abnormal power failure without data loss;
- Conveyor system and machine body can be separated and washed directly, eliminating secondary contamination.
- It is superior to the international radiation safety standards and specifications, and has the function of safety interlock monitoring.

Application

- Snacks
- Baked and Steamed Food
- Meat
- Frozen Food
- Dairy Food
- Sauces and condiments



Contaminants

Metal, Glass, Ceramic, Hard Plastic, Resin, Bones, Shells, etc.

Specification

Model	VXD-C4016-M
Aperture Dimension	Max Width 400mm, Max Height 160mm
IP Grade	complete machine IP55 detection channel IP66 Built-in condensate pipe
Sensitivity	SUS Ball: Φ 0.3mm, SUS Wire: Φ 0.2 * 2 mm, Glass Ball: 0.8mm, Ceramic Ball : 0.7mm
Conveyor Speed	10-60m/min
Conveyor Height	800±50mm
Direction	From left to right
Products Weight	Max 10KG
Temperature/Humidity	Working Temperature-10~45°C, Relative Humidity 30~90% Built-in industrial air conditioner
Weighing Platform Size	500mm (Height) *400mm (Width)
X-Ray Source	210W
X-Ray leakage	< 1 μ Sv/h
HMI	17-inch touch screen
OS	Linux System
Detector size	0.4mm high sensitivity receiver
Software	Vixdetect X-Ray Inspection System
Radiation Protection	≤1uSv/h

Detection Range:

Height (mm)	Width (mm)
160	267
140	284
120	301
100	317
80	334
60	350
40	367
20	383
0	400

Large-aperture X-Ray inspection



This X-Ray machine has a large aperture dimension, it is specifically designed for inspecting products in large cartons, boxes, cases, trays, and bags. No-blind-zone design.



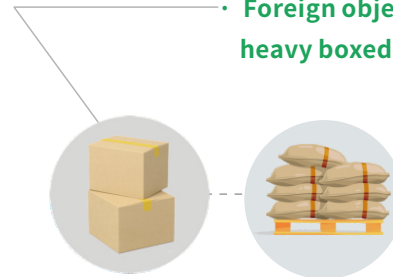
VXD-C8060-S

Advantages

- Suitable for detecting foreign objects in large and heavy bags and boxes;
- The standard AI algorithm is simple and intelligent, no previous experience is required, it can quickly add new products according to the wizard.
- According to the product attributes, a variety of rejectors can be selected to accurately eliminate NG products.
- 4G network wireless connection, It can remotely identify malfunctions in the equipment's software and provide online technical support and operations.
- Server-level Linux system, computer virus immunity, abnormal power failure without data loss;
- The conveyor system and the main machine can be separated and cleaned directly.
- It is superior to the international radiation safety standards and specifications, and has the function of safety interlock monitoring.

Application

- Foreign object detection for heavy boxed or bagged products



Contaminants

Metal, Glass, Ceramic, Hard Plastic, Resin, Bones, Shells, etc.

Specification

Model	VXD-C8060-S
Aperture Dimension	800*600mm
IP Grade	complete machine IP55 detection channel IP66 Built-in condensate pipe
Sensitivity	Metallic Ball: Φ 0.5mm, Metallic Wire: Φ 0.4 * 2 mm, Ceramic Ball: Φ 1.5mm
Conveyor Speed	10-50m/min
Conveyor Height	800 \pm 50mm
Direction	From left to right
Products Weight	Max 50KG
Temperature/Humidity	Working Temperature-10~45°C, Relative Humidity 30~90% Built-in industrial air conditioner
Weight	1000kg
Power	200-240VAC 50-60Hz Built-in precision voltage regulator
X-Ray Source	350W/480W
X-Ray leakage	< 1 μ Sv/h
HMI	17-inch touch screen
OS	Linux System
Detector size	0.4mm/0.8mm high sensitivity receiver
Software	Vixdetect X-Ray Inspection System
Radiation Protection	\leq 1uSv/h
Machine Material	304SUS

Pipeline X-Ray inspection



Specially designed for pipeline-transported products, capable of detecting various foreign contaminants in fluids and semi-fluids products.



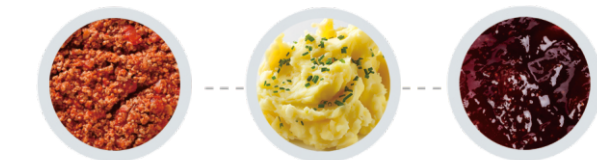
VXD-P100-Series

Advantages

- Suitable for detecting foreign objects in fluids, semi-fluids and paste-like products;
- The standard AI algorithm is simple and intelligent, no previous experience is required, it can quickly add new products according to the wizard.
- According to the product attributes, a variety of rejector can be selected to accurately eliminate NG products.
- 4G network wireless connection, It can remotely identify malfunctions in the equipment's software and provide online technical support and operations.
- Server-level Linux system, computer virus immunity, abnormal power failure without data loss;
- The conveyor system and the main machine can be separated and cleaned directly.
- It is superior to the international radiation safety standards and specifications, and has the function of safety interlock monitoring.

Application

- Meat paste
- Meat slurry
- Dairy products
- Fruit jam
- Chocolate
- Soup&Sauces



Contaminants

Metal, Glass, Ceramic, Hard Plastic, Resin, Bones, Shells, etc.

Specification

Model	VXD-P100-Series
Aperture Dimension	100mm
IP Grade	complete machine IP55, detection channel IP66, Built-in condensate pipe
Sensitivity	Metallic Ball: Φ 0.2mm, Metallic Wire: Φ 0.1 * 2 mm, Ceramic Ball: Φ 0.8mm
Weight	350kg
Flow rate	5kL/hr
Direction	From left to right
Temperature/Humidity	Working Temperature-10~45°C, Relative Humidity 30~90% Built-in industrial air conditioner
Power	200-240VAC 50-60Hz Built-in precision voltage regulator
X-Ray Source	150W
X-Ray leakage	< 1 μ Sv/h
HMI	17-inch touch screen
OS	Linux System
Detector size	0.4mm high sensitivity receiver
Software	Vixdetect X-Ray Inspection System
Radiation Protection	\leq 1uSv/h
Machine Material	304SUS

Note: Specifications reflect ideal no-product conditions. Actual detection sensitivity varies based on product composition, packaging, and size. Refer to production line validation for real-world performance.



Metal Detector | GEN II

Metal detector is a specialized device used to detect metal contaminants in products, widely applied in industries such as food, pharmaceuticals, and chemicals. Utilizing electromagnetic induction technology, it can accurately identifies metallic contaminants in products, including ferrous, non-ferrous and stainless steel.



Metallic Contaminants Inhibit Product Effects



Ferrous



SUS



Copper



Aluminium



Tin

Detector Model

Take VMD-C2508 as an example, detectable Width is 25cm, detectable Height is 8cm.

Item	Detectable Width, cm								
	25	30	40	50	60	70	80	90	110
Models	VMD-C2506	VMD-C3005	VMD-C4006	VMD-C5008	VMD-C6008	VMD-C7008	VMD-C8008	VMD-C9015	VMD-C11007
	VMD-C2508	VMD-C3008	VMD-C4008	VMD-C5010	VMD-C6010	VMD-C7010	VMD-C8010		
	VMD-C2510	VMD-C3010	VMD-C4010	VMD-C5012	VMD-C6012	VMD-C7012	VMD-C8012		
	VMD-C2512	VMD-C3012	VMD-C4012	VMD-C5015	VMD-C6015	VMD-C7015			
	VMD-C2515	VMD-C3015	VMD-C4015	VMD-C5018	VMD-C6018	VMD-C7018			
	VMD-C2530	VMD-C3018	VMD-C4018	VMD-C5020	VMD-C6020	VMD-C7020			
		VMD-C3020	VMD-C4020	VMD-C5022	VMD-C6025	VMD-C7022			
			VMD-C4022	VMD-C5025	VMD-C6028	VMD-C7025			
			VMD-C4025	VMD-C5028	VMD-C6030	VMD-C7030			
			VMD-C4028	VMD-C5030	VMD-C6035	VMD-C7040			
			VMD-C4032		VMD-C6040				

Technical Specifications

Frequency	Standard with four frequencies, automatically operates in dual-frequency mode.
Working mode	Dry, wet, salt, aluminized film and other modes
Product recipe storage	200
HMI	7-inch touch screen
Operating system	Embedded RTOS
Conveyor speed	Software speed control 5-60 m/min
Alarm mode	Audio-visual alarm/Alarm with auto-stop/automatic sorting system (Optional at additional cost)
Conveyor belt height	Height customizable from 500 to 1000mm
Conveyor belt material	Food grade PU tape/chain plate (optional)
Temperature and humidity	Ambient temperature 0~45°C , relative humidity 30~ 85% no condensation
IP Grade	Machine IP66, motor IP67
Equipment material	304 SUS
Communication interface	USB/Ethernet port/RS232 serial port/RS485/4G remote support/Auto factory Support (optional)
Parameter setting	Fully automatic learning without manual phase setting
Power supply	AC 220V 50/60Hz
Sensitivity	Fe ≥ Φ0.4mm SUS ≥ Φ0.8 mm



Pipeline Metal Detector

Pipeline metal detector is a specialized device used to detect metallic contaminants in products conveyed through pipelines, primarily applied to liquids, pastes, and semi-solid materials. Equipped with high-sensitivity sensors installed within a closed pipeline, it can quickly and accurately detect even the smallest metallic impurities, ensuring product quality and safety.



Advantages

- Adopting advanced sensing technology, suitable for detecting metallic contaminants in liquid, semi-liquid and pasty products.
- Simultaneous multi-frequency detection and product effect suppression technology can reduce false rejects caused by air bubbles or voids.
- Rejector system can efficiently and accurately reject miniscule metallic contaminants, reducing raw material waste and helping to save costs and increase efficiency.
- Food-grade Teflon pipe can withstand high temperatures and pressures.
- Equipped with three different pipe diameters : 30, 50 and 100mm.
- A High-Definition Colour touch panel ,equipped with multilingual user interface, including Chinese, English and many other language options.
- User-friendly design, easy to operate and maintain, compact design, easily integrated into the production line.

Specification for VMD-P pipe-line series

Model	VMD-P30	VMD-P50	VMD-P100
Diameter (mm)	30	50	100
Sensitivity	Fe \geq Φ 0.4mm	Fe \geq Φ 0.5mm	Fe \geq Φ 0.8mm
	Sus \geq Φ 1.0mm	Sus \geq Φ 1.2mm	Sus \geq Φ 1.5mm
Power supply	AC 220V 50/60Hz		
Parameter setting	Auto learning		
Product recipe storage	200		
Pressure	\leq 1MPa		
Weight	150	170	210
Product type	Liquid, Sauce		
Compressed Air	\geq 0.5MPa		
Rejector	Ball valve		
Tube material	Teflon		
HMI	7-inch touch screen		
Operation system	Embedded RTOS		
IP Grade	IP66		
Equipment material	304 SUS		
Communication interface	USB/Ethernet port/RS232 serial port/RS485/4G remote support/Auto factory Support (optional)		

Note: The above detection sensitivity data were measured under no-load conditions. Actual detection sensitivity may vary depending on product characteristics, environmental factors, and the orientation/position of metal contaminants.



Free Fall Metal Detector

Free Fall Metal Detector is a device used to detect foreign metallic objects in products. The principle of operation is that gravity causes the product to fall into the detection area. As the product passes through, a built-in sensor will detect the foreign metallic objects. If contaminants are detected, it will trigger an alarm and NG product will be rejected from the production line.



Advantages

- Using gravity principle, effectively inspect powder, grain or granular products.
- Overall stainless steel construction, waterproof variable speed motor, stable performance.
- Effectively reject miniscule metallic foreign objects, reduce false rejection rate and raw material waste.
- Vixdetect frequency hopping technology can effectively deal with large electrical equipment and other external interference factors, high sensitivity to reduce false alarms.
- User-friendly design, easy to operate and maintain, compact design, Simple to integrated into the production line.
- Provide optimal solutions according to production line and product.

Application

• Powder, granule products



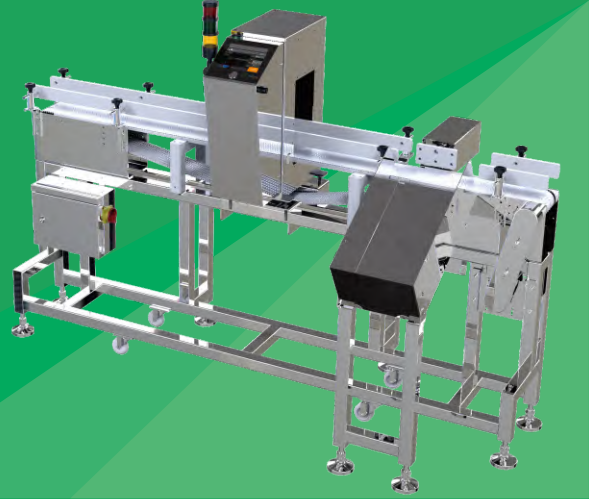
Specification

Model	VMD-F75	VMD-F100	VMD-F150	VMD-F200
Diameter (mm)	75	100	150	200
Sensitivity	Fe ≥ Φ0.5mm	Fe ≥ Φ0.6mm	Fe ≥ Φ0.8mm	Fe ≥ Φ1.0mm
	Sus ≥ Φ0.8mm	Sus ≥ Φ1.0mm	Sus ≥ Φ1.5mm	Sus ≥ Φ2.0mm
Power supply	AC 220V 50/60Hz			
Parameter setting	Auto learning			
Recipe count	200 sets			
Throughput(L/H)	7000	8000	17000	19000
Weight	120	140	160	180
Product type	Powder, granular products			
Compressed Air	≥ 0.5MPa			
Rejection mode	High speed flap			
Tube material	PP			
HMI	7-inch touch screen			
Operation system	Embedded RTOS			
IP Grade	IP66			
Equipment material	304 SUS			
Communication interface	USB/Ethernet port/RS232 serial port/RS485/4G remote support/Auto factory Support (optional)			



Vertical Metal Detector

Vertical metal detector is a device used for detecting metallic foreign bodies in products. It employs advanced sensing technology to accurately identify metallic contaminants within products. This equipment boasts high sensitivity and reliability, capable of detecting minute Metallic granule to ensure product quality and process safety.



Advantages

- Adopting advanced sensing technology, suitable for metallic foreign object detection of bottles and canned products.
- With automatic product learning function, up to 200 groups of product formulas can be stored.
- Efficiently reject miniscule metallic foreign objects, reducing raw material waste, save costs and increase efficiency.
- Food contact grade conveyor belt material, PU belt, plate chain and other optional, safe and durable.
- Can be equipped with a variety of integrated rejector styles.
- Vixdetect frequency hopping technology can effectively deal with large electrical equipment and other external interference factors to reduce false alarms.
- Simple operation, waterproof, easily integrates into any production line.

Application

- Detection of metallic contaminants in bottles, cans and cartons.



Specification

Parameter Setting	L1027	L1532	L2032
Frequency	4 Frequency, 50K~800KHz		
Working mode	Dry, wet, salt, aluminized foil and other modes		
Product recipe storage	200 groups		
HMI	7-inch touch screen		
Operating system	Embedded RTOS		
Conveyor speed	Software speed control 5-60 m/min		
Rejection mode	Audible and visual alarm/alarm stop/automatic sorting system (optional)		
Conveyor belt height	Height customizable from 500 to 1000mm		
Conveyor belt material	Food grade PU tape/chain plate (optional)		
Temperature and humidity	Ambient temperature 0~45°C , relative humidity 30~ 85% no condensation		
IP Grade	Machine IP66, motor IP67		
Equipment material	304 SUS		
Communication interface	USB/Ethernet port/RS232 serial port/RS485/4G remote support/Auto factory Support (optional)		
Sensitivity	Fe ≥ Φ0.4mm	Fe ≥ Φ0.5mm	Fe ≥ Φ0.8mm
	Sus ≥ Φ1.0mm	Sus ≥ Φ1.2mm	Sus ≥ Φ1.5mm

Note: The above detection sensitivity data were measured under no-load conditions. Actual detection sensitivity may vary depending on product characteristics, environmental factors, and the orientation/position of metal contaminants.



Tablet Metal Detector

Tablet metal detector is a high-precision metal detection system designed specifically for the pharmaceutical industry. It can effectively detects minute metallic contaminants in tablets and capsules.



Advantages

- Suitable for the detection of metallic foreign objects in pharmaceutical products such as tablets and capsules.
- With automatic product learning function, convenient operation.
- Simultaneous multi-frequency detection and product effect suppression technology, ensure stable performance.
- Parts in direct contact with drugs, such as feeding chute, rejector, NG box can be removed and attached without tools.
- Overall stainless steel structure, waterproof, ensure the safety of drugs.
- Compact design, easily integrated into the production line.

Application

- Suitable for Tablet and Capsule Products



Specification

Model	VMD-T1203
Diameter (mm)	120mm*30mm
IP Grade	IP 66
Sensitivity	Fe ≥ Φ0.3mm, SUS ≥ Φ0.4mm
Power supply	AC 220V 50/60Hz
Parameter setting	Auto learning
Product recipe storage	200
Weight	75KG
Product type	Pill, Bulk
Compressed Air	≥0.5MPa
Rejector	Chute type
Tube material	Teflon
Human interface	7-inch touch screen
Operation system	Embedded RTOS
Equipment material	304 SUS
Communication interface	USB/Ethernet port/RS232 serial port/RS485/4G remote support/Auto factory Support (optional)



Checkweigher

Automatic dynamic checkweigher is widely used in production lines, using sensors placed under the conveyor belt to measure the weight of moving products.

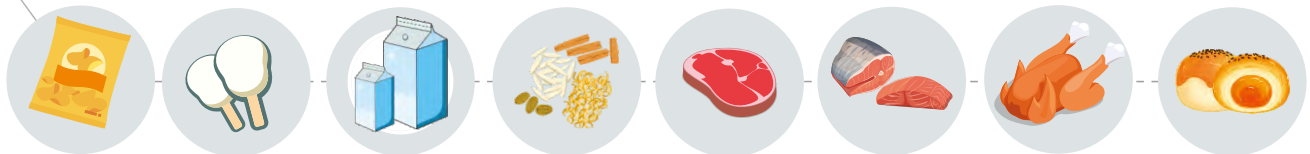


Advantages

- Designed to increase productivity.
- High-speed sampling control makes equipment faster and more accurate.
- 10 inch large color touch screen, independent operation within 3 minutes .
- Overall stainless steel structure, optional Ip65 waterproof machine.
- Multiple product preset functions, easy and fast product changeover.
- Easy to maintain and easy to clean.
- Adjustable speed and frequency.

Application

• Used in various industries for automatic weighing and sorting of products.



Specification

Model	VWD-1528-300G	VWD-1528-600G	VWD-2235-1500G	VWD-2245-1500G	VWD-2245-3000G	VWD-3045-3000G	VWD-3055-3000G	VWD-4060-6000G
Weight Range	2 - 300 g	2- 600 g	5 - 1500 g	5 - 1500 g	5 - 3000 g	5 - 3000 g	5 - 3000 g	5 - 6000 g
Highest Accuracy*	±0.1g	±0.1g	±0.2g	±0.2g	±0.3g	±0.3g	±0.3g	± 0.5g
Resolution	0 . 1 g	0 . 1 g	0 . 1 g	0 . 1 g	0 . 1 g	0 . 1 g	0 . 1 g	5 g
Weighing conveyor Length	280 mm	280mm	350mm	450mm	450mm	450mm	550mm	600mm
Conveyor belt width	150 mm	150 mm	220 mm	220 mm	220 mm	300 mm	300 mm	400 mm
Conveyor speed	10-70 m/min	10-70 m/min	10-70 m/min	10-70 m/min	10-60m/min	10-60 m/min	10- 60 m/min	≤ 60 m/min
Rejection mode	Pusher, Airjet			Flipper, Pusher, Dropout etc				
Conveyor height	800±50mm							
HMI	10-inch touch screen							
OS	Embedded RTOS							
IP Grade	IP54/IP65							
Equipment material	304 SUS							
Communication interface	USB/Ethernet port/RS232 serial port/RS485/4G remote support/Auto factory Support (optional)							
Max speed	160 piece/min	140 piece/min	130 piece/min	100 piece/min	90 piece/min	80 piece/min	80 piece/min	60 piece/min
Product recipe storage	200							
Product length	50 ~ 190 mm	50 ~ 190 mm	50 ~ 240 mm	50 ~ 300 mm	50 ~ 300 mm	50 ~ 380 mm	50 ~ 380 mm	50 ~ 400 mm
Weight (KG)	110	110	120	110	110	120	120	135

*The detection accuracy depends on the on-site environment and the weight, size and characteristics of the product being weighed



Checkweigher for High / Heavy Loads

This checkweigher can monitoring of single large products in challenging working environments and automatically weighing and sorting of High or Heavy Loads.



Advantages

- Designed to increase productivity.
- High-speed sampling control makes equipment faster and more accurate.
- 10 inch large color touch screen, independent operation within 3 minutes .
- Overall stainless steel structure, optional Ip54 waterproof machine.
- Multiple product preset functions, easy and fast product changeover.
- Easy to maintain and easy to clean.
- Adjustable speed and frequency.
- Zero tracking function.

Application

- Applied to automatically weighing and sorting of High or Heavy Loads.



Specification

Model	VWD-4060-30KG	VWD-4080-30KG	VWD-5060-30KG	VWD-5080-30KG	VWD-5080-30KG-FS	VWD-50100-30KG-FS	VWD-5080-60KG-FS	VWD-50100-60KG-FS
Weight Range	10g - 30kg	10g - 30kg	10g - 30kg	10g - 30kg	10g - 30kg	10g - 30kg	10g - 60kg	10g - 60kg
Highest Accuracy*	±10g	±10g	±10g	±10g	±5g	±5g	±5g	±5g
Product length(transport direction)	150~400 mm	150 ~ 600 mm	150~400 mm	150 ~ 600 mm	150 ~ 600 mm	150 ~ 800 mm	150 ~ 600 mm	150 ~ 800 mm
Maximum detection speed	65piece/min	50piece/min	65piece/min	50piece/min	50piece/min	50piece/min	40piece/min	40piece/min
Weighing conveyor Length	600mm	800mm	600mm	800mm	800mm	1000mm	800mm	1000mm
Conveyor belt width	400mm	500mm	400mm	500mm	500mm	500mm	500mm	500mm
Conveyor belt height	800±50mm							
Product recipe storage	200							
Rejection mode	Pusher, Auto Stop & Alarm							
HMI	10-inch touch screen							
Operating system	Embedded RTOS							
IP Grade	IP 54							
Equipment material	304 SUS							
Communication interface	USB/Ethernet port/RS232 serial port/RS485/4G remote support/Auto factory Support (optional)							
Minimum scale	5g	5g	5g	5g	5g	5g	5g	5g
Conveyor speed	≤ 60 m/min							
Weight (KG)	110	120	120	130	135	140	135	140
Number of sensors	1	1	1	1	4	4	4	4



Metal Detector and Checkweigher Combination

Metal detector and checkweigher combination is a device that combines metal detection and weighing functions. It is capable of simultaneously detecting metallic contaminants in products and weighing them. This equipment has high sensitivity and accuracy, capable of detecting tiny Metallic granule and accurately measuring the weight of products.



Advantages

- Integrates multiple product inspection modes, suitable for various scenarios.
- Multi-frequency Combination: Built-in with four frequencies, allowing real-time synchronous detection with any dual-frequency combination to ensure optimal detection frequencies for both Ferrous and SUS.
- Automatic Learning: Learning completed after two passes of good products, automatically calculating phase and other parameters without the need for manual adjustment of complex settings.
- Effect Suppression: Special algorithm for suppressing product effects.
- Easy to use: Equipped with a color LCD touchscreen, user-friendly interface with synchronized display of four frequencies' data.
- Stability and Reliability: Utilizes waterproof variable-speed motors, ensuring stable and reliable operation.
- Built-in Frequency Hopping: Vixdetect frequency hopping technology can counter interference from large electrical equipment such as packaging machines, reducing false alarms.

Specification

Model	VMW-C2512-2245-1500G	VMW-C3010-3055-3000G	VMW-C3012-3055-3000G	VMW-C4012-4060-3000G	VMW-C4012-4060-6000G
Weight Range	1500g	3000g	3000g	3000g	6000g
Maximum dynamic weighing accuracy*	±0.5g	±1g	±1g	±2g	±2g
Optimal metal detection accuracy*	Fe Φ 0.4mm SUS Φ0.8mm	Fe Φ 0.5mm SUS Φ1.0mm	Fe Φ 0.5mm SUS Φ1.0mm	Fe Φ 0.6mm SUS Φ1.0mm	Fe Φ 0.6mm SUS Φ1.0mm
Maximum detection speed	120piece/min	80piece/min	80piece/min	60piece/min	60piece/min
Dimensions(W* H)	250mm*120mm	300mm*100mm	300mm*120mm	400mm*120mm	400mm*120mm
Size of weighing table (L* W)	450mm*220mm	550mm*300mm	550mm*300mm	600mm*400mm	600mm*400mm
Conveyor belt height	800±50mm				
Product recipe storage	200				
Rejection mode	Flipper, Pusher, Airjet etc.				
HMI	10-inch touch screen				
Operating system	Embedded RTOS				
IP Grade	IP54				
Equipment material	304 SUS				
Communication interface	USB/Ethernet port/RS232 serial port/RS485/4G remote support/Auto factory Support (optional)				

*The detection accuracy depends on the on-site environment and the weight, size and characteristics of the product being weighed

● Rejector

The rejector system is used in conjunction with the food contaminant detection system. The contaminant detection system provides an alarm signal to control the rejector to remove the NG product from the production line and prevent it from entering the next production link.

Use cylinder or electric cylinder drive, a variety of sorting methods are optional, suitable for a wide range of products.

High accuracy, High rejection speed, which can improve the product qualification rate and reduce user complaints.

Reinforced stainless steel frame with high waterproof rating.

All contact parts are made from food grade materials to ensure product is not contaminated.

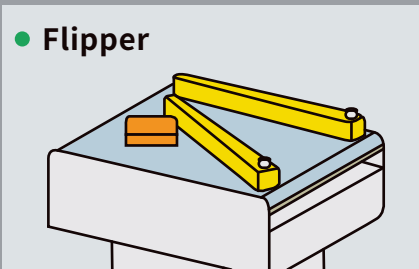
Can used in all kinds of automatic assembly line and logistics system.

Widely used in pharmaceutical, food and other industries .

It can replace manual sorting to improve production efficiency and reliability.

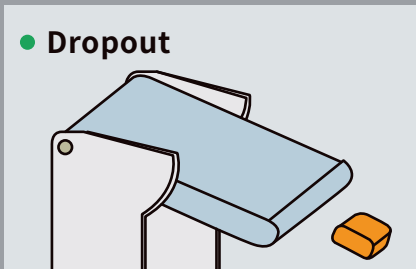
■ Type of Rejectors

● Flipper



Use left and right swinging arm to sort the product , suitable for thick products and products in cartons.

● Dropout



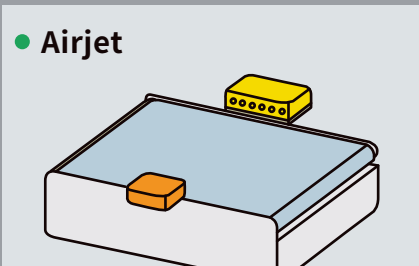
The conveyor drops down while sorting products and removes NG products from the production line. Suitable for light products .

● Chute



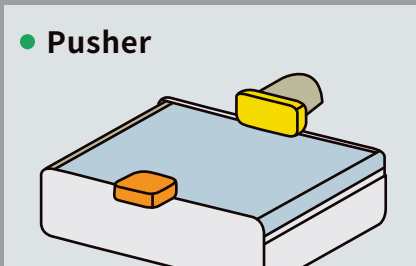
It rejects NG products from the production line by turning over the chute. Suitable for light, non-sticky products, frozen food or bulk materials.

● Airjet



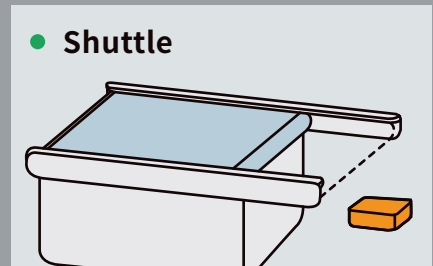
Uses a blast of air to blow NG products off the production line. Suitable for light bags and bulk products.

● Pusher

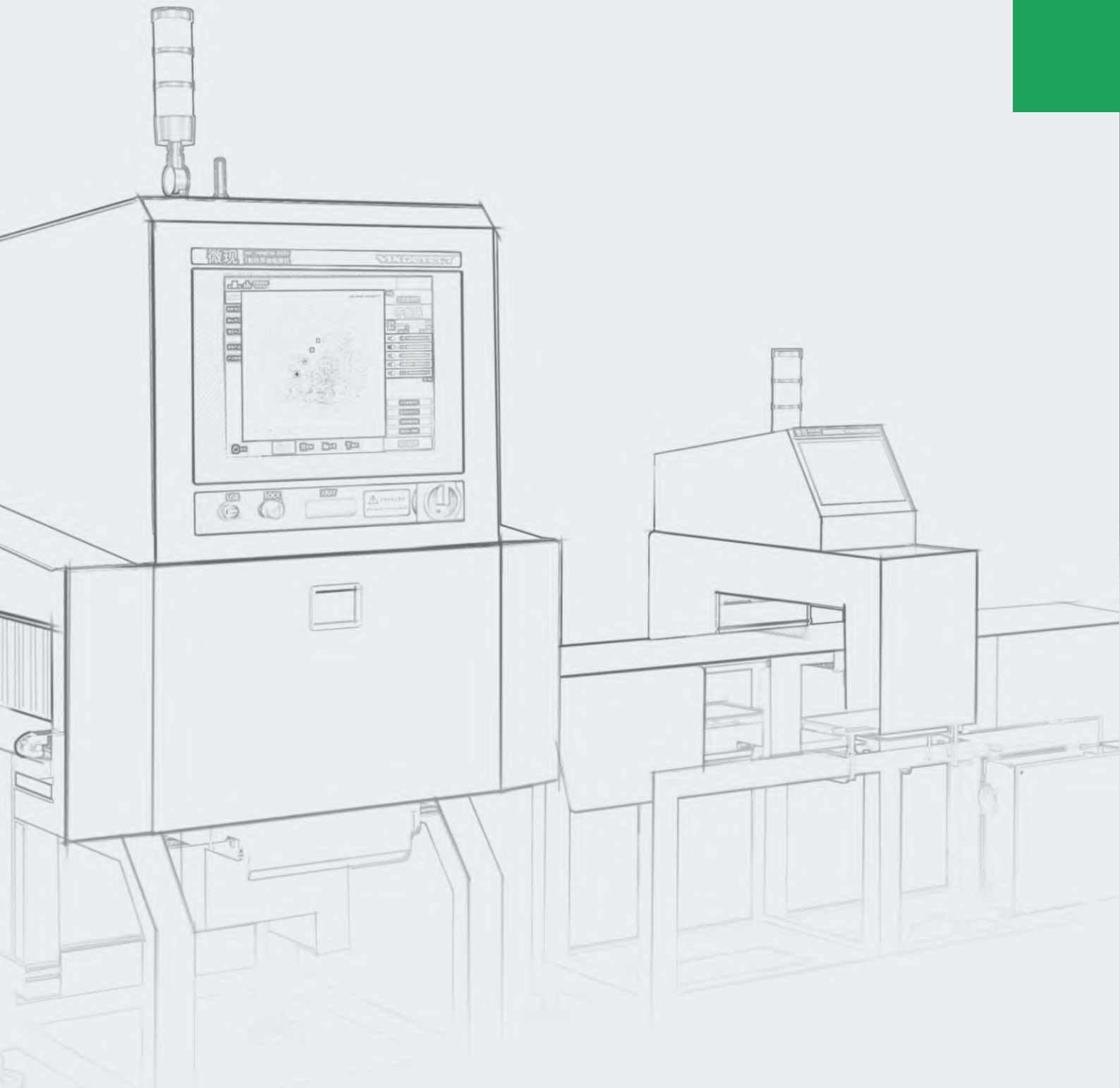


Sorting products using a cylinder-driven pusher to push NG products off the production line. Suitable for small and light products.

● Shuttle



Use a telescopic conveyor to sort the product , suitable for small packaging or sticky bulk food.



VIXDETECT

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