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# Detection Machine Information

# Client Reference



# Machining Workshop



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## Aluminum Foil Metal Detector

Aluminum Foil metal detector is specified for the detection of ferrous and stainless steel from packages of aluminum sealing bags, aluminum foil bags, Aluminum cans, other products packaged by materials containing aluminum etc.

This model of detector is applicable for detecting high temperature, high salty, high sugar, and water-containing products.



Electical:

Air

International 220-240VAC/1PH/60HZ

0.5-0.6 Mpa

\*All other electrical specification available on request at additional cost

Model/AFM		250	350	500	Remarks
Detector Width (mm)		250	350	500	Refer to the model sheet for more details
Detector Height (mm)		50~120	50~120	50~120	
Sensitivity with air test (Ø mm)	Fe	1	1	1.2	
	SUS 304	2	2	2	
Parameter setting		By intelligent product auto-learning			
Belt Width (mm)		250	350	500	
Conveyor Length (mm)		1200	1200	1500	
Max. Weight on Belt (kg)		10	15	15	
Belt Height (mm)		700-820/780-900 or customized			
Rejection Option		Air Jet, Pusher, Flipper, Flap Down, Drop Belt			

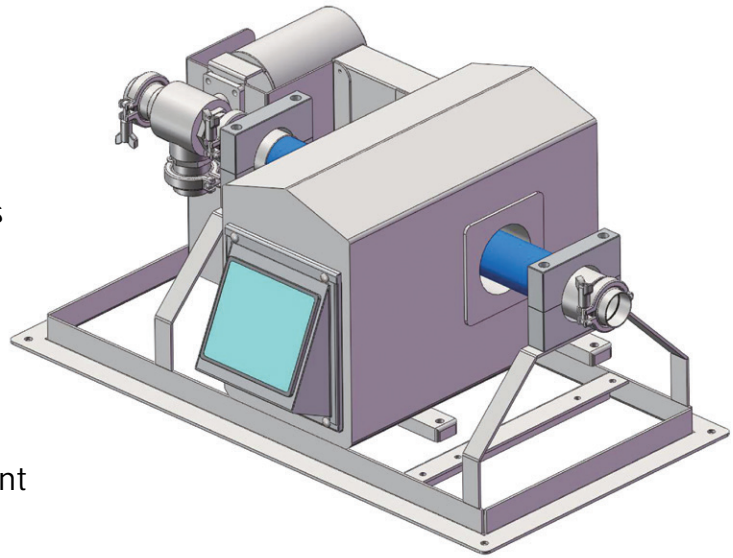
# Introduction of Metal Detectors

## Hardware Features:

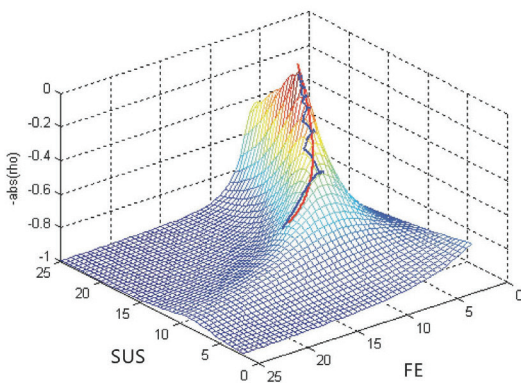
- Metal Detector head of hardfill technology
- Danish Danfoss frequency converter
- Swiss Habbsit conveyor belt
- US Ramtron Ferromagnetic RAM
- Japanese Oriental or German SEW motor
- Omron or Sick photocell
- SMC or Festo pneumatic parts

## Electronic and Software Features :

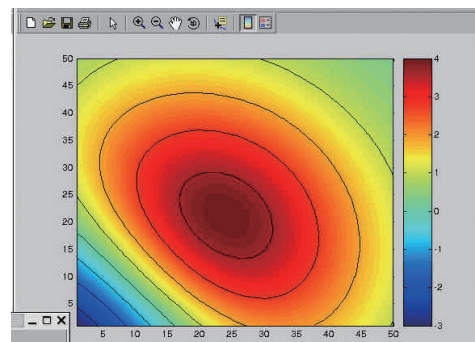
- Excellent performance electronic circuits composition by DDS digital frequency synthesis, FPGA LSI, low noise amplifiers, high performance filters, data lossless storage technology etc.
- Automatic parameter setting by intelligent automatic product learning function.
- Excellent sensitivity by multi-filtering algorithm, X-R orthogonal decomposition and PQNR algorithm.
- Automatic product phase adjustment by intelligent phase tracking technology.



## Algorithm and Simulation



Software algorithm



Electromagnetic Simulation





# Heavy Duty Metal Detector

Excellent metal detector head, intelligent product learning algorithms, capable for metal detection of difficult products, quick belt release.

With successful application experience in various large packaging production lines, such as sugar, salt, starch, rice, food additives, fresh meat, fruits, rubbers, chemicals

Options:

- \*IP 65 head
- \*CE/UL/CSA standards
- \*Rejection models (pusher, flap down, alarm & stop)

Electrical International 220-240VAC/1PH/60HZ      Air 0.5-0.6 Mpa

\*All other electrical specification available on request at additional cost



Model/SR		4520	4525	6020	6030	7520	7530
Detector Width		450	450	600	600	750	750
Detector Height		200	250	200	300	200	250
Effective Detecting Size		400*170	400*220	550*170	550*270	700*170	700*220
W*H (mm)							
Sensitivity	Fe	1	1.2	1	1.5	1	1.5
	Non Fe	1.5	1.8	1.5	2	1.5	2
	SUS 304	2	2.3	2	2.5	2	2.5
Parameter setting		By intelligent product auto-learning					
Belt Width		370	370	520	520	670	670
Conveyor Length		1800	2000	1800	2000	1800	2000
Max. Weight on Belt		25	25	50	50	100	100
Belt Height (mm)		700-820/780-900 or Custom					
Rejection Option		Pusher, Flap Down, Alarm & stop					

# Bakery Metal Detector

Excellent metal detector head, intelligent product learning algorithms, capable for metal detection of difficult products, quick belt release.

Options:

- \*Touch Screen
- \*CE/UL/CSA standards
- \*Rejection models (belt recoverable belt, drop belt)

Electrical                                  Air  
 International 220-240VAC/1PH/60HZ          0.5-0.6 Mpa

\*All other electrical specification available on request at additional cost



Touch Screen Option

Model/SR		6010	6012	9010	9012	12010	12012
Detector Width		600	600	900	900	1200	1200
Detector Height		100	120	100	120	100	120
Effective Detecting Size		550*70	550*90	850*70	850*90	1150*70	1150*90
W*H (mm)							
Sensitivity	Fe	0.6	0.8	0.8	1.0	0.8	1.0
	Non Fe	0.8	1.0	1.0	1.2	1.2	1.5
	SUS 304	1.2	1.5	1.5	1.8	1.5	2.0
Parameter setting		By intelligent product auto-learning					
Belt Width		520	520	820	820	1120	1120
Conveyor Length		2000	2200	2000	2200	2000	2200
Max. Weight on Belt		25	25	25	25	25	25
Belt Height (mm)		700-820/780-900 or Custom					
Rejection Option		Recoverable belt, Drop Belt					

# Bottle Metal Detector

Customized design for bottled products, 30% higher sensitivity than conventional products.

Customized design for conveying and rejection of bottled products to achieve seamless docking and rejection of bottled products.

Electrical

Air

International 220-240VAC/1PH/60HZ

0.5-0.6 Mpa

\*All other electrical specification available on request at additional cost



Touch Screen Option



Model/SR		1220	1525	2035	2545
Detector Width (mm)		120	150	200	250
Detector Height (mm)		200	250	350	450
Effective detecting size W*H (mm)		100*170	120*200	170*300	220*400
Sensitivity with air test	Fe	0.6	0.8	1	1.2
	Non fe	0.8	1.2	1.5	1.8
	SUS304	1.2	1.5	2	2.3
Parameter Setting		By intelligent product auto-learning			
Belt Width (mm)		90	120	170	220
Belt Length (mm)		1200	1200	1500	1500
Max weight on belt(Kg)		5	10	15	25
Belt Height (mm)		720-820/780-900 or customized			
Rejection Option		Air Jet, Pusher, Flipper, Flap down			

# Free Fall Metal Detector

Metal detection against fast speed falling objects with fast speed algorithm and fast speed German Festo parts. Minimized metal free zone provides minimized install space.



Electrical  
International 220-240VAC/1PH/60HZ

Air  
0.5-0.6 Mpa

*\* All other electrical specification available on request at additional cost*

Model/SV		50	100	140	200	250
Pipe Diameter		50	100	140	200	250
Sensitivity	Fe	0.4	0.6	0.9	1	1.5
	Non Fe	0.7	0.8	1.2	1.5	2
	SUS 304	1	1.2	1.5	2	2.5
Parameter setting		By intelligent product auto-learning				
Height of installation		350	400	460	600	650
Rejection Option		Relay Note Output				
Power Supply		AC 100-240V Signal phase, 50/60HZ adaptive				

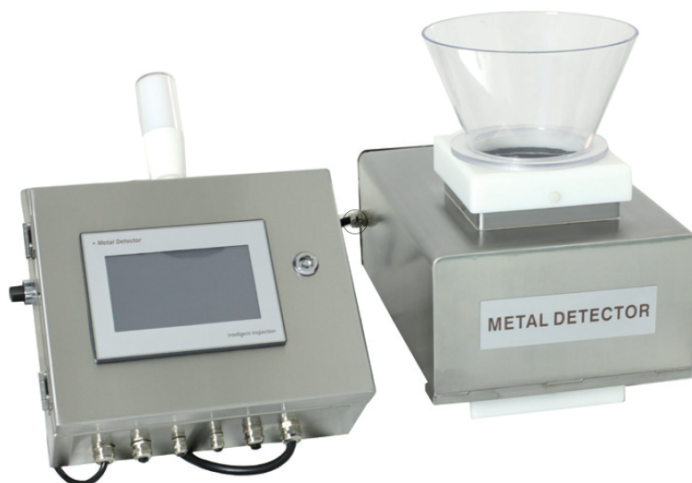
# Throat Type Metal Detector

Minimized metal free zone saves the installation space

Designed for integrate vertical packaging equipment to inspect the free-falling products.

It can be customized to easily to integrate the packaging equipment underneath.

It includes relay node output signal for center control by the packaging equipment underneath.



## Electrical

International 220-240VAC/1PH/60HZ

## Air

0.5-0.6 Mpa

\*All other electrical specification available on request at additional cost

Model/SV		50	100	140	200	250
Pipe Diameter		50	100	140	200	250
Sensitivity	Fe	0.4	0.6	0.9	1	1.5
	Non Fe	0.7	0.8	1.2	1.5	2
	SUS 304	1	1.2	1.5	2	2.5
Parameter setting		By intelligent product auto-learning				
Height of installation		350	400	460	600	650
Rejection Option		Relay Note Output				
Power Supply		AC 100-240V Signal phase, 50/60HZ adaptive				

# Pipeline Type Metal Detector

Can be applied for pump-transfer production like meat ans sauce.

Be able to work with Handtmann, Vemag sausage filler.

Height adjustable and multi-options of rejection modes including CIP cleaning



Touch Screen Option



Electrical

International 220-240VAC/1PH/60HZ

Air

0.5-0.6 Mpa

\*All other electrical specification available on request at additional cost

Model/SL		1	2	3	4
Pipe Diameter		1	2	3	4
Sensitivity	Fe	0.4	0.6	0.8	1
	Non Fe	0.7	1	1	1.5
	SUS 304	1	1.2	1.5	2
Parameter setting		By intelligent product auto-learning			
Length of installation(mm)		900	900	1000	1000
Rejection Option		Ball Valve			

More information, please refer to our website: <https://amberteks.en.alibaba.com>

# Capsule Metal Detector

The traceability of records and IQ/OQ/PQ certificate, meet the pharmaceutical requirement and GMP certification.

Auto parameter setting by intelligent product learning.

Japanese Shindengen rejection system, no need the compressed air.



Touch Screen Option



## Electrical

International 220-240VAC/1PH/60HZ

\*All other electrical specification available on request at additional cost

Model/SP		P7020	P10030
Detector width		70	100
Detector Height		20	30
Sensitivity	Fe	0.25	0.3
	Non Fe	0.35	0.4
	SUS 304	0.45	0.5
Parameter setting		By intelligent product auto-learning	
Throughput(PC/HOUR)		300,000	500,000
Length of installation(mm)		550-1200	
Rejection Option		Rapid Flap	

## Rubber and Plastic Metal Detector

Unique anti-jamming design is suitable for the industrial field.  
 Auto parameter setting by intelligent product learning.  
 Rich product types to choose, from coaxial coil to separate coil.



Electrical

International 220-240VAC/1PH/60HZ

Air

0.5-0.6 Mpa

\*All other electrical specification available on request at additional cost

Model/DR	6040	6050	8040	8050	12050	12060	
Detector Width	600	600	1000	1000	1400	1400	
Detector Height	400	500	400	500	500	600	
Effective Detecting Size	600*350	600*450	800*350	800*450	1200*450	1200*550	
W*H (mm)							
Sensitivity	Fe	4	5	4	5	4	6
	Non Fe	5	6	5	6	5	8
	SUS 304	6	8	6	8	6	9
Parameter setting	By intelligent product auto-learning						
Rejection Option	Relay Node Output						



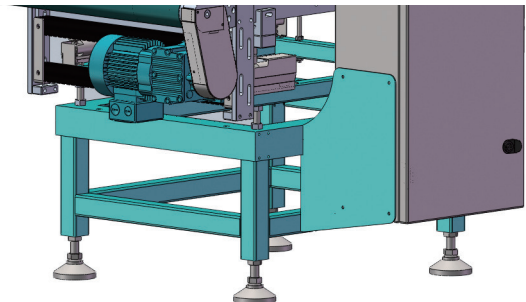
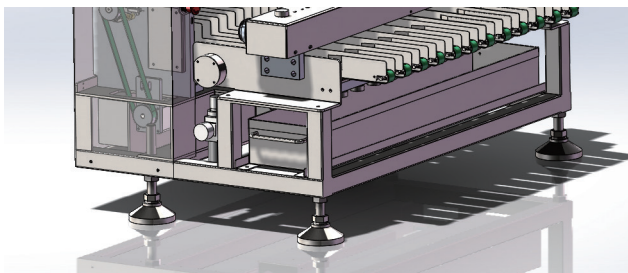
# Introduction of Checkweigher

## Hardware Features

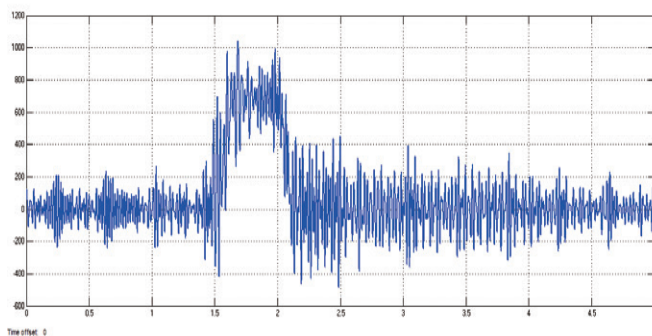
- German HBM high speed load cell
- Danish Danfoss frequency converter
- Swiss Habbsit conveyor belt
- French Schneider electric parts
- Japanese Oriental or German SEW motor
- Smc or Festo pneumatic parts

## Electric and Software Features

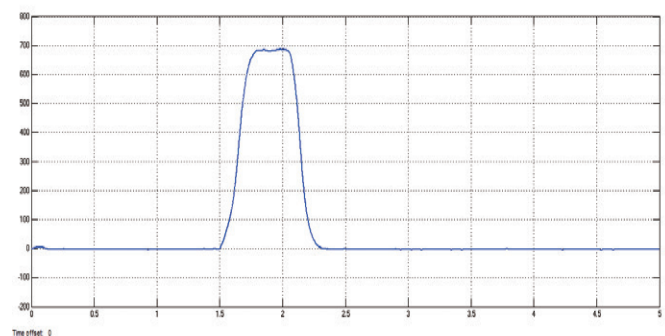
- Excellent performance electronic circuits composition by FPGA LSI, low noise amplification, 24bit ADC, data lossless storage technology.
- Easy operation by automatic parameter setting and intelligent product sampling.
- Excellent interference proof by FPGA hardware filter with intelligent algorithms.
- Better stability by ultra-fast dynamic weight tracking and automatic compensation.



## Algorithm



Original data



After the algorithm

# AT Series Checkweigher



The fast speed and excellent precision models with a dynamic accuracy of up to  $\pm 0.1g$  and a weighing speed of up to 300 times per minute.

Option of the belt width is 150/220/300/360mm, and the range is 200g, 1kg, 4kg. With 232 weight feedback and pulse feedback, it supports label printing and filling screw adjustment.

Electrical

International 220-240VAC/1PH/60HZ

\*All other electrical specification available on request at additional cost

Air

0.5-0.6 Mpa

Model/AW	150(220)-D20	220(300)-D28	300(360)D-32
Weighing Range(g)	2-1000	2-1000	2-3000
Minimum Scale	0.1	0.1	0.1
Best Accuracy (g)	+/-0.1	+/-0.2	+/-0.3
Max Throughout (PCS/MIN)	300	200	150
Parameter Setting	By intelligent product auto-learning		
Weigh-belt Width (mm)	150(220)	220(300)	220(300)
Weigh-belt Length (mm)	250/350/450	350/450/550	350/450/550
Weigh-belt Height (mm)	700-820/780-900 or custom		
Alarm Mode	Aural and visual		
Rejection Option	Air jet, Flipper, Flap Down, Drop Belt		

## SK Series Checkweigher

The fast speed and excellent precision models with dynamic accuracy up to  $\pm 0.1g$  and weighing speed up to 250 times per minute.

Option of the belt width is 150/220/300/360/450mm, and the range is 200/1kg/4kg/10kg.

With 232 weight feedback and pulse feedback, it supports label printing and filling screw adjustment.



Electrical

International 220-240VAC/1PH/60HZ

Air

0.5-0.6 Mpa

\*All other electrical specification available on request at additional cost

Model/AW	150(220)-D20	220(300)-D28	300(360)D-32	300(360)D-32
Weighing Range(g)	2-1000	2-1000	2-3000	3-100000
Minimum Scale	0.1	0.1	0.1	1
Best Accuracy (g)	+/-0.1	+/-0.3	+/-0.5	+/-5
Max Throughout (PCS/MIN)	200	150	100	50
Parameter Setting	By intelligent product auto-learning			
Weigh-belt Width (mm)	150(220)	220(300)	220(300)	300(450)
Weigh-belt Length (mm)	250/350/450	350/450/550	350/450/550	550/700
Weigh-belt Height (mm)	700-820/780-900 or custom			
Alarm Mode	Aural and visual			
Rejection Option	Air jet, Flipper, Flap Down, Drop Belt			

# Heavy Duty Checkweigher

Suitable for weighing products with large size packaging, high accuracy. The fast belt speed is 2 m/s.

Option of the belt width is 500/600/700mm, and the weighing range is 35/50/100/200kg, etc.

With 232 weight feedback and pulse feedback, it supports label printing and filling screw adjustment.



Electrical

International 220-240VAC/1PH/60HZ

\*All other electrical specification available on request at additional cost

Air

0.5-0.6 Mpa

Model/SW	500-D76	600-D76	700-D76
Weighing Range(Kg)	0.01-35	0.01-100	0.01-100
Minimum Scale(Kg)	0.001	0.001	0.001
Best Accuracy (g)	+/-5	+/-10	+/-10
Max Throughout (PCS/MIN)	60	40	40
Parameter Setting	By intelligent product auto-learning		
Weigh-belt Width (mm)	500	600	700
Weigh-belt Length (mm)	600/800	1200	1200
Weigh-belt Height (mm)	700-820/780-900 or custom		
Alarm Mode	Aural and visual		
Rejection Option	Flap Down, Drop Belt		

# Multi-stage Sorting Checkweigher

With fast sorting speed, it is available in single and double row models. with IP67 waterproof model, it supports various sorting methods. Option of the belt width is 150/220/300mm, and the sorting stage is supported to 12, and the range is 200g/1kg/2kg/5kg etc.



Electrical International 220-240VAC/1PH/60HZ      Air 0.5-0.6 Mpa

\*All other electrical specification available on request at additional cost

Model/SW	MS150	MS220	MS300
Weighing Range(g)	10-200	10-2000	10-5000
Minimum Scale(g)	0.1	0.1	1
Best Accuracy (g)	0.2	0.5	1
Max Throughout (PCS/MIN)	150	120	60
Parameter Setting	By intelligent product auto-learning		
Weigh-belt Width (mm)	150	220	300
Weigh-belt Length (mm)	250/300	350/450	450/550
Weigh-belt Height (mm)	700-820/780-900 or custom		
Alarm Mode	Aural and visual		
Rejection Option	Flap Down, Flipper, Drop Belt		

# Single Platform Checkweigher



Easy operation with touch screen HMI.

Deployed right at the output of VFFS without conveyor in between perfect for simple and short packaging.

Reject the NG product by motor.

Dual weighing modes that can identify and reject empty bags.

Electrical

International 220-240VAC/1PH/60HZ

\*All other electrical specification available on request at additional cost

Model/CW	200	280
Weighing Range(g)	2-200	3-1000
Minimum Scale(g)	0.01	0.1
Best Accuracy (g)	+/-0.1	+/-0.3
Max Throughout (PCS/MIN)	50	25
Parameter Setting	By intelligent product auto-learning	
Weigh-belt Width (mm)	200	280
Weigh-belt Length (mm)	300	450
Weigh-belt Height (mm)	150-300	150-300
Alarm Mode	Aural and visual	
Rejection Option	Belt reverse	

## Multi-lane Checkweigher

Special design, the distance of product center and module are completely consistent, no need to adjust material during weighing input.

These models are capable of excellent precision weighing with dynamic accuracy up to  $\pm 20\text{mg}$ .

With 232 weight feedback and pulse feedback. There are 2,4,6,8,10,12 lanes available.



### Electrical

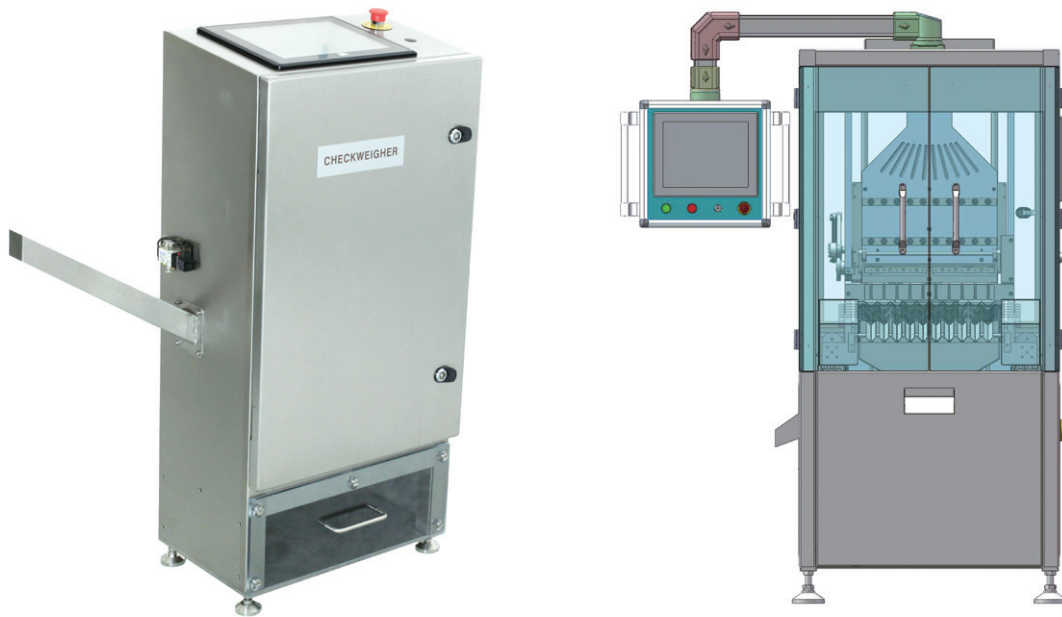
International 220-240VAC/1PH/60HZ

\*All other electrical specification available on request at additional cost

Model/SW	B30-L	B50-L	B100-L
Lane number	2-12	2-12	2-12
Weighing Range(g)	0.5-100	0.5-200	0.5-200
Minimum Scale(g)	0.01	0.01	0.01
Best Accuracy (g)	+/-0.02	+/-0.05	+/-0.05
Max Throughout (PCS/MIN)	70	150	150
Parameter Setting	By intelligent product auto-learning		
Weigh-belt Width (mm)	30	60	100
Weigh-belt Length (mm)	—	200/250/300	250/300
Weigh-belt Height (mm)	350-450	350-900 or custom	
Alarm Mode	Aural and visual		
Rejection Option	Flap Down, Flipper, Belt up		

# Capsule Checkweigher

These models are capable of high-precision weighing with special Electromagnetic weight sensor, dynamic accuracy of up to  $\pm 0.5\text{mg}$ . With 232 weight feedback and relay node output. Option of 1column, 10/20/30 columns.



## Electrical

International 220-240VAC/1PH/60HZ

\*All other electrical specification available on request at additional cost

Model/SW	1P	10P	20P	30P
Lane number	1	10	20	30
Weighing Range(g)	3-3000	3-3000	3-3000	3-3000
Minimum Scale(g)	0.1	0.1	0.1	0.1
Best Accuracy (g)	+/-0.5	+/-0.5	+/-0.5	+/-0.5
Max Throughout (PCS/MIN)	2000	75000	150000	225000
Parameter Setting	By intelligent product auto-learning			
Height of installation (mm)	500+/-50 05 custom			
Alarm Mode	Aural and visual			
Rejection Option	Flap Down			



# Light Duty Combo Metal Detector & Checkweigher

The major parts of combo are from global famous supplies. Hard-filling metal detector head and excellent performance checkweigher are supported with auto settings via intelligent algorithms to achieve excellent accuracy and easy operation.

The metal detector and checkweigher parameters configured in the same product parameterization, and operate in the same interface, reducing the incidence of erroneous operation with a unified intelligent learning algorithm and parameter settings to achieve the metal detector and checkweigher in one machine only.



## Electrical

International 220-240VAC/1PH/60HZ

\*All other electrical specification available on request at additional cost

Model/CB	150(200)-D28	220(300)-D28	300(360)-D32
Weighing Range(g)	2-200	2-1000	5-4000
Minimum Scale(g)	0.01	0.1	1
Best Accuracy (g)	+/-0.15	+/-0.3	+/-0.5
Max Throughout (PCS/MIN)	250	150	100
Sensitivity with air test	Subject to the model of metal detector		
Parameter Setting	By intelligent product auto-learning		
Weigh-belt Width (mm)	150	220	360
Weigh-belt Length (mm)	200/250/300	350/450/550	450/550/700
Weigh-belt Height (mm)	700-820/780-900 or custom		
Alarm Mode	Aural and visual		
Rejection Option	Air jet, Pusher, Flipper, Flap down, Drop belt		

# Heavy Duty Combo Metal Detector & Checkweigher

The major parts of combo are all world -known brands. Hard-filling metal detector head and excellent performance checkweigher are supported with auto settings via intelligent algorithms to achieve excellent accuracy and easy operation.

The metal detector and checkweigher parameters configured in the same product parameterization, and operate in the same interface, reducing the incidence of erroneous operation with a unified intelligent learning algorithm and parameter settings to achieve the metal detector and checkweigher in one machine only.



## Electrical

International 220-240VAC/1PH/60HZ

\*All other electrical specification available on request at additional cost

Model/CB	360	5	600
Weighing Range(Kg)	0.05-10	0.05-50	0.05-100
Minimum Scale(g)	1	1	1
Best Accuracy (g)	+/-5	+/-10	+/-10
Max Throughout (PCS/MIN)	80	60	40
Sensitivity with air test	Subject to the model of metal detector		
Parameter Setting	By intelligent product auto-learning		
Weigh-belt Width (mm)	380	500	600
Weigh-belt Length (mm)	600/800	600/800/1300	1300
Weigh-belt Height (mm)	500-900 or custom		
Alarm Mode	Aural and visual		
Rejection Option	Pusher, Flipper, Flap down, Drop belt		

## Combo with Mix brand Metal Detector

Amberteks is experienced in cross-brand integration, the checkweigher platform with global famous metal detectors and successfully maintain the original metal detector performance in actual applications.

Option of European and US standard output safety protection, conveying capacity, rejection modes.



## Conveyor of Mix brand Metal Detector

With the rich experience in cross brand integration, we also supplies conveyors of the global famous metal detectors and maintain the same metal detection performance.

Option of European and US standard output safety protection, conveying capacity, rejection modes.



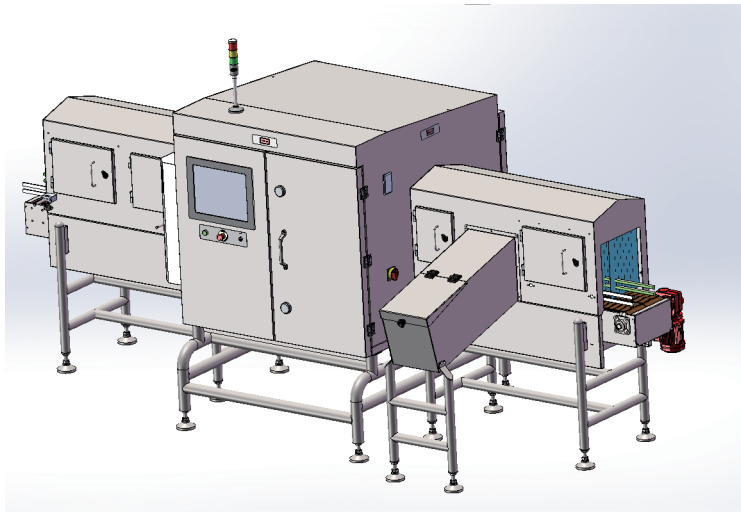
# Introduction of X - ray Inspection System

## Hardware Features

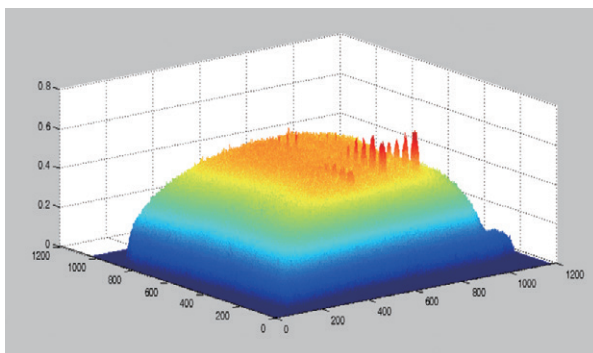
- US VJ X-ray source
- Finnish DeeTee X-ray receiver
- Danish Danfoss converter
- German Pfannebe industrial air conditioner - French Schneider electric unit
- US Interroll electric roller conveying system - Advantech industrial computer and
- IEL touch screen

## Electronic and Software Features

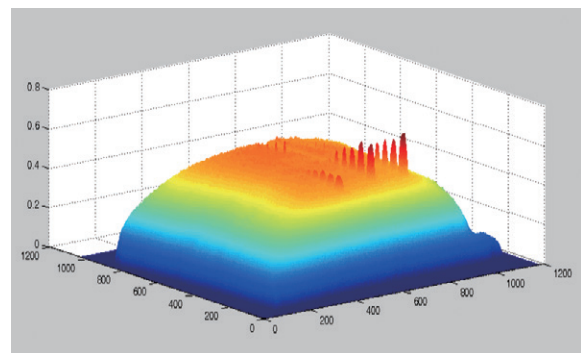
- Excellent hardware stability based on industrial PC and PLC architecture.
- Automatic parameter setting by intelligent automatic product learning function.
- Multiple image recognition algorithms improve detection stability.
- AI intelligent foreign object software recognition, Improve image recognition sensitivity



## Software algorithm



Original data



After the algorithm

# X-ray Inspection System

- Base on AI intelligent foreign object software recognition algorithm, with excellent software self-learning function and detection accuracy.
- It's capable in detection of foreign objects such as metal, glass, stone, bone, high-density rubber and plastic.
- High stability conveyor that can easily connect to customer's existing production line.
- There are various models to choose from, such as bulk material, defect detection, etc., which can divide the detection area in multiple channels and rejector them separately, improve the removal efficiency and reduce the production cost.



Model/SX		3012	4016	4020	5020	6030	6035
Detector Width (mm)		300	400	400	500	600	600
Detector Height (mm)		120	160	200	200	300	350
Sensitivity with air test	SUS Ball	0.3	0.3	0.4	0.4	0.4	0.4
	SUS Wire	0.2*2	0.2*2	0.3*2	0.3*2	0.3*2	0.3*2
	Ceramic& Glass	1	1	1	1	1	1
Parameter Setting		By intelligent product auto-learning					
Conveyor Width (mm)		300	400	4000	500	600	600
Conveyor Lenght (mm)		1280	1280	1600	1600	2000	2000
Max weight on belt(Kg)		15	25	25	50	100	100
Belt Height (mm)		800 +/-50, or custom					

# Side beam X-ray Inspection System (one/two/three Xray sources)



- Designed for big buckets and tins, especially against bottoms of bottles and tins.
- Minimized non-detection zone dual optic angle illumination by multi light source imaging system.
- Maximinzed inspection sensitivity by Intelligent auto partition.
- Except foreign objects, filling level, breakage and missing lids also can be detected.
- High stability conveyor that can easily connect to customer's existing production line.

Model/SX		1625-S	1625-D	1625-T
Number of X-ray source		1	2	3
Detector Width (mm)		160	160	160
Detector Height (mm)		250	250	250
Sensitivity with air test	SUS Ball	0.5	0.5	0.5
	SUS Wire	0.3*2	0.3*2	0.3*2
	Ceramic& Glass	1.5	1.5	1.5
Parameter Setting		By intelligent product auto-learning		
Conveyor Width (mm)		150	150	150
Conveyor Lenght (mm)		3300	4000	4000
Max weight on belt(Kg)		50	50	50
Belt Height (mm)		800 +/-50, or custom		

# Electrostatic Hair Sorting Machine

- Separation of foreign matter such as hair, fibers, paper scraps, fine particles in bulk materials, such as dried fruits, seaweed, edible fungi, tea, medicinal materials, etc.
- Customized models can separate sticky hair debris, oily or sugary on the surface of the material.
- Stainless steel frame and conveying device, optional integrated high-strength magnetic rod iron remover.

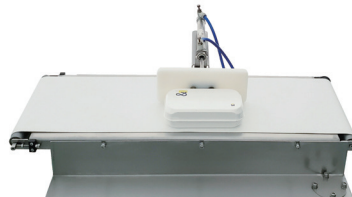


## Rejection

1. Air Jet



2. Pusher



3. Single Flipper



4. Flap Down



5. Double Flipper



6. Drop Belt



7. Belt Retractable



8. Pusher with Roller



9. Side Flap Belt



- *Aluminum Foil Metal Detector*
- *Metal Detector*
- *Checkweigher*
- *Combo Metal Detector with Checkweigher*
- *Capsule Checkweigher*
- *X-ray Inspection System*
- *Electrostatic Hair Sorting Machine*

