Free Fall Metal Separator Solution



Increase productivity

Improve product quality

Reduce manufacturing cost

Flexible customization

Dongguan Coso Electronic Tech Co., Ltd.

Free fall metal separator is designed to remove metal impurity from products. It's widely used in plastic, pharmaceutical, food, chemical and other industries. It's able to quickly detect and automatically separate iron, copper, aluminum, stainless steel and other metal impurities from materials. It’s suitable for particle, granular, flake and powder products. It can be connected with extruder, injection molding machine, etc.

1.PEC2005A Metal Separator







PEC2005A metal separator adopts German technology, and it has high sensitivity and reliability; it is used to separate magnetic and non-magnetic metals from free fall bulk materials and ensure product quality;Integrated metal foreign body rapid elimination system, it’s suitable for testing bulk products.

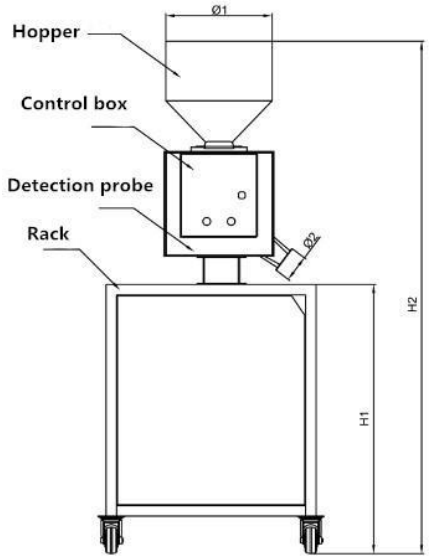
Application

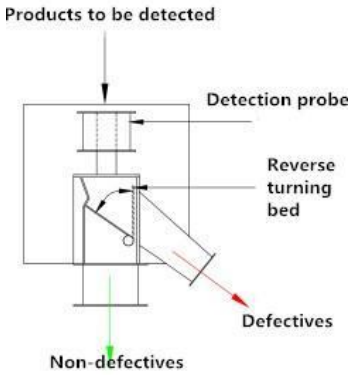
It applies to plastic, pharmaceutical, food, chemical, electronic, electrical and other industries of raw materials, degraded materials, reclaimed materials for metal detection and separation.It is able to quickly detect and automatically separate iron, copper, aluminum, stainless steel and other metal impurities from materials.It can also be installed on injection molding machine, extruder and other equipment

Product features

1.Included detection coil and separation device, controller and host can not be separated, it’s easy to install and operate.
2.Through the elimination system to eliminate quickly, it can reduce the loss of materials and does not interfere with the normal production process.
3.A variety of apertures can be chosen, which can meet all practical applications,including product specification,requests of sensitivity,working flow.
4.Detected material characteristics:Bulk material, dry, good flowability, powder, particle.
5.Quick connector and air tight flange can be chosen to achieve quick installation and disassembly
6.It’s compact and easy to install and integrate into existing pipelines conveniently.

Product structure





Specification

Model	Inner Diameter（Φmm）	Sensitivity		Air Compression	Max Throughput(L/h)	Material temperature	Defectives eliminated time
		FeΦ	SUSΦ				
PEC2005A-30	20	0.3mm	0.8mm	3～5Bar	300	< 80℃	0.3～5s
PEC2005A-50	40	0.5mm	1.0mm	3～5Bar	2000	< 80℃	0.3～5s
PEC2005A-70	60	0.8mm	1.2mm	3～5Bar	5000	< 80℃	0.3～5s
PEC2005A-100	80	1.0mm	1.5mm	3～5Bar	12000	< 80℃	0.3～5s
PEC2005A-120	100	1.2mm	2.0mm	3～5Bar	16000	< 80℃	0.3～5s
PEC2005A-150	130	2.0mm	3.0mm	3～5Bar	25000	< 80℃	0.3～5s
PEC2005A-170	150	2.5mm	3.5mm	3～5Bar	44000	< 80℃	0.3～5s

Notes

1.The sensitivity in the table is the test block falling freely through the detection of the pipeline,the actual detection sensitivity may be different according the characteristics of the product or the working environment,it should be based on the actual detection sensitivity.

2. The above list is only part of the common technical parameters,for more technical parameters, please contact our customer service staff.

3. The company's products will continue to upgrade,if the above technical parameters are changed without notice, please refer to the latest parameters.

2.PEC2005B LCD Screen Metal Separator





PEC2005B economical metal separator adopts German technology.It has high sensitivity and reliability; it is used to separate magnetic and non-magnetic metals from free fall bulk materials and ensure product quality;Integrated metal foreign body rapid elimination system, it's suitable for testing bulk products.

Application

It applies to plastic particles,degraded materials,reclaimed materials for metal detection and separation.It is able to quickly detect and automatically separate iron, copper,aluminum,stainless steel and other metal impurities from materials.It can also be installed in the injection molding machine,extruder and other equipment.

Product features

1.A variety of apertures can be chosen, which can meet all practical applications,including product specification,requests of sensitivity,working flow.
2.Detected material characteristics:Bulk material, dry, good flowability, powder, particle .
3.Quick connector and air tight flange can be chosen to achieve quick installation and disassembly.
4. It's compact and easy to install and integrate into existing pipelines.
5. It can also work with the injection molding machine, extruder and other equipment.

Specification

Model	Inner Diameter（Φmm）	Sensitivity		Air Compression	Max Throughput(L/h)	Material temperature	Defectives eliminated time
		FeΦ	SUSΦ				
PEC2005B-30	20	0.2mm	0.5mm	3～5Bar	300	< 80℃	0.3～5s
PEC2005B-50	40	0.3mm	0.5mm	3～5Bar	2000	< 80℃	0.3～5s
PEC2005B-70	60	0.6mm	1.0mm	3～5Bar	5000	< 80℃	0.3～5s
PEC2005B-100	80	0.8mm	1.2mm	3～5Bar	12000	< 80℃	0.3～5s
PEC2005B-120	100	1.0mm	1.5mm	3～5Bar	16000	< 80℃	0.3～5s
PEC2005B-150	130	1.5mm	2.5mm	3～5Bar	25000	< 80℃	0.3～5s
PEC2005B-170	150	2.0mm	3.0mm	3～5Bar	44000	< 80℃	0.3～5s

Notes

1.The sensitivity in the table is the test block falling freely through the detection of the pipeline,the actual detection sensitivity may be different according the characteristics of the product or the working environment,it should be based on the actual detection sensitivity.

3. The above list is only part of the common technical parameters,for more technical parameters, please contact our customer service staff.

3. The company's products will continue to upgrade,if the above technical parameters are changed without notice, please refer to the latest parameters.

3.Metal Separator for Powder Material



Adopts special rejection system for powder material

4.Metal Separator for Flake Material



Adopts special rejection system for flake material

5.Metal Separator for Material with Poor flowability





It adopts vibration feeder. When products has poor flowability , a vibrating feeder can control material flow speed to prevent materials from clogging the pipe.

6.PEC2005F Automatic Feeding Metal Separator





Automatic feeding metal separator (can be equipped with a variety of vibration feeding machine and vacuum suction machine)is used to detect and separate all the metals in plastic material, including iron and non-ferrous metals (such as copper, aluminum, stainless steel) and so on.In the process of recycling the old material, there will be some metal impurities mixed in it and enter production. As a result, it will cause accident and increase downtime so that increase costs and affect production efficiency. This equipment can save the labor cost of manual feeding, and is suitable for the customers with large material requirement. It has the advantages of durable, large suction force, long service life, etc. And it can realize automatic feeding.

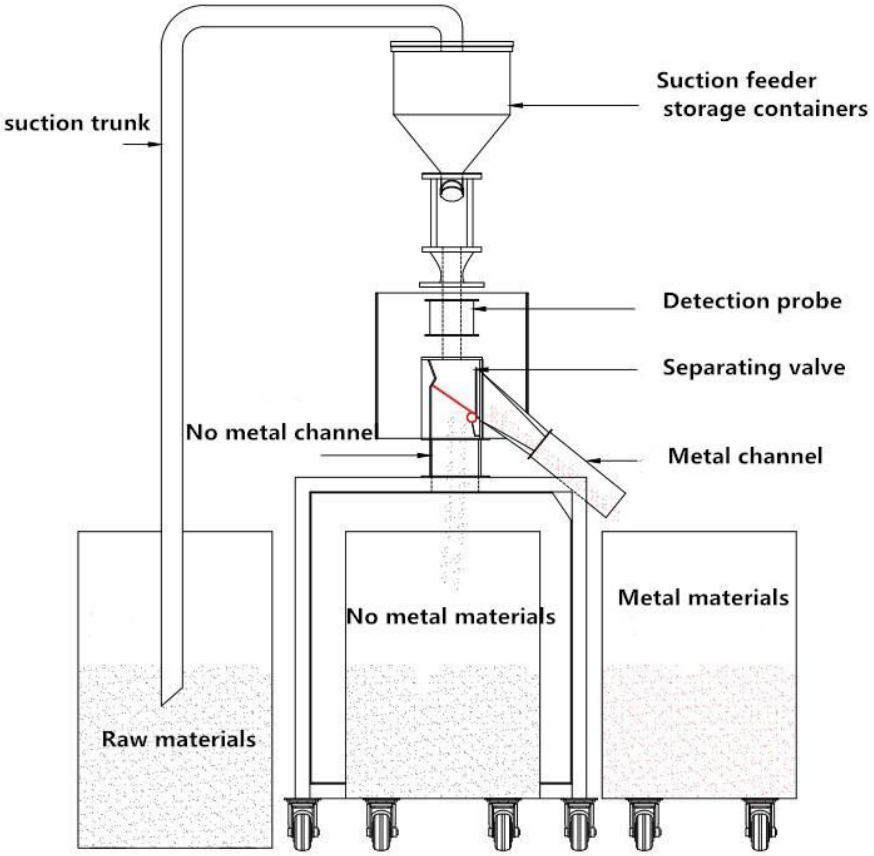
Application

Separating all metal impurities mixed in raw materials or recycled materials, including iron and non-ferrous metals such as copper, aluminum, stainless steel and so on.

Product features

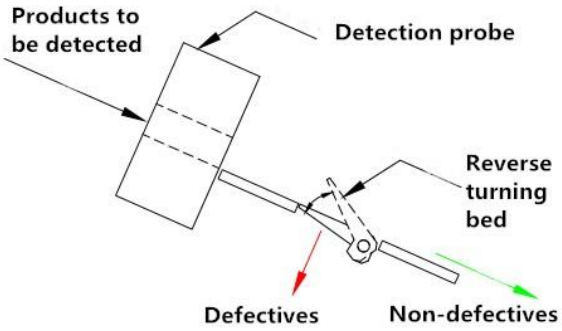
1.Using automatic feeding metal separator combination can save labor cost of manual feeding, it can be equipped with different types of suction machine, according to the requirements of the customer's material quantity and the parameters of the metal separator, it can achieve automatic feeding .
2.This combination machine has the advantages of portability, durability, strong suction force, convenient installation and easy operation;
3.The rapid elimination of system can reduce the loss of material, and will not interfere with the normal production process.
4.A variety of apertures can be chosen, which can meet all practical applications.
5.Detected material characteristics:Bulk material, dry, good flowability, powder, particle.

Structure


suction trunk
Suction feeder
storage containers
Detection probe
Separating valve
No metal channe
Metal channel
No metal materials
Metal materials
Raw materials

7.PEC2005G2 Pharmaceutical Metal Separator (LCD Screen)

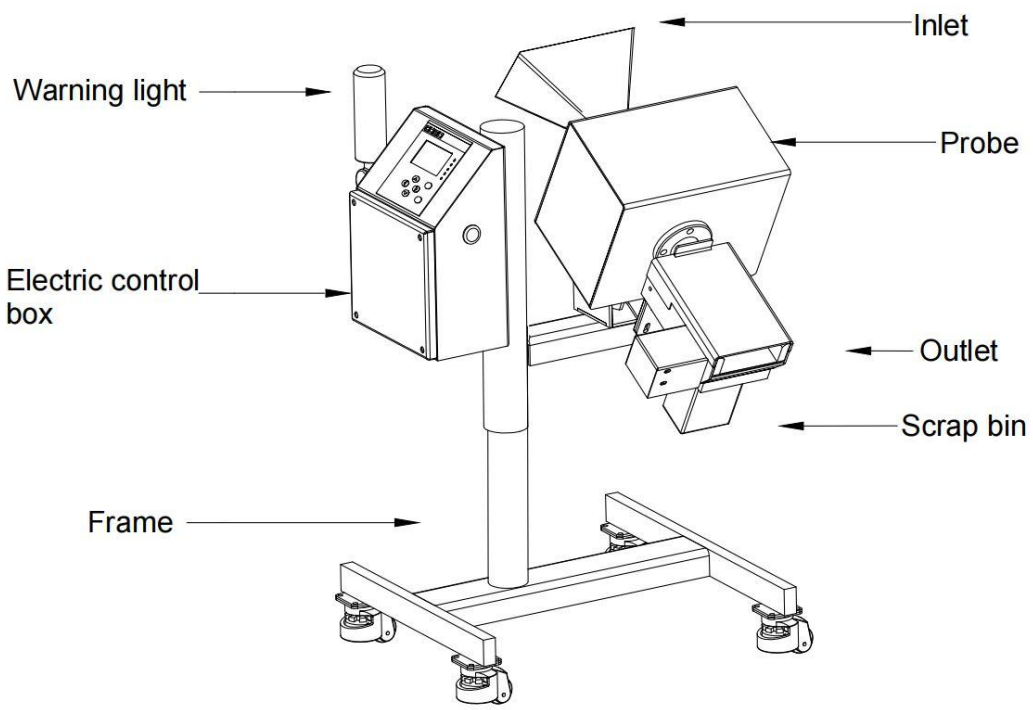




Application
It is applicable to the pharmaceutical industry, such as pills, tablets, capsules etc.

Product features
1. Processing speed can reach about 15000 pellets per minute.
2. It can handle a variety of categories of drugs, in order to save space, it take a more compact frame design.
3.The food grade PVC material is used in the automatic sorting device.
4. Equipped with product parameter memory function, it can store detection parameters for 100 kinds products.
5.The sensitivity can be adjusted according to the characteristics of the product, and the number of detection and elimination can be recorded in real time; Manual clear record.
6. All stainless steel structure, waterproof, anti vibration, strong adaptability to the environment and temperature changes, easy to clean.
7. Modular component replacement, it's easy to maintain.
8. Permission settings, which can set independent passwords for administrators and operators separately.
9. Multi language function selection (Chinese, English, Korean, Japanese, etc., other languages can be customized according to demand).

Structure



Specification

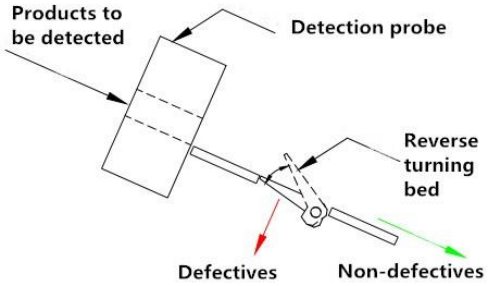
Appellation	Parameter
Adjustable angle	30˚ ~ 40˚
Input port size	150mm * 100mm
Inner Pipe diameter	Φ40mm
Sensitivity (without product)	FeΦ：0.3mm
	SUSΦ：0.5mm
Frame Material	SUS 304

Notes

1.The sensitivity in the table is the test block falling freely through the detection of the pipeline,the actual detection sensitivity may be different according the characteristics of the product or the working environment,it should be based on the actual detection sensitivity.

8.PEC2005G4 Pharmaceutical Metal Separator (Touch Screen)

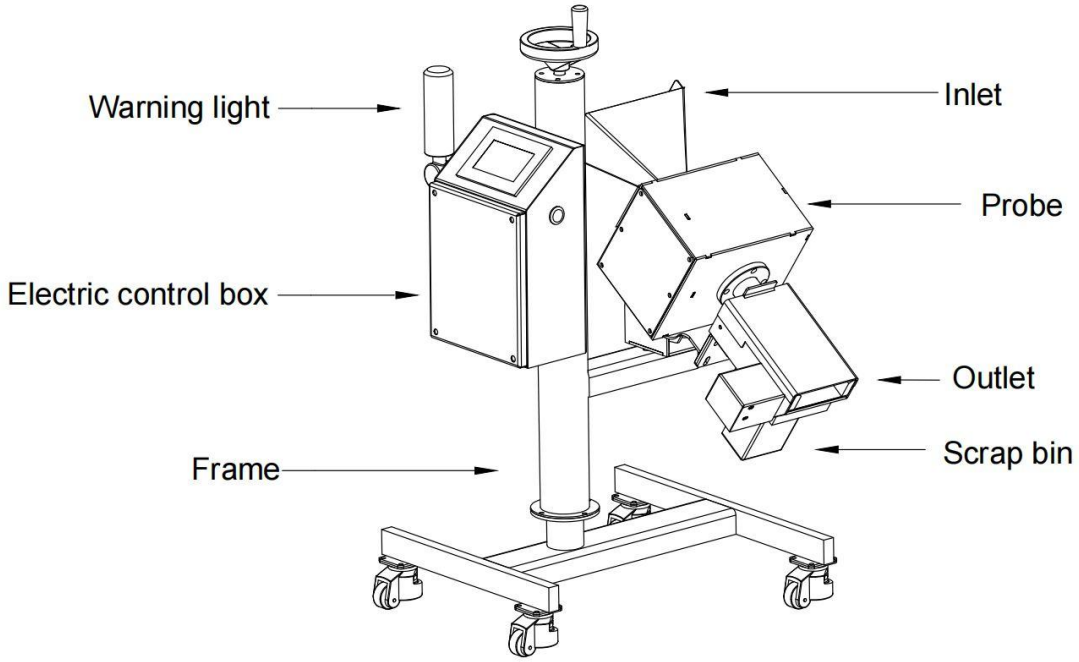




Application
It is applicable to the pharmaceutical industry, such as pills, tablets, capsules etc.

Product features
2. Processing speed can reach about 15000 pellets per minute.
2. It can handle a variety of categories of drugs, in order to save space, it take a more compact frame design.
3.The food grade PVC material is used in the automatic sorting device.
4. Equipped with product parameter memory function, it can store detection parameters for 100 kinds products.
5.The sensitivity can be adjusted according to the characteristics of the product, and the number of detection and elimination can be recorded in real time; Manual clear record.
6. All stainless steel structure, waterproof, anti vibration, strong adaptability to the environment and temperature changes, easy to clean.
7. Modular component replacement, it’s easy to maintain.
8. Permission settings, which can set independent passwords for administrators and operators separately.
9. Multi language function selection (Chinese, English, Korean, Japanese, etc., other languages can be customized according to demand).

Structure



Specification

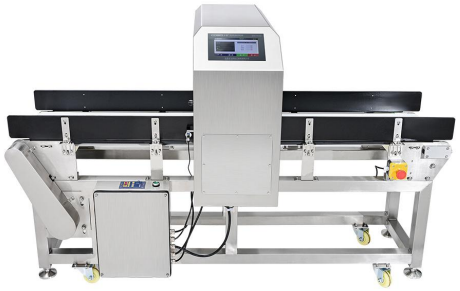
Appellation	Parameter
Adjustable angle	30˚ ~ 40˚
Input port size	150mm * 100mm
Inner Pipe diameter	Φ40mm
Sensitivity (without product)	FeΦ：0.2mm
	SUSΦ：0.4mm
Frame Material	SUS 304

Notes

1.The sensitivity in the table is the test block falling freely through the detection of the pipeline,the actual detection sensitivity may be different according the characteristics of the product or the working environment,it should be based on the actual detection sensitivity.

Company Profile

Dongguan Coso Electronic Technology Co.,Ltd, established in 2005, is located in Dongguan city, Guangdong province where manufacturing industry is developed fast and the transportation is very convenient. We specialize in manufacturing professional detection equipment which includes industrial metal detector, metal separator, dynamic checkweigher and X-ray inspection system.
We have a lot of experience in international trade and our products have been exported to over 80 countries around the world.
All of our products can be customized and we always hope to achieve a win-win situation with our clients.



Metal detector



Metal separator



Checkweigher



X-ray inspection system

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