



User Manual of Metal Separator

NEWGOER TEST EQUIPMENT

Your Lab Consultant

NG-70 Metal Separator Machine



Read before Operation

Before operation this machine, please read this manual thoroughly, and keep a copy with the machine for future reference. This manual is to be considered part of your machine.



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1. Brief Introduction

1.1 Applicable Detection Range

It is used to detect all metal impurities such as iron, stainless steel, copper, aluminum in industrial products, such as food, plastic, and pharmaceutical products. It is easy to mix in metal impurities, which not only affects product quality, but also may bring users and consumers To harm.

1.2 Application Notes:

Although this metal separator provides optimized detection and separation functions, depending on the operating conditions and transfer speed, metal particles may not be separated in the following cases.

1. A large amount of metal is contained in the measured material.
2. When the metal signal is too much, the valve has no time to close.
3. The feeding speed is too fast.

In the above situation, our company does not guarantee 100 % separation of metal.

The uniform feeding method can improve the separation of metal impurities.

Passing the measured material through the separator twice or adding magnets on the conveying pipeline can enhance the metal separation.

1.3 Standards

This equipment is manufactured according to the electromagnetic compatibility standard GB / T 17626.5-2008

This equipment is manufactured in accordance with GB 5226.1-2008 and other standards.



2. Technical Parameters

2.1 Performance Parameters

Housing material: Stainless steel plate (Or MG-70K Serious: Paint)

Working voltage: 230V 50Hz

Ambient temperature: -10-45 degrees

2.2 Machine Parameters

Compressed air: 4-8 kg, 6-8 mm hose connection

Air consumption: 0.4 liters per separation action

Separation time: 0.2-2.5 seconds, 0-10 Stepless adjustable detection accuracy

Model	NG-706C
Inside Diameter	Φ35mm
Accuracy	Φ0.3mm
Throughput (KG/H)	300-400
Detect Method	Electromagnetic Wave Detection Technology
Protection Grade	IP65
Discharge Time	0.3-5S
Output Terminal	Count Signals and Eliminate Signals
Voltage	220V/50~60Hz
Optional / Customized Function	
1	NG-80 Install Vibrating Screen (To avoid the machine is blocked by materials)
2	Suction Feeder
3	Above are standard models, other features can be customized

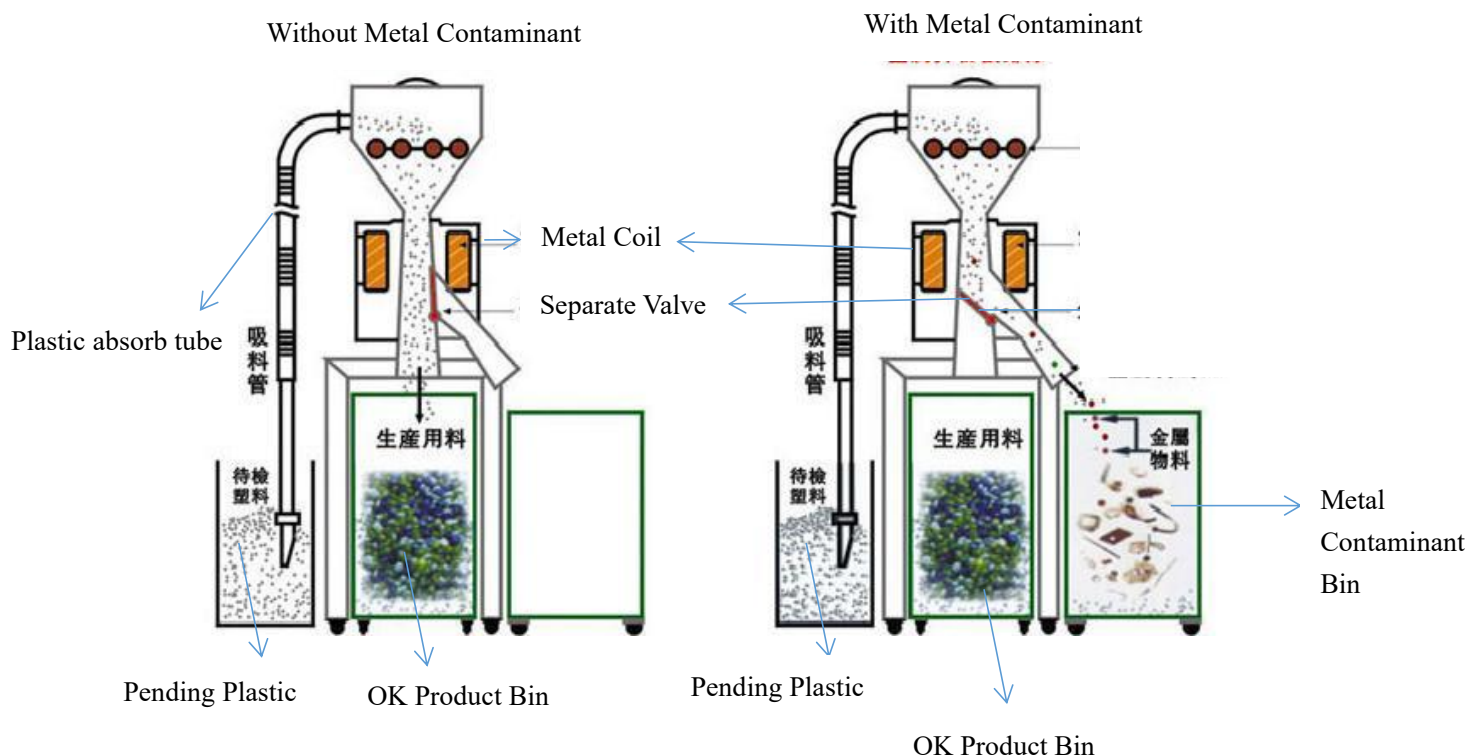
3. Working Principle

3.1 Principle

Composition: The metal separator is composed of two parts: metal detection sensor and rejection device. These two parts are controlled by an electric control box.

Principle: The metal detection sensor generates a high-frequency magnetic field, and the metal substance will interfere with the electromagnetic field, which is detected by the electric control box, and then the electric control box sends a signal to start the pneumatic rejection device.

3.2 Detection Flow Chart



4. Installation

4.1 Mechanical Installation:

Please pay attention to the following items:

1. The free fall height of the tested material should not exceed the range of technical parameters
2. The installation is stable and does not swing. If it is installed in the pipeline, a proper connection should be used to avoid leakage
3. Avoid electromagnetic interference around metal detection probes, such as placing motors or inverters
4. Please install the machine indoors
5. All metal parts must be well grounded to prevent static electricity
6. At least 10cm long extension tube should be connected to the material outlet of the machine to avoid causing injury.

4.2 Power and air supply installation:

1. The ground connection of this machine must be good and effective
2. Good connection between pneumatic valve and metal detection probe
3. The air source is well connected and does not leak.
4. Check that the air pressure is adjusted to 4-6bar
5. Note that the distance from the surrounding equipment should be greater than 50CM

5 Use of Metal Separator

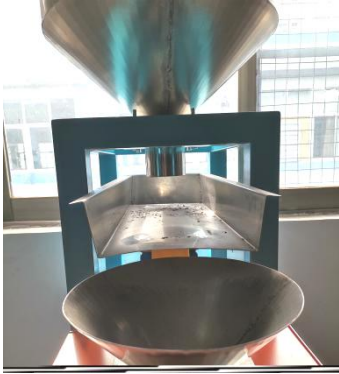


(Figure 3: Sensor function diagram)

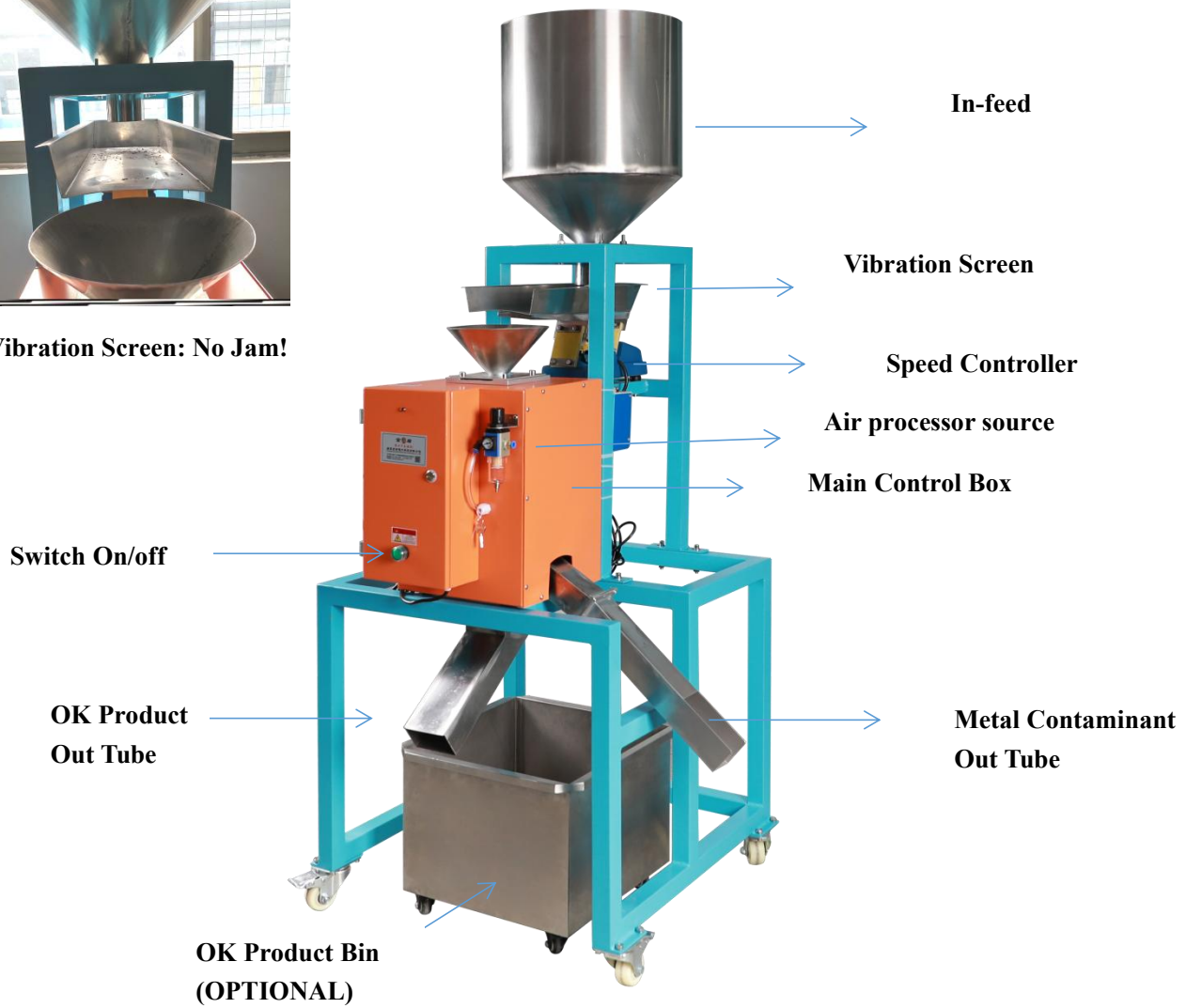
5.1. Sensor Function Introduction

1. Power Indicator
2. Debugging indicator: turn it counterclockwise to turn off the light, then turn it clockwise to turn it on, and then turn it clockwise for two weeks, the sensor reaches the best working condition.
3. Alarm indicator: metal light is detected, but it is off when no metal is detected.
4. Twisting indicator light
5. Sensitivity adjustment knob: adjust clockwise to increase sensitivity, adjust to the machine not to alarm, the cylinder does not malfunction, the detection card can be detected as the best; adjust counterclockwise, the sensitivity is reduced.

METAL SEPARATOR WITH VIBRATION SCREEN (OPTIONAL CONFIGURATION)



Vibration Screen: No Jam!



6. Maintenance

- 1, The instrument must be placed on stable table.
- 2, It is not allowed to move the machine during use
- 3, Select the appropriate supply voltage, not too high to avoid burning;
- 4, When the instrument is abnormal, please contact us for timely processing; Machine must work in ventilation environment
- 5, Cleaning machine, keep the machine clean after complete each test
- 6, Clean with dry cloth, not with a damp cloth.

7. Quality Assurance

I 、The guarantee period is 12 months (consumer goods and travel cost are not included).

II 、 The main quality warranty maintenance certificate

1. Please keep this guarantee letter, if you lost it, please connect with us in a month.
2. If this guarantee letter has been altered or it has no our stamp, it is useless.

III、 The following conditions need to pay reasonably even in the assurance period.

1. Natural reasons
2. Operating mistakes
3. Voltage is not fit for our operation instruction
4. Repack it without our guides
5. Damaged for borrowing to others

6. Damaged for authorized machine modification
7. Damaged for authorized calibration
8. Authorized transshipment mistake
9. Serve for long distance area

IV、 Notes:

1. Where the original in Guangdong province installation of our products, if the product moved to outside Guangdong-area use, whether or not within the effective warranty period, the transportation and travel expenses of the service personnel should be paid by the client.
2. All customers outside of Guangdong province, whether or not in the warranty period, the service of transportation and travel expenses paid by the customer.