

# Horizontal Airflow Sieve

Remove unwanted particles from powder and break up clumps

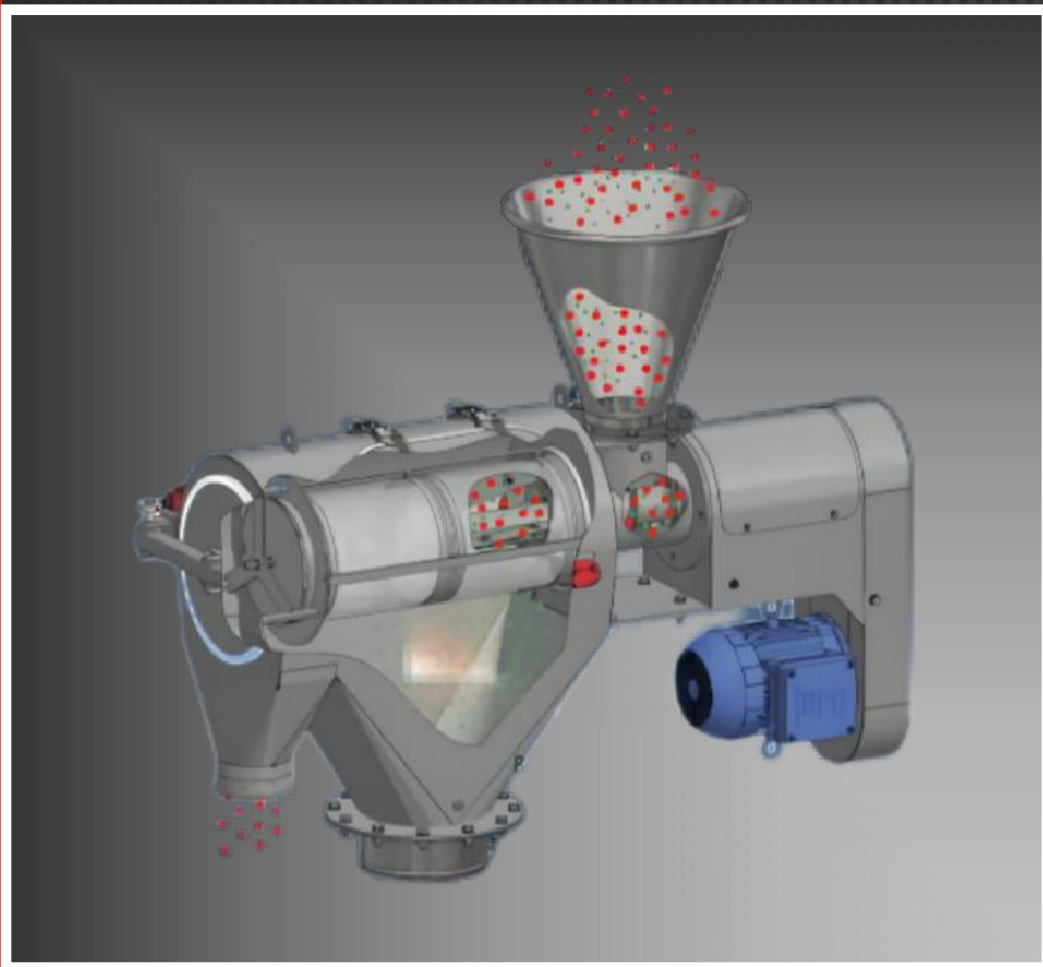
It is suitable for separating materials that do not meet the required size, ensuring the "screening process" by removing unwanted materials and reducing the risk of powder handling. It is widely used for various difficult-to-screen fine powders, effectively screening fine powders within the 50-500 mesh range.

Suitable for the following materials:

- 🔥 Fine powder
- 🔥 low density (light specific gravity)
- 🔥 Slight humidity
- 🔥 Easy to attach sticky powder
- 🔥 Static reaction







## WORKING PRINCIPLE

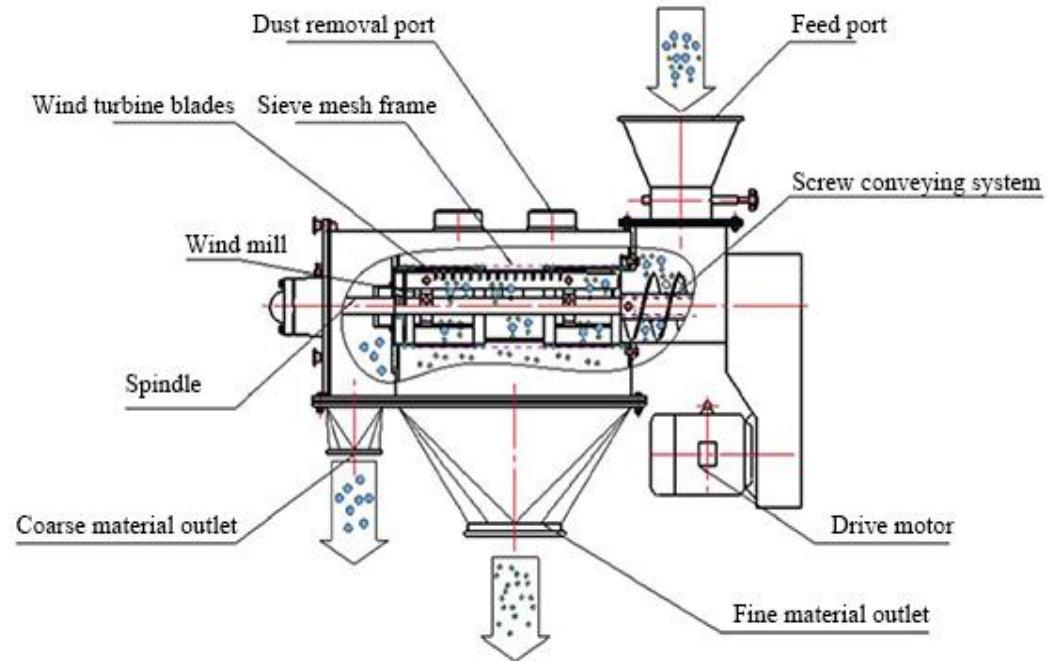
This equipment's screen is cylindrical and placed inside the machine body. After the material is mixed with the airflow through the screw conveying system, it is atomized and enters the screen cylinder. Inside the screen cylinder, the wind wheel blades cause the material to be subjected to both centrifugal force and cyclone propulsion force, thereby making the material spray through the screen. The material that passes through the screen is discharged from the fine material outlet, while the material that cannot pass through the screen is discharged along the cylinder wall from the coarse material outlet, achieving rapid separation.



# STRUCTURES

## Main components:

- ◆ Driving motor
- ◆ Screw conveying system
- ◆ Feeding inlet
- ◆ Discharge outlet
- ◆ Screen frame
- ◆ Fan blades
- ◆ Main shaft







Screen



Feed port

## DETAILS SHOW



Wind turbine blades



Material outlet



Observation port



Oil and water separator



Screw conveying system



# FEATURES



## ◀ Easy network change

The cylindrical screen is placed inside the machine body and can be automatically cleaned by the scouring of the cyclone, which has a longer service life and is easy to change.

## ◀ Closed screening

The equipment has a closed structure, no dust spillage, is stable, vibration-free, noise-free and has high screening efficiency.

## ◀ Easy to operate

The shell structure is novel, the installation is simple, and the control is convenient.

## ◀ Re-crushing function

It has the function of re-crushing agglomerated materials. It can be used alone or in combination with multiple machines, which is safe and reliable.



# PATENT CERTIFICATE



A new type of activated  
carbon powder airflow sieve



A new type of horizontal air  
flow screen

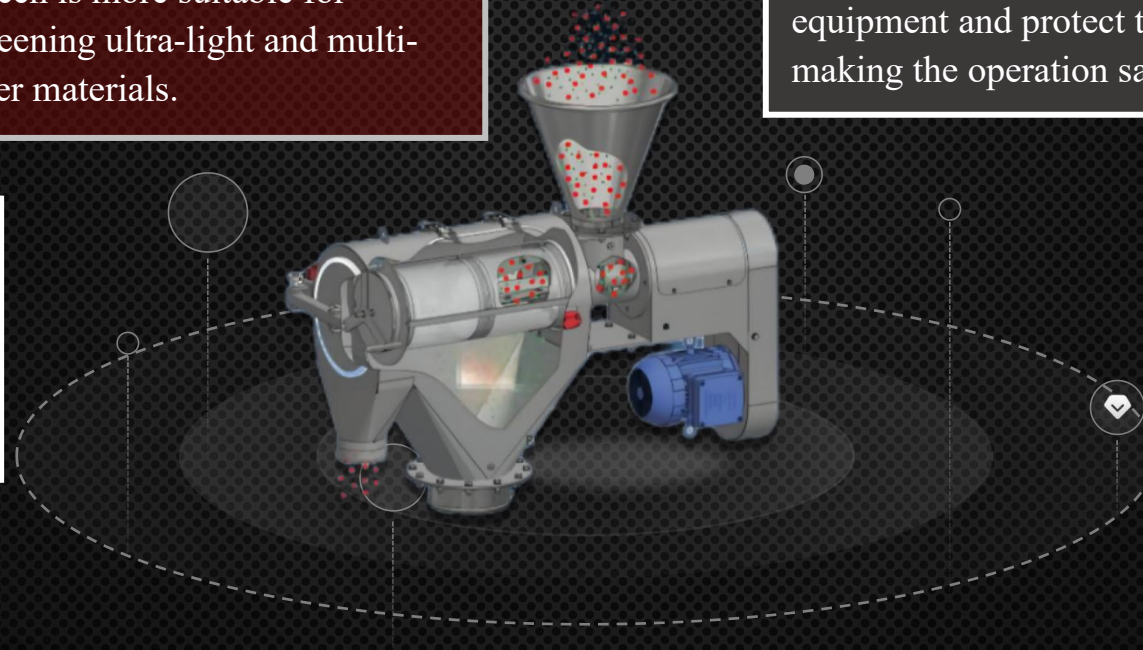


# Product Selling Points

The design principle of the airflow screen is more suitable for screening ultra-light and multi-fiber materials.

The gas protection device can reduce the temperature generated during the operation of the equipment and protect the bearings, making the operation safer.

Many parts of the equipment are made using one-time molding technology, which provides better stability.



The airflow screen can withstand a pressure of 0.1MPa and is suitable for positive pressure systems such as flour, with a large screening output.

# SPECIFICATIONS

Model	Material	Appliance
WQ18-85	Q235A	Within 500 mesh
	SUS304	
WQ30-100	Q235A	Within 500 mesh
	SUS304	
WQ50-130	Q235A	Within 300 mesh
	SUS304	
WQ70-180	Q235	Within 200 mesh
	SUS304	

The Centrifugal sifter is available in a variety of sizes, the machine size is defined by the size of the screen surface, our largest machine, the WQS70-180, has a screen area of Ø70" x 180" long and is available in carbon steel, 304 stainless steel or 316 stainless steel and is available in a variety of Finish options to suit your specific application.



## APPLICATION

### Chemical Industry

Soda ash, polyethylene, resin powder (PVC, epoxy), washing powder, additives, paint, dye, pigment, rubber, coating, etc.

### Non-metal industry

Carbon black (white carbon black), quartz powder (sand), mica, phosphor, feldspar powder, kaolin, fly ash, glass beads, etc.

### Metallurgical industry

Alloy powder, (gold, silver, copper, aluminum, nickel, chromium, magnesium, zinc, barium, vanadium, chrystal, strontium, lead) powder, casting sand, etc.

### Pharmaceutical Industry

Western medicine powder, Chinese medicine powder, pharmaceutical intermediates, pearl powder, etc.



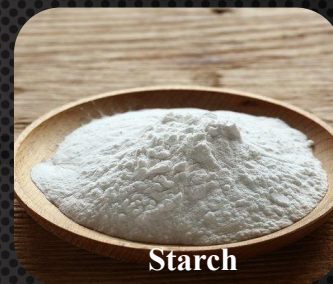
Fruit&vegetable powder



Zinc powder



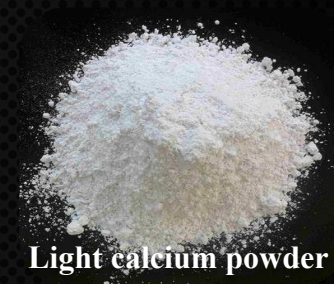
Medicine Powder



Starch



Paint



Light calcium powder



Hawthorn powder



Sulfur powder



Bakelite powder

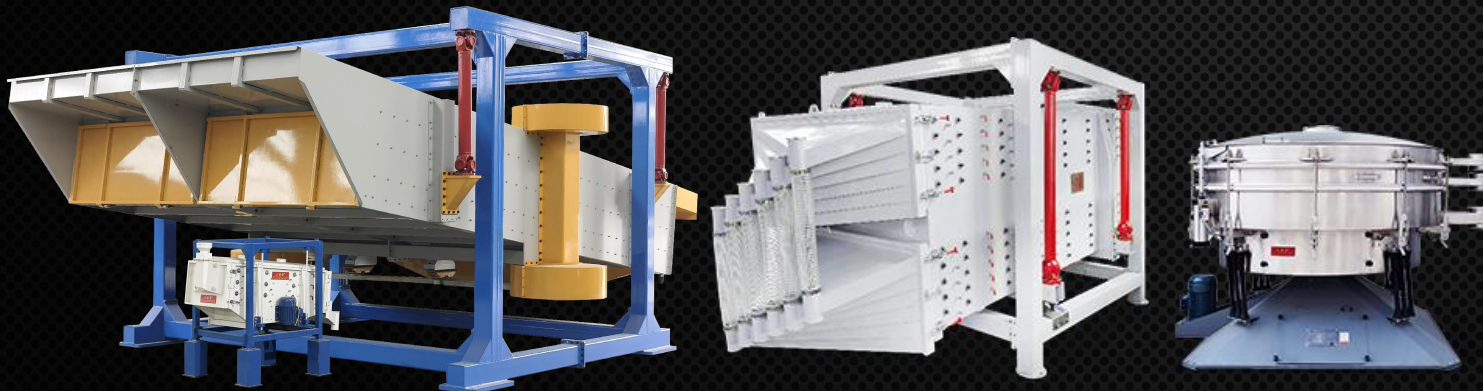


# THE SERVICES WE CAN PROVIDE

Sanyuantang Machine Co., Ltd. has been engaged in foreign trade export for more than 10 years. Its rich export experience ensures that you have worry-free purchasing.

When you cooperate with us, you can enjoy:

- ① Timely response through various communication tools.
- ② Professional technical guidance to choose the most suitable product for you.
- ③ Economical transportation scheme to cut down transportation cost.
- ④ Thoughtful after-sales tracking service from the installation to the daily maintenance.



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