SYT | Expert in Powder Processing Solutions for 30 Years



VERTICAL AIRFLOW SCREEN

Equipment for Screening Fine Powders and Oily Materials

The vertical airflow screen is a high-precision screening device for fine powders using mesh screens. It is now widely used in industries such as chemicals, pharmaceuticals, food, papermaking, metallurgy, building materials, rubber, and machinery.

Suitable for the following materials:

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

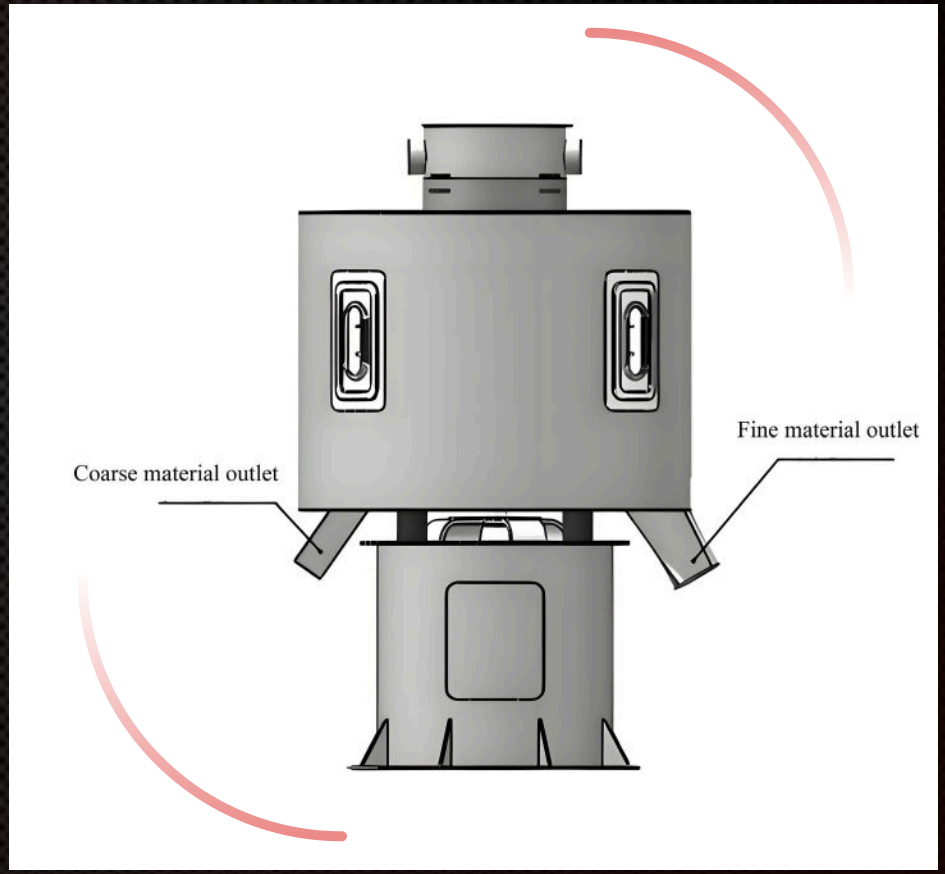






WORKING PRINCIPLE

The vertical airflow sieve primarily utilizes airflow to screen materials. This equipment is used to screen fine powder materials, which are small, light, and easy to float with good fluidity. When such materials enter the vertical airflow sieve, they are impacted by a powerful airflow, causing them to separate individually without agglomerating. This prevents mesh blockage and static electricity. Additionally, with the continuous energy supply from the vibrating motor, the airflow keeps pushing the materials. As a result, the fine materials pass through the sieve mesh particle by particle with the airflow, ultimately completing the screening process.



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FEATURE

Elegant Design

Sturdy, durable, and easy to maintain.

Screens are installed vertically, reducing load and extending service life.

Vertical Screen Installation

Accurate Screening

Ensures precise fineness without oversize mixing.

This equipment operates with low noise and can function independently without a dust collector, significantly reducing overall equipment investment, space occupation, and energy consumption.

Unique patented technology

High Screening Efficiency

Can achieve over 95% efficiency.

Suitable for screening powder materials from 80 to 530 mesh; screening performance is even more effective for materials with certain oil content.

Wide Application Range

Elegant Design

Can be used with various mills and air systems.

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PATENT CERTIFICATE



证书号第14439611号

实用新型专利证书

实用新型名称：一种新型活性炭粉气流筛

发　明　人：郑全发;方学杰

专　利　号：ZL 2020 2 3032550.1

专利申请日：2020年12月16日

专 利 权 人：新乡市三圆堂机械有限公司

地　　址：453700 河南省新乡市新乡县七里营镇青年路811号

授权公告日：2021年10月22日　　授权公告号：CN 214440917 U

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局长
申长雨

2021年10月22日

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其他事项参见续页



证书号第5937326号

外观设计专利证书

外观设计名称：自循环立式气流筛

设　计　人：郑全发

专　利　号：ZL 2019 3 0638293.X

专利申请日：2019年11月19日

专 利 权 人：新乡市三圆堂机械有限公司

地　　址：453700 河南省新乡市新乡县七里营镇青年路811号

授权公告日：2020年07月10日　　授权公告号：CN 305913320 S

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局长
申长雨

2020年07月10日

第1页（共2页）

其他事项参见续页



证书号第11020407号

实用新型专利证书

实用新型名称：一种自循环立式气流筛

发　明　人：郑全发

专　利　号：ZL 2019 2 2003576.4

专利申请日：2019年11月19日

专 利 权 人：新乡市三圆堂机械有限公司

地　　址：453700 河南省新乡市新乡县七里营镇青年路811号

授权公告日：2020年07月17日　　授权公告号：CN 211027100 U

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局长
申长雨

2020年07月17日

第1页(共2页)

其他事项参见续页

After years of research and numerous improvements, our company has developed a vertical airflow sieve that can operate independently without the need for a dust collector. We have obtained relevant patents for this advancement, achieving an upgraded iteration of the vertical airflow sieve.

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DIFFERENCE FROM ORDINARY VIBRATING SCREEN

Vertical airflow screen

Screening materials with airflow as carrier



VS

Ordinary screening machine

Screening materials with gravitational potential energy



The material on the ordinary screening machine is still restrained by gravity, and is separated in layers on the screen surface after being vibrated; while the vertical airflow screen is suspended by the centrifugal force, and finally the screen is e ected by the thrust of the airflow to complete the material classification.

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.

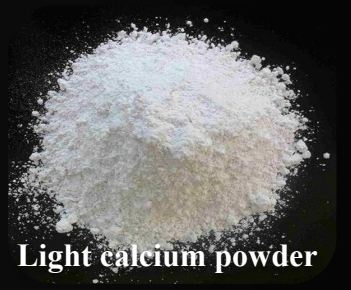

Fruit&vegetable powder


Zinc powder


Medicine Powder


Starch


Paint


Light calcium powder


Hawthorn powder


Sulfur powder


Bakelite powder

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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.

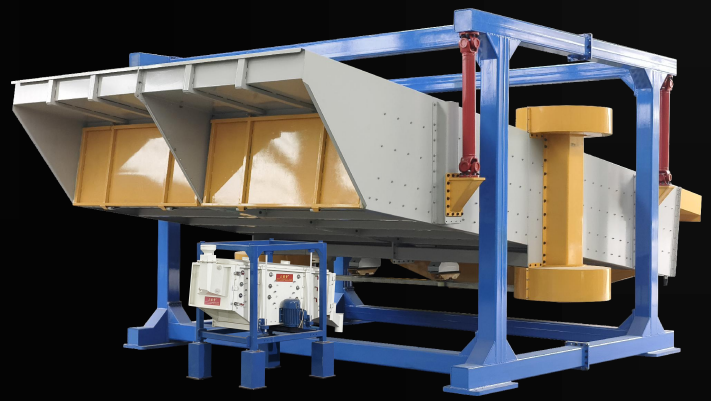
When you cooperate with us, you can enjoy:

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 Thoughful after-sales tracking service from the installation to the daily maintanence.







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