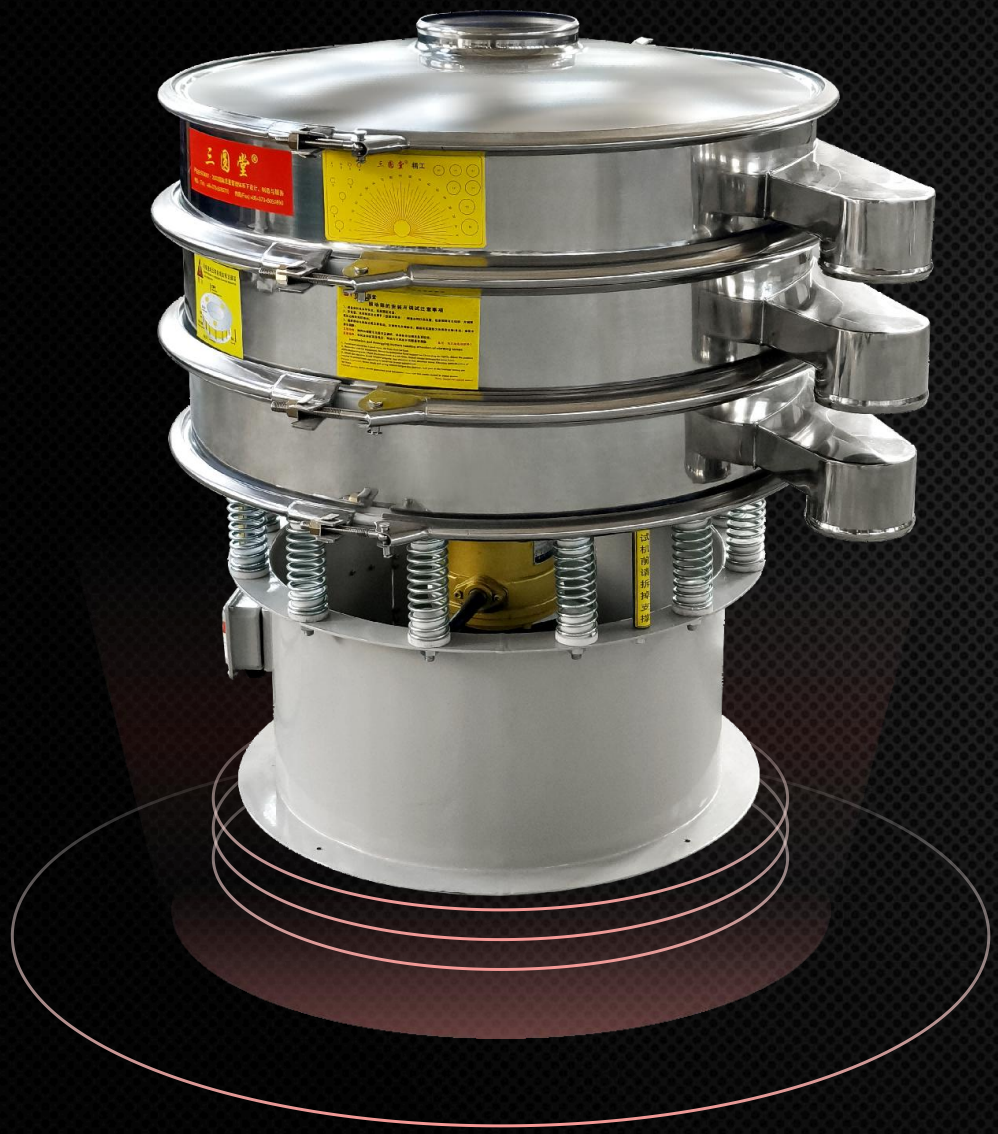
SYT | Expert in Powder Processing Solutions for 30 Years



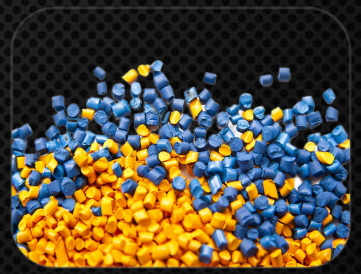
# ROTARY VIBRATING SCREEN

The general solution for small-scale screening, classification, and filtration of materials

The rotary vibrating screen is a high-precision screening machine with the characteristics of low noise, high efficiency, and fast screen change. It is especially suitable for screening and filtering materials such as granules, powder, and slime.

- Powder or particles impurities removing
- Particles size classification
- Liquid filteration





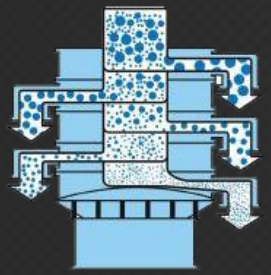


# WORKING PRINCIPLE

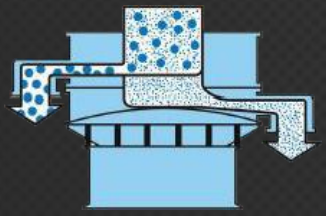
The rotary vibrating screen uses a vertical vibrating motor as the excitation source. Eccentric weights are mounted at both the upper and lower ends of the vibrating motor, converting the motor's rotational motion into three-dimensional motion: horizontal, vertical, and inclined.

This motion is then transmitted to the screen surface. By adjusting the phase angles at the upper and lower ends, the movement trajectory of the material on the screen surface can be altered.

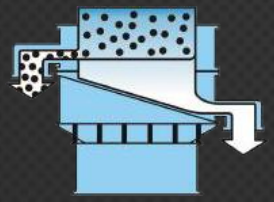




Hierarchical filtering



Screen impurities



solid-liquid separation



0° for coarse fraction



30° suitable for most sieving



60° suitable for fine sieving



90° for special purpose

# Material testing machine



Particle Classification



Powder Screening



Liquid Sieving



Ultrasonic Sieving

# STRUCTURES

### Vibration Motor: Power Source

The vibration motor provides the primary power for the rotary vibrating screen, acting as the excitation source.

### Upper and Lower Eccentric Weights: Key of Working

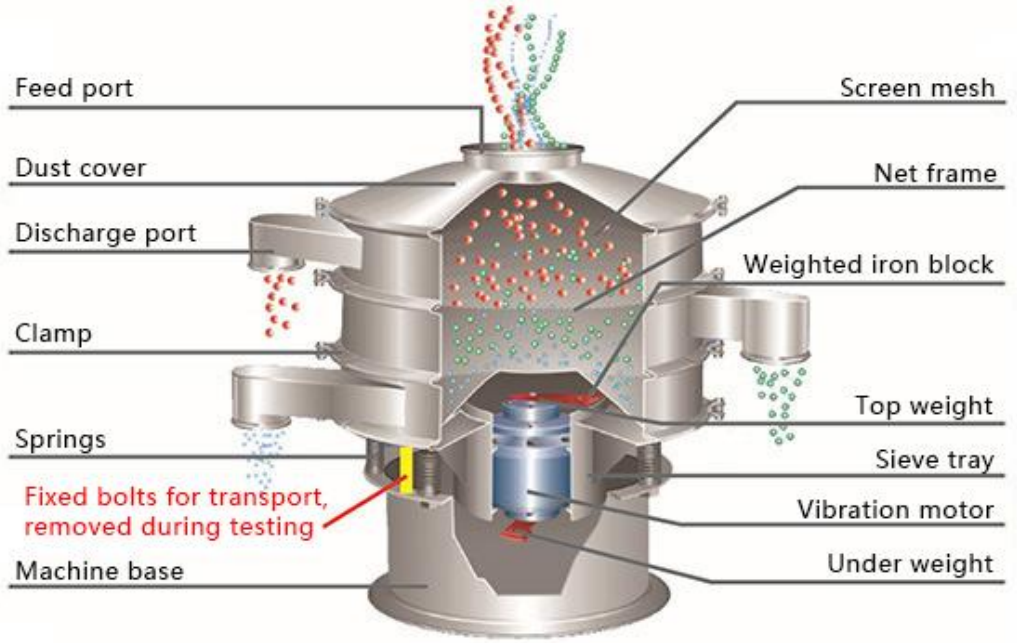
The vibration motor's excitation force is directed into horizontal, vertical, and inclined motions by the eccentric weights, ensuring uniform material dispersion and sieving.

### Spring Set: Buffering Function

The spring set buffers the force generated by the vibration motor, protecting the screen frame from damage and extending the machine's lifespan.

### Screen Frame, Screen Deck, Screen Mesh, Clamping Ring:

The screen mesh is supported by the screen deck with anti-blocking balls in between, reducing mesh damage and clearing blockages. The clamping ring secures the screen frames, allowing multi-layer material classification.



# DETAILS SHOW


Dust Cover with Inlet


Outlet

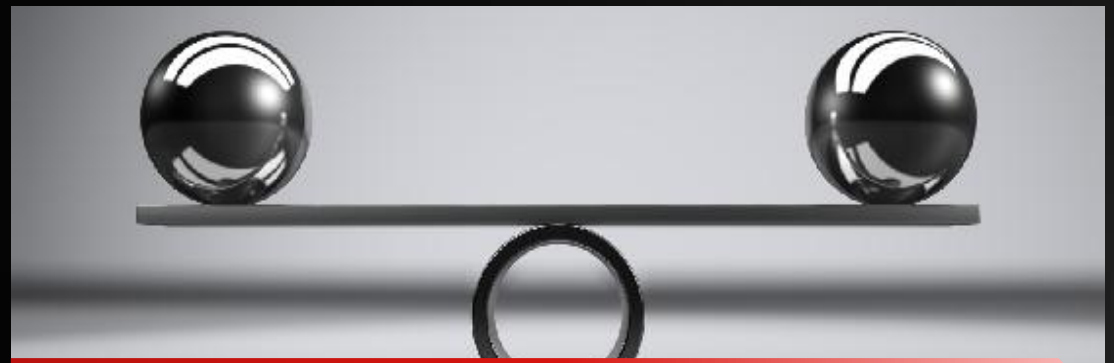

Screen Frame with Bouncing Ball


Control Valve


Damping Springs


Drive Base

# HILIGHTED PATENTED FEATURES



## High stability

- Sanyuantang rotary vibrating screen exclusively uses the upper cover and bottom frame to be integrally formed. The machine has strong stress, strong stability and long service life.




## Good environmental protection

- The integrated molding technology of key parts and high-efficiency laser cutting technology make the operation of various parts of the machine highly coordinated, low-noise, and highly environmentally friendly.

# FEATURES

## Widely Used

Meet the screening needs of powder, granules and liquids, with an accuracy of up to 500 (0.028mm) and a filtration accuracy of up to 5 microns.

## Prevent Clogging

There are bouncing balls under each layer of screen mesh to prevent the mesh from clogging.

## Automatic Working

Fully enclosed to prevent dust pollution. Impurities and coarse materials are automatically discharged and can be operated continuously. The output can reach up to 5 tons/hour.

## Multi-level Classification

1-5 layer design, 2-6 different particle sizes can be sorted, and the direction of the discharge port can be rotated 360°.

## Unique grid Design

Unique grid design, the screen has a long service life, is easy to change, and easy to clean.

SYT | Expert in Powder Processing Solutions for 30 Years

# MODEL AND SPECIFICATIONS



Model: SY-600



Model: SY-800



Model: SY-1000



Model: SY-1200



Model: SY-1500



Model: SY-1800

| Model | Layers | Granularity (mm) | Sieve Mesh | Effective Diameter(mm) | Power (KW) | Capacity (Kg/h) |
|---|---|---|---|---|---|---|
| SY-400 | 1-3 | <20 | 2-500 mesh | 380 | 0.25 | 100 |
| SY-600 | 1-3 | <20 | 3-500 mesh | 580 | 0.55 | 200 |
| SY-800 | 1-5 | <30 | 3-500 mesh | 780 | 0.75 | 500 |
| SY-1000 | 1-5 | <30 | 3-500 mesh | 970 | 1.1 | 800 |
| SY-1200 | 1-5 | <30 | 3-500 mesh | 1170 | 1.5 | 1200 |
| SY-1500 | 1-5 | <50 | 3-500 mesh | 1470 | 2.2 | 1500 |
| SY-1800 | 1-5 | <50 | 3-500 mesh | 1770 | 3.0 | 2000 |

SYT | Expert in Powder Processing Solutions for 30 Years

# TYPES OF ROTARY VIBRATING SCREENS

## 1. According to Materials:

Stainless steel (special for food and pharmaceutical industries), carbon steel, plastic (resistant to strong acid and strong alkali corrosion)



Contact Part Stainless Steel



All Stainless Steel



Cabon Steel



Plastic

## 2. According Screening Grade:

The screen mesh can be customized with 1 to 5 layers according to your needs.



1-Layer



2-Layer



3-Layer



4-Layer

# SPECIAL CUSTOMIZED DESIGN



## Add Ultrasonic

Add an ultrasonic auxiliary screen cleaning device to prevent screen clogging and is suitable for screening ultra-fine and sticky materials.



## Add hopper

The feed port is equipped with a hopper to facilitate even feeding.



## Add Scraper

Install a stainless steel scraper (or brush) to speed up the screening speed of materials through the screen.



## Extended Feed Port

The enlarged feed inlet design prevents material from splashing and makes it easy to observe the screen.

# APPLICATION

**Chemical Industry**

Resin, alkali coating, rubber powder, industrial drugs, traditional Chinese medicine powder rubber particles, cosmetics, aluminum chloride solution, paint, etc.

**Food Industry**

Sugar powder, soy starch, steviol glycosides, salt, rice flour, rapeseed, milk powder, soy milk, egg powder, soy sauce, juice, etc.

**Metallurgical Mining**

Limestone, metal ore, cryolite, kyanite, magnesite, mica, quartz sand, quartzite, dolomite, kaolin, silica, graphite, diabase

**Pollution Treatment**

Resin, alkali coating, rubber powder, industrial drugs, traditional Chinese medicine powder rubber particles, cosmetics, aluminum chloride solution, paint, etc.



























SYT | Expert in Powder Processing Solutions for 30 Years

# CASES















SYT | Expert in Powder Processing Solutions for 30 Years

# 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.

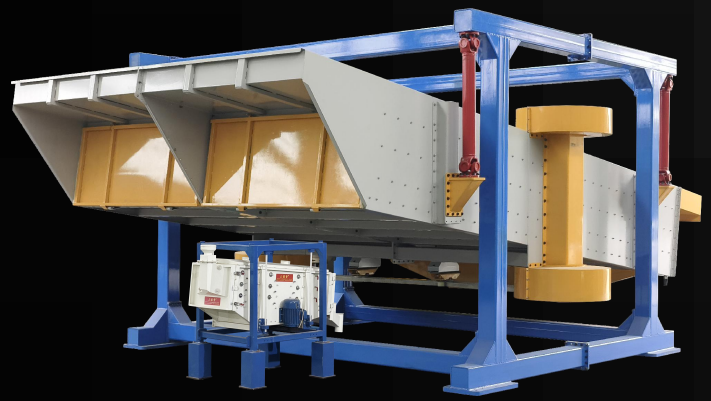
When you cooperate with us, you can enjoy:

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.







Xinxiang Sanyuantang Machine Co., Ltd.

website:www.sanyuantangcn.com / www.vibrationsieve.com

Add:No.88, Northeast Corner of Gouwang Village, Qiliying Town, Xinxiang County, Xinxiang City, Henan Province, China.

Email:info@sanyuantang.com

Whatsapp/ Wechat: 0086 18639095165