

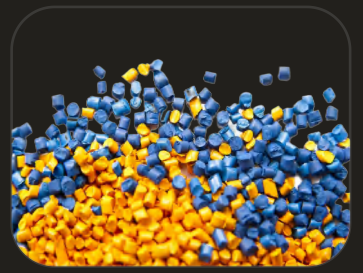
ROTARY VIBRATING SCREEN

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





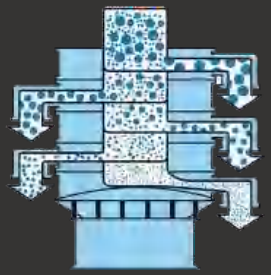


WORKING PRINCIPLE

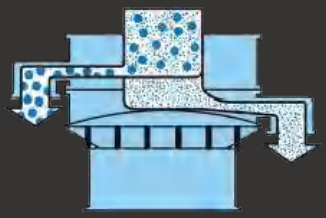
The rotary vibrating screen uses a vertical vibrating motor as the excitation source. Eccentric weights are mounted at both the upper and lower ends of the vibrating motor, converting the motor's rotational motion into three-dimensional motion: horizontal, vertical, and inclined.

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.

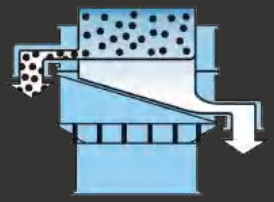




Hierarchical filtering



Screen impurities



solid-liquid separation



0° for coarse fraction



30° suitable for most sieving



60° suitable for fine sieving



90° for special purpose

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

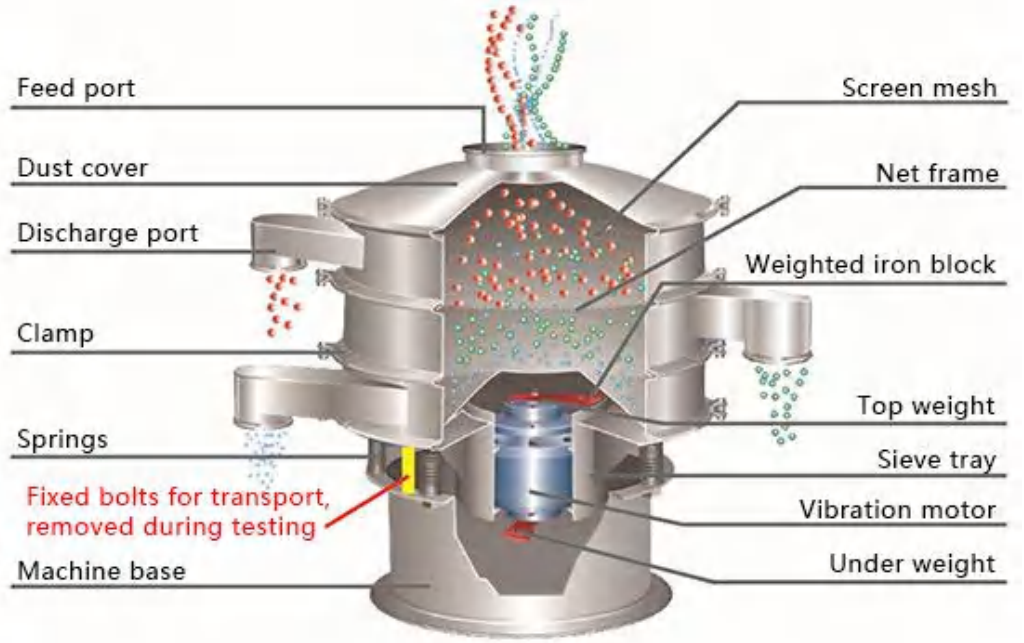
The vibration motor's excitation force is directed into horizontal, vertical, and inclined motions by the eccentric weights, ensuring uniform material dispersion and sieving.

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:

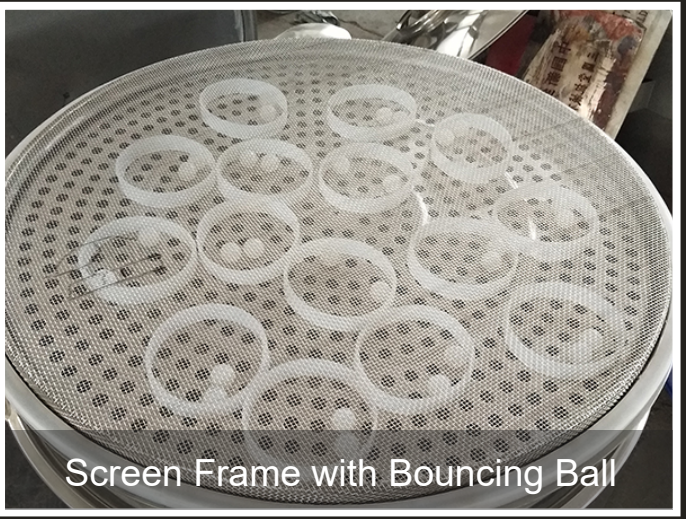
The screen mesh is supported by the screen deck with anti-blocking balls in between, reducing mesh damage and clearing blockages. The clamping ring secures the screen frames, allowing multi-layer material classification.



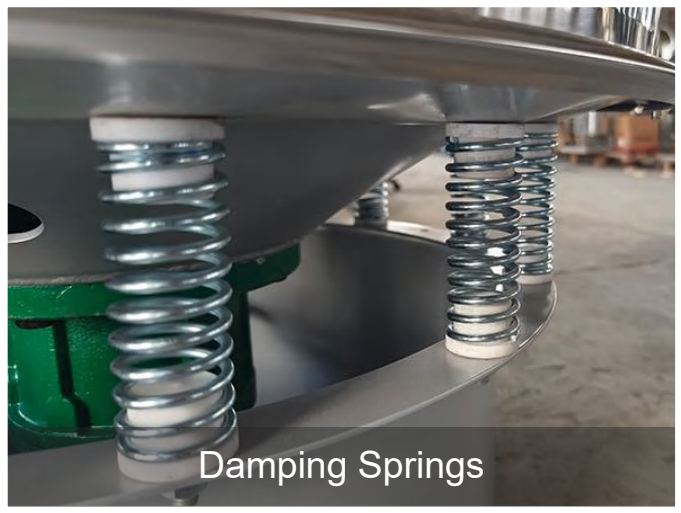
DETAILS SHOW


Dust Cover with Inlet


Outlet

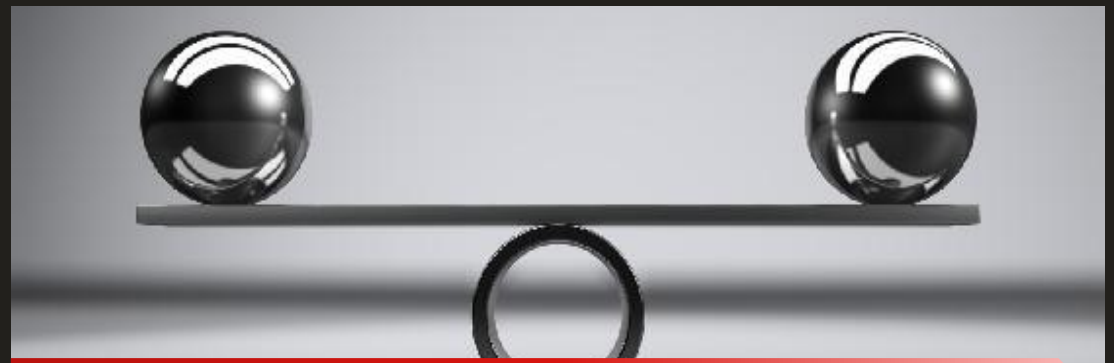

Screen Frame with Bouncing Ball


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.

MODEL AND SPECIFICATIONS


Model: SY-XZS-600


Model: SY-XZS-800


Model: SY-XZS-1000


Model: SY-XZS-1200


Model: SY-XZS-1500


Model: SY-XZS-1800

Model	Layers	Granularity (mm)	Sieve Mesh	Effective Diameter(mm)	Power (KW)	Capacity (Kg/h)
SY-XZS400	1-3	<20	2-500 mesh	380	0.25	100
SY-XZS600	1-3	<20	3-500 mesh	580	0.55	200
SY-XZS800	1-5	<30	3-500 mesh	780	0.75	500
SY-XZS1000	1-5	<30	3-500 mesh	970	1.1	800
SY-XZS1200	1-5	<30	3-500 mesh	1170	1.5	1200
SY-XZS1500	1-5	<50	3-500 mesh	1470	2.2	1500
SY-XZS1800	1-5	<50	3-500 mesh	1770	3.0	2000

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.







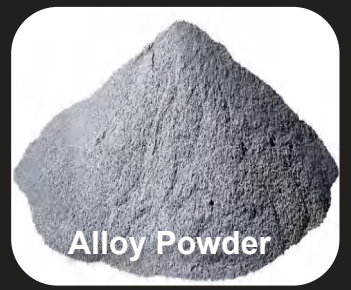












CASES









SYT | SANYUANTANG

CONTACT OUR TEAM

Website: https://sytvibtech.com

Email: sales@sanyuantang.com

Phone / WhatsApp: +86 166 3840 8032

Address: No. 88, Northeast Corner of Gouwang Village,

Qiliying Town, Xinxiang County, Xinxiang City,

Henan Province, China.