SYT | Expert in Powder Processing Solutions for 30 Years

Xinxiang sanyuantang machine CO. Ltd.

Thirty years of design and service experience provide you with the best screening solutions



Focus on large-capacity fine screening, R&D and production of vibration equipment

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DUAL SOURCE ROTARY VIBRATING SCREEN

Screening was upgraded again and output increased again

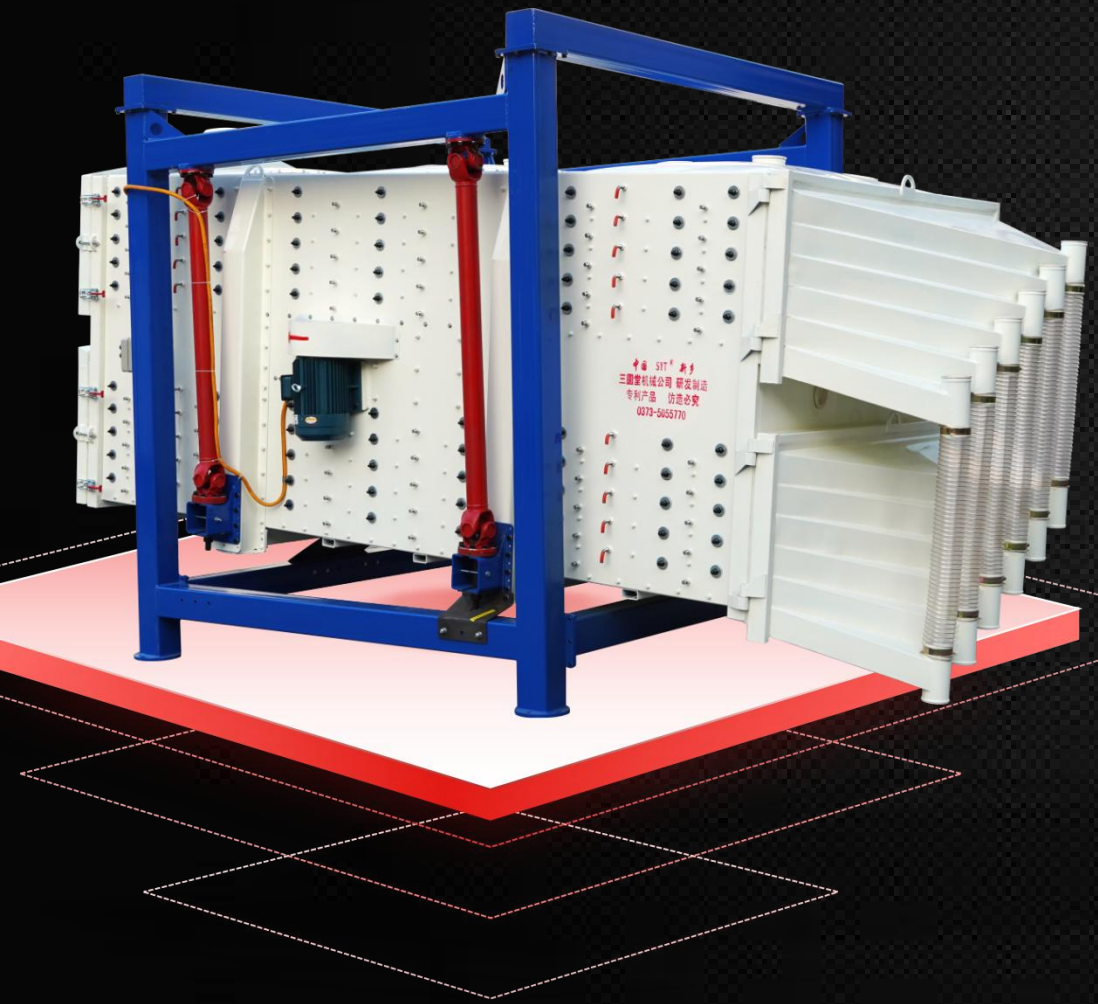
The dual-source square swing screen has been upgraded again based on the original single-source square swing screen. It has better screen cleaning effect, thereby reducing the number of screen changes and greatly reducing customer production costs.

- 1. Yield increased by 1.2-1.5 times
- 2. Improved network cleaning effect
- 3. Screens are more durable
- 4. Reduced production costs

Equipment model	Mesh size	Screening area (m^2)	Screen Angle °	Number of screen layers	Power (kw)	Allowable number of turns	Screen box travel (mm)
SYT-FYBS 1536	1.5m*3.5 m	5.25-9	5.4±3	1-10	5.5	180-260	60-25
SYT-FYBS 2040	2m*4m	8-9	5.4±3	1-10	7.5	180-260	60-25

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SINGLE SOURCE SQUARE GYRATORY SCREEN



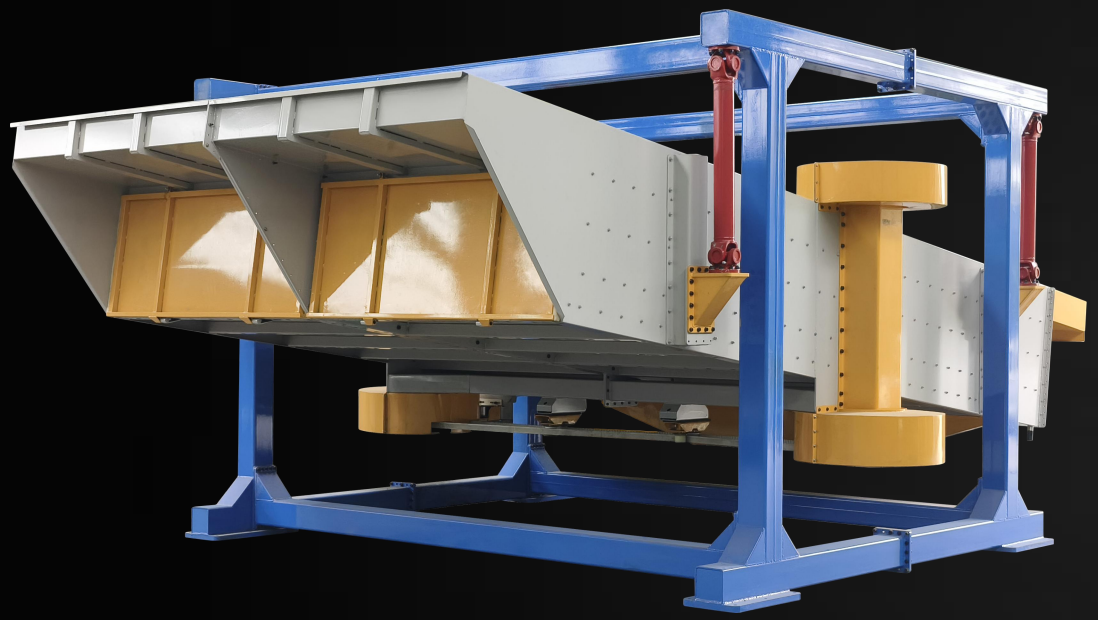
High-precision, high-volume screening first choice

The square gyratory screen (square swing screen) is an efficient screening equipment with high precision and large output. The square gyratory screen transmits the gyrating motion of the vibrator to the screen surface, so that the materials are quickly dispersed in the front of the screen, thereby achieving The purpose of efficient screening.

- The equipment has applied for 17 national patent protections
- Excellent self-cleaning net effect
- High screen utilization and long service life
- Good sealing effect

Equipment model	Mesh size	Screening area (m^2)	Screen Angle °	Number of screen layers	Power (kw)	Allowable number of turns	Screen box travel (mm)
SYT-FYBS 1536	1.5m*3.5 m	5.25-9	5.4±3	1-10	5.5	180-260	60-25
SYT-FYBS 2040	2m*4m	8-9	5.4±3	1-10	7.5	180-260	60-25

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FOUR-SOURCE ULTRA-LARGE SQUARE OSCILLATING SIEVE

Efficient Screening,Wide Range Of Applications,Large-Capacity

The wood chip screener is also called a four-vibration source square swinging wood chip screen because the whole machine has four excitation points. It is widely used in processing and screening wood chips, sawdust, biomass energy, alternative fuels, RDF and other materials. It has the characteristics of large output and high screening efficiency and is suitable for grading block or granular dry materials. The wood chip screening equipment can be used in conjunction with a chipper to effectively separate fine and overlong materials from wood chips, or separate mineral components from waste wood to facilitate subsequent recycling or heat treatment. Our company has successfully applied for a national invention patent for this product.

Model	Dimensions (l * w * h) (m)	Screening Area (m^2)	Sieve Layers	Motor Power (kw)	Production Capacity (m^3/h)	Spindle Speed (r/min)	Vibration Amplitude（mm）	Tilt Angle
FYBS-4060	7.6*5.2*3.4	4*6	1~5	15	600~1000	200—300	60-70	8-10° adjustable

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Probabilistic square gyratroy screen

Patented new product, large-capacity screening

The large-inclination swing probability vibrating screen is a specialized screening equipment, this structure is based on the compact square swing screen with a larger inclination angle, which makes the material discharge faster and is suitable for materials that are easy to screen, have larger particle sizes, and have higher output. It will be a replacement for the traditional probability screen.

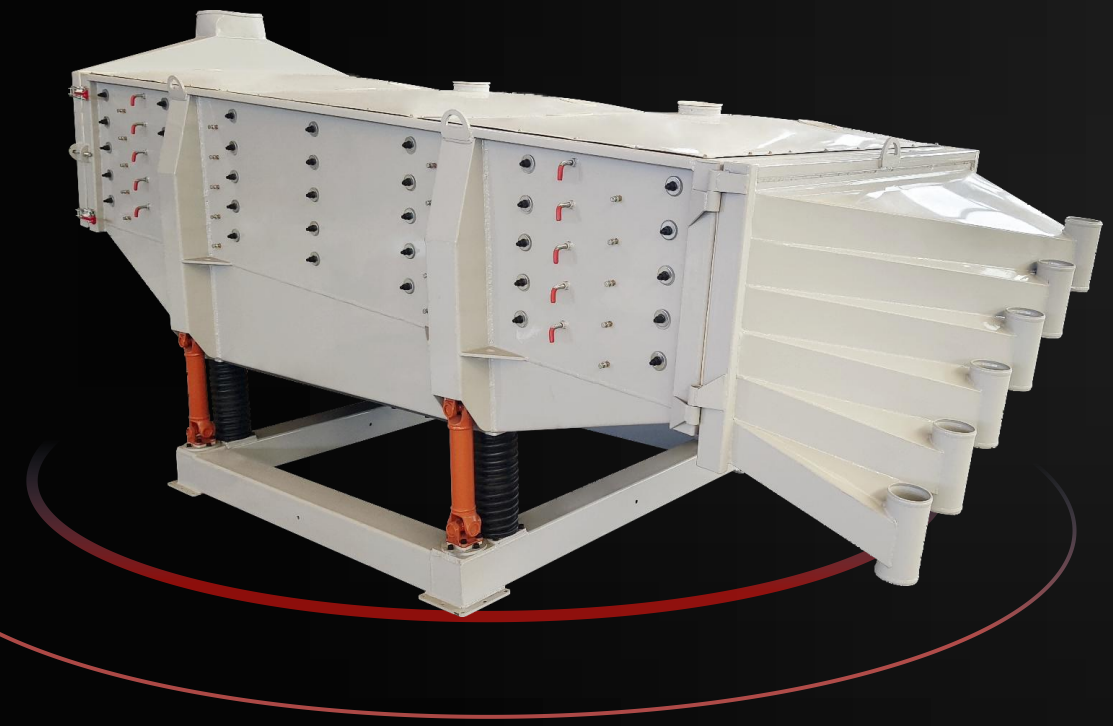
- The maximum output per hour is 100 tons.
- Multiple clearing
- Good sealing

Model	Screen size	Screening area	Screen inclination	Layers	Power	Number of turns	Case travel
FYBS1536	1.5*3.5 m	4.5-9 m2	15	1-10	5.5	180-260	25-60 mm
FYBS2040	2.0*4.0 m	8-9 m2	15	1-10	7.5	180-260	25-60 mm

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COMPACT SQUARE SWING SCREEN

high-yield, high-precision , the perfect replacement for ordinary linear screens



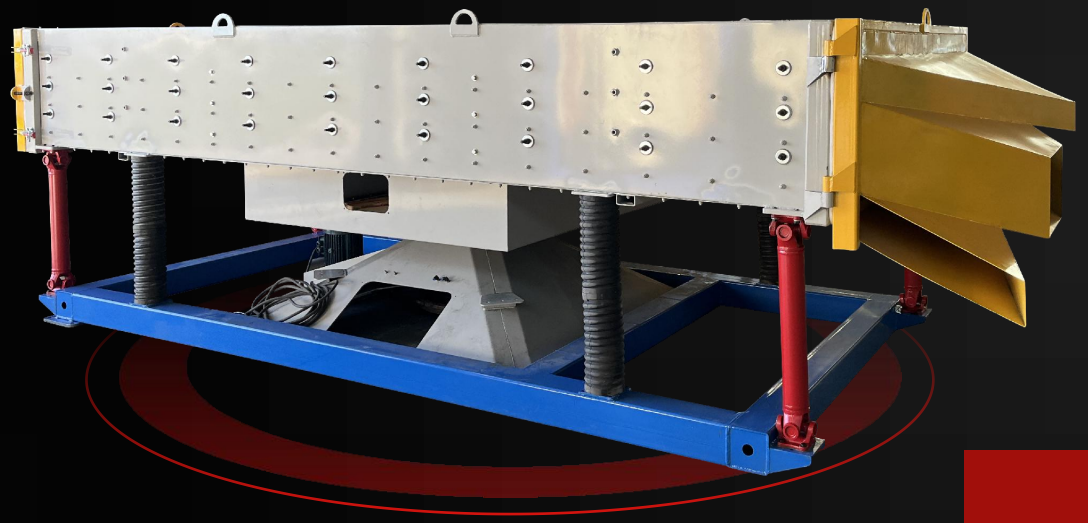
- Large-scale electrostatic spraying process
- Excellent self-cleaning net effect
- High screen utilization and long service life
- Patented product

Equipment model	Mesh size	Screening area (m^2)	Screen Angle °	Number of screen layers	Power (kw)	Allowable number of turns	Screen box travel (mm)
SYT-FYBS 1536	1.5m*3.6m	5.25-5	5	1-5	4	180-260	60-25
SYT-FYBS 2040	2m*4m	8-5	5	1-5	5.5	180-260	60-25

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Fully Balanced Square Gyratroy Screen

The inclination angle of the screen can be freely adjusted according to material characteristics.



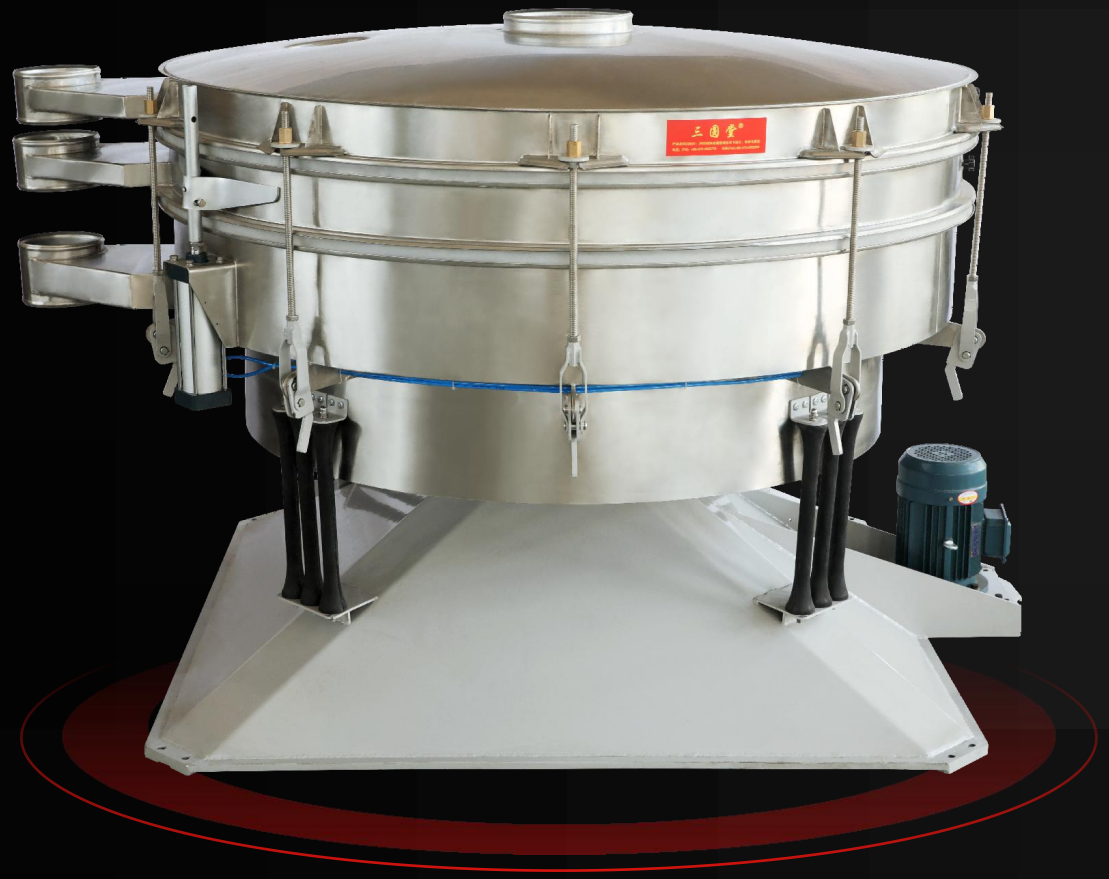
The Fully Balanced Square gyratroy Screen is our company's newly designed high-efficiency screening equipment. Incorporating a unique "Fully Balanced Dynamic Design", it operates with exceptional stability, significantly reducing impact on the supporting structure. Its core advantage lies in the adjustable inclination angle, allowing operators to flexibly modify the screen deck's tilt according to material properties (e.g., particle size, screening accuracy, discharge rate). This enables versatile solutions spanning from rapid coarse-particle separation to high-precision fine-powder classification.

Model	Screen size	Screening area	Screen inclination	Layers	Power	Number of turns
SYT2045	2.0*4.5 m	8 m2	0-90	Customizable	4kw	220

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Round swing screen

Imitate manual sieving, flexible screening, large capacity.



The circular swing screen is by far the most effective screening machine that imitates human manual movements and processes. Its unique design structure cleverly combines screen-(planar circular motion) and winnow-(upward parabolic motion) to pass adjust the radial angle and tangential angle to achieve the best screening effect you require.

- Imitation manual screening
- Multiple clearing
- Good sealing

Equipment model	YBS1000	YBS 1200	YBS 1600	YBS 2000	YBS 2200	YBS 2600
diameter(mm)	1040	1250	1580	1880	2100	2650
Screening area(m^2)	0.71	1.11	1.83	2.62	3.46	5.31
Space requirement (m^3)	1.2	1.6	2.5	4	4.84	7
Maximum screen layer	5	5	5	5	5	5
Motor power	1.5	2.2	2.2/4	2.2/4	3/4	5.5

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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.

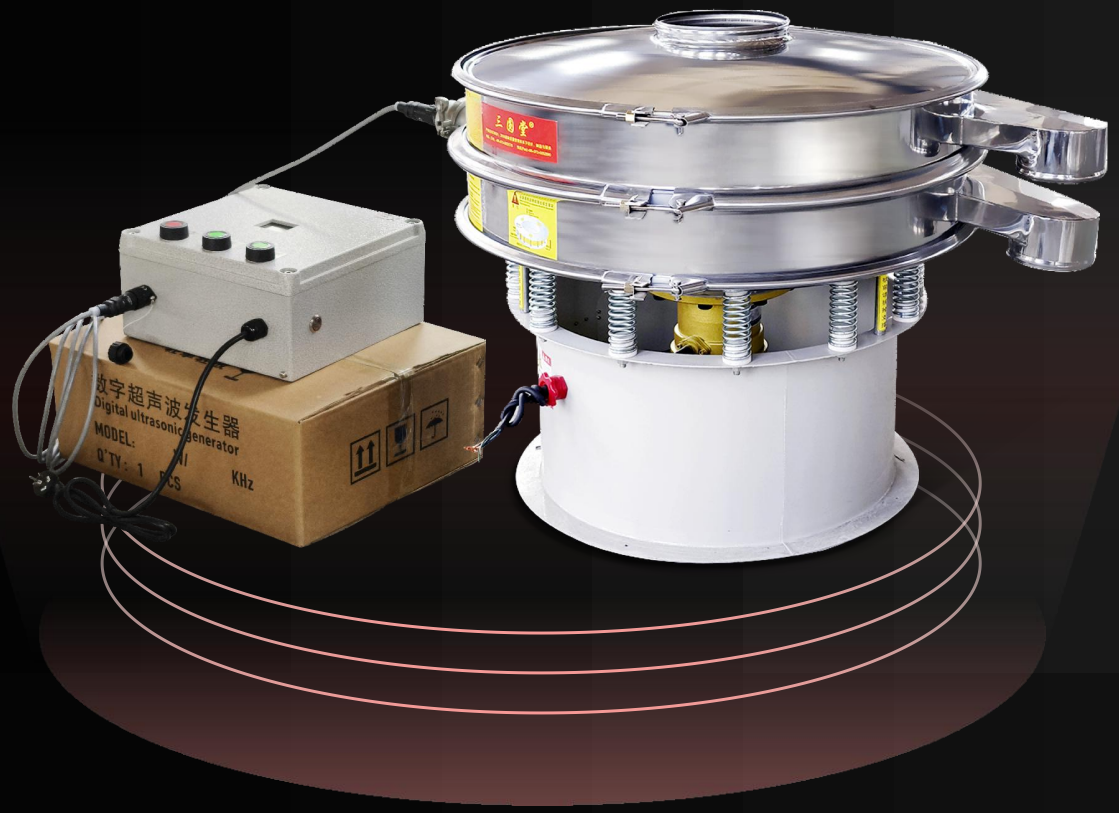
- Powder or particles impurities removing
- Particles size classification
- Liquid filteration

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

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ULTRASONIC VIBRATING SCREEN

It is especially suitable for users of high value-added fine powders.



The ultrasonic vibrating screen is a fine screening machine. It is based on the ordinary rotary vibrating screen, adding a high-frequency and low-amplitude ultrasonic controller to the screen. The ultra-fine powder receives huge ultrasonic acceleration so that the materials on the screen surface always remain suspended, thus suppressing screen-blocking factors such as adhesion, friction, leveling, and wedging.

Solving screening problems:

- Strong adsorption
- Easy to reunite
- High static electricity
- high density
- Light specific gravity

Model	Layers	Granularity (mm)	Screening area (㎡)	Sieve Mesh	Effective Diameter(mm)	Power (KW)
SYC-XZS400	1-3	<20	0.1	20-600 mesh	380	0.25
SYC-XZS600	1-3	<20	0.23	20-600mesh	580	0.55
SYC-XZS800	1-5	<30	0.41	20-600 mesh	780	0.75
SYC-XZS1000	1-5	<30	0.65	20-600 mesh	970	1.1
SYC-XZS1200	1-5	<30	0.99	20-600mesh	1170	1.5
SYC-XZS1500	1-5	<50	1.58	20-600 mesh	1470	2.2
SYC-XZS1800	1-5	<50	2.32	20-600 mesh	1770	3.0

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LINEAR VIBRATING SCREEN

Multi-layer screening, simple network change, support customization



- Stable and reliable,
- Less consumption, long life,
- Low noise,
- High screening efficiency

Model number	SYZ-520	SYZ-525	SYZ-530	SYZ-1020	SYZ-1025	SYZ-1030	SYZ-1225
Nominal size(mm)	500×2000	500×2500	500×3000	1000×2000	1000×2500	1000×3000	1200×2500
Material size(mm)	0.074-20	0.074-20	0.074-20	0.074-40	0.074-40	0.074-40	0.074-40
Frequency of vibration (times per minute)	960	960	960	960	960	960	960
leaning angle of screen(degree)	1-7	1-7	1-7	1-7	1-7	1-7	1-7
amplitude	1-4.5	1-4.5	1-4.5	1-4.5	1-4.5	1-4.5	1-4.5
Number of layers	1-6	1-6	1-6	1-6	1-6	1-6	1-6
power(kw)	2×(0.37-0.75)	2×(0.37-0.75)	2×(0.37-0.75)	2×(0.75-1.1)	2×(0.75-1.5)	2×(0.75-1.5)	2×(0.75-1.5)

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DIRECT DISCHARGING SCREEN

Fast discharge speed, simple maintenance and high processing capacity

The vibration source of the in-line vibrating screen is divided into single motor and dual motor structures. The material running trajectory has a variety of adjustment forms, which significantly increases the applicability of the equipment; the direct discharge of materials has a larger processing capacity.

- Low energy consumption and high efficiency
- Comply with food grade GMP specifications
- Automated operation, 24-hour continuous production

Name Model	SYM600	SYM800	SYM1000	SYM1200	SYM1500
Single motor power	0.18	0.18	0.25	0.55	0.55
Dual motor power	0.12*2	0.18*2	0.18*2	0.25*2	0.55*2
Screen diameter	550mm	750mm	970mm	1170mm	1470mm

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SCREW CONVEYOR

An efficient and flexible conveying equipment

Screw conveyors are divided into three types: horizontal, inclined and vertical. In terms of appearance, they are divided into U-shaped screw conveyors and tubular screw conveyors. It is mainly used for conveying various loose materials such as powder, granular and small pieces. This machine is not suitable for conveying special materials that are easy to deteriorate, have high viscosity, are easy to agglomerate or have high temperature, are afraid of pressure, and are highly corrosive. Its material can be carbon steel, 304, 316L, 321, etc.

Screw conveyor	100	160	200	250	315	400
Spiral diameter(mm)	100	160	200	250	315	400
Spiral distance(mm)	100	160	200	250	315	355
Rotating speed(r/min)	100	120	90	90	75	75
Conveying capacity Φ=0.33(m3/h)	2.2	7.6	11	22	36.4	66.1
power Pd 1=10m(kw)	1.1	1.5	2.2	2.4	3.2	5.1
power Pd 1=30m(kw)	1.6	2.8	3.2	5.3	8.4	11
Rotating speed(r/min)	120	90	75	75	60	60
Conveying capacity Φ=0.33(m3/h)	1.9	5.7	18	18	29.1	52.9
power Pd 1=10m(kw)	1	1.3	2.1	2.1	2.9	4.1
power Pd 1=30m(kw)	1.5	2.3	4.5	4.5	7	8.9

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VIBRATING SPIRAL CONVEYOR

Material can be upward transportation, can also be transmitted downward.

S series vibrating spiral conveyor is a new type vibrating conveyor, S type vibration conveyor is lifting in the material at the same time, also can complete drying and cooling of the material. Separate groove, and enclosed two kinds of structure, and can according to different technical requirements, design and material particle classification, design inflammable and explosive materials special vibrating conveyor.

- Equipment covers an area of an area small, easy to production process arrangement.
- Low noise, simple structure, Installation, maintenance is convenient.
- Structure simple and reasonable , low energy consumption, save electricity,

Model	Conveying capacity (t/h)	Material particle size(mm)	Conveyor trough size width times height (cm)	Conveying distance (m)	Vibration (min)	Motor Power (kw)	Gross weight (kg)
CZ250	~ 1.0	≤50	25×25	~2.0	960	2×0.4	230
CZ300	~ 1.5	≤50	30×30	~3.0	960	2×0.4	305
CZ400	~ 2.0	≤50	40×30	~5.0	960	2×0.75	580
CZ500	~ 2.5	≤50	50×35	~6.0	960	2×1.5	880
CZ600	~ 3.0	≤50	60×40	~8.0	960	2×2.2	1280
CZ700	~ 3.5	≤50	70×40	~10	960	2×3.0	1850

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Horizontal Airflow Sieve



Emove 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

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	



Lab Test Sieve

The lab test sieve shaker is a standard inspection sieve (also called test sieve, sample dividing sieve, and analytical sieve). is made for the purpose of particle size distribution measurement, and the determination of impurity content or solid content in liquid, which are extensively used in scientific laboratories and quality inspection departments.

Test sieve shaker has strict mesh size regulations, with diameters of 200mm and 300mm. For special requirements, 75mm is available. The mesh number of the screen frame ranges from 8 mesh to 500 mesh. The larger the mesh number, the smaller the holes.

Name	Standard model(SY)	Diameter	granularity	Amplitude	Motor Volt	Motor Power	Overall size	Weight
unit	layer	mm	mm	mm	V	KW	mm	kg
date	7	φ200φ100φ75	0.038-5	≤5	220	0.125	360×300×736	25

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SY-450 filter screen

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

Vibration filter machine S -450 type vibration filter is a new and efficient filtrate equipment.it can be widely used in the filtering and screening work of pasty,powder.The minimum size of the material to process can be 5 micron.And the maximum number of the mesh is 400. Mainly applicable to the small process capacity industry ,like ceramic,painting,dope,printing ink,pharmacy , food and etc.450 type machine consists of machine body,vibrating motor,outlet hopper,sieve griddle,e-control device.

- ✓ High efficiency, quality and durability
- ✓ Fine workmanship, simple operation
- ✓ Any powder or liquid can be used
- ✓ One-year warranty

Model	Diameter (mm)	Frequency	Dimensions (mm)	Power (kw)	Voltage (V)	Weight (kg)
300	260	1460	400*350*500	0.12	220V 380 V	30
400	400	1460	500*450*600	0.18	220V 380 V	40

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HIGH FREQUENCY SCREEN

Dedicated to the screening needs of viscous and slurry materials



A high-frequency screen, also known as a high-frequency filter screen, is a type of solid-liquid separation equipment. Compared to the traditional 450 filter screen, its main feature is the use of high-frequency vibration technology, which allows for faster separation of solid-liquid mixtures and can handle finer solid particles, typically processing particles smaller than 10 microns. It is widely used in industries such as ceramics, oil, and slurry.

Model	Power (KW)	Effective Diameter(mm)	Power (KW)
SY-600	1-3	580	0.55
SY-800	1-5	780	0.75
SY-1000	1-5	970	1.1
SY-1200	1-5	1170	1.5

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HONEY PROCESSING EQUIPMENT

Made of high-quality 304 stainless steel, in line with national QS food hygiene standards

Honey processing machine adopt an electric heating or steam heating structure, automatic temperature control, and vacuum feed, the device not only can concentrate but can sterilization, this equipment adopts 304 stainless steel, easy to operate, reliable operation, highly efficient, vacuum suction honey, can achieve higher vacuum degree and low concentrated temperature, is the ideal of honey processing equipment. Equipment includes a preheating tank, filters, concentrator, condenser, and vacuum pump.

Model	Production capacity	Machine diameter	Tank diameter	Thank height	The overall volume	Effective volume	Preheat tank power	Volume concentration tank power	Vacuum pump power
FM600	1.2-1.5 t/8h	1750*600*1660 mm	600 mm	600 mm	140 L	120 L	6 KW	9 KW	1.5 KW
FM400	0.5 t/8h	1600*500*1555 mm	400 mm	600 mm	70 L	60 L	6 KW	6 KW	1.5 KW

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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

model : SY-LQ-1000

Motor Power : 5.5 KW Screening area : 1㎡

380V 50Hz 3phase electricity

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BELT CONVEYOR

Large conveying capacity and smooth operation

This equipment, also known as skirt belt conveyor, is a special conveying equipment, mainly used for continuous conveying of materials, especially suitable for occasions that require climbing or inclined conveying. When the conveyor transports materials, it can effectively prevent the materials from sliding down during climbing or tilting, thus ensuring the stability and efficiency of transportation.

Width (mm)	Conveying length (m)/Power(kw)			Transfer speed (m/s)	Conveying capacity(t/h)
400	≤12/1.5	12-20/2.2-4	20-25/4-7.5	1.3-1.6	40-80
500	≤12/3	12-20/4-5.5	20-30/5.5-7.5	1.3-1.6	60-150
650	≤12/4	12-20/5.5	20-30/7.5-11	1.3-1.6	130-320
800	≤6/4	6-15/5.5	15-30/7.5-15	1.3-1.6	280-540
1000	≤10/5.5	10-20/7.5-11	20-40/11-22	1.3-2.0	430-850

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DUST-FREE FEEDING STATION

Safe, clean, efficient particulate transfer equipment.

The dust-free feeding station is suitable for the unpacking, feeding, screening and unloading of small bags of materials in the pharmaceutical, chemical, food, battery materials and other industries. When unpacking, due to the function of the dust collecting fan, the material dust can be prevented from flying everywhere.When the materials are unpacked and poured into the next process, they only need to be manually unpacked and put into the system directly. The materials pass through the vibrating screen safety screen) to intercept the bulk materials and foreign objects, so as to ensure that the particles that meet the requrements are discharged.

The dust-free feeding station is composed of feeding platform, unloading bin, dust removal system, vibrating screen and other components.

Model	Dust collection fan	Vibration motor	Dust filter
HC-800	1.1KW	0.18KW	0.4um(Coated polyester filter cartridge)
HC-1000	1.5KW	0.18KW	0.4um(Coated polyester filter cartridge)

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PNEUMATIC VACUUM FEEDER

small footprint, low noise emission, user-friendly controls, and static charge elimination for materials.

The pneumatic vacuum feeder uses compressed air to generate high vacuum through a vacuum gonerator to realizel the transportation of materials. It does not require a mechanical vacuum pump. It has simple structure, small volume, maintenance-free, low noise, convenient control, elimination of static electricity and compliance with GMP requirements and other advantages. The high vacuum generated by the vacuum generator prevents the material being transported from stratifcation and ensures the uniformity of the composition of the mixture. It is a tablet press, a capsule filling machine, a dry granulator, a packaging machine, a pulverizer, and a vibrating screen. The preferred equipment for mechanical automatic feeding.







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VACUUM FEEDER

Dust-free enclosed conveying; high efficiency and energy saving with low-noise operation.

The vacuum feeder produced by our company is a kind of vacuum conveying equipment for powdery materials, granular materials, and powder-grain mixtures. The vacuum feeder can automatically transport various materials to the hoppers of packaging machines, injection molding machines, crushers and other equipment, and can also directly transport the mixed materials to the mixer (such as V-type mixer, two-dimensional mixer) , Three-dimensional mixer, etc.), it reduces the labor intensity of workers and solves the problem of dust overtlow during feeding. It is the first choice for pharmaceutical factories and food factories to pass "GMP" certification to promote clean and civilized production.



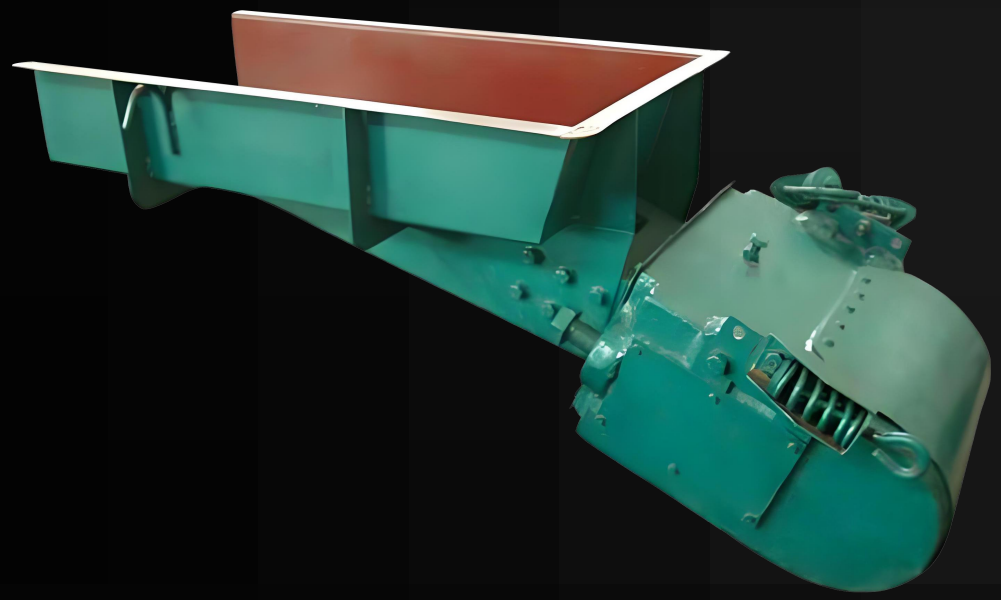




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ELECTROMAGNETIC FEEDER

Ideal for improving production efficiency and saving labor



The electromagnetic feeder is a piece of equipment that automates flow operations. It is mainly used to feed materials evenly or quantitatively from storage silos or other storage equipment to the receiving equipment. This kind of equipment is widely used in mining, metallurgy, coal, power, chemical industry, food, glass, refractory materials and other industries, realizing the automation requirements of the production process. Electromagnetic feeders are divided into two types: open type and closed type. They have the advantages of simple structure, easy operation and no need for lubrication.







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COMPANY PROFILE

ABOUT US

- Sanyuantang Machinery Co., Ltd., located in Xinxiang City, Henan Province and is a large-scale vibrating equipment enterprise integrating scientific research, production, and sales. The company primarily focuses on fine screening equipment and also manufactures supporting conveying, mixing, crushing, and packaging equipment.

- Covering a total area of 8,000 square meters with 5,000 square meters of standard heavy industrial workshops, the company is well-equipped with various metal processing, welding, and assembly equipment. Sanyuantang Machinery currently employs over 100 staff, including more than 50 management and technical personnel with intermediate and senior professional technical levels. The company boasts multiple advanced processing and manufacturing production lines, as well as two new product research and development studios for screening equipment.

- Utilizing scientific management methods and striving for excellence in manufacturing processes, the company adheres to the manufacturing philosophy of "customer practicality and ease of use as the foundation, with scientific research and innovation as the focus," quickly growing into a key vibrating machinery production base in China.



Yearts	Square Meters	Patent Certificate
30+	8000+	40+

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Looking forward to your cooperation



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