

# HENAN EXCELLENT MACHINERY CO.,LTD

———— BULK MATERIAL HANDLING ————



**VIBRATORY SEPARATOR**

# Company Profile

Henan Excellent Machinery Co., Ltd. is a manufacturer specialized in screening and filtering equipment. She is located in Xinxiang, near Zhengzhou, which has the reputation of vibration and filtration equipment's production base.

Our company has her own patented technology and a number of high-tech technical personnel. We can design and manufacture products to meet your requirements. For many years, we mainly manage three-D separator & filter, round and linear vibrator, ultrasonic vibration machine, mining vibrating screen, vibrating feeder, vibration conveyor, dozens of series. Machinery is widely used in sieving and filtering the powders, grains and slurry in various industries, such as food, chemical, pharmaceutical, grinding, ceramics, paper-making, metallurgy, mining, electronic industry etc...

Our company past the **ISO9001: 2000 and CE certification**. The products are sold well throughout the country, especially thVibratory Separator is a revolutionary three- dimensional vibrating minerals separator with unique and highly efficient separating mechanism, designed to separate solids from liquids or segregate dry materials into various particle sizes.

e vibratory separator has exported far to Southeast Asia, Japan, India, Australia, Vietnam Turkey, and other countries and regions.

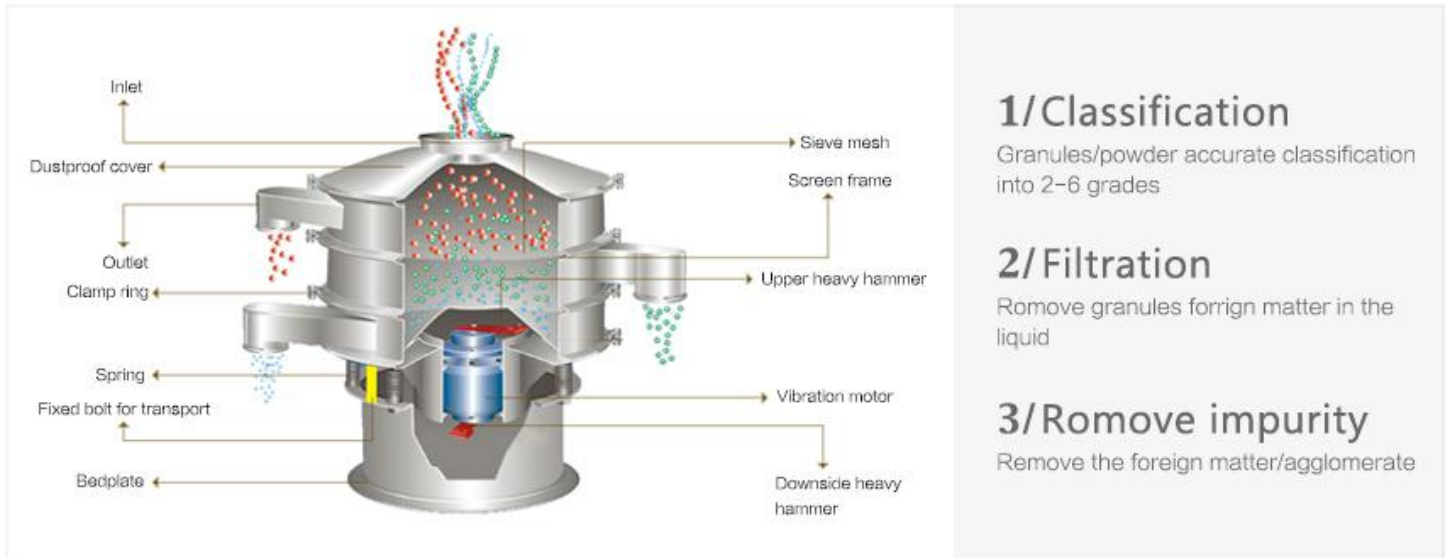


## Products Introduction

Vibratory Separator is a revolutionary three- dimensional vibrating minerals separator with unique and highly efficient separating mechanism, designed to separate solids from liquids or segregate dry materials into various particle sizes.



# General structure diagram of vibrating sifter



● Our multi-layer vibratory separator with the normal specification are made of stainless steel SUS304/316L at contacting part between machine body and untreated material, and the pedestal is steel SUS304/316L.

● We also accept special orders according to your requirements.





We have designed many different types such as: airtight type, edged-adding type, gated type, direct-discharging type, water-injection type, moving-wheel type etc.

## The Working Principle/Motor angle and affect of material motion trajector





The general features of adjusting the hammer as follows:

Flow Direction of Material	Phase	Features	Main Applications
	0-5°	The materials go straightly from the center to the circumference	General classification For the easy screened materials
	15-30°	Beginning the whirlpool motion	Normal screening operation
	60°	The longest whirlpool motion	Precise screening for the fine powder, high condensation and hydrous materials
	90°	Materials concentrate to the center	Special usage

According to add or reduce the numbers of weights in the hammer, which can change the exciting force of sifter.

The general features of adjusting the hammer as follows:



## Vibratory Separator Features



### High precision screening

The sieve is as fine as 1000 mesh or 0.002 mm, and the filtration can be as small as 2 micrometers. Can screen one to five layers of screens.



### Good sealing performance

Vibrating separator with fully enclosed structure, no flying dust, no liquid leakage, no blocking of mesh opening, improving working conditions.



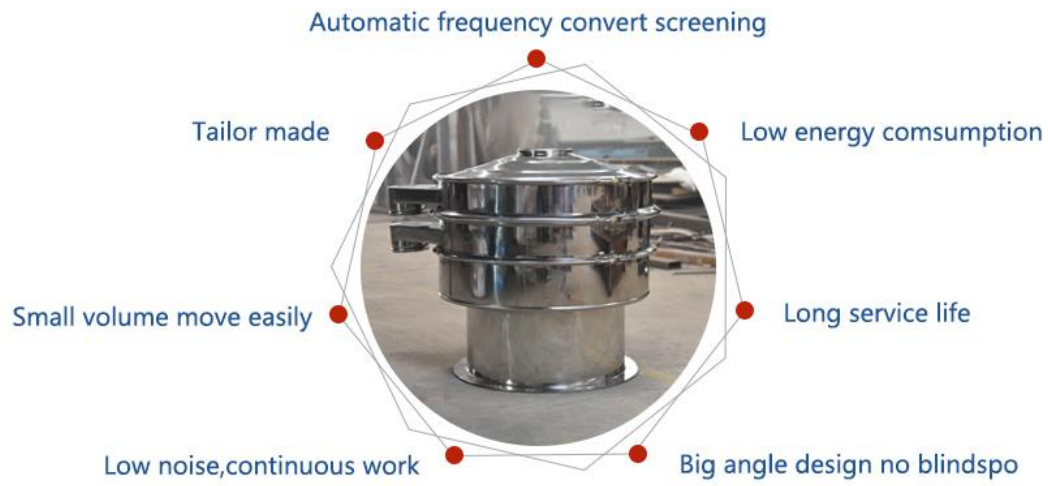
### Automatic cleaning device

Unique structural design, built-in bouncing ball, automatic cleaning of materials in the net, no blocking, no plugging.

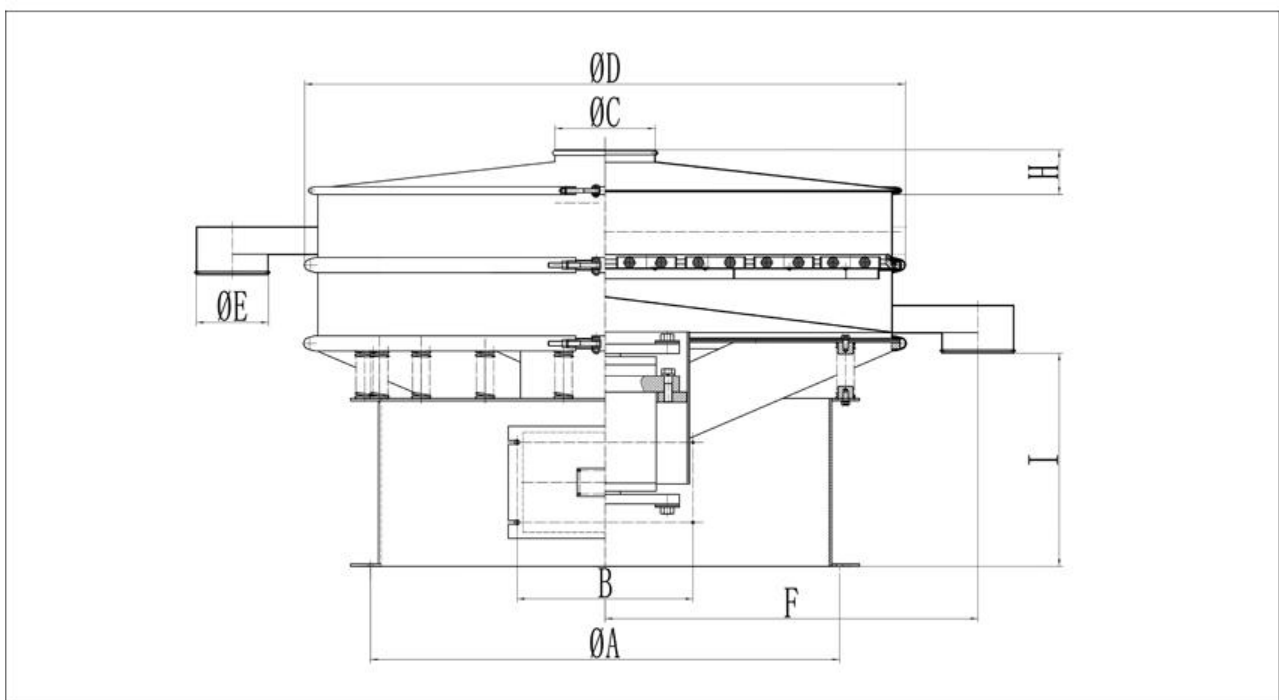


### Unique Screen Frame Design

The unique screen frame structure design, long service time of the screen, and the screen change is fast, only 3-5 minutes.



## Vibratory Separator - dimension Comparison Diagram



Model	A	B	C	D	E	F	H	I	1 deck height (mm)	2 deck height (mm)	3 deck height (mm)	Vibration motor (kw)
XZ49-600	530	430	246	600	100	391	70	415	785	910	1040	0.25
XZ49-800	680	580	246	800	125	514	80	430	855	1005	1155	0.55
XZ49-1000	800	700	246	1000	150	615	95	430	865	1015	1065	1.1
XZ49-1200	975	855	400	1200	180	717	100	550	1020	1170	1320	1.1
XZ49-1500	1190	1050	400	1500	180	866	116	545	1090	1270	1440	1.5
XZ49-1800	1580	1440	400	1800	200	1070	150	675	1230	1400	1570	3
XZ49-2000	1800	1640	400	2000	200	1210	190	685	1280	1445	1615	3

## Vibratory Separator Comparison Diagram In Different Fields Of Sifter

Raw Material	Specific Gravity	Mesh	Model	Method	Processing Capacity kg/hr
Spraying soil particle	2.0	10	XZ-1000-IS	Dry	18000
Slurry	1.1	250	XZ-1000-1S	Wet	3200
Feldspar	2.5	60 100	XZ-1000-2S	Dry	350
Grinding materials	1.5	12 20 250	XZ-1000-3S	Dry	1000
Refractor materials	1.2	2.2mm	XZ-1000-1S	Dry	10000
Kaolin	0.4	100	XZ-1000-1S	Dry	300
Alumina	1.0	120	XZ-1000-1S	Dry	280
Hydrofil	0.54	30	XZ-1000-1S	Dry	1100
Glucose Powder	0.8	6 20	XZ-1000-1S	Dry	2000
wheat meal	1.0	250	XZ-1000-1S	Wet	3200
Wheat Flour	0.6	24	XZ-1000-1S	Dry	1500
Yeast Extract	0.5	32	XZ-1000-1S	Dry	8000
Rice Flour	0.8	100	XZ-1000-1S	Dry	300
Soy sauce	1.0	100	XZ-1000-1S	Wet	6500
Salt	1.2	30 80	XZ-1500-2S	Dry	5000
Pollen	0.4	12	XZ-1000-1S	Dry	120
Bean Curd	1.0	120	XZ-1000-1S	Wet	2500
Sweet material	0.7	40 80	XZ-800-2S	Dry	320
Pineapple juice	1.0	100	XZ-1000-1S	Wet	5000
Citric acid	0.8	12 30 60	XZ-1200-3S	Dry	1000
Solvable paint	1.1	120	XZ-800-1S	Wet	5000
Apple juice	1.0	90	XZ-1000-1S	Wet	10000
Raw Material	Specific Gravity	Mesh	Model	Method	Processing Capacity kg/hr
Epoxy Resin	1.8	100	XZ-1000-IS	Dry	280
MBS Resin	0.3	30	XZ-800-IS	Dry	350
MNM Resin	0.4	30 60	XZ-600-2S	Dry	36
PVC Resin power	1.0	9.5mm	XZ-800-IS	Dry	850
Polyethylene Powder	0.45	48 100	XZ-1000-IS	Dry	100
Polyethylene Resin	0.5	60	XZ-1000-2S	Dry	450
Polymerization Particles	1.05	10 20	XZ-450X	Dry	3100
Spraying Lacquer	1.1 1.2	325	XZ-600-IS	Wet	1200
Magnetic Pigment	5.0	100	XZ-1000-IS	Dry	450
Non-magnetic pigment	0.4	60	XZ-800-IS	Dry	120
Epoxy powder paint	0.5 0.8	80	XZ-1000-IS	Dry	450
Polyester Powder paint	0.6 0.8	100	XZ-1000-IS	Dry	400
Zinc-oxygen	7.0	100	XZ-1000-IS	Dry	550
Corundum	4.0	60	XZ-1000-IS	Dry	300



Aluminized power	0.9 1.2	80 120	XZ-800-2S	Dry	350
Welding rod powder	0.95	20 200	XZ-1000-2S	Dry	550
Manganese dioxide	2.1	16	XZ-800-IS	Dry	600
Titanium dioxide	2.0	60	XZ-1000-IS	Dry	1550
Electrolytic copper powder	1.5 2.4	24	XZ-1000-IS	Dry	210
Graphite	1.2	16 40 80	XZ-1000-3S	Dry	140
Waste oil	0.9	100	XZ-1000-IS	Wet	3800
chlorophyll	0.25 0.4	48 100	XZ-800-2S	Dry	100

The above-mentioned data is only for reference and the data may be changed subject to the model, mesh, material and the treatment volume in the alteration of features.

## Vibratory Separator Application



Salt



Juice



Sugar



Flour



Medicine



Coating



Paint



Ceramic



Aluminum powder



Quartz sand



Lime



Kaolinc



Ore powder



Refractory



Garbage waste



Activated carbon

**Food industry:** Sugar powder, starch, salt, rice powder, milk powder, soy milk, egg powder, soy sauce, fruit juice, tea, beverage, dairy, candy, small food, frozen food, seasoning, protein, food additives, etc

**Chemical industry:** Resins, coatings, industrial chemicals, cosmetics, paints, etc.

**Metallurgical powder industry:** Aluminum powder, lead powder, copper powder, ore, alloy powder, electrode powder, manganese dioxide, electrolytic copper powder, electromagnetic material, abrasive powder, refractory material, kaolin, lime, alumina, heavy calcium carbonate, quartz sand, etc.

**Other industry:** Waste oil, wastewater, dyeing and finishing wastewater, paper making, additives, activated carbon, Chinese medicine powder, granule pills, pellets, etc.



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