

MEGA YOUNG SCREENING TECHNOLOGY CO., LTD



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BAR VIBRATING SCREEN

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INTRODUCTION

This machine is composed of screen box, vibrating motor, damping system and bottom rack. Screen box is consisted of deck base, screen plate, scale-board etc.

It adopts high function and long life YZO series vibrating motor or exciter as exciting source to adjust the size of exciter force, in order to change swing of sifter machine.

The damping system is made up of rubber spring, hoop and supporting base. The bottom rack is consisted of hopper and chasis rack, installation method of exciter source is divided into upper vibrating or under vibrating, installation method of vibration reducer is divided into base or suspension. We also can design and manufacture according to users requirement.

Linear vibrating sifter is used to separate materials into various particle sizes for further processing. Basically, professional large capacity mining linear vibrating screen manufacture consists of the screen box, supporting device, driving unit, vibration isolation and etc. It has two operational driving modes: dual-vibration mode (light duty) and dual-vibration exciter mode (heavy duty).

The motion path of screen box is rectilinear, it is called linear vibrating screen. Based on the different vibration, it is divided into two types, one is shaft-eccentric type rectilinear sifter and the other is block-eccentric type rectilinear vibrating sifter, and the numbers of layer could be 1-4.

Two-motor synchronous device generates reverse exciting force, forcing the screen box do the vertical movement with the sieve. When two vibrating motors that are longitudinally mounted on the screen box actuate the relative rotation, so that the material on the screen deck surface jumps and moves to the outlet under the exciting force. The size of materials that are smaller than the opening of screen deck, fall to the next layer through the deck. Then they go out from the outlet after continuous jump. After this process, different levels of material can be got, and the classification operation of material is finished.

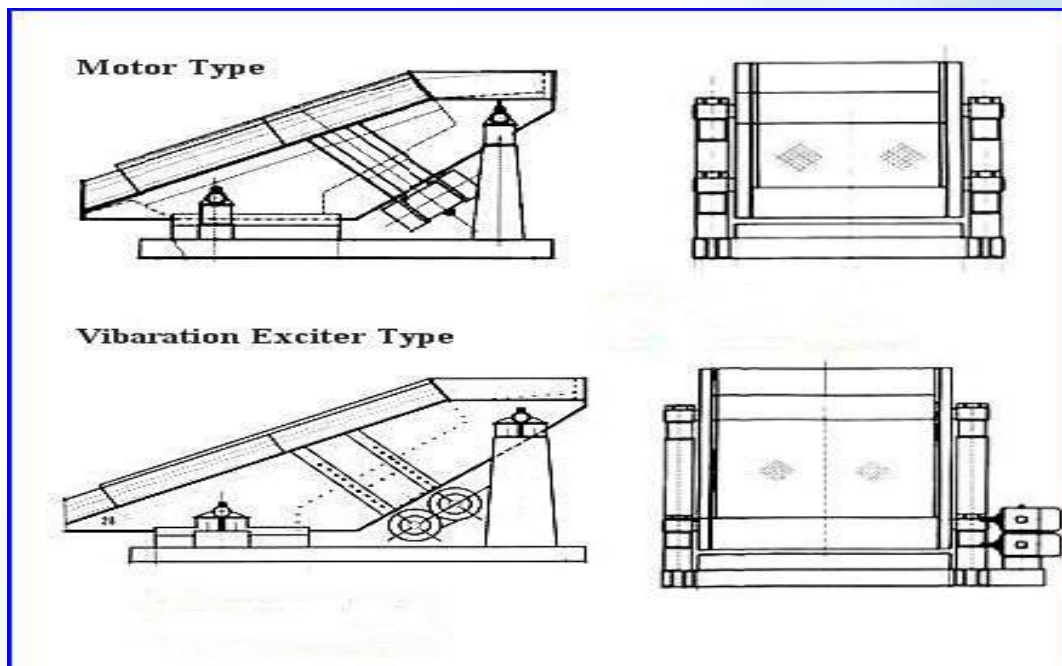
WORKING PRINCIPLE

Screen self-synchronous reversed rotation depends on two sets of same vibrating motors or general motors along with exciter, and makes the whole screen machine supported on vibration reducer moves on a linear trajectory quickly go ahead and loose to complete screening operation after materials fall into screen from inlet.

XBZS series cantilever bar vibrating sifter is driven to rotate synchronously in opposite directions by two same vibration motors or electric motors with exciters, which makes the screen body move on periodical and to-and-fro linear trajectory to achieve screening classification.

The vibrating source is also from vibrating motor. There are two motors to be fixed on the both side of screening box(or under the screening box) to corotate on the contrary direction. In the process of rotating, when two motors synchronous reversely rotate, the eccentric blocks of motor will emerge a kind of centrifugal force, which can be transmitted to the screening box and make the machine run by linear direction. Then the material on the mesh will be vibrated forward and screened.

There is an angle of inclination two motor axis's relative to screen deck, under the influence of resultant force of exciter force and materials self weight, materials are threw up to make saltatory and linear movement forward on the screen deck in order to screen and grade the materials. By choosing the suitable mesh, the screening target is realized.



FEATURE

The deck of bar screen should be inclined installed, the angle is during 20 degree to 35 degree. When comparing with other same type has following difference:

1. small volume , big inclined angle and screening capacity.
2. light weight, easy installation.
3. low price and energy consume.
4. simple construction and beautiful shape.
5. the efficiency of the screen mesh is more over 20% than the general screen mesh.
6. self-cleaning.
7. specially using for secondary screening under the high furnace groove.
8. Large inclination installation of screen surface(20 ° -35°), small volume, large capacity.
9. Light weight for easy installation; low power consumption for energy-saving.
10. Low cost and little spare parts; simple structure and attractive appearance.
11. Self-cleaning function, specially for secondary screening below blast furnace bin.

PARAMETER

Motor-type										
model	screen surface area	screen incline angle	feed size	mesh size	processing capacity	vibrating frequency	double-amplitude	motor		
	(m ²)	degree(°)	(mm)	(mm)	(t/h)	(Hz)	(mm)	model	power(Kw)	voltage(V)
XBZS-0918	1.62	28	<150	3	30-80	24	5±0.5	YZO-17-4	2*0.75	380
XBZS-1020	2	28		5	30-120	16		YZO-20-6	2*2.0	
XBZS-1022	2.2	28		10	30-140			YZO-20-6	2*2.0	
XBZS-1222	2.64	28		15	30-160			YZO-20-6	2*2.0	
XBZS-1224	2.88	28		20	30-200			YZO-20-6	2*2.0	

Exciter-type										
model	screen surface area	screen incline angle	feed size	mesh size	processing capacity	vibrating frequency	double-amplitude	motor		
	(m ²)	degree(°)	(mm)	(mm)	(t/h)	(Hz)	(mm)	model	power(Kw)	voltage(V)
XBZS-1230	3.6	28	<200	3	100-200	12	5±0.5	Y132S-6	2*3.0	380
XBZS-1530	4.5	28		5	100-260			Y132M-6	2*4.0	
XBZS-1536	5.4	28		10	150-320			Y132M-6	2*4.0	
XBZS-1542	6.3	28		15	150-320			Y132M-6	2*4.0	
XBZS-1836	6.48	28		20	180-360			Y132M-6	2*4.0	
XBZS-1842	7.56	28		25	200-400			Y132M-6	2*5.5	

APPLICATION

XBZS series bar screen is a new type screen equipment, suitable for the classification of big materials, medium and small granular materials. It is widely used in mining, coal, energy power, metallurgy, building materials, fire-resistant, etc.

