



**SBM Vibrating Screen**  
**SBM** 



What we do today is to ensure the future of our  
group with youth and spirit forever and ever.

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# Vibrating Screen



## Vibrating Screen Overview

Vibrating screen is the circular vibrating type; we called it circular vibrating screen also. SBM's vibrating screen earns this name by reason of its approximately circular movement. Vibrating screen is of multilayer and high efficient. The eccentric shaft vibration exciter and partial block help to adjust amplitude. This kind of vibrating screen is of long streamline, clear screening for different specifications.

## Applications

Vibrating screens are widely used for grading and screening materials in such fields as chemical industry, minerals, quarry, building materials, water conservancy and hydropower, transportation, smelting and so on. Vibrating screens are efficient screening machines for the classification of bulk material such as coal, minerals, coke etc. There are 40 specifications for this series vibrating screen, of which the heavy duty type of vibrating screens are for the classification of large size materials, while the light duty type of vibrating screens are for the middle and small size materials.

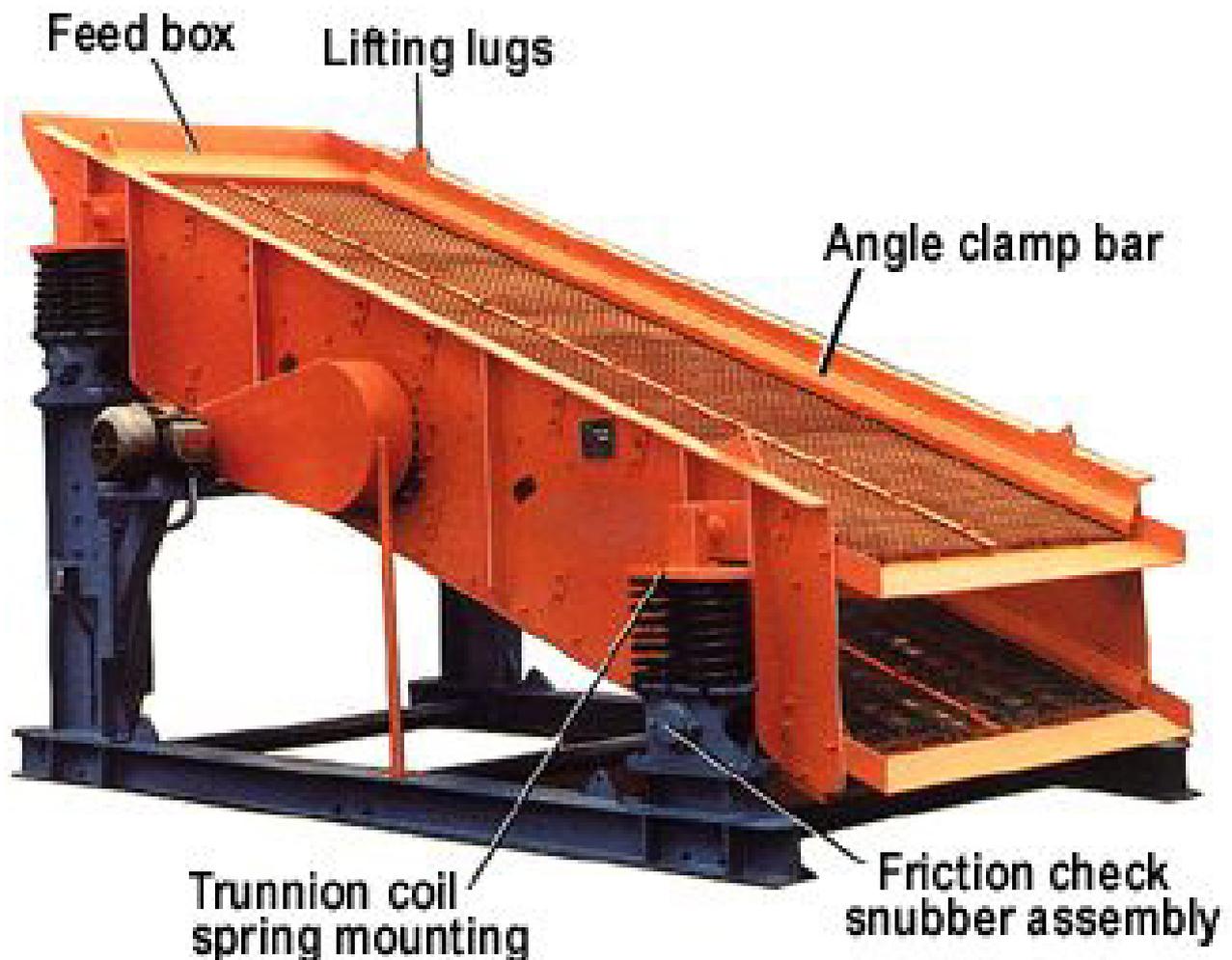
## Main Features and Benefits

1. This series of vibrating screens use eccentric block to produce strong exciting force.
2. Crossbeam and the main body of the vibrating screen are connected with high strength screw bolts. So our vibrating screens have the features of simple structure and easy maintenance.
3. The vibrating screen adopts tire coupling with capability of flexible connection and stable operation.

## Technical Data

Type	Screen Spec (mm)	Layers	Sieve Pore Size (mm)	Max. Feed Size (mm)	Capacity (t/h)	Power (KW)	Screen area (m <sup>2</sup> )	Weight Excluding Motor (t)
2YA1237	1200×3700	2	3-50	200	7.5-80	5.5	4.44	2.34
3YA1237	1200×3700	3	3-50	200	7.5-80	7.5	4.44	3.05
2YA1548	1500×4800	2	5-50	400	50-208	15	7.2	5.33
3YA1548	1500×4800	3	5-50	400	50-250	15	7.2	6.07
2YA1848	1800×4800	2	5-80	400	50-260	18.5	8.64	6.65
3YA1848	1800×4800	3	5-80	400	50-300	18.5	8.64	6.93
2YA1860	1800×6000	2	5-80	400	50-350	22	10.8	7.52
3YA1860	1800×6000	3	5-80	400	50-350	22	10.8	7.72
4YA1860	1800×6000	4	5-80	400	50-350	22	10.8	8.70
2YA2160	2100×6000	2	5-100	400	100-500	30	12.6	10.2
3YA2160	2100×6000	3	5-100	400	100-500	30	12.6	10.5
4YA2160	2100×6000	4	5-100	400	100-500	30	12.6	10.8
2YA2460	2400×6000	2	5-150	400	150-700	37	14.4	10.4
3YA2460	2400×6000	3	5-150	400	150-700	37	14.4	10.8

## How Vibrating Screen Works



Vibrating screen moves round. It has multi-layers and is of high efficiency. The eccentric shaft vibration exciter and partial block help to adjust amplitude. The material drops down along the long line. In screen grading, the material is separated mechanically on screen plates. Rolling bearings in vibrating screens are stressed by high, mostly shock-type loads. Moreover, the bearings, while rotating about their own axis, perform a circular, elliptical or linear vibrating motion. This results in high radial accelerations which additionally stress the bearings, and especially the cages, considerably. The operating speeds are usually very high. As a result, the bearing temperatures are up to 20 to 30 degrees Kelvin higher than in normal applications. In addition, considerable misalignments between the bearing locations and considerable shaft deflections have to be accommodated.

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