



## Vibrating Screen

The [Vibrating Screen](#) are used to separate materials into various sizes for further processing. Or for end use. Depending on our need. The material is separated by passing it through a vibrating “screen box” which has a number of different sized screens, or meshes, which the material falls through like a sieve, the material falls onto attached conveyors which stock pile the end products .



### How Vibrating Screen works?

[Vibrating screens](#) work on circular motion. The vibrating screens are mainly used in coal dressing, metallurgy, mine, power station, water conservancy project, building industry, light industry and chemical industry etc They are efficient screening machines for the classification of bulk material such as coal, minerals, coke etc There are 40 specifications for YK Series, of which the heavy duty type is for the classification of large size materials, while the Light duty type is for the middle and small size materials.

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.

## **How our circular vibrating screen operates ?**

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.

## **Structural Feature Of Vibrating Screen**

The circular [vibrating screen](#) consists of screen box, vibration exciter, supporting device, driving device and other parts and components, and its structure is given as attached drawing. This vibrating screen adopts two eccentric type vibration exciters. Universal joint drive shaft is adopted between two vibration exciters to connect and position of two vibration exciters is symmetrical fully. Vibration exciter is fixed on screen box by bolt through bearing seat; there are 8 metal helical springs between screen box and foundation for vibration isolation to eliminate vibration to ground arising from operation of equipment; screen box is equipped with screen mat used for screening materials, and advantages of such arrangement mode is: structure of vibration exciter is comparatively compact; bending moment in the middle of main shaft is very small; amplitude of vibration of screen grader can be adjusted through increasing or reducing the quantity of eccentric block.

The motor of such screen grader can be installed on the right and left, please give an instruction when ordering to be convenient for your use.

Screen box is the biggest component of screen grader and consists of two side plates, supporting rack, crossbeam, buttress brace, etc; screen box is the main component to receive materials, transfer exciting force and graduate materials. To overcome the disadvantages of solid frame because of large materials and high welding stress, the screen box is connected by high strength bolt, with higher work efficiency and convenient manufacture and maintenance; screen surface adopts metal mesh weaved by high-quality wear resistant steel wire; the perforated plate and other new-type screen surface can be also adopted as required.



Middle bearing of vibration exciter adopts large-play single row cylindrical roller bearing and the bearing of this type can bear larger radial load can effectively lower temperature rise and extend operation life of vibration exciter.

## Technical Data Of Vibrating Screen

Models	Screen Spec (Mm)	Screen Deck	Screen Mesh (mm)	Feed size (mm)	Capacity (t/h)	Power (kw)
2YZS1548	4800x1500	2	5-50	<100	50-250	15
3YZS1548	4800x1500	3	5-50	<100	50-250	15
2YZS1848	4800x1800	2	5-50	<100	50-250	18.5
3YZS1848	4800x1800	3	5-50	<100	50-250	18.5
2YZS1860	6000x1800	2	4-40	<100	50-128	18.5
3YZS1860	6000x1800	3	4-40	<100	50-128	22
2YZS2160	6000x2100	2	5-50	<100	60-300	22
3YZS2160	6000x2100	3	5-50	<100	60-300	30

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