

Vibrating Screen



Vibrating Screen is a new type screener with the cycle-vibrating, multilayer and high efficiency. It adopts the eccentric shaft vibration exciter and partial block to adjust the amplitude. It features with credible structure, strong exciting force, high screening efficiency, low vibrating noise, convenient maintenance, safe operation.

Vibrating Screen is specialized for the quarries, and is widely used in industries, such as the mine, building materials, traffic, energy and chemistry. It has to use the water flush when dealing the high moisture materials with the small mesh.

Main Features:

Vibrating Screen features long flowing line, many screening specifications, strong violent vibration force, high screening efficiency, small vibrating noises, firm and durable construction, convenient maintenance and safe operation.

Working Principle

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.

Technical Parameter:

1. Parameters of machine body

Name	Unite	Specifications and technical parameters
Quantity of roller	pcs	4
Diameter of roller×height	mm	Φ410×210
Diameter of grinding ring×height	mm	Φ1300×210
Rotating speed of machine body	Rev/min	103
Max feeding size	mm	<30
Grain size of powder	mm	0.074—0.038
Production capacity	t/h	4—13
Total weight of machine body	t	18

2. System power

Name	Item	Unite	Specifications , technical data
Main motor	Model		Y280S-4
	Power	Kw	75
	Rotational speed	Rev/min	1480
Motor of classifier	Model		Y160L-4
	Power	Kw	15
	Rotational speed	Rev/min	1460(frequency control)
Motor of elevator	Model		Y100L2-4
	Power	Rev/min	3
	Rotational speed	Rev/min	1430
Motor of draught fan	Model		Y280M-4
	Power	Kw	90
	Rotational speed	Rev/min	1480
Motor of jaw crusher	Jaw c.rusher model		PE 250×400
	Motor model		Y180L-6
	Motor power	Kw	15
	Motor rotational speed	Rev/min	970
Vibration feeder	Model		GZ3F
	power	W	200