

## Vibrating Screen

◆ 3YA1848 vibrating screen is vibrated by the circling motion. The screen line of material is long and the screening specification is various. The screen of very specification is clear. It adopts the tubbish vibrator and eccentric adjustment, with the feature of strong vibration, high screening efficiency and small vibrating noise. This machine is durable, easy to maintain, safe to use. So it is widely used in mining, construction material, transportation, energy and chemical industry for classification.



### Main characteristic (Model: 3YA1848)

Screen mesh: 7.7m <sup>2</sup> *3	Screen specification: 1800*4800mm	Size of hole: 5-80mm
Feeding size: 100mm	Capacity: 30-75m <sup>3</sup> /h	Vibrating frequency: 970r/min
Double amplitude: 8mm	Model and power of motor: Y180L-4, 18.5kw	
Weight: 7100kg	Overall dimension: 5027*3100*3500mm	

## **Operating instruction**

The motor of the screening machine can be installed on the left or right. Please inform us when ordering.

This machine is made up of screening case, supporting device, vibrator and gearing. The tubbish vibrator is set up in the middle of the case. The vibrating force is changed by adjusting the eccentric block to adjust the amplitude. Bearing is lubricated by lubricating grease. The model of bearing is 3G3628Y. And SPC3150 high-efficiency triangle belt is used for transmission.

The screening surface is the main structure of the machine. It should use wire netting twisted by high grade and durable steel wire. The size of the hole controls the classified size.

This machine is supplied with whole set after being assembled by us. Customers should check and count the machine after receiving the machine to eliminate the disadvantage during the transportation.

Erectors should be familiar with structure, performance and technical requirement. They should make suitable installation rules.

There should be enough suspension setting. We should support the case with 120\*120 side's wood when lifting on and off to avoid distortion. In order to avoid distortion of screening frame and shatter of accessories, the machine can not be dragged on the ground.

The screen should be installed on the firm armoured concrete base. The height, intension and area should be calculated separately according to geology and usage. The machine also can be installed on the steel shelf. Installation measurement can refer to diagram.

The axis of the seat should be unanimous with that of spring bracket. There should be enough space under the base for the installation of transmission and maintenance of machine.

When installing feeding hopper and discharging valve, the clearance between feeding hopper and case should be larger than 40mm, also the discharging valve with the case. The upper and lower interval is larger than 80mm.

In order to reduce the impact caused by material, the fall should less than 200mm.

Before the test run, please check whether the installation of the spring bracket accords with requirement. Check the quantity of the spring being pressed down to make sure the height balance of the former, latter, left and right is less than 5mm. Fasten all the fastener. Inject lubricating grease into the bearing. Inch first before test run. Then do the non-load trial after conferring usual.

### **Precautions in the operation**

The machine should be grounded. The wire should be reliable and insulated. It should be installed in the snakeskin pipe. Cut off the electricity when overhauling.

Turn on the machine when it is non-loaded. Overload is prohibited. Turn off the machine when all material is screened and discharged. Do not adjust, clean; overhaul the machine when it is under the work.

Under the normal working condition, grease the bearing every 8 hours. The vibrator should use EL-3 lithium base grease for lubrication. Moreover do overall check on time every month, including whether fixed parts are fastened, side plate is spitted, crossbeam has crack. Also check the performance of spring, seal of vibrator, transmission belt and power supply.

### **Trouble and troubleshooting**

Trouble	Reason	Suggestion
The screen machine is unable to start or the vibration is not enough	1. The motor damages 2. The electric component damage 3. The voltage is insufficient 4. supplies pilling on the screen is too much 5. The vibrator breaks down 6. The lubricating grease is too thick. 7. The belt skids	1. Change the motor 2. Change the electric component 3. Change the power to supply 4. Clear up the supplies on the surface 5. Overhaul the vibrator 6. Wash the vibrator, upgrade or add the suitable lubricating grease 7. Make the belt tight
The flow of material runs unusually	1. The horizontal level of the case is not right 2. The rigidity of supporting spring are too different or the spring damage 3. The surface of the screen damages 4. Feeding is not balance 5. The bracket of the screen ruptured	1. Adjust the height of the bracket 2. Change the spring 3. Change the screen mesh 4. Operate proportionally, feed the material steadily 5. Change the bracket of screen mesh

There is unusual noise	<ol style="list-style-type: none"> <li>1. The bearing of vibrator damages</li> <li>2. The fastening bolts of the screen loose</li> <li>3. The bracket of the screen ruptured</li> <li>4. The bearing are damaged</li> </ol>	<ol style="list-style-type: none"> <li>1. Change the spring</li> <li>2. Fasten the bolt</li> <li>3. Change the bracket of the screen mesh</li> <li>4. Change the angle iron or underprop</li> </ol>
The temperature of bearing is high	<ol style="list-style-type: none"> <li>1. The lubricating grease is not enough</li> <li>2. The lubricating grease is too much</li> <li>3. The lubricating grease is dirty</li> <li>4. The bearing damages</li> </ol>	<ol style="list-style-type: none"> <li>1. Add lubricating grease</li> <li>2. Reduce lubricating grease</li> <li>3. Wash or change</li> <li>4. Change bearing</li> </ol>
The components, such as board crossbeam of side etc, are damaged	<ol style="list-style-type: none"> <li>1. The material are worn out seriously</li> <li>2. The time for work under critical frequency is too long</li> <li>3. Gas cutting or gas welding other accessories</li> </ol>	Try to protect it by rubdown or drill

### **Notice**

Remove or install vibrator by pushing and pressing. Don't use hammer to knock on. High strength bolt is fastened with torsion spanner or other methods.

M16 bolt screw strength on 250N. mm

M20 bolt screw strength on 550N. mm

Users can work out the operation regulation and safety regulation by themselves according to their own requirement.

### **Specification and performance of common screen**

Model	Lay er	Area	Size of hole	Specification	Feedin g size	Capacity	Frequency	Amplitude	Power	Weight	Overall dimension
YA1230	1	3.2	3-50	1200*3000	200	7.5-70	800-970	8	5.5	1.75	3073*2030*1611
2YA1230	2	3.2	3-50	1200*3000	200	7.5-80	800-970	8	5.5	2.34	3122*2030*2247
3YA1230	3	3.6	3-50	1200*3000	200	7.5-80	800-970	8	7.5	3.05	3122*2050*2700
2YA1542	2	5.7	5-50	1500*4200	400	50-208	970	8	15	5.33	4400*2610*2857
3YA1548	3	6.4	5-50	1500*4800	400	50-250	970	8	15	6.07	5650*2528*3400
3YA1848	3	7.7	5-80	1800*4800	400	50-300	970	8	18.5	6.93	5027*3100*3500
3YA1860	3	10.8	5-80	1800*6000	400	50-350	970	8	22	7.7	6200*3325*3593
2YA2160	2	11.5	5-100	2100*6000	400	100-500	730	8	30	9.24	6374*3821*3707
2YA2460	2	14.4	5-150	2400*6000	400	150-700	730	8	30	12.35	6374*4121*3707