

LZ series Sand Recycle Machine





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Luoyang Longzhong Heavy Machinery Co., Ltd is a high technology enterprise in Luoyang city, which is a professionally corporate enterprise that engaged in mine crushing machinery and , industrial grinding mill researching, development and manufacturing. The company is located in beautiful Luoyang, in the middle of China, which covers more than 50000 square meters with modern and professional technical team, equipped with advanced CAD computer aided design system and computer simulation test system. All of these good facilities keep our products in high quality.

Our main products are Crusher, Sand making machine (Vertical Shaft Impact Crusher), Vibrating Screen, Vibrating Feeder, Sand Washing Machine, Sand Recycling Machine, Belt conveyor, industrial mills etc. What' s more, the Sand Recycling Machine has been awarded the reputation of Luoyang high-tech achievements transformation project. We have become the main production and export base of Sand making and grinding mill machine.

LZ series sand recycling system has absorbed foreign advanced technology, and designed combined with sand field actual situation. It is widely used in mud purification, artificial sand production line, hydropower station, sand aggregate system, glass raw material processing system, coarse slime recovery, and recycle fine material. It can effectively reduce the loss amounts of fine material; solve problems of end product such as relatively high fineness modulus and relatively low stone powder content. The fine material can be recycled as high as 95%, with incomparable technical and economic advantages.





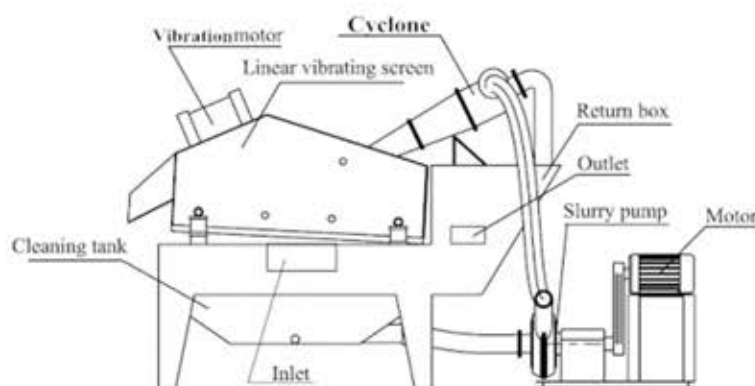
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● Features:

1. Recycling 0.16-3mm fine sand.
2. Recycling rate reaches above 95%.
3. The water content of final sand is within 12%-15%.
4. Effectively reduce the loss of fine sand, solve the problem of sedimentation tank accumulates.

● Working principle:

Through rubber pipes sand and water mixture is extracted from cleaning tank into slurry pump. The fine sand is collected by the centrifugal force of cyclone, then fed to the polyurethane screen from the apex spray. The 0.16-3mm fine sand and water are efficiently separated through the vibration screen. The waste water will flow back to the return box, through weld chute or pipes flowing to a settling pond.



The drawing is only for reference. According to different field situation, we design the inlet and outlet position. Inlet can be opened in either side of the cleaning tank, and outlet can be opened in either side of the return box.



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● Specification:

Model	Slurry Pump		Cyclone (mm)	Dewatering screen		Capacity(m ³ /h)	Weight (kg)
	Power(kw)	Material		Material	Power(kw)		
LZ250	11	Cr26	250	PU	2x0.75	40-60	2050
LZ300	15	Cr26	300	PU	2x0.75	60-80	2200
LZ350	18.5	Cr26	350	PU	2x0.75	80-100	2555
LZ-2-550	11×2	Cr26	550	PU	2x1.5	120-140	3250
LZ650	15×2	Cr26	650	PU	2x1.5	120-160	3945
LZ750	18.5×2	Cr26	750	PU	2x1.5	180-200	4900
LZ900	37	Cr26	900	PU	2x2.2	250-240	5650

● Installation and commissioning:

1.Installation

(1) The machine is supplied in full sets after being assembled by our factory ; users shall inspect the machine carefully after receiving it, which aims at avoiding the contingent collision damage during the process of transportation.

(2) The installer should be familiar with the product structure, performance and technical requirements, and formulate appropriate procedure of the installation technology in advance.

(3)The installation site must have plenty of lifting equipment to prevent screen frame from distorting and spare parts from being damaged, and the machine shall not be procrastinated on the ground.

(4) Fine sand recycle machine should be installed on a solid reinforced concrete basis; the basic height, strength and size can be calculated separately according to the local soil condition and use condition, this machine also can be installed on the steel-frame; the installation size can refer to foundation drawing.



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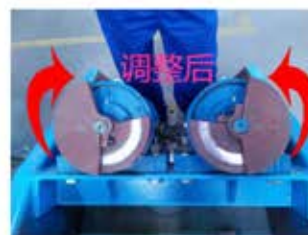
- (5) Place the 4 corners of equipment in strong reinforced concrete horizontally, error must be in the range of $\pm 2\text{mm}$.
- (6) Place the pump body in the foundation. Install valve, water inlet and cleaning trough in front of pump, discharging tube must be aligned and welded firmly, and ensure it won't leak, fasten the foot bolt after the second grouting.
- (7) Drainage hole should be lies in suitable position of returned water box (its cross section should greater than 3 times as large as water inlet).
- (8) All the motors should be waterproof, dust proof and ground connection.

2. Debugging and commissioning

- (1) Check whether the rubber spring on both sides is put in position before commissioning; inspect whether the slurry pump is working; check on whether the 2 sets vibration motor on the dewatering screen is relatively rotating (see chart); make sure the rubber pipe clamp is locked. All the fastening parts should be tighten and locked firmly again, ensure the bearing inner has been injected appropriate amount lubricating grease, commissioning must first possess inching, confirmed no abnormalities and then test without load.
- (2) Ensure the slurry pump type B belt has full adjustment tension force quantity, and that the two belt wheel corresponding grooves are one-to-one correspondence in their respective in-plane.
- (3) Adjusting the 2 vibrating motor eccentric block to the same scale when adjusting motor eccentric block, in addition rotary direction of the 2 motors should on the contrary. (shown in picture 2)



Before



After



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(4)Examining if the vibrating motor eccentric block is in the same scale or not or examining the spring support is consistent or not if dewatering screen is not stable, jump-amplitude is larger.

(5)Raising the discharge hole height or opening hole in feeding hole baffle makes redundant water flow into water tank.

(6)If the processing effect of separator is not good, change the underflow exit, ensure the discharging sharp is umbrella-shaped.

(7)Adjust returned water yield and balance the supply and demand on the situation that water shortage leads to water pump exhausted and can't provide reliable pressure, then causes the processing effect is not good.

● Safe operation and notes:

(1)Close down the equipment and examine if the equipment perform abnormally, cut off the power before examination.

(2)Electrical equipment should connect ground, electric wire should reliable insulation, and installed in flexible conduit.

(3)Starting the equipment in no-load condition, strictly prohibit to work overload, it is allowed to stop the equipment after the materials of washing tank all discharged, it is not allowed to adjust, wash or examine the equipment when it operates.

(4)Normally, adding lubricating grease each 8 hours, examining the equipment totally every month, examination content including the bolt fasten condition, if the side plate and beam breaks or not, the use condition of spring, condition of belt and the electric switch.

(5)Operators should have safe guard consciousness, ensure security work.

(6)Communicate with technicians if all of the above can't solve problems.

(7)If the equipment is not maintained properly by customer, this company will not undertake the responsible caused by user.



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● Part of the case:



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