

FXL螺旋洗砂机

FXL Spiral Sand Washer

设备简介 Equipment Introduction

FXL洗砂机转子采用中心结构，螺旋叶片安装在中心轴上，由减速器连接到中心轴上进行工作。借助固体颗粒的比重不同，因而在液体中沉降的速度不同的原理，进行机械分级的一种设备。用于建筑工地、砂石厂、预制厂及水电工地。大量用于砂石的脱泥、筛选作业，也可用于矿石选择作业。

The rotor of FXL sand washing machine adopts a central structure, the spiral blade is installed on the central shaft, and the reducer is connected to the central shaft for work. A device for mechanical classification by means of the principle that solid particles have different specific gravities and therefore different settling speeds in liquids. Used in construction sites, gravel plants, prefabrication plants, and hydropower sites. It is widely used in sand desilting and screening operations, and can also be used in ore selection operations.



工作原理 Working Principle

工作时，电机通过三角带、减速机、齿轮减速后带动叶轮缓慢转动，砂石由给料槽进入洗槽中，在叶轮的带动下翻滚并互相研磨，除去覆盖砂石表面的杂质，同时破坏包覆砂粒的水汽层，以利于脱水；同时加水，形成强大水流，及时将杂质及比重小的异物带走，并从溢出口洗槽排出，完成清洗作用。干净的砂石由叶片带走，最后砂石从旋转的叶轮倒入出料槽，完成砂石的清洗

When working, the motor reduces the speed of the impeller through the V-belt, reducer, and gear, and the impeller slowly rotates. The sand and stone enter the washing tank from the feed trough. The impeller drives the roller to roll and grind each other to remove the impurities covering the surface of the sand and destroy it. The water vapor layer coated with sand particles facilitates dehydration; at the same time, water is added to form a strong water flow, and impurities and small foreign bodies with a small specific gravity are promptly taken away and discharged from the overflow slot washing tank to complete the cleaning function. The clean gravel is taken away by the blades, and finally the gravel is poured from the rotating impeller into the discharge trough to complete the cleaning of the gravel.

- 1、洗砂机结构简单，性能稳定，叶轮转动轴承装置于水和受水物料隔离，大大避免了轴承因浸水、砂和污染物导致损坏的现象发生。
- 2、洗砂时，中细砂和石粉流失极少，所洗建筑砂级配和细度模数达到国家《建筑用砂》、《建筑用卵石、碎石》标准。该机除滤网外几乎无易损件。
- 3、菲尼克斯洗砂机采用新技术，结合国内外砂石行业实际情况研制的高效洗砂设备。该洗砂机具有洗净度高，结构合理，产量大，洗砂过程中砂子流失少，尤其是其传动部分均与水、砂隔离，故该洗砂机故障率大大低于目前常用洗砂机，是国内洗砂行业升级换代的合适选择。对于砂石生产线设备，洗砂机是必不可少的一项设备。
- 4、使用寿命长，极少情况下需要维修，因此可大大降低成本。

1. The sand washer has a simple structure and stable performance. The impeller rotating bearing device is isolated from water and water-receiving materials, which greatly avoids the damage of the bearing due to water immersion, sand and pollutants.
2. During sand washing, there is very little loss of medium and fine sand and stone powder. The grade and fineness modulus of the washed building sand meet the national standards for "construction sand", "construction pebbles and gravel". The machine removes the filter. There are almost no wearing parts outside.
3. Phoenix sand washing machine adopts new technology, combined with the actual situation of sand and stone industry at home and abroad to develop efficient sand washing equipment. The sand washing machine has high washing degree, reasonable structure and large output. There is little sand loss during the sand washing process, especially the transmission part is isolated from water and sand. Therefore, the failure rate of this sand washing machine is much lower than that of the commonly used sand washing machine. It is an upgrade of the domestic sand washing industry. Suitable choice of generation. For sand and gravel production line equipment, sand washing machine is an indispensable piece of equipment.
4. It has a long service life and needs to be repaired in rare cases, so it can greatly reduce costs.

技术参数 Technical Parameters

型号 Model	FXL-915	F2XL-915	FXL-1115	F2XL-1115
螺旋体直径 (mm) Spiral diameter	915	915	1115	1115
水槽长度 (mm) Length of sink	7585	7585	9782	9782
给料尺寸 (mm) Feed size	≤ 10	≤ 10	≤ 10	≤ 10
处理能力 (t/h) Processing capacity	100	200	175	350
转速 (r/min) Speed	21	21	17	17
电机功率 (kw) Motor power	11	2*11	15	2*15
耗水量 (t/h) Water consumption	10-80	20-160	20-150	40-300
外形尺寸 (mm) Shape size	8500*2810*3600	8420*3760*396	1078*3980*4170	10970*5250*4720
重量 (t) Weight	6.27	11.11	10.18	17.94

注：生产能力是基于物料抗压强度为140MPa-160MPa，水分不大于4%，物料的松散度1.6t/m³，给料均匀，电机功率在额定功率85-90%条件下得出。

Note: The production capacity is based on the material's compressive strength being 140MPa-160MPa, the moisture content is not more than 4%, the material's looseness is 1.6t / m³, the feeding is uniform, and the motor power is obtained under the condition of the nominal power 85-90%.