

设备特点 Features

FKT脱水筛

FKT Dewatering Screen

设备简介 Equipment Introduction

脱水振动筛采用双电机自同步技术，通用型偏心块、可调振幅振动器。主要由筛箱、激振器、支承系统及电机组成。通过胶带联轴分别驱动两个互不联系的振动器作同步反向运转，两组偏心质量产生的离心力沿振动方向的分力叠加，反向离心抵消，从而形成单一的沿振动方向的激振力，使筛箱作往复直线运动。

The dewatering vibrating screen adopts dual motor self-synchronization technology, universal eccentric block and adjustable amplitude vibrator. It is mainly composed of screen box, vibration exciter, support system and motor. Two unconnected vibrators are driven by the tape coupling shaft to perform synchronous reverse operation. The centrifugal force generated by the two sets of eccentric masses is superimposed on the component of the vibration direction, and the reverse centrifugal force cancels out, thereby forming a single excitation vibration Force to make the screen box reciprocate linearly.



工作原理 Working Principle

泵浆砂水混合物输送至泥砂高压分离器，离心分级浓缩的尾沙经沉砂嘴提供给脱水筛，经脱水筛脱水后，尾沙与水有效分离，少量尾沙、泥等经返料箱再回到清洗槽，清洗槽液面过高时，经出料口排出。脱水筛回收物料重量浓度为70%~85%。调节细度模数可以通过改变泵转速、改变砂浆浓度、调节溢流水量、更换出砂浆嘴来实现。从而完成清洗、脱水和分级三种功能。

The pump-sand-sand-water mixture is transported to the mud sand high-pressure separator. The centrifugal graded concentrated tail sand is supplied to the dewatering screen through the grit nozzle. After dewatering through the dewatering screen, the tail sand is effectively separated from the water. Back to the cleaning tank, when the liquid level of the cleaning tank is too high, it will be discharged through the discharge port. The weight concentration of the materials recovered by the dewatering screen is 70%~85%. The fineness modulus can be adjusted by changing the pump speed, changing the mortar concentration, adjusting the overflow water volume, and replacing the mortar nozzle. So as to complete the three functions of cleaning, dehydration and classification.

1. 采用防水变频专用电机，双电机驱动自同步技术，实现快速脱水效果。
2. 投入小，流程简单，占地小等特点，便于系统工艺布置。
3. 连续干排作业，适合多种脱水需求，24小时连续干排作业。
4. 处理能力大，V型筛面设计，-5° 过筛面爬坡脱水，干排尾矿含水低、效率高。
5. 高耐磨筛板使用寿命长，模块化组装设计，更换方便，节约成本，筛孔尺寸可选择。
6. 结构强度高，耐用。无内应力、强度高、质轻耐用的机架主体。

1. Adopt a special motor with waterproof and suitable frequency, and dual motor drive self-synchronization technology to achieve rapid dehydration effect.
2. Features such as small investment, simple process and small footprint, which are convenient for system process layout.
3. Continuous dry row operation, suitable for various dehydration needs, 24 hours continuous dry row operation.
4. Large processing capacity, V-shaped screen surface design, -5° screen surface climbing and dewatering, dry tailings tailings with low water content and high efficiency.
5. High wear-resistant screen plate has long service life, modular assembly design, easy replacement, cost saving, and screen hole size can be selected.
6. High structural strength and durability. Rack body without internal stress, high strength, light weight and durability.

技术参数 Technical Parameters

| 型号 Type | 筛面斜角(°) Sieve angle | 常用筛孔尺寸(mm) Common mesh size | 入料量(t/h) Feed amount | 动力源耗能(kw) Power source energy consumption | 激振器型号 Exciter model | 参考总重(t) Total weight |
|------------|------------------------|--------------------------------|-------------------------|--|------------------------|-------------------------|
| FKT1036 | -5~-3 | 0.3~0.6 | 10~35 | 2 × 1.1 | 2 × YZO-20-4 | 3.8 |
| FKT1236 | -5~-3 | | 18~65 | 2 × 2.4 | 2 × YZO-30-4 | 4.5 |
| FKT1536 | -5~-3 | | 30~90 | 2 × 3.1 | 2 × YZO-40-6 | 5.7 |
| FKT1838 | -5~-3 | | 40~120 | 2 × 5.5 | 4 × 39-6 | 6.6 |
| FKT2138 | -3~0 | | 60~150 | 2 × 7.5 | 4 × 45-6 | 8.2 |
| FKT2538 | -3~0 | | 80~200 | 2 × 11 | 4 × 64-6 | 11 |

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%.