

FYK圆振动筛

FYK Round Vibrating Screen

工作原理 Working Principle

圆振动筛筛机主要有筛箱、筛网、振动器、减振弹簧装置、底架等组成。筛机侧板采用优质钢板制作而成，侧板与横梁、激振器底座采用高强度螺栓或环槽铆钉连接，采用筒体式偏心轴激振器及偏块调节振幅。振动器安装在筛箱侧板上，并由电动机通过三角皮带带动使激振器偏心块产生高速旋转，产生很大的离心惯性力，激发筛箱产生一定振幅的圆运动，筛上物料在倾斜的筛面上受到筛箱传给冲量而产生连续的抛掷运动，物料与筛面相遇的过程中使小于筛孔的颗粒透筛，从而实现分级。

The circular vibrating screen machine is mainly composed of a screen box, a screen, a vibrator, a damping spring device, a bottom frame and so on. The side plate of the screen machine is made of high-quality steel plate. The side plate is connected with the beam and the base of the exciter by high-strength bolts or ring groove rivets. The cylinder-type eccentric shaft exciter and eccentric block are used to adjust the amplitude. The vibrator is installed on the side plate of the screen box, and driven by the motor through the V-belt to cause the eccentric block of the exciter to rotate at a high speed, generating a large centrifugal inertial force, exciting the screen box to produce a circular motion with a certain amplitude, and the material on the screen is inclined. The sieve surface is subjected to the impulse transmitted by the sieve box to produce a continuous throwing motion. When the material meets the sieve surface, the particles smaller than the sieve hole penetrate the sieve to achieve classification.



FYK系列振动筛按照力学原理设计的多层数、运动为圆周运动、高效新型的一款振动筛，且是专为矿山筛分物料设计的。同时也广泛应用于选煤、建材、电力、化工、铁路、交通、水泥等物料的分级筛分。

FYK Series Vibrating Screens are designed according to the principle of mechanics, the multi-layer number, the motion is circular motion, a new type of high-efficiency vibrating screen, and it is specially designed for mine screening materials. It is also widely used in the grading and screening of coal preparation, building materials, electric power, chemical industry, railway, transportation, cement and other materials.

- 1.结构新颖，技术先进，采用偏心块作为激振力，激振力强。
- 2.采用小振幅，高频率，大倾角结构，因此筛分效率高，处理量大、寿命长、电耗低、噪音小。
- 3.采用弹簧钢编织筛网或冲孔筛板，使用寿命长，不易堵孔；
- 4.采用轮胎联轴器，柔性连接，运转平稳。
- 5.稀油润滑确保轴承润滑始终处于最佳状态，从而彻底解决轴承发热等问题，使主轴轴承保持恒温，延长维护周期和使用寿命。

1. The structure is novel, the technology is advanced, the eccentric block is used as the excitation force, and the excitation force is strong.
2. Adopt small amplitude, high frequency and large inclination structure, so the screening efficiency is high, the processing capacity is large, the service life is long, the power consumption is low, and the noise is low.
3. Adopt spring steel braided screen or punching screen, which has long service life and is not easy to block holes;
4. Adopt tire coupling, flexible connection, stable operation.
5. Dilute oil lubrication ensures that the bearing lubrication is always in the best condition, thus thoroughly solving the problem of bearing heating and the like, keeping the spindle bearing at a constant temperature, and prolonging the maintenance cycle and service life.

▶ 技术参数 Technical Parameters

型号 Model	层数 Number of layers	筛面规格 Screen surface specifications (mm)	最大进料尺寸 Maximum feed size (mm)	处理能力 Processing power (t/h)	振动频率 Vibration frequency(HZ)	电机功率 Motor Power (kw)	重量 Weight (kg)	外形尺寸 Dimensions (mm)
F2YK-1230	2	1200*3000	100	7.5-80	16.2	5.5	2340	3900*1900*1000
F3YK-1230	3	1200*3000	100	7.5-80	16.2	7.5	3050	3900*1900*1500
F3YK-1548	3	1500*4800	200	30-200	13-16	15	6866	5906*2100*1900
F4YK-1548	4	1500*4800	200	30-250	13-16	18.5	7360	5906*2100*2150
F2YK-1854	2	1800*5400	250	50-300	16.2	18.5	6769	6509*2536*1810
F3YK-1854	3	1800*5400	250	50-300	16.2	22	8285	6509*2536*1910
F4YK-1854	4	1800*5400	250	50-300	16.2	30	9796	6509*2536*2250
F2YK-2160	2	2100*6000	250	100-400	16.2	30	9680	7150*2670*2120
F3YK-2160	3	2100*6000	250	100-400	16.2	30	10206	7150*2670*2270
F4YK-2160	4	2100*6000	250	100-400	16.2	37	11800	7150*2670*2650
F2YK-2460	2	2400*6000	300	150-600	16.2	30	80130	7150*2900*2120
F3YK-2460	3	2400*6000	300	150-600	16.2	30	12350	7150*2900*2350
F4YK-2460	4	2400*6000	300	150-600	16.2	37	13850	7150*2900*2680
F2YK-2475	2	2400*7500	300	200-650	16.2	22*2	12285	8491*3156*1613
F3YK-2475	3	2400*7500	300	200-650	16.2	22*2	14250	8491*3156*2163
F4YK-2475	4	2400*7500	300	200-650	16.2	22*2	15320	8491*3156*2713
F2YK-3072	2	3000*7200	350	200-800	16.2	22*2	14360	7991*3716*1613
F3YK-3072	3	3000*7200	350	200-800	16.2	30*2	15660	7991*3716*2163
F4YK-3072	4	3000*7200	350	200-800	16.2	30*2	16750	7991*3716*2713
F2YK-3680	2	3600*8000	350	300-1000	16.2	37*2	21560	8491*4556*1613
F3YK-3680	3	3600*8000	350	300-1000	16.2	37*2	23220	8491*4556*2163
F4YK-3680	4	3600*8000	350	300-1000	16.2	37*2	25630	8491*4556*2163

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，电机功率在标定功率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%.