

HFZ 系列气流分级机

Series HF Pneumatic Classifier

工作原理(Work Principle):

整套分级装置由气流分级机、旋风收集器、脉冲除尘器、高压引风机、电控柜等组成。气流分级机是带有二次进风及立式安装的大叶轮转子的强制型分级机。工作时物料在引风机引力的作用下由下筒身进入，外界一次风与物料充分混合，使粒子得以充分分散，并上升至分级区，由于分级叶轮转子的高速旋转，粒子即受到分级叶轮旋转产生的离心力，又受到引风机引力产生的向心力，当粒子受到的离心力大于向心力，分级径以上的粗粒子被甩到筒体内壁失速沿壁面下滑，外界二次风通过均匀分布在锥体上的进风口进入，对粗粒子进行产生风筛作用将混杂或粘附于粗料中的细粉分离干净，分离后的粗料由卸料装置收集排出分级机，分级径以下的细粉随气固二相流进入旋风收集器、脉冲除尘器收集下来，净化后的气体由引风机排出。



The classifying device is composed of pneumatic classifier, cyclone, collector, induced draft fan, control cabinet and so on. Equipped with second air inlet and vertical impeller rotor, the materials are fed in via the bottom roller under the force generated from the induced draft fan and then mixed with first input air to disperse particle and then brought to classifying zone. Owing to the high rotary speed of classifying rotor, the particles are under the centrifugal force produced by the classifying rotor and centripetal force generated from induced draft fan. When the centrifugal force is stronger than the centripetal force, the coarse particles fall down along inside roller. The second air is induced to sieve the coarse material and separate the fine powder that stick on or mixed with the coarse. After the coarse material is discharged from classifier, the over-milled powder are collected by the cyclone and pulse collector.

技术参数(Technical Parameter):

规格型号 Model	处理量 (入料量) (kg) Capacity (kg)	分级效率 (%) Classifying Efficiency	产品粒度 (um) Product Size	配套功率 (kW) Power (kW)
HFZ010	10- 50	70- 90	D ₉₇ =5- 50	7
HFZ020	50- 350			15- 19
HFZ050	100- 800			25- 30
HFZ100	300- 1500			41- 48
HFZ200	500- 4000			63- 73
HFZ400	2000- 8000			97- 120
HFZ600	3000- 12000			140- 169
HFZ800	5000- 16000			270
HFZ1200	8000- 30000			390

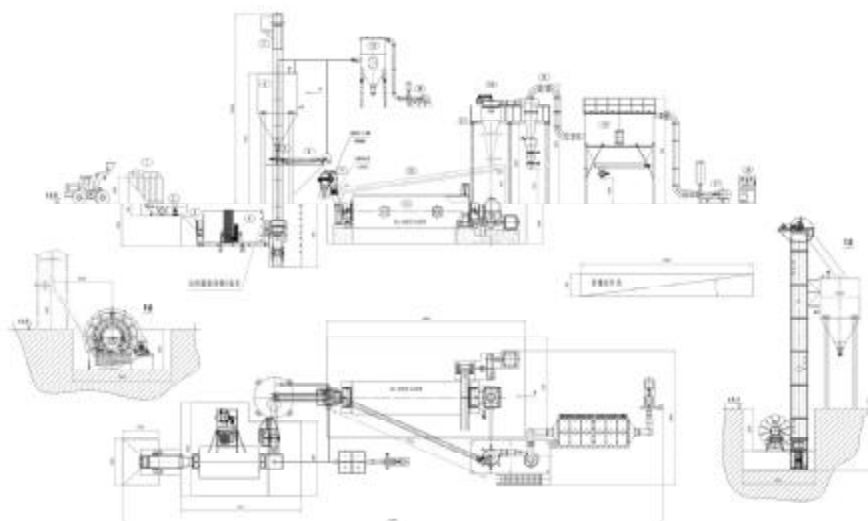
注：设备的处理量与物料性质及产品粒度要求有关。

Remarks: The processing capacity is relative to material and product size

主要特点(Characteristics):

- ◆ 分级机结构进行了特殊设计，几乎截止所有大颗粒，分级精度高、大颗粒控制严。
- ◆ 分级点通过分级叶轮转速和引风机风量自由调整，以取得所需产品，分级范围广。
- ◆ 采用低转速立式单叶轮分级结构，物料流场稳定，设备处理量大，分级效率高。
- ◆ 可采用多级串联结构，可同时分级出几个粒度段的产品，获得理想的粒度分布。
- ◆ With special design for classifying structure and its high classifying precision, it can block big granular strictly.
- ◆ To get the required product, you can adjust the rotary speed of classifying wheel and air inlet volume.
- ◆ Single vertical rotor with low speed, steady flow field, high efficiency and robust performance.
- ◆ With multi- series structure, it can get products with different size to meet requirements.

工艺流程图(Technological process chart):



- 1、料仓 (Hopper) 2、操作平台 (Operation Platform) 3、分级机 (Classifier) 4、旋风收集器 (Cyclone)
 5、脉冲除尘器 (Pulse Collector) 6、高压引风机 (Induced Draft Fan) 7、电控柜 (Control Cabinet)

结构原理图(Structure principle chart):

