

HSW 系列气流粉碎机

Series HSW Pneumatic Mill

工作原理 (Work Principle):

气流粉碎机与旋风分离器、除尘器、引风机组成一整套粉碎系统。压缩空气经过滤干燥后，通过拉瓦尔喷嘴高速喷射入粉碎腔，在多股高压气流的交汇点处物料被反复碰撞、磨擦、剪切而粉碎，粉碎后的物料在风机抽力作用下随上升气流运动至分级区，在高速旋转的分级涡轮产生的强大离心力作用下，使粗细物料分离，符合粒度要求的细颗粒通过分级轮进入旋风分离器和除尘器收集，粗颗粒下降至粉碎区继续粉碎。

Jet mill, with cyclone separator and draft fan, consists of crushing system. Compressed air after being dried is injected into crushing chamber quickly by the injection of valves. At connection points of many high-pressure air currents, feed materials are collided, rubbed and sheared repeatedly to powders. The crushed materials go into classifying chamber with uprising air flow, under the condition of lashing forces of draught fan. Under strong centrifugal forces of high-speed rotating turbo wheels, coarse and fine materials are separated.



Fine materials in line with size requirements go into cyclone separator and dusting filter through classifying wheels, while coarse materials fall down to crushing chamber to be crushed continuously

性能特点 (Characteristics):

- ◆ 适合于莫氏硬度 9 以下的各种物料的干法粉碎，尤其适合于高硬度、高纯度和高附加值物料的粉碎。
- ◆ 内含卧式分级装置，产品粒度 D97: 2 - 150 微米之间可调，粒形好，粒度分布窄。
- ◆ 低温无介质粉碎，尤其适合于热敏性、低熔点、含糖份及挥发性物料的粉碎。
- ◆ 粉碎过程主要依靠物料自身之间的碰撞来完成，有别于机械粉碎依靠刀片或锤头等对物料的冲击粉碎，因而设备耐磨损，产品纯度高。
 - ◆ 可与多级分级机串联使用，一次生产多个粒度段的产品。
 - ◆ 设备拆装清洗方便，内壁光滑无死角。
 - ◆ 整套系统密闭粉碎，粉尘少，噪音低，生产过程清洁环保。
 - ◆ 控制系统采用程序控制，操作简便。
- ◆ Suitable for materials with Mush' hardness < 9, especially, super-hard, super-pure and high extra-value materials.
 - ◆ Horizontal classifying installation. Particle size: D97: 2-150um, adjustable, good shape and narrow size distribution.
 - ◆ Low temperature, no medium rushing, especially for heat-sensitive, low-melting point, sugar-containing and volatilized materials.
 - ◆ Feed materials impact by themselves, different from others which use hammer and razor blades. Wear-resistance and high pure.
 - ◆ To connect multi-grades classifiers to produce different size distributions.
 - ◆ Easy to be dismantled, smooth inside wall.
 - ◆ Crushing in tight-air, no dusts, low noise and no pollution.
 - ◆ Programmable control system, easily operate

应用范围 (Application):

广泛应用于化工、矿物、冶金、磨料、陶瓷、耐火材料、医药、农药、食品、保健品、新材料等行业。微型气流粉碎机是科研院所等实验室用的必备工具。

Widely used for chemical, minerals, metallurgy, abrasive, ceramics, fire-proof material, medicines, pesticides, food, health supplies, and new materials industries. Micro-jet mill is the necessary tool for the laboratory of research institution.

技术参数 (Technical Parameter):

型号 Model	HSW03	HSW06	HSW10	HSW20	HSW40
入料粒度 mm Feed Size	< 3	< 3	< 3	< 3	< 3
产品粒度 d97:um Product Size	2 ~ 45	2 ~ 45	2 ~ 45	3 ~ 45	3 ~ 45
生产能力 kg/h Capacity	2 ~ 30	30 ~ 200	50 ~ 500	100 ~ 1000	200 ~ 2500
空气耗量 m ³ /min Air Consumption	3	6	10	20	40
空气压力 Mpa Air Pressure	0.7 ~ 1.0	0.7 ~ 1.0	0.7 ~ 1.0	0.7 ~ 1.0	0.7 ~ 1.0
装机功率 kW General Power	21.8	42.5	85	147	282

流程图 (Processing Chart):

