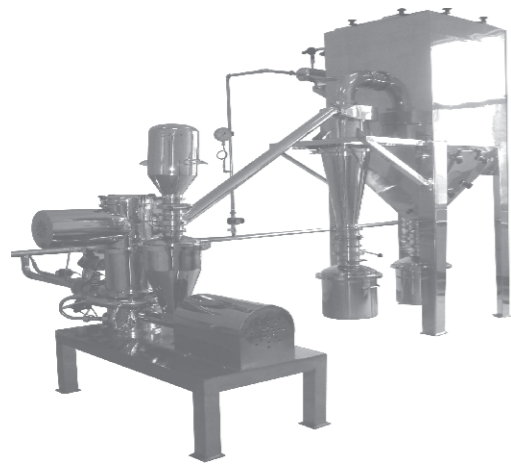


符合GMP要求的气流粉碎机组 Jet Mill unit certificated by GMP



工作原理

首先采用刀式粗碎机对中药原料初加工，然后进行二次冲击细碎，最终送入GMP气流粉碎机进行超细粉碎。物料在气流粉碎室内的数个喷嘴产生的高速气流冲击下，相互碰撞、相互摩擦、瞬间破裂，实现超细粉碎，通过内置分级机的分选，合格产品随气流排出，进入旋风分离器、除尘器收集，粗颗粒返回粉碎室继续粉碎，气体由引风机排出。

特点

- 适用于干式超细粉碎工艺，由于气流速度快，冲击力大，可生产出0.5~10微米的粉体颗粒。
 - 药物粉体在气流膨胀工况下粉碎，不会升温，适用于热敏性、低熔点、含糖份及有挥发性物料的超细粉碎。
 - 设备设计完全按照GMP 要求。
- 通过气源三级过滤（粗过滤、精密过滤、除菌过滤）、全系统密闭粉碎、材质选用、粉碎过程物料自身碰撞粉碎，以及采用特殊设计，杜绝油进入，实现粉碎物料和环境的无污染。
 - 采用国内首创、国际领先的自动化、智能化控制系统，实现精确控制粉碎过程，保证粒度分布窄、且均匀。
 - 设备结构简单，内、外壁光洁度高，无死角，易清洗。

适用范围

该机组适用于各种中药、西药、保健品、化妆品等物料的超细粉碎。

PRINCIPLE

The raw materials of traditional Chinese medicine are initially processed from the knife type coarse crusher, then followed by secondary impact and fine crushing, and finally fed into the jet mill for GMP micronized pulverization. The high-speed airflow impact arising from several nozzles in the pneumatic pulverizing chamber enables the materials to collide and abrade each other, fracture instantly and achieve the purpose of micronized pulverization. After being sorted from the classifier, the conformable products will be discharged with airflow and then fed into the cyclone separator and collected by the collector. The coarse particles are fed back to the coarse crusher for continuous pulverization and the gas will be exhausted from the induced draft fan.

FEATURES

- This unit is classified into two categories, normal temperature pulverization technology. The 0.5~10 micron powder particles (500~10,000nanometers) can be produced



as a result of extremely high airflow speed and tremendous impact force.

- Classifying devices are available inside the pulverizer, through which the coarse particles from the processing materials can be cyclically pulverized to produce finished products with uniform grain fineness and small range of particle diameters.
- This unit is so designed and structured under the appeal of GMP. The airflow is extremely pure with filtering process. Compact internal structure to perform the closed circuit milling. From raw materials to continuous production of finished products, the pulverization requires very short time but yields higher efficiency and continuous operation.

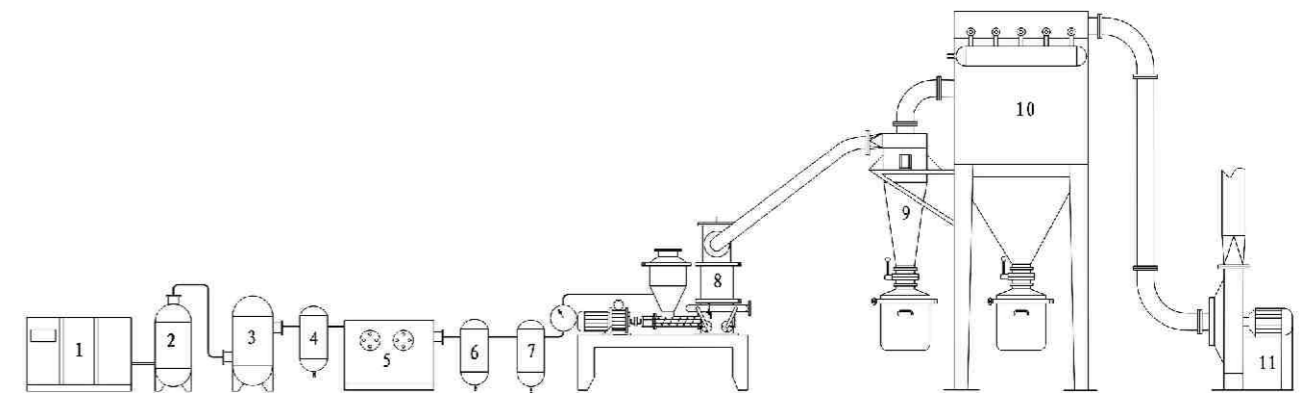
APPLICATON SCOPE

This unit applies to micronized pulverization of a wide variety of traditional Chinese medicines, western medicines, and health food.

符合GMP要求的气流粉碎机组主要参数 Major Technical Parameters of Jet Mill unit certificated by GMP

参数 Parameter	型号 Model	QYF-100	QYF-150	QYF-260	QYF-400	QYF-600
生产能力(kg/h) Capacity(kg/h)		0.5~10	5~100	50~200	80~380	200~500
空气耗量(m³/min) Air Consumption(m³/min)		2	3	6	10	20
工作压力(Mpa) Working Pressure(Mpa)		0.75~0.85	0.8~1.5	0.8~1.5	0.8~1.5	0.8~1.5
进料粒径(目) Feed Diameter(mesh)		100~325	60~120	60~120	60~120	60~120
粉碎细度(μm) Grinding Size(μm)		0.5~30	0.5~30	0.5~30	0.5~30	0.5~30
装机功率(kw) Energy Consumption Power(kw)		20	40	60	95	188

符合GMP要求的气流粉碎机组流程示意图 Flow Chart of Jet Mill unit certificated by GMP



- | | | | |
|-----------|----------------------|---------|-------------------------|
| 1、空气压缩机 | 1. Air compressor | 7、除菌过滤器 | 7. Sterilization filter |
| 2、贮气罐 | 2. Air storage tank | 8、气流粉碎机 | 8. Jet mill |
| 3、高效除油器 | 3. Oil remover | 9、旋风分离器 | 9. Cyclone separator |
| 4、粗过滤器 | 4. Rough filter | 10、除尘器 | 10. Dust collector |
| 5、空气冷冻干燥机 | 5. Air cooling drier | 11、引风机 | 11. Draught fan |
| 6、精密过滤器 | 6. Precise filter | | |