SCM 系列超细微粉磨

SCM Series Ultrafine Pulverizer

The Light Of Quality
And Civilization Shines The World!
SCM系列超细微粉磨
Product Overview

随着社会经济的快速发展，制粉行业对制粉细度的要求也在不断提高，普通球磨机（细度只能在200-325目之间），已经远远不能满足市场发展的需求。在这种情况下，我们公司推出了新型超细粉产品----SCM系列超细微粉磨。该系列产品是在现有单双层球磨机、煤粉磨基础上，吸收瑞典先进技术及经验后生产的一系列新型超细粉磨设备，产品细度可达数微米，产品细度可精确控制在325目～2500目间调节，产品粒度一次性可达D97<5um，属国内同类行业领先水平，并已取得国家专利。

Along with the rapid development of social economy, the requirements on pulverizing fineness by the clients from the pulverizing industry are also increasingly improved. General Raymond mill (its fineness can be only from 80 to 325 meshes) has been fairly unable to meet the demands of the market development. Therefore, our company has launched a groundbreaking product in the pulverizing field. SCM series ultrafine pulverizer. On the basis of years’ experience in the production, research and development of the pulverizer, the series main engines are new ultrafine pulverizing processing equipment targeted at the segmented market with absorption of Sweden advanced mechanical manufacturing technology and through repeated experiments and improvements, product fineness can be adjusted within a range from 325 to 2500 meshes and its disposable fineness can reach D97<5um which has ranked the leading level in the same trade and it has been approved the state patent.

适应范围
Adaptation Range

SCM超细微粉机是一种专业加工制造超微细粉的设备，常用于在制造、建筑、化工、金属矿冶、陶瓷、化工、食品、电子、医药、建材、纺织、机械等行业中使用。

SCM Ultrafine pulverizer is a specialized equipment for processing and manufacturing the fine powder and ultrafine powder which can be widely applied in Moils’ hardness 4 grade non-inflammable and non-explosive brittle materials, more than 100 kinds of materials such as calcite, chalk, limestone, dolomite, kaolin, bentonite, talc, mica, magnesite, feldspar, pyrophyllite, vermiculite, sepiolite, attapulgite, celestite, barite, plaster, akinite, graphite, flint, rock phosphate, potassium ore and pumice stone.

SCM系列超细微粉磨适用物料
SCM ultrafine pulverizer materials
**设备组成**

*Composition of Equipment*

SCM超细磨粉机标准配置包括主机、磨粉机、扩散式双旋风集尘器、脉冲布袋集尘器、高压风机、电机、管道和消声器，可选设备包括储料、振动机、给料机、电控柜。

The standard configuration of SCM ultrafine pulverizer includes main mill, powder classifier, cyclone powder collector, pulse dust collector, high-voltage blower, electric motor, pipeline and silencer, and optional equipments include hammer crusher, bucket elevator, feeder and electric control cabinet.

**工作原理**

*Working Principle*

主机电机通过主机减速机将动力输入至主轴通过带动各层转盘旋转，转盘通过柱销带动三层环板（部分型号是四层环板）在磨环滚道内滚动

Each rotary table at each layer is driven by the electric motor through inputting power into the main shaft by the speed reducer of the main engine. Three layers’ ring roller rolls [some SCM models are with 4 layers] and rotates in the roller path of the grinding rings.

**图例**

*Schematic Diagram of Pulverizer System*

- 1. 烟气出口 (Outlet)
- 2. 进料口 (Inlet)
- 3. 旋转体 (Rotating Body)
- 4. 管道 (Pipeline)
- 5. 机架 (Frame)
- 6. 风机 (Fan)
- 7. 进料口 (Inlet)
- 8. 出风口 (Outlet)
- 9. 储料机 (Storage Bin)
- 10. 磨机 (Mill)
- 11. 旋风分离器 (Cyclone Separator)
- 12. 主机电机 (Main Motor of Main Engine)
- 13. 电机 (Motor)
- 14. 底座 (Base)
大块物料经颚式破碎机破碎后由提升机送入磨粉仓，电磁振动给料机将物料通过进料口均匀地落到上转盘的中心。

Big blocks of material are fed into the storage bin by the elevator after being crushed into tiny particles by the hammer crushter and then materials are uniformly fed into the middle part of the upper rotary table through the feed port by an electromagnetic vibrating feeder.

材料在离心力的作用下沿圆周偏离，并落入磨环的滚道内被环形冲压，滚道，滚筒内粉碎，物料经第一段粉碎后落入第二段及第三段进一步粉碎。

Material are scattered to the circum of the circle under the action of centrifugal force and fall into the roller path of the grinding rings and then punched, pressed, ground and crushed by the rolling mill and materials will afterwards fall into the second and third layers to be further crushed through after the first layer crushing.

高压离心风机将外部空气送入机舱内，将经过三级粉碎后的物料送入磨粉机内，选择结构气动的风箱使不符合要求的粗粒碎物落入磨环槽，细粉在气流中被吹入磨环外并被其循环的物料流冲出，因此适应于带少量酸性粉尘的气流通过和热冲气等的净化后通过风扇和排风接出。

The high-voltage centrifugal fan aspirates external air into the machine cavity and feeds the materials through three layers crushing into the powder concentrator. The spinning turbine in the powder concentrator will make the non-conforming coarse particles fall back and re-grounded and the fine powder will become the finished products by entering into the whiteliflnd powder collector along with the airflow and via a discharge valve of its bottom while the airflow with few fine dust will be purified by the pulsed jet filter and discharged through the fan and silencer.

### 技术优势  Technical Advantages

#### 高产量，低能耗  
High Output and Low Energy Consumption

在成品率及电机功率相当的情况下，SCM超细磨粉机比气流磨与研磨机的产量高40%，比球磨机的产量高一倍以上。而其系统能耗仅为气流磨的三分之一。

Under the same finished product fineness and electromotor power, the capacity of SCM ultrafine pulverizer is 40% higher than that of a jet mill or a stirred mill and doubles the capacity of a ball mill while its system energy consumption is only one-third of jet mill.

#### 产品细度高  
High Fineness

产品细度可根据需要在325目-2500目任意调节，产品细度一次性可达D97<5um。

Product fineness can be arbitrary adjusted within a range from 325 to 2500 meshes and its disposable fineness can reach D97<5um.

#### 安全可靠  
Safe and Reliable

因磨腔内无激波磨头、磨筒等易损动部件，所以不存在轴套及其磨件损伤、磨筒转动损坏的问题。

The beathing and its sealing elements will not wear out easily and the bolts will not lose to make damages as there is no rolling beathing and bolts in the mill chamber.

磨体、磨环采用特殊材料制成，在物料及成品细度相当的情况下，比冲击式破碎机与流化床磨机的寿命长2-5倍，一般可达一年以上，加工碳硬铁、方解石时，使用寿命可达2-5年。

Grinding rollers and rings are forged by special materials and their service life is 2 to 5 times longer than the wearout parts of the Impulse-type breaker and the Turbine type pulverizer. Generally it can use over one year and even up to 2-5 years for processing calcium carbonate and calcite.
Heavy Rotor Design and Tight Test Method

The application of the pulsed jet filter and silencer has reduced the dust pollution and the noise at the construction site is very low in accordance with state standards.

Safe Operation and Low Operating Costs

<table>
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<tr>
<th>Type</th>
<th>Model</th>
<th>SCM 800</th>
<th>SCM 900</th>
<th>SCM 1000</th>
<th>SCM 1250</th>
<th>SCM 1680</th>
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<td>0.75×1 + 1.1×1</td>
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<td>1.1×3</td>
<td>1.5×2 + 0.75×2</td>
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Note: The above parameters are for reference only. For more configurations, please consult our sales staff.

注：以上参数仅为参考，如有更多配置，欢迎询价销售员。