



世邦工业科技集团股份有限公司
Shibang Industry & Technology Group CO., Ltd.



SCM 系列超细微粉磨

SCM Series Ultrafine Pulverizer

品质与文明之光闪耀世界

The Light Of Quality

And Civilization Shines The World!



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A WORLD-RENOWNED EQUIPMENT MANUFACTURER

享 誉 全 球 的 专 业 设 备 制 造 商

SCM系列超细微粉磨

产品概述

Product Overview

随着社会经济的快速前进，在制粉行业领域客户对制粉细度的要求也在不断提高。普通雷蒙机（细度只能在80-325目之间），已经远远不适应市场发展的需要。有鉴于此，我公司推出了磨粉领域的革新产品——SCM系列超细微粉磨。该系列主机是在积累了多年磨粉机生产、研发经验基础之上，吸纳瑞典先进的机械制造技术，并经过反复试验与改进，针对细分市场推出的一种新型超细粉加工设备。产品细度可根据需要在325目~2500目间调节，产品细度一次性可达 $D_{97} \leq 5\mu m$ ，稳居到国内同行业领先水平，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 ground-breaking 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 $D_{97} \leq 5\mu m$ 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超细磨粉机是一种专业加工制造细粉及超细粉的设备。能广泛适用于莫氏硬度<6级的非易燃易爆的脆性物料，如方解石、白垩、石灰石、白云石、高岭土、膨润土、滑石、云母、菱镁矿、伊利石、叶腊石、蛭石、海泡石、凹凸棒石、累托石、硅藻土、重晶石、石膏、明矾石、石墨、萤石、磷矿石、钾矿石、浮石等100余种物料。

SCM ultrafine pulverizer is a specialized equipment for processing and manufacturing the fine powder and ultrafine powder which can be widely applied in Mohs' hardness<6 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, illite, pyrophyllite, vermiculite, sepiolite, attapulgite, rectorite, kieselguhr, barite, plaster, alunite, graphite, fluorite, rock phosphate, potassium ore and pumice stone.



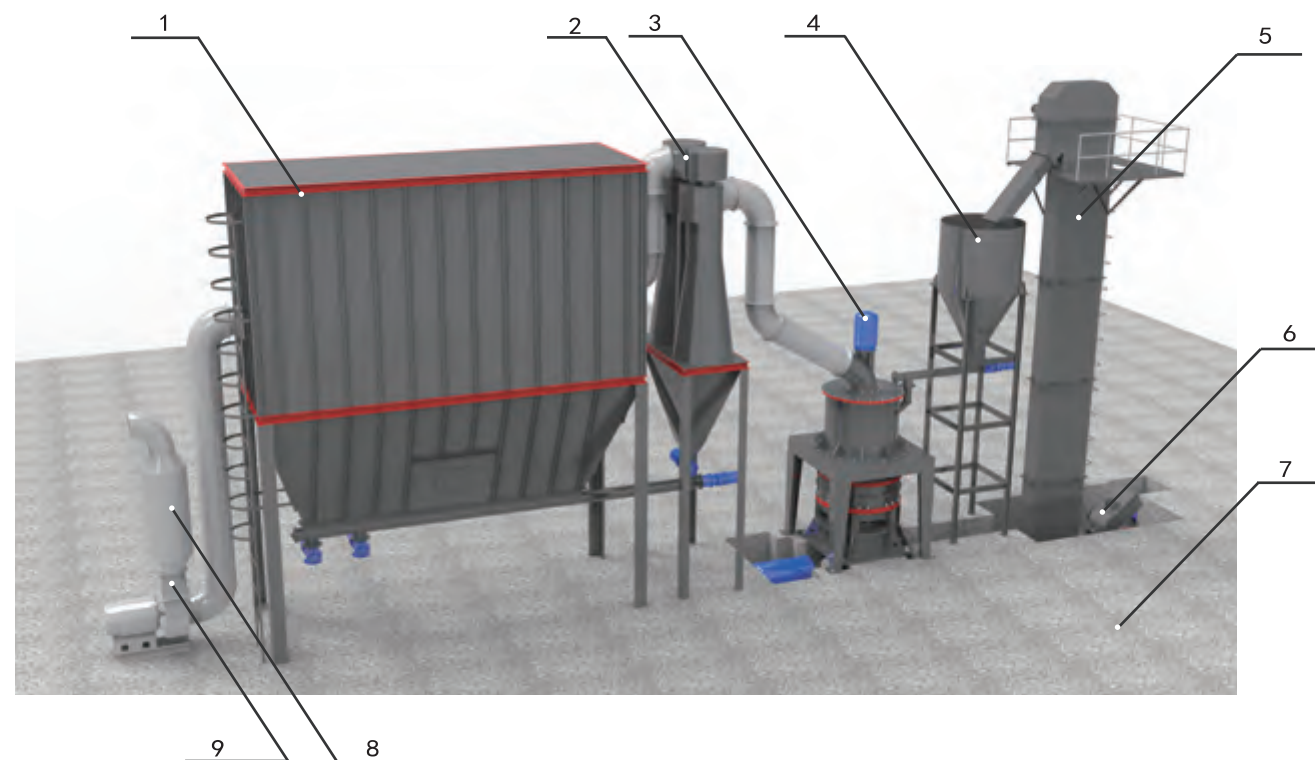
SCM系列超细微粉磨适用物料
SCM ultrafine pulverizer materials

设备组成

Composition of Equipment

SCM超细磨粉机标准配置包括主机、选粉机、扩散式双旋风集粉器、脉冲布袋除尘器、高压风机、电机、管道和消声器，可选设备包括锤破、提升机、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.



● 磨机系统示意图 Schematic Diagram of Pulverizer System

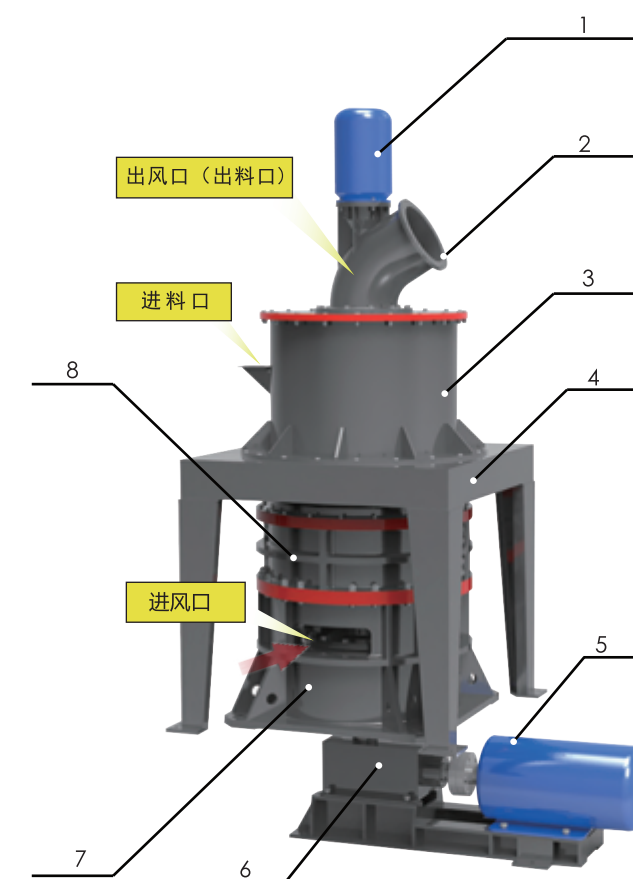
- | | |
|---------------------------|------------------------|
| ① 脉冲除尘器 Pulsed Jet Filter | ⑥ 锤式破碎机 Hammer Crusher |
| ② 集粉器 Powder Collector | ⑦ 地基 Foundation |
| ③ SCM主机 SCM Main Engine | ⑧ 消声器 Silencer |
| ④ 储料机 Storage Bin | ⑨ 风机 Fan |
| ⑤ 提升机 Hoister | |

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进而带动各层转盘旋转。转盘通过柱销带动三层环辊（部分型号是四层环辊）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.



机器部件示意图

Schematic Diagram of Machine Components

- | | |
|----------|-----------------------------|
| 出风口（出料口） | Air Outlet (Discharge Port) |
| 进料口 | Feed Port |
| 进风处 | Air Inlet |

- | | |
|--------------------------------------|--------------------------------------|
| ① 选粉机电机 Electric motor of classifier | ⑤ 主机电机 Electric motor of main engine |
| ② 选粉机上部 Upper part of classifier | ⑥ 主机减速机 Main engine speed reducer |
| ③ 选粉机下部 Lower part of classifier | ⑦ 下机体（机座） Bottom body (Engine base) |
| ④ 支架 Support | ⑧ 中机体 Middle body |

大块物料经锤式破碎机破碎成小颗粒后由提升机送入储料仓，电磁振动给料机将物料通过进料口均匀的送到上转盘的中部。

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



环辊示意图
Schematic Diagram of Ring Roller

物料在离心力的作用下散向圆周边，并落入磨环的滚道内被环辊冲压、滚碾、研磨而粉碎，物料经第一层粉碎后落入第二层及第三层进一步粉碎。

Materials 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, grinded 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.

高压离心风机抽吸外部空气进入机腔内，将经过三层粉碎后的物料送入选粉机内。选粉机内旋转的涡轮使不符合要求的粗颗粒物料回落重磨，细粉则随气流进入旋风集粉器并经其下部的卸料阀排出，即为成品，而带有少量细粉尘的气流则经过脉冲除尘器净化后通过风机和消声器排出。

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 nonconforming coarse particles fall back and re-grinded and the fine powder will become the finished products by entering into the whirlwind powder collector along with the airflow and via a discharge valve at 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



在成品细度及电动机功率相同的情况下。SCM超细磨粉机比气流磨与搅拌磨的产量高40%，比球磨机的产量则高一倍以上。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可在 325目~ 2500目间任意调节，产品细度一次性可达D97 ≤ 5um。

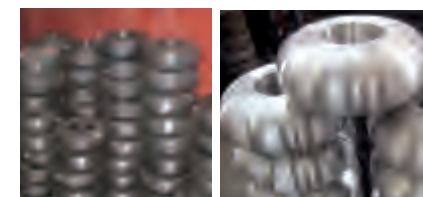
Product fineness can be arbitrary adjusted within a range from 325 to 2500 meshes and its disposable fineness can reach D97 ≤ 5um

安全可靠 Safe and Reliable



因磨腔内无滚动轴承、螺钉等易松动部件，所以不存在轴承及其密封件易损、螺钉松动毁坏机器等问题。

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



磨辊、磨环采用特殊材料锻制而成，在物料及成品细度相同的情况下，比冲击式破碎机与涡轮粉碎机的磨损件使用寿命长2-5倍。一般可达一年以上，加工碳酸钙、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.

清洁、环保

Heavy rotor design and tight test method

脉冲除尘器和消声器的应用降低了粉尘污染，施工现场噪声，符合国家标准。

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.



操作安全、运行成本低

Safe Operation and Low Operating Costs



技术参数

Technical Information

型号 Model	SCM 800	SCM 900	SCM1000	SCM1250	SCM1680
工作直径 Roller major diameter X height	φ800	φ900	φ1000	φ1250	φ1680
最大进料粒度(mm) Max. feed size	≤20	≤20	≤20	≤20	≤20
成品粒度(mm) Fineness of finished product (mesh)	325-2500	325-2500	325-2500	325-2500	325-2500
产量(t\h) Capacity (kg/h)	500-4500	800-6500	1000-8500	2500-14000	5000-25000

型号 Model		SCM800	SCM900	SCM1000	SCM1250	SCM1680
主机 Main unit	功率(kw) Power	75	45x2	132	185	315
分析机 Classifier	功率(kw) Power	18.5	18.5	30	75	18.5x5
鼓风机 Blower	功率(kw) Power	45	55	75	55x2	90x2
破碎机 Crusher	型号Model	PC400X600	PC400X600	PC400X600	PC600X800	PC600X800
	功率(kw) Power	18.5	18.5	18.5	45	45
提升机 Elevator	型号Model	TH-200	TH-200	TH-300	TH-300	TH-300
	功率(kw) Power	3	3	4	5.5	7.5
给料机 Feeder	型号Model	裙边皮带机 300x60 belt conveyor	裙边皮带机 300x60 belt conveyor	裙边皮带机 300x60 belt conveyor	裙边皮带机 400x80 belt conveyor	裙边皮带机 400x80 belt conveyor
	功率(kw) Power	1.5	1.5	1.5	1.5	2.2
出料螺旋输送机 Discharging screw conveyor	型号Model	LS219x4.5	LS219x5.8	LS219x6.9	LS219X5	LS273x8.6
	功率(kw) Power	3	3	4	3x2	5.5x2
卸料阀 Discharge valve	型号 Model	ZJD-200	ZJD-200 ZJD-250	ZJD-200 ZJD-250	ZJD-250	ZJD-300 ZJD-200
	功率(kw) Power	0.75×2	0.75×1+ 1.1×1	0.75×1+ 1.1×2	1.1×3	1.5×2+0.75×2
脉冲除尘器 Pulse dust collector	功率(kw) Power	DMC120	DMC160	DMC250	LDMC250×2	LDMC400×2
空压机 Air compressor	型号Model	KSH150D	KSH240D	KSH300D	KSH300Dx2	LG10/8
	功率(kw) Power	11	15	22	22x2	55

注：以上参数，仅供参考，如需更多配置，请咨询销售人员。
Note: The above parameters are for reference only; for more configurations, please consult our sales staff.

客户现场 *Customer Site*



客户现场 *Customer Site*

