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世邦机器 品质与文明之光闪耀世界  
Shibang Machinery, The light of quality and civilization shines the world

**SCM** 系列超细微粉磨  
Super-micro Mill





# SCM

系列超细微粉磨  
Super-micro Mill

## 产品概述

SCM系列超细微粉磨是在积累了多年磨粉机生产经验的基础上,吸纳了瑞典先进的机械制造技术,并经过多年的试验与改进而开发的一种新型超细粉加工设备。它是中瑞先进技术的结晶,是统领磨粉机世界潮流的最新产品。

## Brief Introduction

SCM Super-micro Mill is a new type of making micro powder machines through more than twenties times research and improvement, depending on two decades of hard work & experience and bringing in the latest mechanical techniques of Sweden. It is an incorporated one of the two countries and a leader of the grinding industry nowadays.



SCM8021型超细微粉磨  
SCM8021 Super-micro Mill

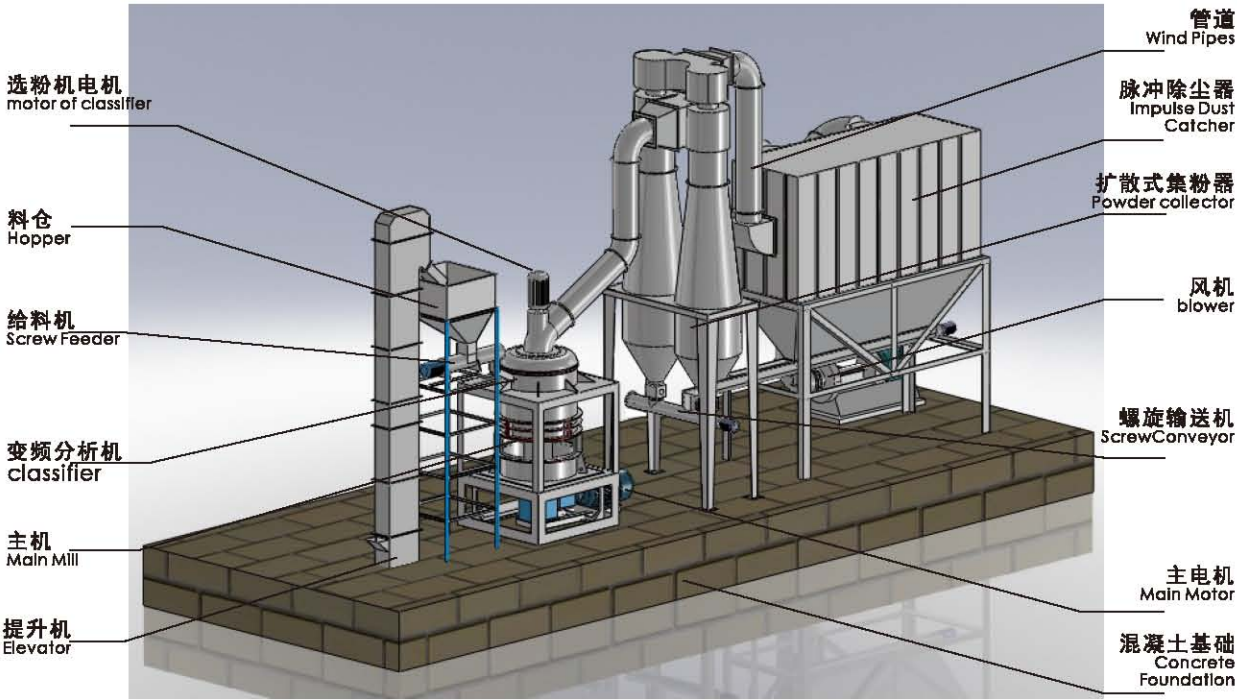


技术优势

- **高产量、低能耗**  
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%,而其系统能耗仅为气流磨的三分之一。
- **产品细度高**  
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。
- **安全可靠**  
因磨腔内无滚动轴承、无螺钉，所以不存在轴承及其密封件易损的问题，不存在螺钉易松动而毁坏机器的问题。
- **清洁、环保**  
脉冲除尘器和消声器的使用减轻了粉尘的污染和噪音，达到国家环保标准。

设备组成及结构

SCM超细磨粉机磨标准配置包括主机、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。



SCM超细磨粉机系统布置图  
Systematical arrangement chart of SCM Super-micro Mill

Technical Advantage

- **High capacity and low consumption**  
The capacity of SCM Super-micro Mill , compared with that of jet mill and mixing mill, has been improved by 40% under the same final fineness and power.
- **High fineness and flexible adjustment**  
The final fineness can be adjusted from 325 meshes to 2500 meshes according to requirements, and the fineness can reach D97≤5um.
- **Trustworthy security**  
There is no rolling bearing and bolt in the mill chamber, therefore, the bearing and sealing elements will not wear out easily, and the bolts will not loose to make damage to the equipment.
- **Clean and environmental friendly**  
Equipped with pulse filter and sound absorber, the mill reaches Environmental-protection Standard of our Country's and reduces dust and noise greatly.

Composition and Structure

The standard configuration of SCM Super-micro Mill consists of main unit, powder clifier, double cyclone collectors, pulsed filter, blower, motor, pipes ass and muffler. The optional accessories include jaw crusher, hammer crusher, elevator, feeder, and control cabinet.



适用范围

SCM超细磨粉机是一种细粉及超细粉的加工设备，主要适用于加工莫氏硬度<9级的非易燃易爆的脆性物料，如煤、云母、滑石、石墨、石英石、萤石、方解石、石灰石、白云石、高岭土、膨润土、伊利石、叶蜡石、重晶石、海泡石、钾长石、焦宝石、煤矸石等200余种物料。物料硬度的高低决定着磨损件寿命的长短，当莫氏硬度高于6级时，会降低磨损件寿命。

Application

SCM Super-micro Mill is widely used in making fine powder or micro powder, and the raw materials should be non-inflammable and nonexplosive under the Moh's hardness 9 gradesuch as coal, glist, talc, graphite, fluorite, calcite, limestone, dolomite, caoline, bentonite, illite, pyrophyllite, barite, meerschaum, calcite, dolomite,kaolin, bentonite, talc, illite, pyrophyllite, barite, meerschaum, potash ore, flint clay, coal gangue, etc. The lifetime of spare parts relies on the hardness of raw materials, and is lwered once the Moh's hardness is upper than 6 grade.





工作原理

主机电动机通过减速器带动主轴及各层转盘旋转，转盘通过柱销带动几十个环辊在磨环滚道内滚动并旋转。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均匀的送到上转盘的中部，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，高压离心风机的抽吸作用将外部空气吸入机内，并经过第三层粉碎后的粗粉带入选粉机内。选粉机内旋转的涡轮使粗颗粒物料回落重磨，细粉则随气流进入旋风集粉器并由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。

Working Principle

The main bearing and each dial are driven by electromotor of main machine through reducer, and numbers of roller which are rolling in the ring, which are driven by dial through plunger. After crushed by hammer crusher, the big materials become small size ones and they are sent to storage bin by elevator. The electromagnetic vibrating feeder will send them to the middle of first dial evenly, the materils will be driven to the edge of dial by centrifugal force, and descendaed , crushed and grinded by roller. Then the materials will descends into the second and third ring, and crushed and grinded. The high pressure centrifugal blower will inhale air from the outside and blow the materils which are grinded in the third ring to powder classifier. The rotatinag turbo in the powder concentrator will make the coarse materials return to the mill and reground, while the fill ix with the air and be drawn to the cyclone and be discharged neness wfrom mthe discharge valve which is in the bottom of it. The air which mixed with very little fineness will be purified by impulse duster and discharged by blower and muffler.



主要技术参数表 | Main Specification

项目Item \ 产品 product		SCM8012	SCM9024	SCM1027	SCM1036
名称 Name					
环辊数量	Number of roller(piece)	21	24	27	36
工作直径	Ring diameter(mm)	φ800	φ900	φ1000	φ1000
磨环及滚道数量	Number of ring (piece)	1×3	1×3	1×3	1×4
主机转速	Main equipment rotate speed	230	200	180	180
最大进料尺寸	Max.feed size (mm)	≤10	≤20	≤20	≤20
成品粒度	Final size (mesh)	325~2500	325~2500	325~2500	325~2500
产量	Capacity (kg/h)	400~5500	700~5500	900~6800	700~7500
外型尺寸	Overall dimension (m)	13×3×5.8	14.7×4.8×7.2	18×4×8.6	18×4.6×8.6

注：表中产量指粉磨石灰石，成品细度200目，通筛率为80%。  
Note: The output in the form refers to grind limestone to 80% pass 200 meshes.

规格、技术数据 \ 型号 Model		SCM8021	SCM9024	SCM1027	SCM1036
项目 Item					
主机电动机 Motor of main machine	型号 Model	Y250M-4	Y280S-8	Y315S-4	Y315S-4
	功率 power (kw)	55	37×2	110	110
分析机(调频电动机) Classifier frequency modulation motor	型号 Model	Y180M-4	Y180L-4	Y200L1-4	Y200L1-4
	功率 power (kw)	18.5	22	30	30
提升机电动机 Motor of elevator	型号 Model	Y100L-4	Y100L-4	Y100L-4	Y100L-4
	功率 power (kw)	3	3	3	3
鼓风机电机 Motor of blower	型号 Model	Y255M-2	Y255M-2	Y280M-2	Y280M-2
	功率 power (kw)	45	55	90	90
锤式破碎机 Hammer crusher	型号 Model	PC300×400	PC400×600	PC400×600	PC400×600
	功率 power (kw)	11	18.5	18.5	18.5
振动给料机 Motor of feeder	型号 Model	GZ1F	GZ1F	LS180X1050	LS180X1050
	功率 power (kw)	0.06	0.06	2.2	2.2
卸料阀 Discharge valve	型号 Model	ZJD-1：40	Y802-4-85	ZJD-1：40	ZJD-1：40
	功率 power (kw)	0.75	0.75×2	0.75	0.75
脉冲除尘器 Pulsed duster	型号 Model	DMC120-II型	DMC144-II型	DMC184-II型	DMC184-II型

注：各项参数及外形若有变更，恕不另行通知。  
Note: All the technical data are subject to change without prior notice.