

The process of civilization,
that is, the process of dividing

奔腾和谐的世界

Energetic and Harmonious Shibang



Hi-tech Grinding Mill Series

高新磨粉机械系列产品





To see the fine quality in Shibang

于细微处见品质

——世邦磨粉机械系列 SBM Grinding Mill Series



MTM中速T形磨粉机 MTM Medium Speed Trapezium Mill

MTM中速T形磨粉机是世界领先水平的工业磨粉机。该机采用梯形工作面、柔性连接、磨辊联动增压等多项磨粉机国家专利技术，完全克服了传统工业磨粉机在适用范围、产量、细度、能耗、使用寿命等方面的缺陷，是传统磨粉机的最理想替代产品。

MTM Medium Speed Trapezium Mill is a world leading level industrial mill. It adopts numbers of national patents of mill, such as trapezium working surface, flexible connection, roll linked pressure boost, etc. It has totally covered many defects of traditional mill, like application, capacity, fineness, energy consumption, service life, etc. and it is the ideal substitute of traditional mill.



SCM系列S微粉磨 SCM Series S Super-micro Mill

SCM系列S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20多次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近产品。

SCM Series S 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.



直通式离心磨粉机 Straight Centrifugal Grinding

直通式离心磨粉机是我公司为解决工业磨粉耗能高的技术难题，组织一流技术专家，经过多年潜心设计研制而开发出的高效率低能耗粉碎机。

Straight Centrifugal Grinding Mill is a high efficiency and low consumption mill, which is designed by our own engineers to solve the problems of high consumption of industrial mill.



充满活力的世邦 Energetic Shibang

上海世邦机器有限公司是专业从事矿山破碎机械和工业磨粉机械研发与制造的企业，也是国内主要的砂石、制粉机械生产和出口基地。

Shanghai Shibang Machinery Co., Ltd. is professional manufacturer of crushing and powder making equipment. It is a major production and export base of sand-stone and powder making machinery in China.

世邦拥有3万多平方米的生产基地和配套齐全的现代化金属切削设备，配备先进的CAD计算机辅助设计系统和模拟测试系统，并培养了一支专业的技术与服务队伍。

自成立起至今，公司已形成以破碎机、磨粉机系列产品为主，振动筛、给料机及配套设备为辅的完整产品链。产品涵盖磨粉、石料粉碎与制砂三大系列近20个品种。高技术含量、高可靠性、低使用维护成本，使我们的产品一直处于业界领先水平，并广泛应用于矿业和建筑业。

创新、卓越是世邦人不懈的追求，也是世邦机器的活力之源。我们将不断创造更好的产品与更优质的服务，为客户带来更多的价值。

Shanghai Shibang Machinery Co., Ltd. features advanced CAD and computer simulation test system with factory area of 30,000 square meters. It has formed a professional group both in technology and service.

Since establishment, Shibang has formed a complete production-chain that takes crushers and mills as the main products and vibrating screen, vibrating feeder, etc. as supplementary products, the products include: grinding mills, stone production line, sand making flow. High technological content, high reliability and low maintenance cost ensures our products stand at the leading place in the world and are widely applied in mine and construction industry.

Innovation and perfect is the endless pursuit of Shibang, and also the origin of Shibang's energy. Shibang will continue to manufacture better products and provide better service to bring customers more and more profits.

MTM中速T形磨粉机

MTM Medium Speed Trapezium Mill



产品概述

MTM中速T形磨粉机是我公司在多年研发工业磨粉机的基础上，引进世界一流的工业制粉技术，组织大量的技术专家和相关工程人员经过精心设计、试验和改进开发出的世界领先水平的工业磨粉机。该机采用梯形工作面、柔性连接、磨辊连动增压等多项磨粉机国家专利技术，完全克服了传统工业磨粉机在适用范围、产量、细度、能耗、使用寿命等方面的缺陷，是雷蒙磨、高压悬辊磨、球磨机等传统磨粉机的最理想替代产品。

该机型在设计中充分考虑脱硫制粉的需要，可与脱硫设备完美匹配，从而提高脱硫效率，成为国内外脱硫制粉的首选设备。目前该机型已广泛使用于电力、矿山、冶金、化工、建材、煤炭、耐火材料等行业，产生了巨大的经济和社会效益。

Brief Introduction

MTM Medium Speed Trapezium Mill is a world leading level industrial mill. It is designed by our engineers and technical workers, basing on many years industrial mill design, adopting world leading powder making technology. Our machine adopts numbers of national patents of mill, such as trapezium working surface, flexible connection, roll linked pressure boost, etc. It has totally covered many defects of traditional mill, like application, capacity, fineness, energy consumption, service life, etc and it is the ideal substitute of traditional mill, such as Raymond mill, high pressure suspension mill, ball mill, etc. Nowadays, it has been widely used in electric power industry, metallurgy industry, chemical, building, coal industry, fireproofing, etc. and it has achieved large economic benefits and social benefits.





技术优势

MTM中速T形磨粉机应用多项国家最新磨机专利技术，设计新颖、结构合理、占地面积小、电耗低、运行寿命长、且易损件造价低、性价比高。其各项技术性能均达到国际领先水平，与雷蒙磨、球磨机、高压悬辊磨等传统磨粉机相比具有六大技术优势：

■ 粉碎效率更高

该机将磨辊与磨环设计成阶梯状，降低了进入磨辊与磨环之间物料的下滑速度，延长了对物料的碾压时间，提高了粉碎效果。

■ 平稳减震，降低噪音

利用能起到平衡增压作用的加压弹簧以及能起到平稳减震作用的弹性联结。使装置的整体受力点和其它产品相比提高了40%左右；而弹性联结装置则减轻了振动和噪音，避免了共振。

■ 提高选粉精度

配备能提高选粉精度的高密度选粉机叶轮。在转速不变的情况下，提高叶片的密度可提高成品的细度，同等动力下成品产量提高50%以上。

■ 高效节能

配备高效节能离心引风机。传统磨粉机上配用的直叶片老式风机的效率仅为62%，而叶轮与叶片均为模具冲压成型的节能引风机的效率为85%。

■ 方便快捷

方便快捷的叶轮调整装置。选粉机叶片端部与壳体的间隙大小也影响成品细度，本项专利技术使得调整该间隙大小方便快捷。

■ 设计独特

独特设计向内倾斜的风道，确保进入进风窝壳内的物料能顺利地沿着斜面落入磨机内。

Technical Advantage

MTM Medium Speed Trapezium Mill has lots of matchless advantages, and it adopts numbers of newest national mill patents, and it has these characteristics: new designing, reasonable structure, smaller size, lower energy consumption, longer service life, and lower cost of easy worn parts, higher performance cost ratio, etc. All its technical performance has reached world leading level. Compared with Raymond mill, ball mill, and high pressure suspension mill etc, it has six technical advantages:

■ High crushing efficiency

The rollers and ring are designed in inverted trapezium, which can reduce the material's slip velocity between rollers and ring, extend grinding time, and enhance crushing efficiency.

■ Steady and reducing vibration

The press spring with balancing pressurized function and the forming resilient connection with steady and vibration reducing function have been adopted. Our machine adopts level principle. The symmetrical roller assembly is connected by horizontally placed spring rod. When the large material touches the roller assembly, to keep balance, the radial force may pass to the roller assembly which is plane of symmetry through spring rod. Under this condition, the whole device's bearing is improved by about 40% compared with that of others; the forming resilient connection can reduce the vibration and noise, and avoid resonance.

■ Improving capacity and fineness

The powder concentrator impeller enhances powder precision and high density product. Under uniform spindle speed, enhancing the density of impeller is to enhance the fineness of final products. Its capacity is improved more than 50%, under the same power.

■ High-efficiency and energy-saving

There is high-efficiency and energy-saving centrifugal induced draft fan. The efficiency of prismatic blade equipped on the traditional machine is only 62%, but the efficiency of the energy saving induced draft fan whose impeller and blades are both stamping is 85%.

■ Convenience

There is a convenient impeller adjusting device. The clearance between housing and end of powder concentrator's blade also effects fineness. This patent technology is convenient to adjust the clearance.

■ Uniqueness

Private intilted air course ensures that the materials in the girding chamber enter into the mill along the inclined plane.

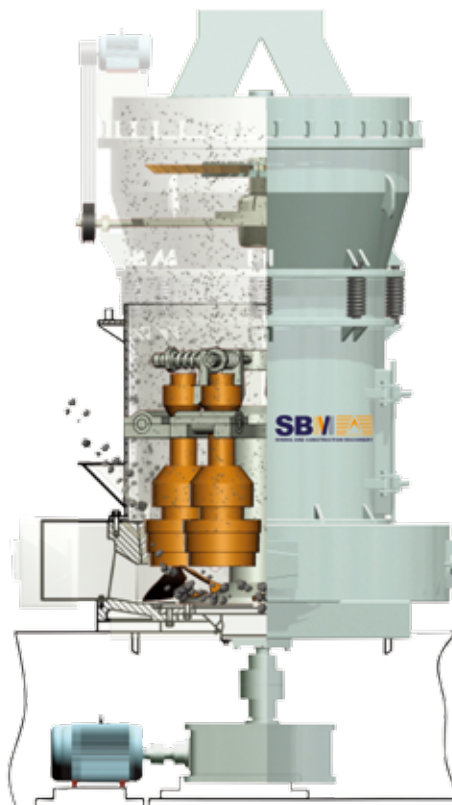


工作原理

MTM中速T形磨粉机主机工作过程是通过减速机带动中心轴转动，轴的上端连接着磨辊吊架，架上装有磨辊装置并形成摆动支点。磨辊装置不仅围绕中心轴回转，还围绕磨环公转，磨辊本身因摩擦作用而自转。磨辊吊架下装有铲刀系统，其位置处于磨辊下端，铲刀与磨辊同转过程中把物料抛起喂入磨辊与磨环之间，形成垫料层，该料层受磨辊旋转产生向外的离心力（即挤压力）碾压，达到制粉目的。

Working Principle

The entire cycle of events in the machine requires these steps: the speed reducer promotes the revolving of centering axis, there is a cinquefoil shelf connected on the top of the axis, and the roller device is equipped on the shelf and forms a swing pivot. The roller device not only rotates around the centering axis but also revolves around the ring, and the roller rotates itself because of rubbing action. There are shovel blades equipped bottom of the cinquefoil shelf. When shovel blades rotate with rollers, they throw up the materials and send them into the space between rollers and ring and then form a material bed, produced by the rotating of rollers. The material is crushed by the centrifugal force.



适用范围

主要适用于建材、化工、冶金、矿山、火电、煤炭等行业。粉磨莫氏硬度在9.3级以下，湿度在6%以下的各种非易燃易爆矿产物料，成品细度可在30~400目任意调节。例如水泥（生熟料）、煤、滑石、石膏、萤石、长石、石英、矿渣、石墨、矾矿、云母、方解石、石灰石、白云石、硅灰石、磷矿石、煤矸石、锆英砂、花岗岩、钾长石、大理石、重晶石、石油焦、铁矿石、焦宝石、硫酸钾、膨润土、钙镁磷肥、陶瓷、玻璃等千余种物料粉磨加工。

Application

It is mainly used into these areas, such as building, chemical, chemical fertilizer, metallurgy, mining, nonmetal, abrasive, bearing materials, ceramic, steel, thermal power, bricks & tiles, coal industry, etc. It can grind these materials whose Moth's hardness is below 9.3 grades, and moisture is below 6%, and they should be non-explosive and non-flammable mining materials. The final size can be adjusted between 30 to 400 meshes according to your requirements. There are thousands of materials our machine can grind, and here are some of them and they are just for you reference. They are cement (raw meal and cement clinker), coal, talc, gypsum, fluorite, feldspar, quartz, slag, graphite, aluminite, glist, calcite, limestone, dolomite, wollastonite, phosphate ore, coal gangue, zircon sand, granite, potash feldspar, marble, barite, petrol coke, ironstone, flint clay, potassium sulfate, bentonite, fused calcium-magnesium phos-phate, porcelain, glass, etc.



设备组成

MTM中速T形磨粉机标准配置包括主机、选粉机、减速机、风机、布袋除尘器、管道装置、旋风集粉器、电机等，可选设备有颚式破碎机、提升机、给料机、电控柜等。

Composition

The standard configuration of MTM Medium Speed Trapezium Mill consists of main unit, reducer, powder classifier, cyclone collectors, bag filter, blower, motor, and pipes. The optional accessories include jaw crusher, elevator, feeder, and control cabinet.

主要技术参数 Main Specification

表1 Table 1

产品 Product 技术参数 Technical parameters 名称 Name	MTM100	MTM130	MTM160	MTM190
磨辊数量 (个) Number of roller (piece)	4	5	6	6
磨辊大径×高度 (mm) Major diameter of roller×Height	Φ320×200	Φ400×240	Φ440×270	Φ540×280
磨环内径×高度 (mm) Internal diameter of ring×Height	Φ980×200	Φ1320×240	Φ1600×270	Φ1900×280
主机转速 (r/min) Main engine spindle speed	130	98	82	66
最大进料粒度 (mm) Maximum feeding grain size	<25	<30	<35	<40
成品粒度 (mm) Grain size of finished product	1.6~0.045 最细可达0.038	1.6~0.045 最细可达0.038	1.6~0.045 最细可达0.038	1.6~0.045 最细可达0.038
产量 (t/h) Output	3~8.8	6~13	13~22	18~35
外形尺寸 (mm) Overall dimension	9910×5365×8310	7910×7000×9645	12550×5700×8355	16000×9400×9300
总重 (t) Total weight	16	26.1	38	56.8

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.

表2 Table 2

名称 Name	项目 Item	单位 Unit	规格、技术数据 Specification and technical data			
			MTM100	MTM130	MTM160	MTM190
主机电动机 Motor of main machine	型号 Model		Y225M-4	Y280M-4	Y315M1-4	Y315L-4
	功率 Power	千瓦kw	45	90	132	200
	转速 Spindle speed	转/分 r/min	1480	1480	1480	1480
选粉机调速电动机 Motor of adjustable varying speed motor	型号 Model		YCT200-4A	YCT200-4B	YCT225-4A	YCT250-4A
	功率 Power	千瓦kw	5.5	7.5	11	18.5
	转速 Spindle speed	转/分 r/min	125~1250	125~1250	125~1250	130~1300
提升机电动机 Motor of elevator	型号 Model		Y100L2-4	Y100L2-4	Y112M-4	Y132M-4
	功率 Power	千瓦kw	3	3	4	7.5
	转速 Spindle speed	转/分 r/min	1420	1420	1420	1440
离心引风机电动机 Motor of blower	型号 Model		Y225S-4	Y280S-4	Y315S-4	Y315L-4
	功率 Power	千瓦kw	37	75	110	200
	转速 Spindle speed	转/分 r/min	1480	1480	1480	1480
颚式破碎机 Motor of jaw crusher	型号 Model	PE	200×350	250×400	250×750	250×1000
			Y160M-6	Y180L-6	Y200M-6	Y220M-6
	功率 Power	千瓦kw	7.5	15	22	30
电磁振动给料机 Electromagnetism Vibrating feeder	型号 Model		GZ1F	GZ2F	GZ3F	GZ3F
	功率 Power	瓦Watt	60	150	200	200

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.

SCM系列S微粉磨

Series S Super-micro Mill

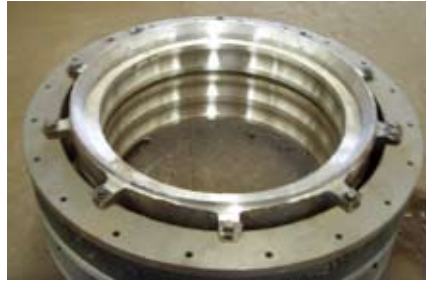


产品概述

SCM系列S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20多次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

Series S 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.



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系列S微粉磨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400目~2500目间任意调节，产品细度一次性可达 $D_{97} \leq 5\mu m$ 。

■ 安全可靠性强

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损坏机器的问题。

■ 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。

Technical Advantage

■ High capacity and low consumption

The capacity of SCM series s 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 $D_{97} \leq 5\mu m$.

■ 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.



工作原理

主机电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

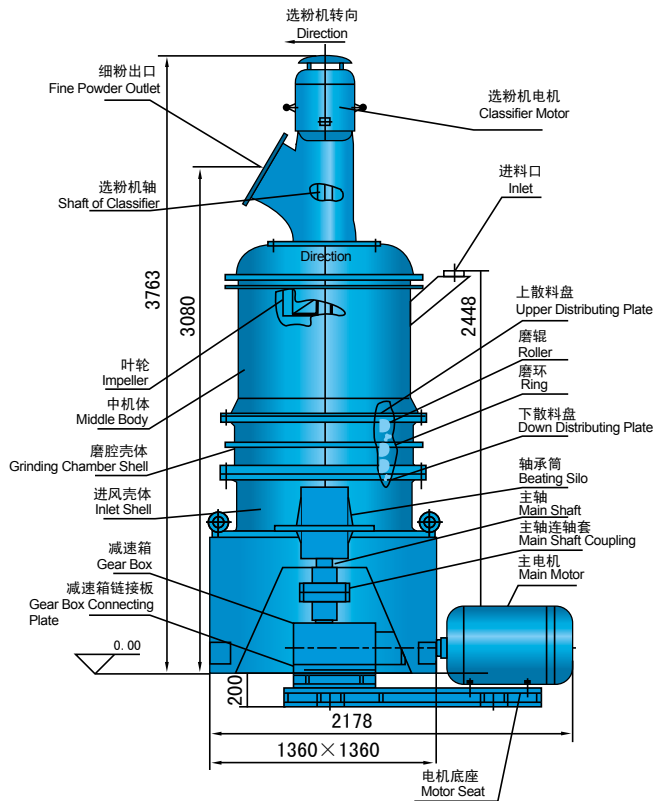
The main bearing and each dial are driven by electromotor of main machine through reducer, and numbers of roller which are rolling in the ring, which are driven by dial through plunger. After crushed by hammer crusher, the big materials become small size ones and they are sent to storage bin by elevator. The electromagnetic vibrating feeder will send them to the middle of first dial evenly, the materials will be driven to the edge of dial by centrifugal force, and descended, 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 materials which are grinded in the third ring to powder classifier. The rotating turbo in the powder classifier will make the coarse materials return to the mill and reground, while the fineness will mix with the air and be drawn to the cyclone and be discharged from the 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.

适用范围

SCM系列S微粉磨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、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、钾矿石、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，当莫氏硬度是4~6级时，会降低磨损件寿命。

Main Application

Series S Super-micro Mill is widely used in making fine powder or micro powder, and the raw materials should be non-inflammable and non-explosive under the Mohs hardness 9 gradesuch as coal, glist, talc, graphite, fluorite, calcite, limestone, dolomite, caoline, bentonite, illite, pyrophyllite, barite, meerscham, calcite, do lomite,kaolin, bentonite, talc, illite, pyrophyllite, barite, meerscham, potash ore, flint clay, coal gangue, etc. The lifetime of spare parts relies on the hardness of raw materials, and is lwered once the Mohs hardness is up to 4-6 grade.

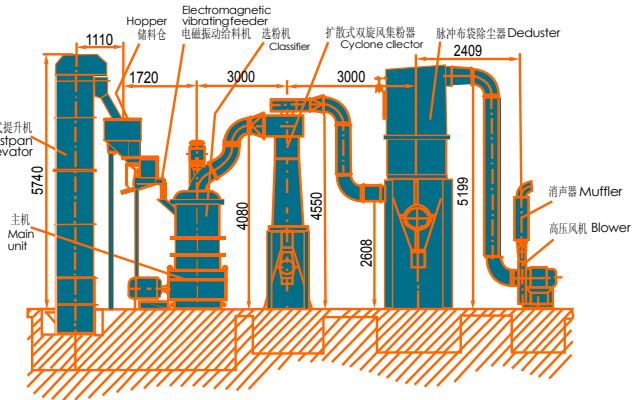


设备组成及结构

SCM系列S微粉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，可选设备包括颚式破碎机、锤破、提升机、给料机、电控柜。

Composition and Structure

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



主要技术参数 Main Specification

表1 Table 1

产品参数名称 Product Specification Name	SCM6015	SCM8021	SCM1027
环辊数量 (个) Number of roller (piece)	15	21	27
工作直径 (mm) Ring diameter (mm)	Φ600	Φ800	Φ1000
滚道环数量 (个) Number of ring (piece)	1	1	1
主机转速 (r/min) Main equipment rotate speed	235	235	235
最大进料粒度 (mm) Max. inlet size (mm)	≤10	≤10	≤10
成品粒度 (mm) Final size (mesh)	325~2500	325~2500	325~2500
产量 (kg/h) Capacity (kg/h)	325~2500	600~4000	900~6000
外形尺寸 (m) Overall size (m)	10×2.3×5.5	12.4×2.5×6.3	14.5×3.8×6.8

表2 Table 2

基本数据 Basic data	项目 Item	单位 Unit	规格、技术数据 Specification		
			SCM6015	SCM8021	SCM1027
主机电动机 Motor of main machine	型号 Model		Y225S-4	Y250M-4	Y280M-4
	功率 Power	千瓦kw	37	55	90
分析机 (调频电动机) Classifier Frequency modulation motor	型号 Model		Y160M-4	Y180M-4	Y200L-4
	功率 Power	千瓦kw	11	18.5	30
提升机电动机 Motor of elevator	型号 Model		Y100L-4	Y100L-4	Y100L-4
	功率 Power	千瓦kw	3	3	3
鼓风机电动机 Motor of blower	型号 Model		Y200L1-2	Y225M-2	Y280S-2
	功率 Power	千瓦kw	30	45	75
锤式破碎机 Hammer crusher	型号 Model		PC250×400	PC300×400	PC300×400
	功率 Power	千瓦kw	15	15	15
电磁振动给料机 Electromagnetism Vibrating feeder	型号 Model		GZ1F	GZ1F	GZ1F
	功率 Power	千瓦kw	0.06	0.06	0.15
卸料阀 Discharge valve	型号 Model		ZJD-1:40	ZJD-1:40	ZJD-1:40
	功率 Power	千瓦kw	0.75	0.75	1.1
脉冲除尘器 Pulsed duster	型号 Model		DMC72-II 型	DMC120-II 型	DMC160-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.

直通式离心磨粉机

Straight Centrifugal Grinding Mill



产品概述

该产品采用了新颖的粉磨原理、合理可靠的结构设计、高耐磨的合金材料并汲取了多种粉磨设备的技术精华，产品的各项性能指标远远超过了传统粉磨设备。该产品金属磨耗小、扬尘少、结构简单而坚固、操作维护非常简便，是工业磨机一次“革命性”的技术突破，可为用户带来较高的经济效益，真正实现了工业磨粉的高效低能耗，开创了工业制粉的新纪元。

Brief Introduction

Our mill adopts new grinding principle, scientific structure, hard bearing alloy materials and absorbs lots of essences of mill technology. Therefore all the performance indicators of our mill are over the traditional mills greatly. It has these characteristics: small metal wear, little dust, simple & firm structure and convenient maintenance. It is a kind of technical revolutionary in mill industry. Our mill can bring higher economic benefits to our customers and realize high efficiency and lower consumption. It is considered as the start of a new era of powder-making industry.

技术优势

直通式离心磨粉机采用新颖的辊压粉磨原理和科学的结构设计，汲取了多项预粉磨技术精华。同传统的辊式磨粉机、细碎机、辊压机、各类冲击式粉碎机相比具有显著的优势，真正实现了预粉技术的高效、节能、环保。

■ 设计新颖，结构合理

采用了中速中压反复碾压的原理，物料自上而下自由落入，粉磨高硬度、难加工材料时磨辊磨环上、中、下部获得同等程度磨损，产量比较均匀。巧妙设计，使得螺栓、铁块等非可磨性物料的进入不会对机器造成损害。不需要配备其它旋风分离器和管道，占地空间小。

■ 显著提高物料易磨性

该机所粉磨出的物料呈不规则的多菱形，且内部晶格已经破坏、组织结构松散，出磨物料大小颗粒均有微裂痕。这样的物料进行二次研磨时，减少了其破碎负担，功能已趋向于碾磨，因此，可以大大提高二次粉磨的产量。

■ 破碎比大，细粉含量高

大颗粒物料进入直通式离心磨粉机时，通过磨辊和衬板的凹凸齿，进行了轧臼式的粉碎而成细粒，掉入磨辊与衬板之间，形成料层。在弹簧装置的压力下，磨辊在料层上作数十次柔性挤压使物料成粉末，粉磨效果十分理想。产品的细度可调节，除了能产生大量小于100目的细粉外，还使物料颗粒受到多次碾压而产生大量微裂痕，且最大颗粒粒径可控制在5mm以下，更易于二次粉磨。

Technical Advantage

Straight Centrifugal Grinding Mill adopts new grinding principle and absorbs numbers of preparing grinding technology. Compared with traditional machines, such as roller mill, fine crusher, planishing device, kinds of impact mill, it has very remarkable advantages, such as new design, higher efficiency, low power consumption and compliance with environmental standards

■ New design and structure

Our mill runs at medium speed and pressure, and it also applies the principle of repeated planishing. The materials descends by the force of gravity. When our mills deal with objects of high strength and durability, all the parts of three rollers and rings will be worn evenly and the output of our mill is sustained too. Owing to this ingenious design, in the event of tramp iron entering the system, the machine is protected from any possible damage. Since the necessity of hanging a cyclone and connecting pipes is eliminated, the machine occupies a small area.

■ Improved output

After grinded by STM Vertical Mill, the physical characteristic of the materials is changed and improved greatly. The grinded materials become irregular multiple-unit, and their inside lattice have been broken already. As a result of this, when these material are ground again, the machine is employed in grinding rather than crushing. Thereby vastly it can improving the output of the second grinding cycle.

■ Large crash ratio and high fineness content

When big particles come into STM Vertical Mill, through sculptured rollers and plates, they are grinded into fineness size by rolling crush, which fall down into space between rollers and plates, and form a material bed. Under the spring device's pressure, rollers do numbers flexible extrusion to material bed and make them become powder. The fineness of final products can be adjusted. Other than producing large quantity fineness below 100 meshes, this mill also can generate large microfracture on material grains by numbers of grinding. The max-final diameter is below 5 mm, which is convenient for the second-time grinding.



■ 易损件寿命长，维修量少

直通式离心磨粉机对物料的碾压是料层的挤压，磨辊既公转又自转，避免了磨辊与衬板之间的直接碰撞，既提高了易损件寿命又最大限度地减少了物料加工过程中机械对加工粉体的污染。

■ 节能，环保

直通式离心磨粉机机械性能良好、操作简单、维护便利、能耗少、运行成本低、干湿法均可生产。设计合理，结构简单，安装简单方便，可节省土建投资；而且噪音低，扬尘少，具有很好的环保效果。

■ Long service life, low maintenance

Using both rotation and revolution to grind the particle bed, care is taken not to allow the rollers and plates to touch each other. Not only does this ensure longer life of wear parts, but it also prevents pollution in the process.

■ Energy-saving, environment-friendly

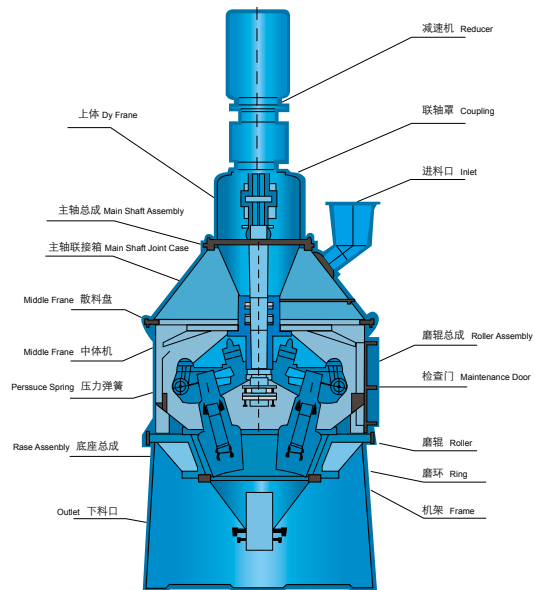
In summary, our machine has several superior features—good quality and durable mechanical and electrical component, ease of operation, ease of maintenance, lower consumption of both power and wear parts, improved output of grinding both wet and dry substance, compact design, a unique structure that is not only easy to install, but also minimizes the cost of intrastate, and finally, mitigation of both noise and air pollution.,

工作原理

安装在主机顶部的减速机，通过联轴器连接中心轴旋转，中心轴带动磨辊吊架旋转，磨辊装在吊架上沿磨环内周一起滚动。物料从机器上部侧面进料斗进入，分两路散落在同中心轴一起旋转的散料盘上，沿圆周通道均匀送入磨环和磨辊之间，被磨辊碾压碎后从下部排料口排出。

Working Principle

The speed reducer, which is installed upon the main machine, makes the central axis rotate through shaft coupling. The rollers, which are hanging on the hanger roll with the central axis, roll around the inside of the ring. The materials fall on to the dispersing materials plate through inlet in two ways, then they are driven to the spare between the rollers and the rings. After being grinded into the right size, they are discharged from the outlet at the bottom of the machine.



适用范围

该机广泛应用于建材、化工、冶金、矿山、钢铁、电力等行业，例如水泥（生熟料）、煤、石英、长石、方解石、石膏、滑石、矿渣、石灰石、白云石、磷矿石、煤矸石、锆英砂、花岗岩、钾长石、大理石、重晶石、焦宝石、陶瓷、玻璃等莫氏硬度9.5级以下的高、中、低硬度物料。尤其对高硬度、难加工物料有很好的粉磨效果。可加工成品细度：0~5mm，60~320目。可根据需要任意调节一次成粉。

Main Application

This mill can be widely used into building chemical, metallurgy, mining, steel and electric power, ect. It can grind high, middle and low hardness materials ,whose Mohs hardness is below 9.5 class, such as cement (raw meal and cement clinker), coal, quartz, feldspar, calcite, gypsum, talc, slag, limestone, dolomite, phosphate ore, coal gangue, zircon sand, granite, potash feldspar, marble, barite, flint clay, porcelain, glass, ect. Also its final size can be adjusted from 0 to 5 mm, or 60 to 320 meshes, according to requirements.



主要技术参数 Main Specification

型号 Model	进料粒度 Inlet Size (mm)	成品粒度 Final Size (mm)	处理量 Capacity (t/h)	主机功率 Power of Main Motor(kw)	外形尺寸 Overall Size(mm)
ZTM86	<Φ16	0~2.8	7~11	37	2500×1550×2760
ZTM125	<Φ25	0~2.8	15~55	90~110	Φ2300×5600
ZTM165	<Φ35	0~2.8	30~120	185~200	Φ3600×8200

注：成品粒度可通过改变处理量来调整。 Note: The final product size can be adjusted by changing capacity.

随着技术的发展，产品及数据将会有所变动，恕不另行通知，用户可向本公司查询。

We keep the right to revise the datum because of the technical development without any prior informing, please feel free to make an inquiry to our company.

上海世邦机器有限公司

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