

/ Z E N I T H I N T H E W O R L D /



XZM

系列中速微粉磨

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【中英V2P3-1841】

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Shanghai Zenith Minerals Co., Ltd.

XZM系列中速微粉磨

XZM Series Ultrafine Mill

产品简介 / *Brief Introduction*

XZM中速微粉磨是西芝公司研发部与技术部积二十余年工业磨粉机生产经验，吸纳了德国、日本等国内外粉体设备的技术精华，经过多次创新、测试、设计出的一种高效低耗超细粉加工设备，填补了国内外超微粉加工的空白，成功替代了传统的气流磨、球磨研磨选粉的复杂程序，大大降低了生产成本提高了产品精细度。经国内外数千家使用单位证明，该设备具有性能优越、品质稳定、操作简单、维修方便等优势，大大提高了品位和附加值，经济效益十分显著，是微粉加工的理想设备。

XZM Ultrafine Mill, is designed by our engineers and technicians on the basis of multiple innovation, test and experience over two decades, has absorbed many advantages of home and abroad mill manufacturing technique. It has been proved by thousand of customers that our machine has outstanding features and stable quality. Our mill can upgrade its production and the additional value which is suitable for our customers. It is the ideal equipment for fine milling.

使用范围 / *Application*

微粉磨广泛适用于各种能加工的脆性的、莫氏硬度在7级以下的非易燃易爆的物料如：石灰石、方解石、白云石、高岭土、斑脱土、云母、荃青石、重晶石、海泡石、萤石、碳酸钾等。

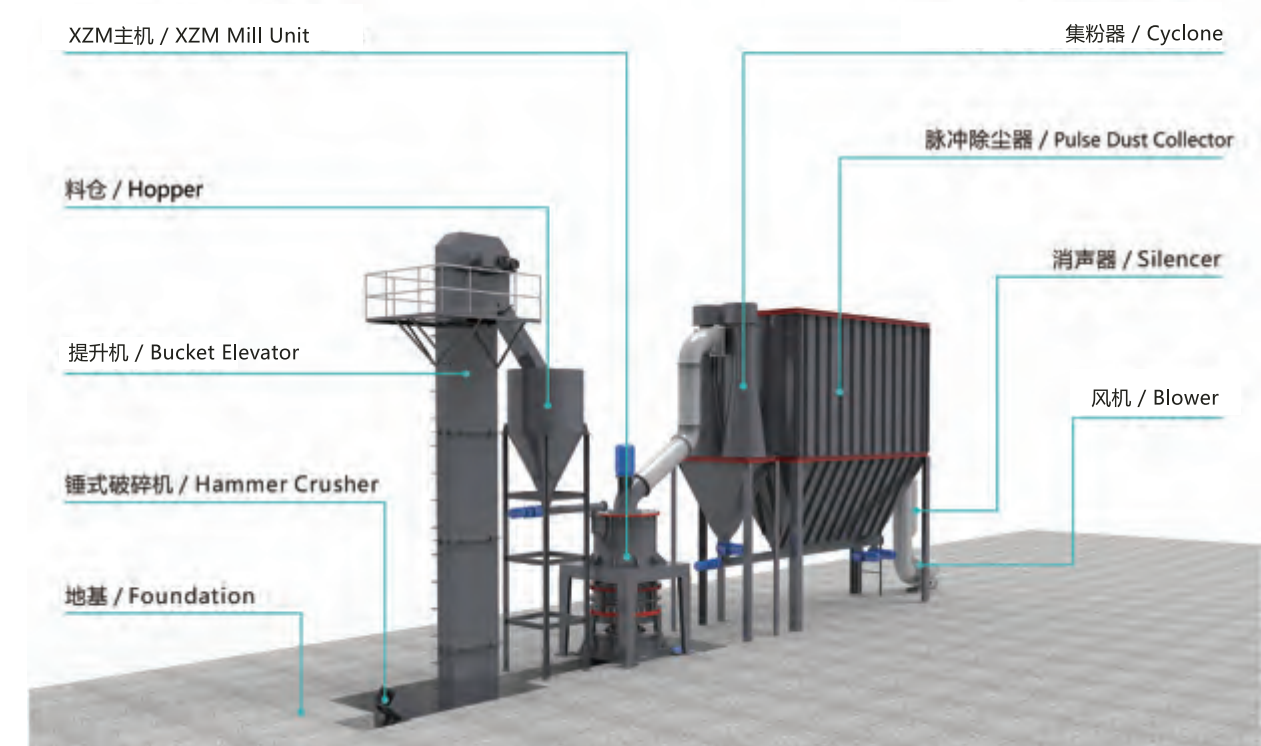
XZM Ultrafine Mill can be widely applied to various pulverizable brittle materials, which are non-inflammable, non-explosive and the Mos-hardness grade is under seven. Such as: limestone, calcite, dolomite, kaolin, grouper from soil, mica, cordierite, barite, sepiolite, fluorite and potassium carbonate etc.



成套设备组成 / *Composition*

主要包括主机、分析机、双旋风集粉器、脉冲过滤器、风机、电机、管道和消声器。可选设备有颚式破碎机，锤式破碎机、提升机、喂料机、空压机和电控柜。

The standard configuration of XZM ultrafine mill consists of main unit, powder classifier, double cyclone collectors, pulse filter, blower, motors, pipes and muffler. The optional accessories include jaw crusher, hammer crusher, elevator, feeder, and control cabinet.



工作原理 / *Working Principle*

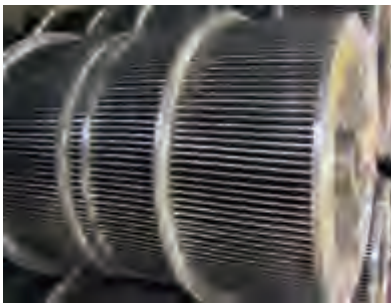
主机电动机通过减速器带动主轴及各层转盘旋转，转盘通过柱销带动几十个环辊在磨环滚道内滚动旋转。大块物料经锤式破碎机破碎成小颗粒后由提升机送入储料仓，电磁振动给料机将物料均匀的送到上转盘的中部，物料在离心力的作用下散向圆周边，并落入磨环的滚道内被环辊冲压、滚碾、研磨而粉碎，物料经第一层粉碎后落入第二层及第三层，高压离心风机的抽吸作用将外部空气吸入机内，并经过第三层粉碎后的粗粉带入选粉机内。选粉机内旋转的涡轮使粗颗粒物料回落重磨细粉则随气流进入旋风集粉器并由其下部的卸料阀排出即成为成品，而带有少量细粉尘的气流则经过脉冲除尘器净化后通过风机和消声器排出。

The main bearing and each dial are driven by electromotor of main machine through reducer, and numbers of roller, which are rolling in the ring, are driven by dial through plunger. After crushed by hammer crusher, the big materials become small sizes 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 fall down into the ring and crushed, and then grinded by roller. The materials will fall down into the second and third ring, 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 concentrator will make the coarse materials return to the mill and reground, while the fineness will mix with the air and go into the cyclone and be discharged the discharge bin, which is at the bottom of it. The air, which mixed with very little fineness, will be purified by impulse duster and discharged by blower and muffler.

技术优势 / *Technical Advantages*

- 1.高效低耗:在各种能粉碎的脆性物料的粉碎中，成品细度相同的情况下，比气流磨、搅拌磨的产量提高40%，能耗降低30%。
- 2.先进的磨腔设计:该磨腔内无滚动轴承和螺栓，不存轴承及密封件磨损或螺栓脱落而造成停机及损坏磨机的问题。
- 3.高质量的研磨体:特种耐磨材料磨环和磨辊分别采用高密度的50SiMn和60Si2Mn材质，比一般材质使用寿命提高3-5倍。
- 更好的磨环和磨辊耐磨材质(GCr15SiMn)可供选择，俗称轴承钢，使用寿命更长。
- 4.可选择性选粉系统:单机头及多头头选粉机可供选择，优化配置，提高选粉效率。
- 5.可选择的PLC电控系统:触屏操控，更方便，安全的控制自动化程度更高。

- 1.High capacity and low consumption: Under same condition in milling various crushable brittle materials, XZM Ultrafine mill can increase 40% capacity and decrease 30% energy consumption,compared with traditional jet mill and mixing mill.
2. Advanced grinding cavity design: there are no rolling bearings and bolts in grinding cavity, so problems caused by bolts shedding or wear of bearings and seals will never happen.
3. High quality grinding media: special and high-density wear-resistan material, ring adopts 50SiMn and roller adopts 60Si2Mn, which serves lifetime is 3-5times than normal materials.Moreover, better materials (GCr15SiMn) can be provided, which isalso called "bearing steel" of even longer lifetime.
- 4.Optional solution of Single-head classifier and Multi-head classifiers,increasing the efficiency of powder-se-lecting.
- 5.Optional choice of PLC electrical control system: Touch-screen operation,which is more convenient and safe control, with higher automation degree.



技术参数表 / *Specitification Chart*

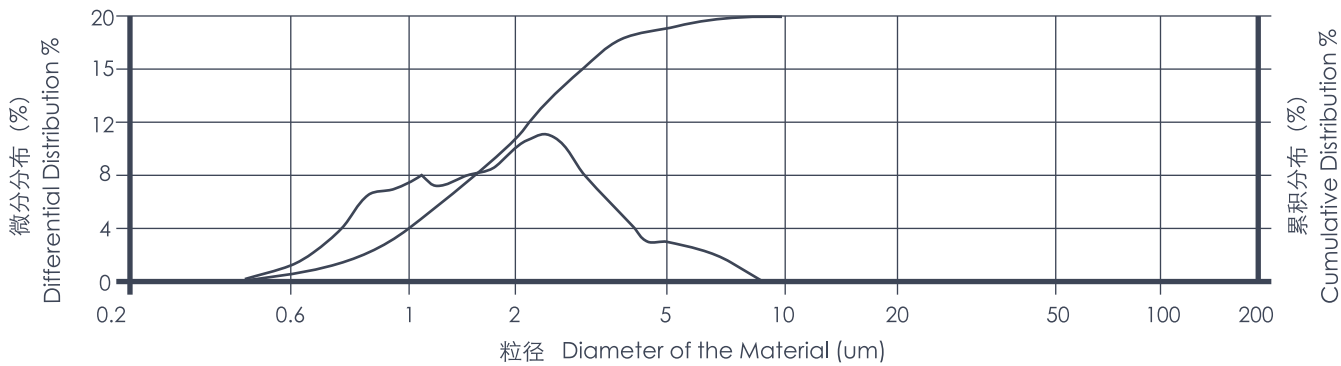
型号 Mode	XZM221	XZM224	XZM236	XZM244	XZM268
工作直径 Rolle major diameter X height	Φ800	Φ900	Φ1000	Φ1250	Φ1680
最大进料度 Max.feed size (mm)	≈20	≈20	≈20	≈20	≈20
成品粒度 Fineness of finishes product (mesh)	325-2500	325-2500	325-2500	325-2500	325-2500
产量 Capacity (Kg/h)	500-4500	800-6500	1000-8500	2500-14000	5000-25000

型号 Mode		XZM221	XZM224	XZM236	XZM244	XZM268
主机 Main unit	功率 Power	75	45x2	132	185	315
分析机 Classifier	功率 Power	18.5	30	37	75	132
鼓风机 Blower	功率 Power	45	55	75	110-132	200-220
破碎机 Crusher	型号 Mode	PC400X600	PC400X600	PC400X600	PC600X800	PC600X800
	功率 Power	18.5	18.5	18.5	45	45
提升机 Elevator	型号 Mode	TH-200	TH-200	TH-300	TH-300	TH-300
	功率 Power	3	3	4	5.5	7.5
给料机 Feeder	型号 Mode	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 Power	1.5	1.5	1.5	1.5	1.5
出料螺旋输送机 Discharging screw conveyor	型号 Mode	LS219x4.5	LS245x5.4	LS245x8	LS315x10	LS315x10
	功率 Power	3	4	5.5	7.5	7.5x2
卸料阀 Discharge valve	型号 Mode	ZJ D-200	ZJD-250	ZJD-250	ZJD-300	ZJD-300
	功率 Power	0.75 x 2	1.1	1.1	1.5	1.5 x 2
脉动除尘器 Pulse dust collector	功率 Power	DMC120	LDMC32-7	LDMC64-5	LDMC64-9	LDMC64-9*2
空压机 Air compressor	型号 Mode	KSH150D	KSH240D	KA30	LG 6.2/8	LG 10/8
	功率 Power	11	15	22	37	55

注:各项参数及外形若有变更，恕不另行通知。Note:Any change of technical data shall not be advised additionally.



粒度分布图 / Granularity Distributing Chart



粒度分布表 / Granularity Distributing Table

粒径 Dia.of Material(um)	微分分布 Differential Distributing(%)	累积分布 Cumulative Distributing(%)	粒径 Dia.of Material(um)	微分分布 Differential Distributing(%)	累积分布 Cumulative Distributing(%)	粒径 Dia.of Material(um)	微分分布 Differential Distributing(%)	累积分布 Cumulative Distributing(%)
0.20			2.12	10.84	60.50	22.4	0.00	100.00
0.24	0.00	0.00	2.50	10.96	71.46	26.5	0.00	100.00
0.28	0.00	0.00	2.96	9.66	81.11	31.3	0.00	100.00
0.33	0.02	0.02	3.51	7.45	88.56	37.1	0.00	100.00
0.39	0.14	0.16	4.15	3.99	92.55	43.9	0.00	100.00
0.46	0.57	0.73	4.91	3.10	95.66	52.0	0.00	100.00
0.55	1.32	2.06	5.81	2.32	97.98	61.5	0.00	100.00
0.65	2.94	4.99	6.88	1.31	99.28	72.8	0.00	100.00
0.77	5.69	10.68	8.14	0.54	99.82	86.1	0.00	100.00
0.91	6.86	17.54	9.64	0.18	100.00	101.9	0.00	100.00
1.08	7.68	25.22	11.41	0.00	100.00	120.6	1.00	100.00
1.28	7.38	32.60	13.50	0.00	100.00	142.8	1.00	100.00
1.51	8.08	40.08	15.98	0.00	100.00	169.0	1.00	100.00
1.79	8.98	49.66	18.91	0.00	100.00	200.0	1.00	100.00

注:表中数据基于碳酸钙研磨的测试结果。Note:All the data of the table are based on the analysis of calcium carbonate (CaCO₃) grinding



环境保护

Environmental protection

脉冲袋式除尘器是目前世界上较为先进的高效净化设备，它采用了先进的自吹式清尘技术，具有气体处理能力大、净化效果好、结构简单、维修量小等优点。我公司生产的Dmc60-160型脉冲除尘器、滤袋装置、脉冲阀和集成电路控制仪等均采用了著名的袋式除尘配件公司(GORE-SBFEC)的原件，具有吸尘程度高、可靠性强等特点不仅清尘效果好，而且延长了滤袋的使用寿命。

Pulse bag filter is high efficient purification equipment which is widely used in the world. We adopt advanced technology of automatic dedust. Bag filter spare parts of famous company (GORE-SBFEC) are equipped in pulse valve and integrated circuit controller. Simple structure,large air process capacity, fine purification effect and low maintenance cost are advantages of this equipment.

XZM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.

适应范围
Adaptation Range

技术支持

Technical Support

作为微粉生产商，他们不仅需要高质量的机器，更重要的是需要经济适用的设计方案、技术支持以及良好的售后服务，在购买机器之前，我们可以为客户进行模拟测试，提供机器选型建议；售后，根据客户需要我们可以提供一系列的服务比如安装、试机及技术人员培训。我们以诚信为本，服务客户在不断满足客户需要的基础上，不断创新开发出世界领先水平的先进设备。

As a fine powder producer, they need not only high quality machine, the most important, but also an economical appropriate solution and swift technical support as well as good after sales service. Before customer purchases the machine, we can provide customer with simulating test and equipment selection advice. After sales, we can also provide a series of service like installation, trial-run and training and so on as per customer's request. We commit ourselves to the mission to be an honest, straight-forward business, and faithful to our customers. Our mission is to achieve leadership position in the market by serving the needs of our customers in the innovative ways by being the best in everything we do.

