

Zenith Mill-high Quality and Reliability

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高品质高可靠性的西芝磨粉机



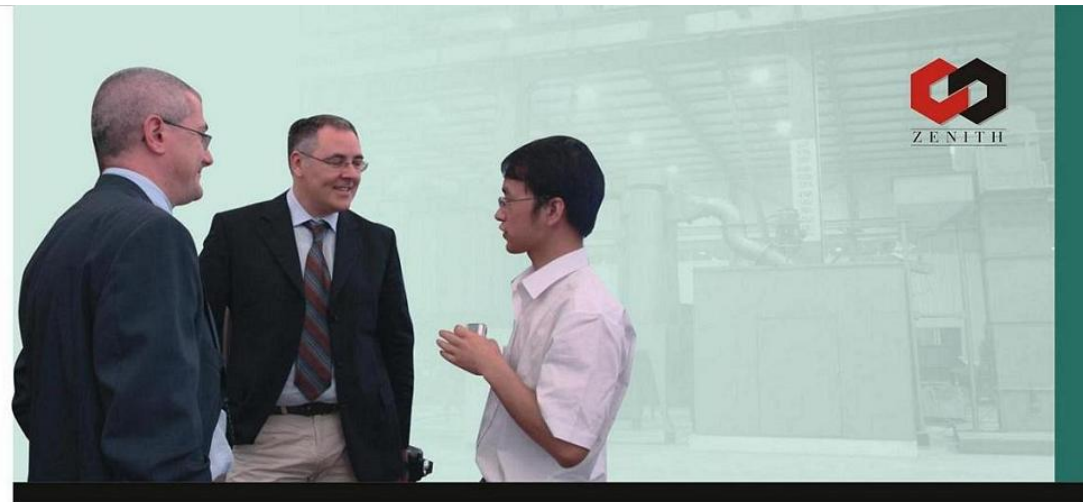
XZM
中速微粉磨

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Ultrafine Mill

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产品简介：

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加工专用设备，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。

Brief Introduction:

XZM Ultrafine Mill, which 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 customer to use. It is the ideal equipment for fine milling.

使用范围：

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、重晶石、重晶石、海泡石、萤石、碳酸钾等。

Application:

XZM Ultrafine Mill can be widely applied to various machining 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:

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。

Composition:

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

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。

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, are driven by dial through plunger. After crushed by hammer crusher, the big materials become small sizes 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 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:

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, 不存在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: 磨环、磨辊材质采用了高密度的60Si₂Mn, 特种耐磨材料, 比一般耐磨材质使用寿命提高3-5倍
4. 先进的智能变频调速装置: 使用该装置使加工出的粉体粒度更加均匀, 调节方便。
5. 细度调节范围广: 产品细度可在325目-2500目之间任意调节, 适用各行业及各种细度的客户需求。

Technical Advantages:

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: ring and roller use high-density 60Si₂Mn, these special wear-resistant materials serve 3-5 times longer than common materials.
4. Advanced intelligent speed control device: convenience adjusting, more uniform particle size.
5. Large range of fineness adjusting: product fineness can be controlled between 325-2500 meshes, which are applicable to all industries and fineness per customer needs.





XZM Ultrafine Mill



技术参数表 Specification Chart

表1 Table 1

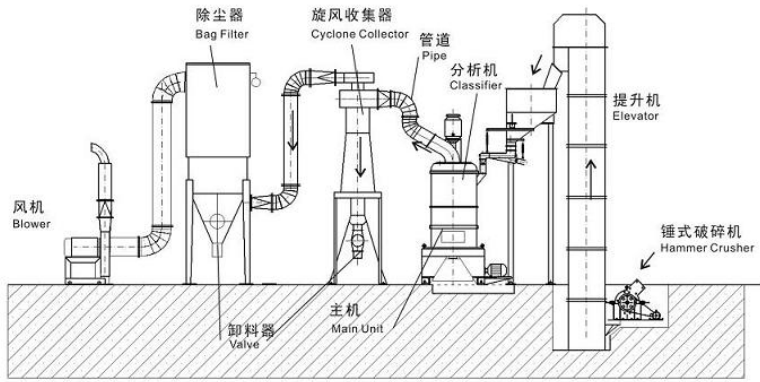
型号 Model	XZM215	XZM221	XZM227
环辊数量 Number of roller (piece)	15	21	27
工作直径 Ring diameter (mm)	φ800	φ800	φ1000
层环层数 Layer of ring (piece)	3	3	3
最大进料粒度 Max. Feeding size (mm)	≤10	≤10	≤10
成品粒度 Final size (mesh)	325-3500	325-3500	325-3500
产量 Capacity (t/h)	350-3500	600-6000	900-6000
主轴转速 Main shaft rotate speed (r/min)	235	235	235
外型尺寸 Overall size (m)	10×2.3×5.5	12.4×2.5×6.3	18.189×4.637×8.58

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

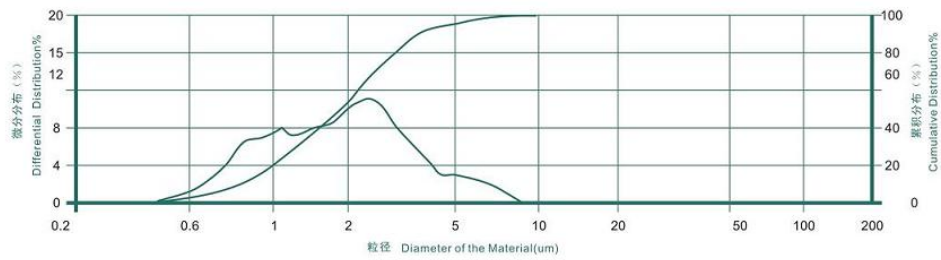
表2 Table 2

基本参数 Basic data	项目 Item	单位 Unit	规格、技术参数 Specification		
			XZM215	XZM221	XZM227
主机电动机 Motor of main unit	型号 Model	Y225S-4	Y250M-4	Y2315-6	
	功率 Power	37	55	110	
分机(调频电动机) Classifier (frequency modulation motor)	型号 Model	Y160M-4	Y180M-4	Y2VP200L-4	
	功率 Power	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	3	3	3	
鼓风机电动机 Motor of blower	型号 Model	Y200L1-2	Y225M-2	Y200M-2	
	功率 Power	30	45	30	
锤式破碎机 Motor of hammer crusher	型号 Model	PC250×400	PC300×400	PC400×600	
	功率 Power	15	11	18.5	
电磁振动给料机 Electromagnetism vibrating feeder	型号 Model	GZ1F	GZ1F	GZ1F	
	功率 Power	0.06	0.06	0.06	
卸料阀 Discharge valve	型号 Model	ZD-140	ZD-140	ZD-140	
	功率 Power	0.75	0.75	0.75	
脉冲除尘器 Pulse filter	型号 Model	DMC72-3	DMC120-II	DMC184-11	
	功率 Power	5.5	7.5	Y160L4-15	

注：各项参数及外形图如有变更，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	0.00	100.00
1.28	7.38	32.60	13.50	0.00	100.00	142.8	0.00	100.00
1.51	8.08	40.08	15.98	0.00	100.00	169.0	0.00	100.00
1.79	8.98	49.66	18.91	0.00	100.00	200.0	0.00	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.





技术支持:

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。

Technical Support:

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.



环境保护:

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灰技术,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、脉冲阀和集成电器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,不仅清灰效果好,而且延长了滤袋的使用寿命。

Environmental protection:

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.



技术参数表 Specification Chart

型号	Type	DMC60-II	DMC72-II	DMC84-II	DMC96-II	DMC108-II	DMC120-II	DMC160-II
过滤面积	Filtration Area (m ²)	45	54	63	72	81	90	126
滤袋数量	Quantity of Filter Bag(Set)	60	72	84	96	108	120	160
滤袋规格	Specification of Filter Bag (mm)	Φ130×2000	Φ130×2000	Φ130×2000	Φ130×2000	Φ130×2000	Φ130×2000	Φ130×2000
处理风量	Air Volume (m ³ /h)	5400~10800	6480~12960	7560~12960	8640~17280	9270~19440	10800~21600	11000~21600
工作温度	Working Temperature	<120	<120	<120	<120	<120	<120	<120
设备阻力	Working Resistance (pa)	1200~1500	1200~1500	1200~1500	1200~1500	1200~1500	1200~1500	1200~1500
除尘效率	Dust Collection Efficiency (%)	99~99.5	99~99.5	99~99.5	99~99.5	99~99.5	99~99.5	99~99.5
过滤风速	Filtration air speed (m/sec)	2~4	2~4	2~4	2~4	2~4	2~4	2~4
清灰喷吹压力	Dust Clean blowing Pressure (pa)	0.5~0.7	0.5~0.7	0.5~0.7	0.5~0.7	0.5~0.7	0.5~0.7	0.5~0.7
压缩空气耗量	Compressed Air Consumption (m ³ /sec)	0.2~0.8	0.2~1	0.3~1.2	0.3~1.3	0.4~1.5	0.4~1.7	0.165~1.7
电磁脉冲阀的数量	Quantity of Electromagnetic Pulse Valve (Set)	10	12	14	16	18	20	20
脉冲控制仪	Pulse Jet Control Device	DMK	DMK	DMK	DMK	DMK	DMK	DMK
外形尺寸	Overall Dimension (mm)	1710×1000×3670	2400×1400×4750	2400×1550×4750	2400×1700×4750	2400×1850×4750	2400×2000×4750	3230×2100×4750
排灰电机功率	Ash Discharging Power (kw)	0.75	0.75	0.75	0.75	0.75	0.75	0.75
设备重量	Weight (kg)	1680	1900	2390	2560	2680	2950	3100

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.