TGM SUPER PRESSURE TRAPEZIUM MILL
TGM系列超压梯形磨粉机

产品简介 I Product Introduction

TGM系列超压梯形磨粉机主要有主机、减速机、分析机、风机、布袋除尘器、管道配置、集粉器、电机等组成，整套配套的设备由颚式破碎机，斗式提升机，给料机，料仓，电控柜等组成：主要适用于冶金，建材，化工，矿山等矿产品物料及莫氏硬度在9级以下，湿度在10%以下的各种非易燃易爆矿产物料的粉磨加工。

TGM super pressure trapezium mill mainly includes main frame, speed reducer, separator, blower, bag filter covered by square box, connecting pipes, cyclone collector, and motor etc. The complete set of TGM super pressure trapezium mill is conposed of jaw rusher, bucket elevator, electromagnetic grizzly feeder, electric panel.TGM Series Super Pressure Trapezium Mill can grind all kinds of non-flammable and non-explosive minerals with Moh's hardness lower than 9 and humidity less than 10%,and TGM Series Super Pressure Trapezium Mill is widely used in metallurgy, manufacture of building materials, chemical industry, mining industry, etc.

技术优势 I Technical Advantages

- 创新性的磨辊，磨环及铲刀设计。
- 磨辊联动增压。
- 柔性连接。
- 高效实用、成品细度可调节。
- 高效节能的离心引风机。
- 与雷蒙磨等传统磨机相比，专利产品超压梯形磨粉机使得分析机叶片的端部与壳体的间隙调整方便、快捷、大大提高了成品的精度。
- Innovative roller, grinding ring and blade designs.
- Roller linkage supercharger.
- Flexible connection.
- Efficient and practical, product fineness can be adjusted.
- Energy efficient centrifugal fan.
- The gap adjustment of the end of the separator and the shell is more convenient and faster, which improved the efficiency of the powder collection.

规格与技术参数 I Specifications

规格型号 Specifications		TGM100	TGM130	TGM160
磨辊数量 Q'ty of Rollers (PCS)		4	5	6
磨辊直径×高度 Inner Dia×Height of Roller (mm)		Φ310×170	Φ410×210	Φ440×270
磨环直径 × 高度 Inner Dia×Height of Ring (mm)		Φ950×170	Φ1280×210	Φ1600×270
主机转速 Main Mill Rotating Speed (r/min)		130	98	82
进料尺寸 Input Size (mm)		<25	<30	<35
成品粒度 Output Size	μm	1600-45, the finest 38		
	Mesh	10-325, the finest 400		
产量 Capacity (t/h)		3-8.8	6-15	9-22
外型尺寸 Overall Dimension (mm)		6615×7725×8200	7000×9850×9695	9527×8003×9500
重量 Weight (t)		16	26.1	35

名称 Name		项目 Item	TGM100	TGM130	TGM160
主机电动机 Motor of Main Mill		型号 Model	Y225S-4	Y280S-4	Y315M1-4
		功率 Powder (kW)	37	75	132
		转速 Rotating Speed (r/min)	1480	1480	1480
选粉机调速电动机 Frequency Motor of Separator		型号 Model	YCT200-4A	YCT200-4B	YCT205-4A
		功率 Powder (kW)	5.5	7.5	18.5
		转速 Rotating Speed (r/min)	125-1250	125-1250	125-1250
离心引风机电动机 Motor of Blower		型号 Model	Y225S-4	Y280S-4	Y315M1-4
		功率 Powder (kW)	37	75	132
		转速 Rotating Speed (r/min)	1480	1480	1480
颚破 Jaw Crusher		型号 Model	PE250×400	PE250×400	PE250×750
		电机型号 Model of Motor	Y180L-6	Y180L-6	Y200L2-6
		功率 Powder (kW)	15	15	22
		转速 Rotating Speed (r/min)	970	970	970
辅机部分 Auxiliary Parts	斗提 Bucket Elevator	提升机型号 Model of Elevator	TH220×8M	TH220×8.5M	TH315×9M
		电机型号 Model of Motor	Y100L2-4	Y100L2-4	Y112M-4
		功率 Powder (kW)	3	3	4
		转速 Rotating Speed (r/min)	1420	1420	1420
	给料机 Feeder	型号 Model	GZ2F	GZ2F	GZ3F
		功率 Powder (kW)	0.15	0.15	0.2

注：技术数据如果有变动，恕不另行通知。Any change of technical data, no prior notice.

MTW SERIES EUROPEAN TYPE TRAPEZIUM MILL

MTW系列欧式梯形磨粉机

产品简介 I Product Introduction

MTW系列欧式梯形磨粉机历经三十余年技术沉淀，吸取欧洲最新粉磨理念，厚积薄发，实现了工业磨粉机的技术革命，拥有多项自主专利技术产权，投放市场以来，通过多项科技成果鉴定，成为传统雷蒙磨、摆式磨以及球磨机更新换代最佳替代产品，大型矿物规模化建厂首选装备。

With more than 30 years of technical experience, the MTW-series European type Grinding Mill has absorbed the latest European grinding concepts, and realized the technological revolution of industrial grinding mills with a number of independent patent technical property rights. Since its launch on the market, it has passed a number of scientific and technological achievement appraisal and become the best replacement product for traditional Raymond mill, pendulum mill and ball mill as well as the first choice for large-scale mineral plant construction.

应用领域 I Application Field

建材、治金、化工、电力等行业非金属矿制粉，石灰石、方解石、大理石、生石灰、重质碳酸钙、环保脱硫石灰石制粉，混凝土用石灰石粉制备，清洁煤粉制备、石油焦制粉等领域莫氏硬度在7级以下，含水量小于6%的物料粉磨加工。

Pulverization of non-metallic minerals in building materials, metallurgy, chemical, electric power and other industries; Pulverization of limestone, calcite, marble, quicklime, heavy calcium carbonate and limestone for environmental-friendly desulfurization; Preparation of limestone powder for concrete; Preparation of clean coal powder and petroleum coke; Pulverization of raw material with Mohs' hardness scale less than 7 and moisture less than 6%.

国家专利产品 I National Patent Product:

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技术优势 I Technical Advantages

节能高效低碳环保

稀油润滑系统

超强动力锥齿轮整体传动

Energy-saving, high-efficiency, environmental friendly

Thin-oil lubrication system

Super-powered bevel gear integral transmission

设备成熟稳定

三十年磨机制造经验，4代磨粉机成熟蜕变

Mature and Stable Equipment

Thirty years of mill manufacturing experience with 4 generation of grinding mills

传动先进

超强动力，锥齿轮整体传动

Advanced Transmission

Super power, bevel gear integral transmission

传动系统采用稀油润滑

主轴传动系统、风机传动系统均采用稀油润滑，换油周期约4个月，换油周期长，成本低，维护频次少

Thin-oil Lubrication of Transmission System

The main shaft driving system and blower driving system are both lubricated by thin oil with as long as 4 months'oil change interval,low cost and low frequency of maintenance.

风机配置高

风机采用稀油润滑，换油周期约4个月。

High Configuration of Blower

The blower adopts thin-oil lubrication with as long as 4 months' oil change interval.

新型变频选粉机、精度高

采用新型吊挂式笼式选粉机，变频控制，细度调节更精确

Advanced Variable-frequency Separator with Higher Precision

Adopting the new hanging cage type of powder separator, variable-frequency drive, higher precision of adjusting powder fineness

技术领先、运行成本低

源自德国最新技术，国家专利产品。效率高，运行成本任，摆式磨行业领先产品

Leading Technology, Low Running Cost

National patent product derived from the latest German technology. High efficiency, low running cost, the leading equipment in pendulum mill industry

一机多用、投资经济

可粉磨多种矿物，满足多种规格粒度需求。基建费用低，投资经济

Multiple Function, Economical Investment

It can grind a variety of minerals to meet the needs of various specifications and particle sizes. Low infrastructure cost, economical investment

效率高、产量大

单机处理能力高达60th，突破传统摆式磨产能瓶颈。

High Efficiency and Large Capacity

The processing capacity of a single machine is up to 60tph, which breaks through the bottleneck of traditional pendulum mills.

一体化全面解决方案

专有的实验装置，可提供设计、供货、施工、服务等一体化全面解决方案。

Integrated Comprehensive Solution

With proprietary experimental devices, we can provide integrated and comprehensive solutions for design, manufacture, construction, and other services.

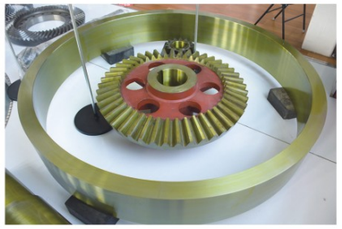
节能环保

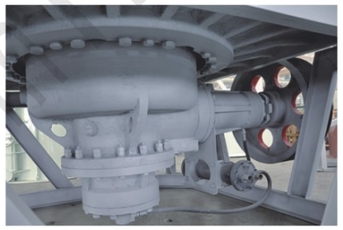
通过工业产品环保认证，达到国家最新环保标准。

Energy Saving and Environmental Protection

Environmental protection certificated of industrial products and meet the latest national environmental protection standards.

工艺流程 I Process Flowchart





规格与技术参数 I Specifications

规格型号 Specifications		MTW110G	MTW138G	MTW158G	MTW175G	MTW198G	MTW218G
磨辊数量 Q'ty of Rollers (PCS)		4	4	4	4	4	4
磨环内径 Inner Diameter of Ring (mm)		Φ1100	Φ1380	Φ1550	Φ1750	Φ1950	Φ2150
磨辊直径 Inner Diameter of Roller		360	460	Φ510	580	Φ640	640
主机转速 Main Mill Rotating Speed (r/min)		110-120	86-100	88	65-85	60-75	55-66
进料尺寸 Input Size (mm)		<25	<30	<30	<35	<35	<40
成品粒度 Output Size	μm	1600-45, the finest 38					
	Mesh	10-325, the finest 400					
产量 Capacity (t/h)		3-10	6-20	13	10-35	18	20-50
外型尺寸 Overall Dimension (mm)		6186×8041 ×8640	7262×10010 ×10010	10200×9100 ×10100	10171×10023 ×9916	12500×9500 ×11400	14300×11153 ×10351
主机重量 Main Mill Weight (t)		15	25.5	39	47	64	96

名称 Name		项目 Item	MTW110G	MTW138G	MTW158G	MTW175G	MTW198G	MTW218G
主机电动机 Motor of Main Mill		型号 Model	YX3-280M-6	YX3-315M-6	YX3-355M1-8	Y2-355M2-8	YX3-355L2-8	YLV400-3-8
		功率 Powder (kW)	55	90	132	160	220	280
选粉机调速电动机 Frequency Motor of		型号 Model	YVF2-160L-6	YVF2-200L1-6	YVF2-200L2-6	YVF2-225M-6	YXVF-250M-6	YVF2-280M-6
		功率 Powder (kW)	11	18.5	22	30	37	55
离心引风机电动机 Motor of Blower		型号 Model	1TL0001-250M-4	YX3-315S-4	YX3-315M-4	YX3-315L2-4	1TL0001-355M-4	YX3-355L2-4
		功率 Powder (kW)	55	110	132	200	250	315
辅机部分 Auxiliary Parts	破碎机 Crusher	破碎机型号 Model of Crusher	PE250×400	PE250×750	PE250×750	PE250×750	PC1010	PC1010
		电机型号 Model of Motor	YX3-180L-6	YX3-200L2-6	YX3-200L2-6	YX3-200L2-6	YX3-315L1-6	YX3-315L1-6
		电机功率 Powder (kW)	15	22	22	22	110	110
	斗提 Bucket Elevator	斗提型号 Model of Elevator	TH220×8.13m	TH315×9.5m	TH315×9.85M	TH315×10.25m	TB315×12.43M	TB315×12.43m
		电机型号 Model of Motor	YX3-100L2-4	YX3-112M-4	YX3-112M-4	YX3-112M-4	YX3-160M-4	YX3-160M-4
		电机功率 Powder (kW)	3	4	4	4	11	11
	给料机 Feeder	型号 Model	GZ2F	GZ3F	GZ3F	GZ4F	GZ5F	GZ5F
		功率 Powder (kW)	0.15	0.2	0.2	0.45	0.65	0.65
	缓冲仓 Hopper	容量 Volume (m^3)	1.5	2.5	3.3	4.5	18.4	18.4

LM SERIES VERTICAL ROLLER MILL
LM系列立式辊磨机

产品简介 I Product Introduction

LM系列立式辊磨机又称立式磨或立磨，是黎明重工综合引进德国莱歇、非凡等优势技术，结合我司三十余年研发制造经验潜心开发出的大型高效节能粉磨产品，集破碎、烘干、粉磨、选粉于一体，拥有多项自主专利技术、知识产权，主要技术、经济指标达到国际先进水平。

LM series vertical roller mill, also known as vertical mill, is a large-scale, high-efficiency and energy-saving grinding equipment developed by Liming Heavy Industry. It is developed by combining advanced technologies such as Loesche Vertical Mill and Pfeiffer Vertical Mill from Germany and more than 30 years of R&D and manufacturing experience of our company. It integrates crushing, drying, grinding, and powder classifying. It has a number of independent patented technologies and intellectual property rights, and its main technical and economic indicators have reached the international advanced level.

国家专利产品 I National Patent Product

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应用领域 I Application Field

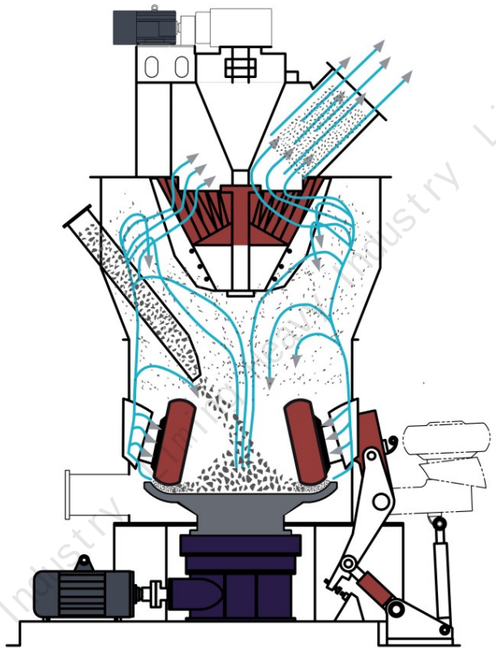
- 非金属矿(造纸行业重钙、建材石膏、铸造行业膨润土、玻纤行业高岭土、玻纤叶蜡石、石英砂、滑石、生石灰等)
- 煤炭、供热、能源化工(供暖用煤粉、煤化工行业煤粉等)
- 建材水泥行业(生料制备、煤粉制备、孰料粉磨及预粉磨、矿渣微粉加工)
- 冶金钢铁行业(高炉喷吹煤粉、球团工程、有色冶金、镍铁项目、铁矿石、水渣及钢渣粉磨)
- 电力等行业(烟气脱硫石灰石)

- Non-metallic minerals (heavy calcium in the paper industry, building materials gypsum, bentonite in the foundry industry, kaolin in the glass fiber industry, glass fiber pyrophyllite, quartz sand, talc, quicklime, etc.)
- Coal, heating, energy and chemical industry (pulverized coal for heating, pulverized coal for coal chemical industry, etc.)
- Building materials and cement industry (raw meal preparation, coal powder preparation, raw material grinding and pre-grinding, slag powder processing)
- Metallurgical iron and steel industry (blast furnace injection of pulverized coal, pellet engineering, non-ferrous metallurgy, nickel iron projects, iron ore, water slag and steel slag grinding)
- Power industry and other industries (flue gas desulphurization limestone)

结构原理 I Structure and Principle

LM立式磨主要由选粉机、磨辊装置、磨盘装置、加压装置、减速机、电动机、壳体、稀油润滑站、液压站等部分组成。

LM vertical mill is mainly composed of powder separator, grinding roller device, grinding disc device, pressure device, gearbox, motor, housing, thin oil lubrication station, hydraulic station and other parts.



LM立式磨（两辊）
LM Vertical Mill (2 Rollers)

LM立式磨（三辊）
LM Vertical Mill (3 Rollers)

LM立式磨（四辊）
LM Vertical Mill (4 Rollers)

LM预粉磨
LM Pre-grinding Vertical Mill

技术优势 I Technical Advantages

技术领先
Leading Technology

国家专利产品，引进德国最新技术，三十余年磨机制造经验。
It is a national patent product, introducing the latest German technology and combining more than 30 years of mills manufacturing experience.

操作简便,运行可靠
Simple Operation and Reliable Operation

具有限位装置，避免辊盘相碰导致磨机产生剧烈震动
具有液压翻辊装置，磨辊可完全翻出机外，检修空间大
传动系统采用先进的行星齿轮减速机，噪音低，承载力强，运行更稳定
具有自动排渣功能，可提高产品品质

Limit Device prevents the grinding rollers and the grinding disc from colliding to cause severe vibration of the mill.
Hydraulic Device allows the grinding rollers to be completely turned out of the mill to have large maintenance space.
Transmission system adopts advanced planetary gear reducer, with low noise, strong bearing capacity and more stable operation.
With automatic rejects discharge function, improving product quality.

粉磨效率高
High Grinding Efficiency

能耗低，比球磨节省40%-50%的耗电量
特殊的磨辊磨盘结构设计，磨辊直径大，碾磨面积大，液压自动加压装置
Lower energy consumption, saving 40%-50% power consumption than ball mill.
Special grinding roller and disc structure design, with larger grinding roller diameter, larger grinding area, and automatic hydraulic pressure device.

产品质量稳定
Stable Product Quality

物料在磨机内停留的时间仅2-3分钟，成品污染小
产品粒度分布窄、颗粒形态均匀、流动性好
The material stays in the mill for only 2-3 minutes, and the finished product has high purity.
The product has narrow particle size distribution, uniform particle shape, and good fluidity.

综合投资成本低
Low Overall Investment Cost

集破碎、干燥、粉磨、选粉、输送于一体，工艺流程简单，布局紧凑
占地面积小，可露天布置，建筑费用低
It integrates crushing, drying, grinding, powder separation and conveying, with simple process flow and compact layout.
It occupies a small area, can be installed in the open,low construction cost

自动化程度高
High Degree of Automation

高效节能
采用全自动控制系统，可实现远程操控，操作简单容易
Energy efficient
Using a fully automatic control system, remote control can be realized, simple and easy.

维护方便,运行成本低
Convenient Maintenance and Low Operating Cost

磨辊轴承采用强制稀油润滑，轴承寿命长；且采用独立油站
采用液压控制系统来施加及控制其对物料的作用力
磨耗少，磨辊辊套、磨盘衬板采用特殊材质，使用寿命长
The roller bearings are lubricated by forced thin oil, and the bearing life is long; and an independent oil station is used.
The hydraulic control system is used to exert and control its force on the material.
Less abrasion. The grinding roller sleeve and grinding table liner are made of special materials and have long service life.

烘干能力大
Large Drying Capacity

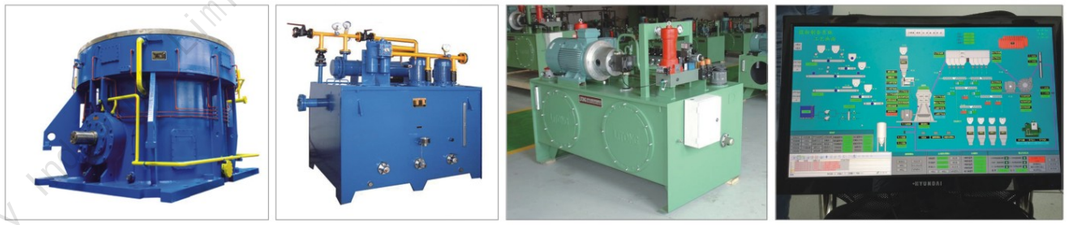
可采用热风输送物料
可烘干入磨水分高达15%的物料，出磨水分<1%
Hot air can be used to transport materials
It can dry materials with up to 15% water content. The moisture of the finished product is less than 1%.

环保
Environmental Protection

整套系统为负压运行，无粉尘外溢
LM立磨振动小，碾磨过程中磨辊磨盘不直接接触，噪音低
The whole system runs under negative pressure, no dust spills.
The LM vertical mill has low vibration, and the roller and table are not in direct contact during the grinding process, and the noise is low.

一体化全面解决方案
Integrated Comprehensive Solution

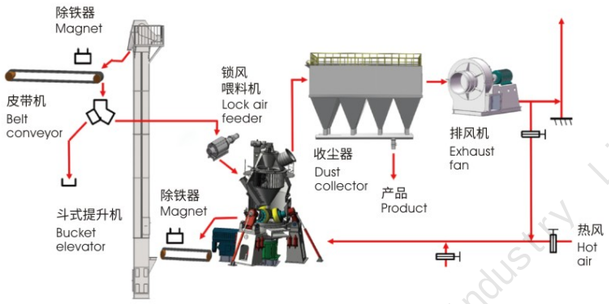
提供立磨整条生产线设计、供货、安装、总包服务
Provide vertical mill production line's design, supply, installation, and turnkey services.



工艺流程 I Process Flowchart

根据除尘器的性能有两种不同的布置方案，即单级收尘系统和二次收尘系统。

According to the performance of the dust collector, there are two different layout schemes, the single-stage dust collection system and the secondary dust collection system.



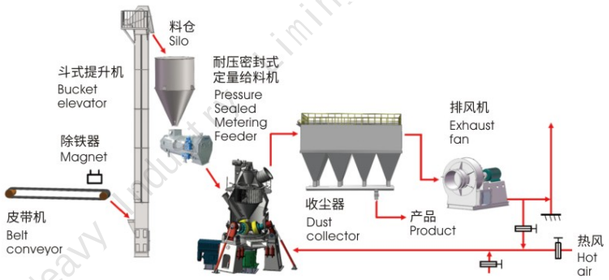
单级收尘系统（一）
Single-stage dust collection system (I)

（一般用于粉磨非金属矿、石灰石脱硫剂、水泥熟料、矿渣、钢渣等）

采用的收尘装置是高浓度袋收尘器，出磨气体直接进入收尘器，该系统减少了设备台数，简化了系统配置。

(Generally used for grinding non-metallic ore, limestone desulfurizer, cement clinker, slag, steel slag, etc.)

The dust collection device used is a high-concentration bag dust collector. This system reduces the number of equipment and simplifies the system configuration.



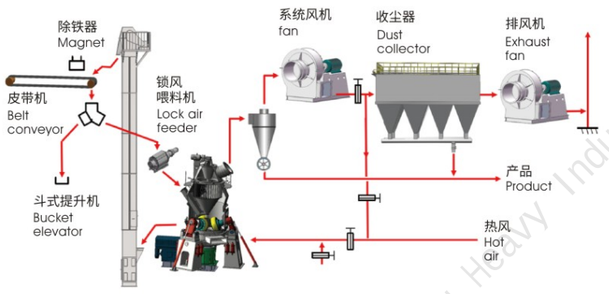
单级收尘系统（二）
Single-stage dust collection system (II)

（一般用于供热煤粉锅炉、煤化工、冶金钢铁、水泥行业、煤粉设备）

采用的收尘装置是煤粉专用防爆袋式除尘器，出磨气体直接进入收尘器，该系统减少了设备台数，简化了系统配置。

(Generally used for heating pulverized coal boilers, coal chemical industry, metallurgical steel, cement industry, pulverized coal equipment.

The dust collection device used is a special explosion-proof bag filter for pulverized coal. The grinding gas directly enters the dust collector. This system reduces the number of equipment and simplifies the system configuration.



二次收尘系统
Secondary dust collection system

（一般用于生石灰、水泥生料磨等）

采用旋风收尘器进行产品收集。这种布置方式可降低系统的工作负压和通过收尘器的气体量。可使用袋收尘器作为最终除尘设备。

(Generally used for quicklime, cement raw mill, etc.)

A cyclone dust collector is used for product collection. This arrangement can reduce the negative pressure of the system and the amount of gas passing through the dust collector. The bag filter can be used as the final dust removal equipment.

规格与技术参数 I Specifications

LM×××K-×立式矿石磨 LM×××K Non-metallic Ores Vertical Grinding Mill

规格型号 Specifications		LM130K	LM150K	LM170K	LM190K	LM220K	LM280K	LM340K	LM370K
转盘中径（mm） Disc. Working Dia. (mm)		1300	1500	1700	1900	2200	2800	3400	3700
产量（t/h） Capacity (t/h)		10-28	13-38	18-48	23-68	36-105	50-170	190-240	240-300
成品细度 Output Size	μm	170-40	170-40	170-40	170-45	170-45	170-45	170-45	170-45
	mesh	80-400	80-400	80-400	80-325	80-325	80-325	80-325	80-325
入磨物料尺寸（mm） Input Size (mm)		<38	<40	<42	<45	<50	<50	<50	<50
入磨物料水份 Input Moisture		<4%	<4%	<4%	<4%	<4%	<4%	<4%	<4%
需烘干入磨物料水份 Input Moisture for Drying		4-15%	4-15%	4-15%	4-15%	4-15%	4-15%	4-15%	4-15%
成品水份（烘干） Power Moisture after Drying		≤1%	≤1%	≤1%	≤1%	≤1%	≤1%	≤1%	≤1%
主电机功率（kW） Main Mill Power (kW)		200	280	400	500	800	1250	2000	2500

LM×××M-×煤粉立式磨 LM×××M Coal Vertical Grinding Mill

规格型号 Specifications	LM80M	LM110M	LM130M	LM150M	LM170M	LM190M	LM220M	LM240M	LM280M
转盘中径（mm） Disc. Working Dia. (mm)	800	1100	1300	1500	1700	1900	2200	2400	2800
产量（t/h） Capacity (t/h)	3-5	5-9	10-17	16-22	20-30	26-40	35-50	50-65	60-90
煤粉细度（R0.08） Output Size (R0.08)	5-20%	5-20%	5-20%	5-20%	5-20%	5-20%	5-20%	5-20%	5-20%
入磨物料尺寸（mm） Input Size (mm)	<30	<30	<38	<40	<42	<45	<50	<50	<50
入磨物料水份 Input Moisture	<15%	<15%	<15%	<15%	<15%	<15%	<15%	<15%	<15%
煤粉水份 Coal Power Moisture	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%
原煤哈氏可磨指数(HGI) HGM of Coal	>55	>55	>55	>55	>55	>55	>55	>55	>55
主电机功率（kW） Main Mill Power (kW)	55	110	185	250	315	400	500	710	900

LM×××N-×矿渣立式磨 LM×××N Slag Vertical Grinding Mill

规格型号 Specifications		LM130N	LM150N	LM170N	LM190N	LM220N	LM250N	LM280N	LM370N
转盘中径（mm） Disc. Working Dia. (mm)		1300	1500	1700	1900	2200	2500	2800	3700
产量（t/h） Capacity (t/h)		5-14	7-20	9-27	12-30	18-55	25-65	40-90	75-140
成品细度 Output Size	μm	170-45	170-45	170-45	170-45	170-45	170-45	170-45	170-45
	mesh	80-325	80-325	80-325	80-325	80-325	80-325	80-325	80-325
入磨物料尺寸（mm） Input Size (mm)		<38	<40	<42	<45	<50	<50	<50	<60
入磨物料水份 Input Moisture		<4%	<4%	<4%	<4%	<4%	<4%	<4%	<4%
需烘干入磨物料水份 Input Moisture for Drying		4-15%	4-15%	4-15%	4-15%	4-15%	4-15%	4-15%	4-15%
成品水份（烘干） Power Moisture after Drying		≤1%	≤1%	≤1%	≤1%	≤1%	≤1%	≤1%	≤1%
主电机功率（kW） Main Mill Power (kW)		200	280	400	500	900	1400	1800	3150

LM×××X-GX超细粉立式磨 LM×××X-GX Super Fine Vertical Grinding Mill

规格型号 Specifications	LM110X-GX	LM130X-GX	LM150X-GX	LM170X-GX	LM190X-GX	LM220X-GX
转盘中径（mm） Disc. Working Dia. (mm)	1100	1300	1500	1700	1900	2200
成品细度（D97） Output Size (D97)	400–600目	400–600目	400–600目	400–600目	400–600目	400–600目
产量（t/h） Capacity (t/h)	3-8	4-12	6-14	8-20	13-26	15-30
入磨物料尺寸（mm） Input Size (mm)	10	10	20	20	20	20
入磨物料水份 Input Moisture	<3%	<3%	<3%	<3%	<3%	<3%
选粉机功率（kW） Separator Power (kW)	22	37	45	55	75	90
主电机功率（kW） Main Mill Power (kW)	160	220	280	400	500	560

LM×××Y预粉磨立式磨 LM×××Y Pre-grinding Vertical Grinding Mill

规格型号 Specifications	LM150Y	LM170Y	LM190Y	LM250Y	LM340Y
转盘中径（mm） Disc. Working Dia. (mm)	1500	1700	1900	2500	3400
入磨物料尺寸（mm） Input Size (mm)	20	20	20	20	20
入磨物料水份 Input Moisture	<2%	<2%	<2%	<2%	<3%
磨机喂料量（t/h） Feeding Capacity (t/h)	12-25	25-40	35-50	70-110	170-250
成品细度1（R0.08） Output Size 1 (R0.08)	≤15%	≤15%	≤15%	≤15%	≤15%
成品产量1（t/h） Capacity 1 (t/h)	6-10	10-16	14-20	28- 44	60-100
成品细度2（R0.2） Output Size 2 (R0.2)	≤5%	≤5%	≤5%	≤5%	≤5%
成品产量2（t/h） Capacity 2 (t/h)	9-15	15-24	21-30	42-66	110-150
磨机循环通过量（t/h） Mill Circulating Capacity (t/h)	40-70	80-140	125-175	200-280	600-800
主电机功率（kW） Main Mill Power (kW)	280	400	500	1250	2500

参考物料：水泥熟料的预粉磨。 Note: It's for the pre-grinding of clinker.

LM×××Y预粉磨立式磨 LM×××Y Pre-grinding Vertical Grinding Mill

规格型号 Specifications	LM150Y	LM170Y	LM190Y	LM250Y	LM340Y
转盘中径（mm） Disc. Working Dia. (mm)	1500	1700	1900	2500	3400
入磨物料尺寸（mm） Input Size (mm)	20	20	20	30	30
入磨物料水份 Input Moisture	<2%	<2%	<2%	<2%	<2%
产量 Capacity (t/h)	35-60	60-90	80-120	160-180	250-300
成品细度（R1.5） Output Size (R1.5)	≤15%	≤15%	≤15%	≤15%	≤15%
主电机功率（kW） Main Mill Power (kW)	280	400	500	900	1400

参考物料：石灰石粗粉的粉磨。 Note: It's for the pre-grinding of limstone.

LUM SERIES ULTRA-FINE VERTICAL ROLLER MILL

LUM系列超细立式辊磨机

产品简介 I Product Introduction

LUM系列超细立磨是黎明重工借鉴德国、日本、台湾超细立磨先进技术，结合我司三十余年磨机研发制造经验，在LM立式磨基础上，潜心开发出的适用于非金属矿超细粉磨加工规模化生产的大型超细立式磨粉机，集超细粉磨、分级、输送于一体，拥有多项自主专利技术、知识产权，突破超细粉加工产能瓶颈，其工艺参数、机械性能及成品粉质量等主要技术指标达到国际先进水平。

With more than 30 years of experience in mill R&D and manufacturing, Liming develops LUM ultra-fine vertical mill on the basis of LM traditional vertical mills with the advanced technology from Germany, Japan, and Taiwan. It is a large-scale ultra-fine vertical mill for large-scale production of ultra-fine grinding and processing of non-metallic minerals. It integrates ultra-fine grinding, separation, and conveying. It has a number of independent patented technologies and intellectual property rights, making a breakthrough in ultra-fine powder processing. It breaks through the bottleneck of super fine powder processing capacity. Its technological parameters, mechanical properties and the quality of finished powder and other main technical indicators also reaches the international advanced level.

应用领域 I Application Field

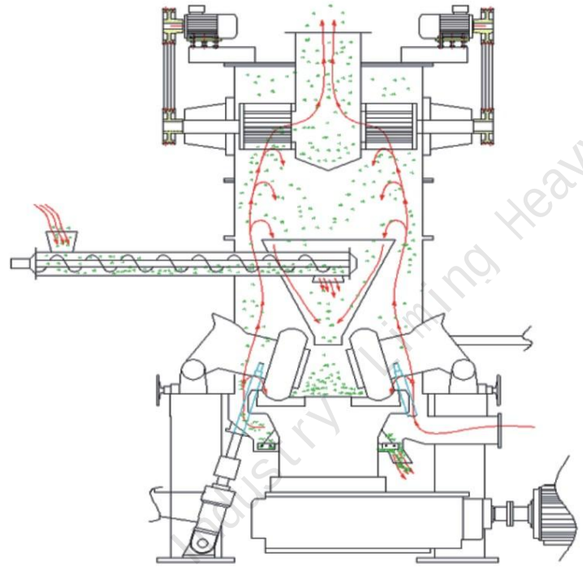
广泛应用于人造岗石、塑料母粒、造纸、涂料、PVC、电线电缆、橡胶、颜料、油墨无纺布等行业，适用于方解石、石灰石、大理石、重钙、生石灰、滑石、重晶石、白云石、高岭土等莫氏硬度在7级以下，含水量小于6%的各种非金属矿物的大规模超细粉磨加工。

Artificial granite, plastic masterbatch, papermaking, coatings, PVC, wire and cable, rubber, pigments, ink non-woven fabrics and other industries, Large-scale ultrafine grinding of various non-metallic minerals with Mohs hardness below 7 and moisture content less than 6% such as calcite, limestone, marble, heavy calcium, quicklime, talc,barite, dolomite, and kaolin.

结构原理 I Structure and Principle

LUM超细立式磨主要由电动机、减速机、磨辊装置、磨盘装置、加压装置、选粉机、机体和油站等组成。

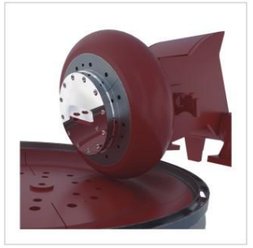
LUM ultra-fine vertical mill is mainly composed of motor, reducer, grinding roller device, grinding disc device, pressurizing device, powder separator, machine body and oil station.



多头选粉机
Multi-head Separator

加压装置
Pressure Device

磨辊检修状态
Roller overhaul Status



特殊的研磨曲线
Special Grinding Curve

技术优势 I Technical Advantages

专业超细立磨
专业超细立磨产品，引进德国、日本、台湾超细立磨先进技术。

环保
整套系统为负压运行，无粉尘外溢，车间实现无尘化作业。

选粉效率高
选粉机采用多轮气流选粉机，粒度控制精确、效率高，可产成品粒径范围大，2um以下累计百分比含量可达到D97=4-45pm，比表面积21000m2/g

成品粉质量好
成品粉中含铁量极少，粉磨白色物料，产品白度高，
且一次成品粒径分布窄，2um细粉含量可调可控，单个颗粒形状好。

噪音低，磨损少
装备有防止辊套和磨盘衬板直接接触的机械限位装置和电子限位装置，避免了破坏性冲击和剧烈震动。磨辊不与磨盘直接接触，且磨辊与衬板采用优质耐磨材料，因此磨损少，使用寿命长。

特殊设计的研磨曲线
专门为实现超细粉磨原理而特殊设计的辊套和衬板的研磨曲线，比普通立磨更容易形成料层，一次性粉磨至所需物料细度，极大的提高研磨效率

智能化自动控制系统
采用PLC/DCS自动控制的磨辊加压控制方式，精准控制研磨压力，无需人工操作，可全自动电脑控制添加助磨剂，进行粉磨处理，实现远程控制，操作简便。

Professional ultra-fine vertical mill
Professional ultra-fine vertical mill products, introducing advanced technology from Germany, Japan and Taiwan.

Environmentally-friendly
The entire system runs in negative pressure and dust-free operation.

High separation efficiency
The powder classifier adopts a multi-wheel air-flow classifier, which has precise particle size control and high efficiency, and can produce a wide range of finished products. The cumulative percentage content below 2um can reach D97=4-45pm, and the specific surface area is 21000m2/g

High quality of finished powder
The iron content in the finished powder is very small, when the white material is ground, the whiteness of the product is high, and the particle size distribution of the finished product is narrow, the content of 2um fine powder is adjustable and controllable, and the shape of a single particle is good.

Low noise and less abrasion
Equipped with a mechanical limit device and an electronic limit device to prevent direct contact between the roller and the grinding disc liner, the ultra-fine vertical mill avoids destructive impact and severe vibration.Both the grinding roller and liner are made of high-quality wear-resistant materials, so there is less wear and long service life.

Specially designed grinding curve
The specially designed grinding curve of the roller and liner makes it easier to form a material layer than ordinary vertical mills, and grind to the required material fineness at one time, which greatly improves the grinding efficiency.

Intelligent automatic control system
The ultra-fine vertical mill adopts the PLC/DCS automatic control of the grinding roller pressure control method, which can accurately control the grinding pressure without manual operation. It can also add grinding aids under automatic computer control for grinding treatment, realize remote control, and easy operation .

工艺流程 I Process Flowchart

一次分级系统工艺流程图
Process Flowchart of Primary Classification System

二次分级系统工艺流程图
Process Flowchart of Secondary Classification System

规格与技术参数 I Specifications

规格型号 Specifications		LUM1125X	LUM1232X	LUM1436X
转盘中径（mm） Disc. Working Dia. (mm)		1100	1200	1400
磨辊数量（个） Q'ty or Rollers (pcs)		3	3	3
入磨物料粒度 Input Size (mm) D90		<10, 最大15mm <10, max 15mm	<10, 最大15mm <10, max 15mm	<10, 最大15mm <10, max 15mm
入磨物料水分 Input Moisture		<3%	<3%	<3%
产量 Capacity (t/h)		5-14	7-16	9-18
细度 Output Size (mm)	μm	45-20, the finest 10		
	Mesh	325-650, the finest 1250		
主电机功率 Main Mill Power (kW)		250	315	355-410
风机功率 Blower Power (kW)		200	250	315-355
多头选粉机功率×个数 Multiple Separator Powder × Q'ty		15kW×6	15kW×8	15kW×8

注意：粉磨矿石莫氏硬度不得大于5级。 Attention: the Moh's hardness of the materials to be grinded can not be above 5.

MW SERIES MICRO POWDER GRINDING MILL

MW系列环辊微粉磨

产品简介 I Product Introduction

MW系列环辊微粉磨是黎明重工结合三十余年的磨机生产经验，汲取国内外磨机生产厂家的优点，经过多次充分考察、研究、试验而开发出的高效低成本的新型超细粉加工设备，它是先进技术的结晶，是国际上超细粉加工领域替代传统磨粉机的最佳产品。

MW series micro-powder grinding mill is a new kind of ultra-fine processing equipment with high efficiency and low cost, which developed by Liming Heavy Industry, combining more than 30 years of mill production experience, it absorbing the advantages of domestic and foreign mill manufacturers, with many full investigations, researches and tests. MW series micro-powder grinding mill, which is the crystallization of advanced technology, is the best product to replace traditional mills in the field of ultrafine powder processing in the world.

应用领域 I Application field

适用于人造岗石、塑料母粒、PVC管材、电线电缆等行业石灰石、方解石、重钙、生石灰、滑石、重晶石、白云石等莫氏硬度7级以下，含水量小于6%的各种非金属矿物的超微粉碎。

It is suitable for all kinds of limestone, calcite, heavy calcium, quicklime, talc, barite, dolomite and other industries such as artificial granite, plastic masterbatch, PVC pipe, wire and cable, etc. ,and Mohs hardness below 7 and moisture content less than 6% Ultrafine grinding of non-metallic minerals.

技术优势 I Technical Advantages

投资成本低
Low investment cost

在同等的细度情况下，比气流磨投入少，成本低，回收周期短

In the case of the same fineness, it's less investment, less cost and shorter recycling cycle than jet mill.

易损件损耗低
Low wear parts loss

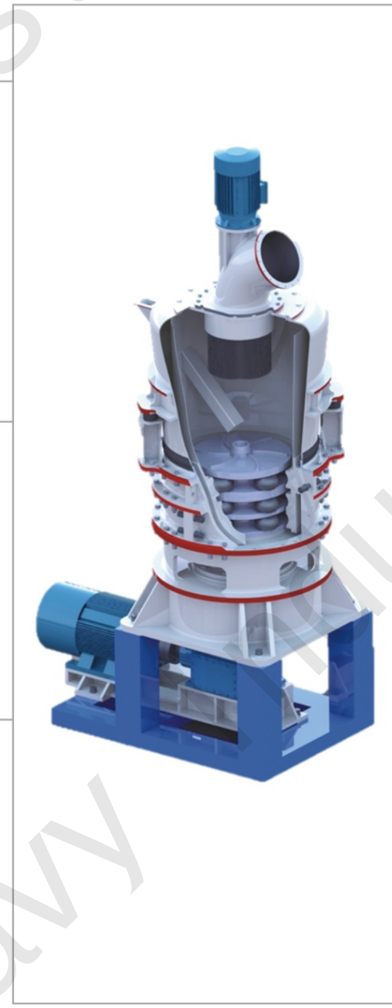
辊环采用优质耐磨材料，
锻打工艺，使用寿命长。

Roller and ring are made of high-quality wear-resistant materials, forging technology, and long service life.

磨腔内运转安全可靠
Safe and reliable operation in the grinding cavity

磨腔内无滚动轴承、无螺钉避免了螺钉易松动而毁坏机器的问题。

No rolling bearing and no screws in the grinding cavity to avoid the problem that the screws are easy to loose and damage the machine.



传动更稳定
More stable transmission

采用减速机传动装置，比传统皮带传动更稳定，效率更高

It adopts reducer transmission device, which is more stable and more efficient than traditional belt transmission

粒度控制精确
Accurate particle size control

采用新型高效笼式选粉机，变频控制，粒度调节方便，切割粒径精准,一次成品细度可达到D97≤5μm

Using a new type of high-efficiency cage powder separator,frequency control,convenient particle size adjustment,accurate cutting particle size,the fineness of the finished product can reach D97≤5μm

环保
Environmental protection

采用高效脉冲除尘器，收尘效率高，无粉尘外，并配置消音器及隔音房，大大降低了噪音，达到国家最新环保标准

Using the high-efficiency pulse dust collector, which has high dust collection efficiency and no dust. And it is also equipped with a silencer and a soundproof room, which greatly reduces noise and meets the latest national environmental protection standards

工艺流程 I Process Flowchart

分析机叶轮
Classifier Impeller

转盘
Turn Plate

磨环
Gringing Ring

轴销
Shaft Pin

膜片
Diaphragm

磨辊
Grinding Roller

滤袋
Filter Bag

脉冲阀
Pulse Valve

规格与技术参数 I Specifications

规格型号 Specifications		MW880	MW1080	MW1280	MW1680
平均工作直径 Working Diameter (mm)		800	1000	1300	1680
主机入料粒度 Feeding Size (mm)		<20	<20	<20	<20
主机转速 Rotary Speed (r/min)		230-240	180-200	135-155	120-130
产量 Capacity (t/h)		0.5 -5	1-8.5	1.5-12	3.8-30
环辊与辊 Q'ty of Roller (PCS)		21	28	32	44
道环数量 Q'ty of Ring Layer (PCS)		3	4	4	4
成品粒度 Output Size	μm	5-47		5-47	9-100
	Mesh	2500-325		2500-325	1350-160
外型尺寸 Overall Dimension (mm)		13.9×4×6.2	18×4.6×8.6	14×9×10.25	26.3×7.5×11.9
全套设备总重 Total Weight (t)		18	36	56	102

名称 Name	项目 Item	MW880	MW1080	MW1280	MW1680
主机电动机 Motor of Main Mill	功率 Powder (kW)	75	132	185	315
分析机调频电机 Frequency Motor of Separator	功率 Powder (kW)	18.5	30	75	132
风机 Motor of Blower	功率 Powder (kW)	45	75	132	200-220
锤式破碎机 Hammer Crusher	型号 Model	PC400×600	PC400×600	PC600×800	PC600×800
	功率 Powder (kW)	18.5	18.5	45	45
裙边皮带给料机 Belt Conveyor Feeder	型号 Model	QB300×60×1.8	QB300×60×1.8	QB400×80×2	QB400×80×2.8
	功率 Powder (kW)	1.5	1.5	1.5	1.5
提升机 Bucket Elevator	型号 Model	TH200×9.79	TH300×11.05	TH300×13.55	TH300×16.31
	功率 Powder (kW)	3	3	5.5	7.5
螺旋输送机 Screw Conveyor	型号 Model	SC219×4.5	LS245×6.2	LS315×10	LS315×10×2
	功率 Powder (kW)	3	4	7.5	7.5×2
卸料阀 Discharging Valve	型号 Model	ZJD200×2	ZJD250	ZJD300	300×2
	功率 Powder (kW)	0.75×2	1.1	1.5	1.5×2
脉冲除尘器空压机 Air Compressor of Impulse Bag Filter	型号 Model	DMC160	LDMC250	LDMC64-9	LDMC64-9×2
	功率 Powder (kW)	11	22	37	55×2

注：技术数据如果有变动，恕不另行通知。Any change of technical data, no prior notice.

EUROPEAN TYPE COARSE POWDER MILL

CM系列欧式粗粉磨粉机

产品简介 I Product Introduction

欧式粗粉磨主要由机壳、转子、承击铁和篦条等部分组成。机壳分上下两部分、由钢板切割后焊接而成，其余各部分用螺栓连接成一体，机壳内部镶有高锰钢衬板，磨损后方便更换。欧式粗粉广泛应用于治金、矿山、化工、水泥、爆研石、建筑、制砂、耐火材料及陶瓷等工矿企业中，从事物料粉碎作业。它主要是以粉碎抗压强度不高于320MD(兆帕)的各种软硬矿石。

This European type coarse powder hammer mill is consisted by the steel frame, rotor, blow bar, grizzly screen, etc. The upper part and lower part of steel frame are firmly welded while other parts are connected by the bolts. The steel frame is with high managanese steel liner which is easily changed if it is worn out, the steel frame is well protected. The European type coarse powder hammer mill is widely used to crush mineral ores evenly or finely with compressive stress below320mpa in industries like metallurgy, mining, chemicals, cement, construction, refractory, ceremic, etc.

应用领域 I Application field

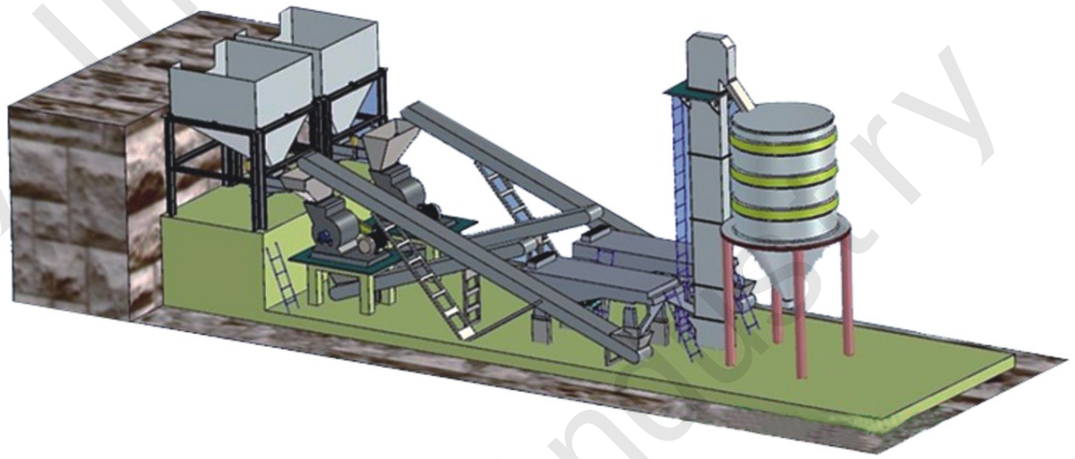
欧式粗粉磨广泛应于于冶金、矿山、化工、水泥、煤矸石、建筑、制砂、耐火材料及陶瓷等工矿企业中，从事物料粉碎作业。它主要是以粉碎抗压强度不高于320Mpa（兆帕）的各种软硬矿石。

The european type coarse powder hammer mill is widely used to crush mineral ores mediumly or finely with compressive stress below 320Mpa in industries like metallurgy, mining, chemicals, cement, construction, refractory, ceremic, etc.

技术优势 I Technical Advantages

- 生产能力高、粉碎比大；
- 电耗低、产品粒度均匀；
- 机械结构简单、紧凑轻便；
- 投资费用少、管理方便等优点。

- Big crushing ratio and large capacity;
- Low consumption and even granule;
- Simple design and compact structure;
- Modest investment and easy management.



规格与技术参数 I Specifications

名称 Name	CM4008	CM4012	CM4015
转子直径(mm) Rotor Diameter (mm)	750	900	1150
转子长度(mm) Rotor Length (mm)	800	1200	1500
转子转速(r/min) Rotor Rotation Speed (r/min)	800-1000	800-1000	550-800
锤头数量 Q'ty of Hammers (pcs)	18	32	32
进料粒度(mm) Input Size (mm)	<30	<40	<50
成品粒度 Output Size (mm)	0-3	0-5	0-8
产量 Capacity (t/h)	8-15	15-40	40-70
功率 Powder (kW)	75	90	132
外形尺寸 Overall Dimension (mm)	2130×1665×1610	2840×2100×2020	3720×2650×2540

ENERGY SAVING BALL MILL
节能球磨机

广泛应用于黑色、有色金属矿山、非金属矿山、建材、化工、电力、煤炭、交通、轻工等工业部门。我公司生产的高效节能球机均采用滚动轴承支承代替轴瓦滑动轴承支承，节能10-20%。

It is widely used in ferrous and non-ferrous metal mines, non-metal mines, building materials, chemicals, electric power, coal, transportation, light industry and other industrial sectors. The high-efficiency and energy-saving ball mill produced by our company all adopt rolling bearing support instead of bearing sliding bearing support. Energy saving 10-20%.

规格与技术参数 I Specifications

规格型号 Model	筒体转速 Rotary Speed(r/min)	装球量 Ball Load(t)	进料粒度 Input Size(mm)	出料粒度 Output Size(mm)	生产能力 Capacity(t/h)	电动机功率 Power(kW)	重量 Weight(t)
Φ900×1800	36-38	1.5	≤20	0.075-0.89	0.65-2	18.5	4.6
Φ900×3000	36	2.7	≤20	0.075-0.89	1.1-3.5	22	5.6
Φ1200×2400	36	3	≤25	0.075-0.6	1.5-4.8	30	12
Φ1200×3000	36	3.5	≤25	0.074-0.4	1.6-5	37	12.8
Φ1200×4500	32.4	5	≤25	0.074-0.4	1.6-5.8	55	13.8
Φ1500×3000	29.7	7.5	≤25	0.074-0.4	2-5	75	15.6
Φ1500×4500	27	11	≤25	0.074-0.4	3-6	90	21
Φ1500×5700	28	12	≤25	0.074-0.4	3.5-6	130	24.7
Φ1830×3000	25.4	11	≤25	0.074-0.4	4-10	130	28
Φ1830×4500	25.4	15	≤25	0.074-0.4	4.5-12	155	32
Φ1830×6400	24.1	21	≤25	0.074-0.4	6.5-15	180	34
Φ1830×7000	24.1	23	≤25	0.074-0.4	7.5-17	210	36
Φ2100×3000	23.7	15	≤25	0.074-0.4	6.5-36	210	34
Φ2100×4500	23.7	24	≤25	0.074-0.4	8-43	245	42
Φ2100×7000	23.7	26	≤25	0.074-0.4	8-48	280	50
Φ2200×4500	21.5	27	≤25	0.074-0.4	9-45	280	48.5
Φ2200×6500	21.7	35	≤25	0.074-0.4	14-26	370	52.8
Φ2200×7000	21.7	35	≤25	0.074-0.4	15-28	380	54
Φ2200×7500	21.7	35	≤25	0.074-0.4	15-30	380	56
Φ2400×4500	21	30	≤25	0.074-0.4	8.5-60	320	65
Φ2700×4000	20.7	40	≤25	0.074-0.4	12-80	400	94
Φ2700×4500	20.7	48	≤25	0.074-0.4	12-90	430	102
Φ3200×4500	18	65	≤25	0.074-0.4	25-130	800	137

CEMENT MILL / RAW MATERAL MILL
水泥磨/原料磨

规格与技术参数 I Specifications

规格型号 Model (m)	生产能力 Capacity (t/h)	磨机形式 Type of Mill	传动形式 Type of Transmission	功率 Power(kW)	减速机 Reduction Drive		重量 Weight(t)	备注 Remark
					型号 Model	速比 Speed Ratio		
Φ2.2×7	8-9	开流 open	边缘 edge	380	ZD7D	5	54	不含电机 Without Motor
Φ2.2×7.5	10-11	开流 open	边缘 edge	380	ZD7D	5	63	
Φ2.2×8	10-12	开流 open	边缘 edge	380	ZD7D	5	65	
Φ2.2×9.5	14-16	开流 open	边缘 edge	475	ZD7D	5	70	
Φ2.4×10	19-19	开流 open	边缘 edge	630	JR75	5.84	94.5	
Φ2.4×11	19-21	开流 open	边缘 edge	630	RZD80	6.3	99.2	
Φ2.4×13	21-23	开流 open	边缘 edge	800	MBY710	7.1	115.2	
Φ2.6×13	28-32	开流 open	边缘 edge	1000	MBY800	7.1	148	
Φ2.6×13	28-32	开流 open	中心 center	1000	MFY100	19.5	101.73	
Φ3×12	32-35	开流 open	边缘 edge	1250	MBY900	7.1	168.6	
Φ3×13	34-37	开流 open	边缘 edge	1400	MBY900	7.1	172.26	
Φ3.2×13	45-50	开流 open	边缘 edge	1600	MBY1000	7.1	196.26	
Φ3.8×13	60-62	开流 open	中心 center	2500	MFY250	18.5	204	
Φ4.2×13	85-87	开流 open	中心 center	3530	JOS3550	15.6	254	

规格型号 Model (m)	生产能力 Capacity (t/h)	磨机形式 Type of Mill	传动形式 Type of Transmission	功率 Power(kW)	减速机 Reduction drive		重量 Weight(t)	备注 Remark
					型号 Model	速比 Speed Ratio		
Φ2.2×7	12-13	圈流 close	边缘 edge	380	Zd70	5	54	不含电机 Without Motor
Φ2.4×7	15-17	圈流 close	边缘 edge	475	JR75	4.74	70.5	
Φ2.4×8	16-18	圈流 close	边缘 edge	475	JR75	4.74	78.5	
Φ3×9	42-47	圈流 close	边缘 edge	1000	MBY800	7.1	156.5	
Φ3.2×9	62-65	圈流 close	边缘 edge	1250	MBY900	7.1	184.5	
Φ3.8×7.5	80	圈流 close	边缘 edge	1600	JDX900	5.6	233	
Φ4.6×10+3.5	180	圈流 close	中心 center	3550	JOS3550	15.1	358	
Φ4.6×10.5+3.5	210	圈流 close	中心 center	3550	JOS3550	15.1	360	

COAL MILL
煤磨机

规格型号 Model	生产能力 Capacity (t/h)	筒体转速 Rotary Speed (r/min)	进料粒度 Input Size (mm)	装球量 Ball Load (t)	有效容积 Effective volume(m^3)	传动形式 Type of Transmission	主电机 Main motor	主减速机 Main reducer	重量 Weight(t)
Φ1.5×3	2-4	26.5	≤25	6.2	4.5	边缘 edge	Y315S-6/75kW	ZD40-4.5	17.8
Φ1.7×2.5	3-5	24.5	≤25	7.5	5.1	边缘 edge	JR116-6/95kW/380V	ZD40-4.5	19.436
Φ2.2×3	5-6	22	≤25	13	10.4	边缘 edge	JR136-8/180kW/380V	ZD50-4.87	31.48
Φ2.4×4.75	12	20.4	≤25	22	19.25	边缘 edge	YR400-8/280kW/6kV	ZD60-4.5	49.3
Φ2.4×4.5+2	12	20.4	≤25	22.6	18.25	边缘 edge	YRKK500-8/280kW/10kV	JD450-4.5	70.323
Φ3×6.5+2.5	20	18.4	≤25	46.5	43.3	边缘 edge	YRKK560-6/710kW/10kV	JDX630-6.3	118.3
Φ3.4×7.5+1.5	30-38	17.5	≤25	70	64.1	边缘 edge	YR800-8/1180/800kW/6kV	JDX710-6.3	160
Φ2.9×4.1	16	18.8	≤25	36	27.1	边缘 edge	JRO1510-8/475kW/6kV	JDX560-5	73.997
Φ2.8×5.75+2.25	18-20	18.7	≤25	38	32.9	边缘 edge	YRKK560-8/500kW/10kV	MBY630-4.5	116.313
Φ3.8×7+2.5	38	16.4	≤25	80	75	边缘 edge	YKK6304-8 125DkW 6kV	MBY710-5.0	175.374

INTERMITTENT BALL MILL
间歇式球磨机

间数式球磨机主要用于物料的混合、研磨产品的细度均匀、节省动力。既可干磨、也可湿磨。该机可以根据生产需要采用不同的衬板类型，以满足不同需要。研磨作业的细度，依靠研磨时间自行控制。电坳机自耦减压启动。降低起动电流其结构分为整体式和独立式。本产品具有投资少，较同类产品节能省电，结构新颖、使用安全、性能稳定可靠等特点，适合于普通和特殊材料的混合及研作业。用户可体据物料比重，硬度并根据产量等因素综合考虑选择合适的型号和板、介质类型。

Intermediate ball mills are mainly used for mixing and grinding materials. It has the advantages of energy saving, high efficiency and uniform product fineness. The machine can be used for dry grinding and wet grinding. The fineness of the product is controlled by the grinding time. The motor is started by auto-coupling step-down. Reduce starting current. Its structure is divided into integral type and independent type. The user can choose the appropriate model and the type of lining board and grinding media according to the specific gravity and hardness of the material, as well as the output and other factors.

规格与技术参数 I Specifications

规格型号 Model	装料量 Material Load (t)	筒体转速 Rotary Speed (r/min)	参考动力 Power (kW)	衬板材质 Material of Liner
600×700	0.05	50	2.2-4	陶瓷、砖石、橡胶、金属 (配套动力依据采用衬板材质和研磨物料的不同会有所差异) Ceramics, masonry, rubber, metal (make the power dillerark accorongly)
800×600	0.075	42	3-5.5	
900×1200	0.2	38.5	5.5-11	
1300×1500	0.5	33	18.5-37	
1500×1800	1.2	28.5	30-75	
1800×2000	1.5	24	15-115	
2600×2800	5	16.5	115-310	
3000×3800	10	14.5	280-570	
3200×4600	15	13.5	380-800	

MB ROD MILL
MB棒磨机

MB棒磨机广泛应用于金属和非金属矿矿山、水利、玻璃建材，以及人工造砂等对产品粒度要求均匀,过粉砂物料少的行业。我公司生产的高效节能棒磨机均采用滚动轴承支承代替轴瓦滑动轴承支承。同滑动轴承支承相比，可以节能10-20%。

MB rod mills are widely used in metal and non-metal mines, water conservancy, glass building materials, and artificial sand making industries that require uniform product particle size and less fine material. The high-efficiency and energy-saving rod mills produced by our company all adopt rolling bearing support instead of bearing sliding bearing support. Compared with sliding bearing support, it can save energy by 10-20%.

规格与技术参数 I Specifications

型号 Model	外形尺寸（直径×长度） Cylinder Size (D×L) (mm)	筒体有效容积 Effective Volume(m^3)	装球量 Ball Load(t)	筒体转速 Rotary Speed (r/min)	功率 Power (kw)	排矿粒度 Output Size(mm)	产量 Capacity(t/h)	重量 Weight(t)
MB0918	Φ900×1800	0.85	2.3	38	22	2.5-0.2	6-1.6	6.2
MB0924	Φ900×2400	1.15	3.1	38	30	2.5-0.2	10-2.9	6.6
MB1224	Φ1200×2400	2.2	6.5	32	55	2.5-0.2	13-5	13.5
MB1530	Φ1500×3000	5.0	8	27	75	2.5-0.2	12-5.5	16.7
MB1830	Φ1800×3000	6.5	17	22.8	132	2.5-0.2	20-9.5	29.8
MB2122	Φ2100×2200	6.7	18	20.9	160	2.5-0.2	27-12	42.5
MB2130	Φ2100×3000	9.2	25	20.9	160	2.5-0.2	30-13	43.9
MB2136	Φ2100×3600	11.0	28	20.9	200	2.5-0.2	35-14.8	49.4
MBZ2136	Φ2100×3600	11.0	32.5	20.9	210	-5.0	61.5-43	49.9
MB2140	Φ2100×4000	12.2	31	20.9	220	2.5-0.2	38-17	50.3
MB2145	Φ2100×4500	13.8	35	20.9	250	2.5-0.2	43-19	51.8
MB2430	Φ2400×3000	12.2	31	19	250	2.5-0.2	47-22	56.0
MBZ2430	Φ2400×3000	12.2	31	19	250	-5.0	73-52	58.3
MB2436	Φ2400×3600	14.6	37	19	280	2.5-0.2	55-26	61.0
MBZ2436	Φ2400×3600	14.6	37	19	280	-5.0	84-60	62.4
MB2730	Φ2700×3000	15.3	35	17.5	315	5-0.8	125-37.5	75.6
MB2736	Φ2700×3600	18.4	42	17.5	355	5-0.8	150-45	81.8
MB2740	Φ2700×4000	20.5	47	17.5	400	5-0.8	165-50	84.3
MB3040	Φ3000×4000	25.9	50	16.2	500	5-0.8	206-62	130
MB3245	Φ3200×4500	33	56	15.5	630	5-0.8	228-70	138
MB3248	Φ3200×4800	34	60	15.5	710	5-0.8	240-74	142
MB3645	Φ3600×4500	40.8	78	14.5	800	5-0.8	270-83	168
MB3654	Φ3600×5400	50	94	14.5	1000	5-0.8	340-103	192