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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

MTW系列欧版梯形磨
Continental Trapezoid Mill

MTW系列欧式梯形磨粉机 Continental Trapezoid Mill



Classic

我们视为标准，人们称为杰作。
Where we see a standard, others see a masterpiece.

MTW

系列欧版梯形磨 Continental Trapezoid Mill

产品概述

MTW系列欧式梯形磨粉机，是我公司专家在长期磨机研发经验基础上，采纳9518位磨粉机使用客户的建议，经潜心研究创新设计出的最新型磨粉机。本系列机型采用锥齿轮整体传动、内部稀油润滑系统、弧形风道等多项最新技术，已达到国际先进技术水平，拥有多项自主专利技术产权。

Brief Introduction

MTW continental trapezoid mill are designed by our experts, according to advices of customers' long-term experiences. They adopt bevel gear integral transmission, inner light-oil lubrication system, arc whirl tube and another proprietary technology. And obtain international advanced technology as well as many proprietary intellectual property rights.



MTW138



技术优势

- 1.采用锥齿轮整体传动，结构更加紧凑，安装调试更加方便快捷，效率大为提高；
- 2.采用内部油泵，轻松实现主轴承和齿轮轴承的润滑，无需另配油泵或润滑站；
- 3.采用全新曲面型风道，切向气流进口顺滑、阻力小；内部出口方向有利于物料的分散，不易堵料；
- 4.铲刀的刃部采用高耐磨合金材料单另制作，不仅提高使用寿命，更可单独更换刀刃，充分利用材料；曲面型铲刀可将物料导向立面，使磨辊磨环上、中、下部都能接触物料，磨损均匀，同时通过加大有效工作面积增加产量；
- 5.内筒与混合气粉流之间采用隔离结构，能够有效提高选粉效率和选粉精度；
- 6.采用无阻力进风蜗壳（小观察门无涡流），使内部门板内面与进风蜗壳内面在同一曲面上，可有效的避免涡流效应。

Technical Advantage

- 1.MTW series mills adopt bevel gear Integral transmission that compact the whole structure and simplify the installation as well as improve the efficiency
- 2.MTW series mills adopt light-oil lubrication achieve the lubrication of bearing without oil pump and lubrication station.
- 3.MTW series mills adopt arc whirl tube reduce the resistance and avoid the air-stop and so on.
- 4.The edge of MTW series mill adopts wearable alloy materials which improve the service life. The Changeable edge is easy to change that save time and cost. The curved surface shovel makes a vertical material liner which increases the working face and capacity.
- 5.Adopt Isolating structure between the inner core and mixed air flow that improve the classifying efficiency and precision.
- 6.MTW series mill adopts the same curved surface which avoids the eddy effect.

适用范围

该机主要适用于冶金、建材、化工、矿山等矿产品物料的粉磨加工，可粉磨石英、长石、方解石、滑石、重晶石、莹石、稀土、大理石、陶瓷、铝矾土、锰矿、铁矿、铜矿、磷矿石、氧化铁红、锆英砂、矿渣、水渣、水泥熟料、活性炭、白云石、花岗岩、石榴子石、氧化铁黄、豆饼、化肥、复合肥、粉煤灰、烟煤、焦煤、褐煤、菱美砂、氧化铬绿、金矿、红泥、粘土、高岭土、焦炭、煤矸石、瓷土、蓝晶石、氟石、膨润土、麦饭石流纹岩、浑绿岩、叶腊岩、叶岩、紫砂岩、透岩石、玄武岩、石膏、石墨、炭化硅、保温材料等莫氏硬度在 9 级以下，湿度在 6% 以下的各种非易燃非易爆矿产物料的加工。

Application

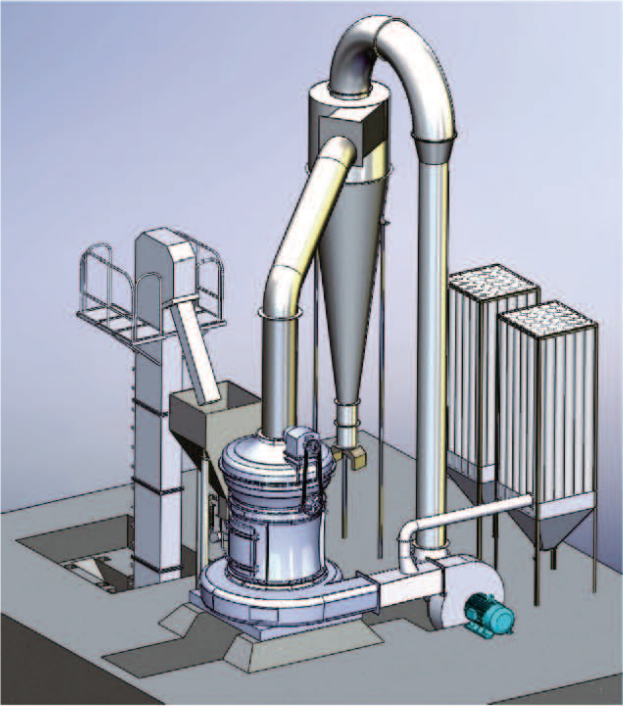
This series mills are mainly applied to the powder processing of mineral products in the industries of metallurgy, construction materials, chemical, and mining, etc. They can produce powder from various non-flammable and non-explosive mineral materials with Mohs hardness below 9.3 and humidity below 6%, such as quartz, feldspar, calcite, talcum, barite, fluoride, Xlrcm, clnder, white lime, cement clinker, activated carbon, dolomite, granite, soft coal, coking coal, lignite, magnesia, chromium oxide green, gold ore, red clay, clay, kaolin, coke, coal Gangue, porcelain clay, kyanite, fluorspar, bentonite, medicinal stone lparite, diabase, pyrophyllite, shale red stone, emeraldite, basalt, gypsum, graphite, carborundum, heat insulating material, etc.

工作原理

- 大块状物料经颚式破碎机破碎到所需粒度后，由提升机将物料送至储料斗，再经振动给料机将料均匀定量连续地送入主机磨室内进行研磨，粉磨后的粉子随风机气流上升，经选粉机进行分级，符合细度的粉子随气流经管道进入旋风收集器内，进行分离收集，经出粉阀排出即为成品粉子。气流由旋风集粉器上端回风管吸入离心引风机，本机整个气流系统是密闭循环的，并且是在正负压状态下循环流动的。
- 主机工作过程是通过锥齿轮带动中心轴转动，轴的上端联结着磨辊吊架，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，还围绕着磨环公转，磨辊本身因摩擦作用而自转。磨辊吊架下装有铲刀，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）将物料碾碎，由此而达到制粉目的。
- 选粉机通过调整叶片转速，形成对粉子的分级作用。叶片转速的快慢是按成品粉子粒度大小进行调节。
- 旋风集粉器对磨粉机的性能有重要作用。当带粉气流进入收集器时，高速旋转的含尘气体沿体壁螺旋向下运动，同时气流与粉子分离，并掉落被收集。

Working Principle

- Firstly, raw material should be crushed by the jaw crusher to the size specified, and then the crushed stuff is elevated into a hopper from which the stuff is loaded, through the vibrating feeder, evenly and continuously into the grinding chamber for power-processing. After this, the ground stuff is carried by the air from the blower into the Classifier for screening. The fine powers are blow into the cyclone collector and are poured out through the output-powder valve as the final products and the rough stuff after the screening will be recycled back into the grinding chamber for regrinding. The set's airflow system is closely sealed up and circulated under condition of negative and positive pressure.
- The grinder is driven by rotation of the central le through decelerator, with the up end of the axle connecting to a quincunx-rack upon which the grinding equipment is fixed.The whole set equipaxment turns together with the axle along the grinding ring while the rollers rotate driven by the fractional force. A set of shovel are installed at the lower end of the quincunx-rack, and positioned at the piece under the lower-end of the rollers. While turning together with the rollers, the shovels shed the stuff onto the gap between the rollers and the ring and the stuff layer is formed there.
- The rotating rollers, while turning together with the ring, grind the stuff layer into power. To separate the ground stuff into the fine power-product and the rough stuff is done through vane on the turntable driven by a speed adjustable motor. The turning speed of the impeller can be adjusted to the requirement of the fineness of powder products.
- It plays an important rolin ensuring the smooth functioning of the grinder. As the high-speed revolving air current mixed with ground stuff is flown into the cyclone-collectore , the ground stuff is separated from the air-current.



MTW138全套磨粉机布置图
Layout diagrams of MTW138 grinding mill

组成结构

欧式梯形磨粉机整套设要由主机、选粉机、风机、颚破、畚斗提升机、电磁振动给料机、储料仓、布袋除尘器、管道装置、旋风集粉器、电控柜、电机等组成。

该系列磨粉机整机为立式结构，占地面积小，成套性强，而且主机传动装置采用密闭齿轮箱，传动平稳。磨机的重要部件均采用优质钢材制造，因此整机耐用可靠。磨粉机电器系统采用集中控制，选型先进合理，自动化程度高，振动给料机体积小重量轻，易于调节并省电。

Components and Structure

The standard configuration of MTW series Mill consists of main unit, powder classifier, blower, elevator, feeder, hopper, cyclone collector, dust catcher, blower, motor, pipe, electric control box and so on. MTW series mill system adopts vertical structure; occupies only a small area and main unit owns sealed gear box as well as transmits evenly. The important parts adopt high quality steel. The electric system adopts centralization of control. Feed size is small and light that save the energy.

规格与性能参数表 | Specifications

参数		产品		
名称 Name		MTW110	MTW138	MTW175
磨辊数量	Roller number(pcs)	4	4	5
磨环内径	Inner diameter of roller(mm)	φ1100	φ1380	φ1750
主机转速	speed (R/PM)	120	96	75
进料最大尺寸	Max.feed size (mm)	<30	<35	<40
成品粒度	Final size (mm)	1.6~0.045 最细可达0.038 Fineness can reach to 0.038	1.6~0.045 最细可达0.038 Fineness can reach to 0.038	1.6~0.045 最细可达0.038 Fineness can reach to 0.038
产量	Capacity (t/h)	3.5~10	6.5~15	11~25
外型尺寸	Overall dimension (mm)	8910×6950×9010	9860×8340×10227	13500×11500×9500

注：表中产量指磨磨石灰石，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		
Specification and technical data		Specification and technical data		
项目 Item		MTW110	MTW138	MTW175
主机电动机 Motor of main machine	型号 Model	Y280M-6	Y315M1-6	Y355M1-6
	功率 power (kw)	55	90	160
	转速Spindle speed(R/PM)	980	990	990
选粉机调速电动机 Motor of adjustable varying speed motor	型号 Model	YCT200-4A (YCT200-4B)	YCT200-4P (YCT225-4A)	YCT225-4A (YCT225-4B)
	功率 power (kw)	7.5	18.5	30
	转速Spindle speed(R/PM)	125~1250	125~1250	125~1250
离心引风机电动机 Motor of blower	型号 Model	Y250M-4	Y280M-4	Y315L1-4
	功率 power (kw)	55	110	200
	转速Spindle speed(R/PM)	1480	1480	1490
辅机部分 Auxiliary Parts	斗提 Elevatotr	斗提型号 Model	Th210	TH315
		电机型号 Motor	Y100L2-4	Y100L2-4
		电机功率 power (kw)	3	4
	颚式 Jaw crusher	转速Spindle speed(R/PM)	1420	1420
		斗提型号 Model	PE250×400	PE250×400
		电机型号 Model	Y180L-6	Y180L-6
	给料机 Feeder	功率 power (kw)	15	15
		转速Spindle speed(R/PM)	970	970
		型号 Model	GZ2F	GZ3F
		功率 power (w)	150	200

注：表中产量指磨磨石灰石，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.