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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

MTM 中速T行磨粉机
Medium Speed Trapezium Mill

MTM

中速T形磨粉机 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 world leading powder making technology. Our machine adopts numbers of national patents of mill, such as trapezium working surface, flexible connection, roll linked press ure 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.



MTM100

技术优势

MTM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

该机可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。使装置的整个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

配用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，确保进入进风蜗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.





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、迭岩石、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, Xircom, cinder, 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 liparite, diabase, pyrophyllite, shale red stone, emeraldite, basalt, gypsum, graphite, carborundum, heat insulating material, etc.

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

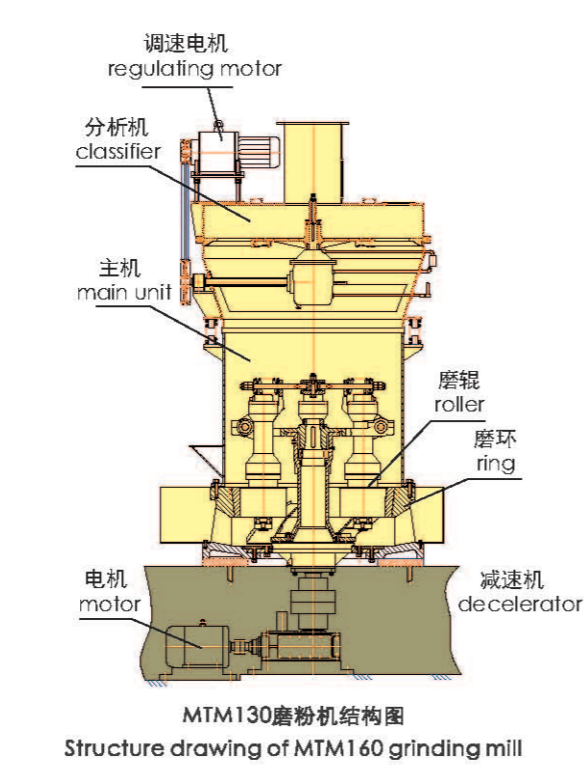
The entire cycle of events in the machine requires these steps: the speed reducer promotes the revolving of centering axis, there is a cinquefoil shelf connected on the top of the axis, and the roller device is equipped on the shelf and forms a swing pivot. The roller device not only rotates around the centering axis but also revolves round 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 nonflammable 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 calciummagnesium phos-phate, porcelain, glass, etc.

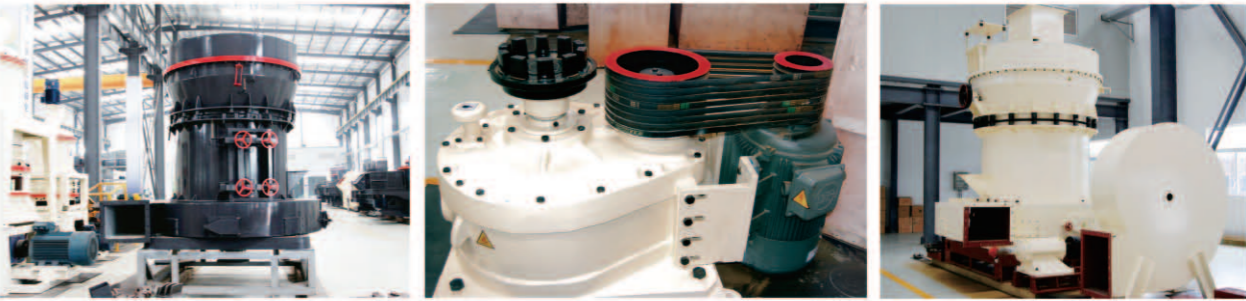


设备组成

MTM中速T型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.



主要技术参数表 | Main Specification

名称 Name	环辊数量 Number of roller (piece)	磨辊大径×高度 Major diameter of roller × Height (mm)	磨环内径×高度 Internal diameter of ring × Height (mm)	主机转速 Main engine spindle speed (r / min)	最大 进料粒度 Maximum feeding grain size. (mm)	成品粒度 Grain size of finished product (mm)	产量 Output (t/h)	全套外型尺寸 Overall dimension (mm)
MTM100	4	Φ 310×170	Φ 950×170	130	25	1.6~0.045 最细可达0.038	3-8.8	7100×5900×7900
MTM130	5	Φ 410×210	Φ 1280×210	103	30	1.6~0.045 最细可达0.038	6-11	9200×7250×9700
MTM160	6	Φ 440×270	Φ 1600×270	82	35	1.6~0.045 最细可达0.038	9-22	12550×5700×8355

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.

规格、技术数据 Specification and technical data		型号 Model		MTM100	MTM130	MTM160
项目 Item						
主机电动机 Motor of main machine	型号 Model			Y225S5	Y280S-4	Y315M-4
	功率 power (kw)			37	75	132
	转速 Spindle speed(R/PM)			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
	功率 power (kw)			5.5	7.5	18.5
	转速 Spindle speed(R/PM)			125~1250	125~1250	125~1250
提升机电动机 Motor of blower	型号 Model			Y100L2-4	Y100L2-4	Y112M-4
	功率 power (kw)			3	3	4
	转速 Spindle speed(R/PM)			1420	1420	1420
离心引风机电动机 Motor of blower	型号 Model			Y225S-4	Y280S-4	Y315S-4
	功率 power (kw)			37	75	132
	转速 Spindle speed(R/PM)			1480	1480	1480
颚式破碎机 Jaw crusher	型号 Model (PE)			200×350	250×400	250×750
	电机型号 Model			Y160M-6	Y180L-6	Y200M-6
	功率 power (kw)			7.5	15	22
	转速 Spindle speed(R/PM)			970	970	970
电磁振动给料机 Electro magnetism vibrating feeder	型号 Model			GZ2F	GZ3F	GZ3F
	功率 power (kw)			0.15	0.2	0.2

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.