

MTW 欧版磨粉机

MTW European Powder Mill



能耗小，效率高
内置稀油润滑及循环水冷系统
成品粒度可调可控、选粉效率高

Low energy consumption, High efficiency
inner automatic thin-oil lubricating system and circulating water cooling system
Final product size is adjustable and controllable

产品简介
Product Introduction



MTW欧版磨粉机是上海山启最新推出的新型欧版磨粉机，在积累了多年生产经验的基础上，引进欧洲最新磨粉技术及理念，并结合磨粉机行业的市场需求以及实际使用状况而研发的一种具有国际领先技术水平的新型粉磨设备。

MTW series European Powder Mill is the latest grinding mill. On the basis of many years' producing experience, we absorb the European advanced technology, combining the actual requirement and proposal of customers. This series grinding mill leads the trend of the milling industry in the world.

性能特点

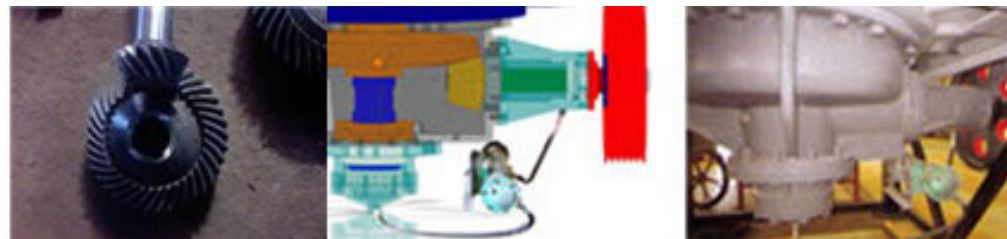
Features

1. 能耗小，效率高

MTW系列欧版磨粉机采用锥齿轮整体传动，结构紧凑，无需减速机、易于安装，提高效率。

1. Low energy consumption, High efficiency

MTW series European grinding mill adopts the bevel gear overall drive: compact structure, without the reducer, easy to be installed and improve the efficiency.



性能特点
Features

2.先进可靠的内置稀油润滑及循环水冷系统

MTW系列欧版磨粉机无需外置油泵或润滑站，在机器内部设有内部油泵，能够润滑主轴轴承和圆锥齿轮轴轴承，自动供油，降低传动阻力；循环水冷系统保证主轴及轴承温度恒定，延长设备使用寿命。

2.Advanced inner automatic thin-oil lubricating system and circulating water cooling system

MTW series European grinding mill adopts inner L.O.pumps, so the main shaft bearing and bevel gear can be lubricated without an additional lubrication system. The circulating water cooling system can make the main shaft and bearing temperature be constant, which extend the equipment lifespan.

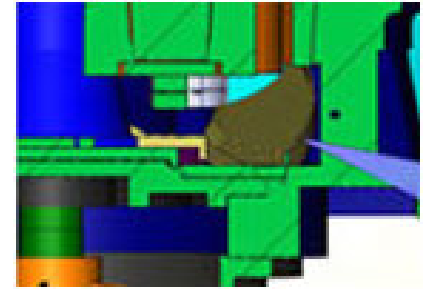
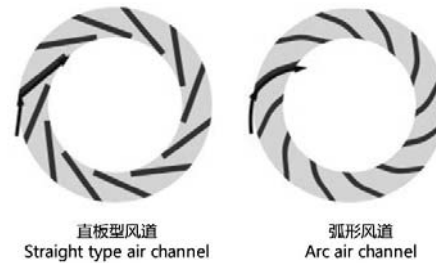
3.弧形风道，整体采用曲面型设计，无阻力进风蜗壳

MTW系列欧版磨粉机采用曲面型风道，内部出口方向无气流死角，利于物料分散，不易堵料；内部门板内面与进风蜗壳内面在同一曲面上，避免涡流效应导致的能量流失，阻力小。

3.Arc air channel, overall cambered design,no resistance snail shell

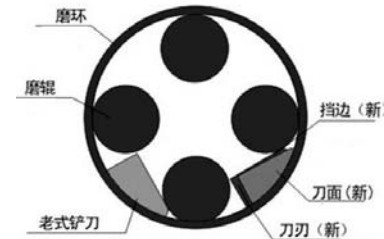
MTW series European grinding mill adopt the arc air channel,there is no airflow corner in the inner outlet, which is very good for the grinded material to spread around and avoid grinding material jammed;

The inner surface of checking door stays with the inner surface of snail shell on the same plane, so the eddy air flow is avoided efficiently.



4.磨辊及磨环特殊结构设计、曲面可换刀刃铲刀，提高磨粉效率，降低使用成本

MTW系列欧式磨铲刀刃部材料采用高耐磨合金，延长使用寿命，只需更换刀刃部分，提高材料利用率。曲面型铲刀可将物料导向立面，使磨辊磨环上、中、下部都能粉磨，使其均匀磨损，同时也增大了有效工作面积，从而增加了产量。



磨环 : Ring 磨辊 : Roller 老式铲刀 : Traditional Blade
挡边 (新) : Rib (New) 刀面 (新) : Tool Face(New) 刀刃 (新) : Blade (New)

性能特点 Features

4. Grinding roller and grinding ring adopt the special structure design, cambered shovel with renewable edge, which improves the grinding efficiency and reduces the cost

MTW series European grinding mill adopts high wearable limit alloy, its life will be longer. You only need change the edge, not the whole shovel, so the steel material is saved. Additionally, the cambered shovel can scoop up the grinded material in the same vertical plane, that makes the rollers and ring worn equally. At the same, the grinding efficiency is higher and capacity is higher.

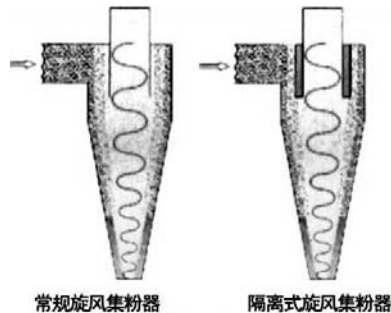
5. 成品粒度可调可控、选粉效率高

分析机转速采用变频控制，转速更加精确，细料分选效果更佳；隔离式旋风集粉器、选粉效率大大提高，内筒与混合气粉流之间采用隔离结构，能够有效的提高选粉效率和选粉精度。

5. Final product size is adjustable and controllable

Analyzer speed is controlled by frequency conversion, speed is more accurate, fine material separation effect is better;

Separated cyclone: There is a separated structure between inner piping and mixed air and powder. The efficiency and precision of classifying is prompted highly.



常规旋风集粉器: Conventional Cyclone Powder Collector

隔离式旋风集粉器: Separated Cyclone Powder Collector

6. 注重环保，噪音小

MTW系列欧版磨粉机工作噪音小，配备先进的除尘器、粉尘排放浓度完全低于国家环保规定。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，独特的空气自循环系统，大大降低了外排风量，降低粉尘、利于环保。

6. Environmental protection and low noise

MTW series European grinding mill is equipped with the advanced dust collector, the concentration of discharged dust is lower than the national environmental protection rule.

The air system is closed loop and flows circularly in a positive-negative pressure state. The special air circulation system reduces the outside exhaust air rate, that is good for the environmental protection.

7. 人性化设计、易于操作

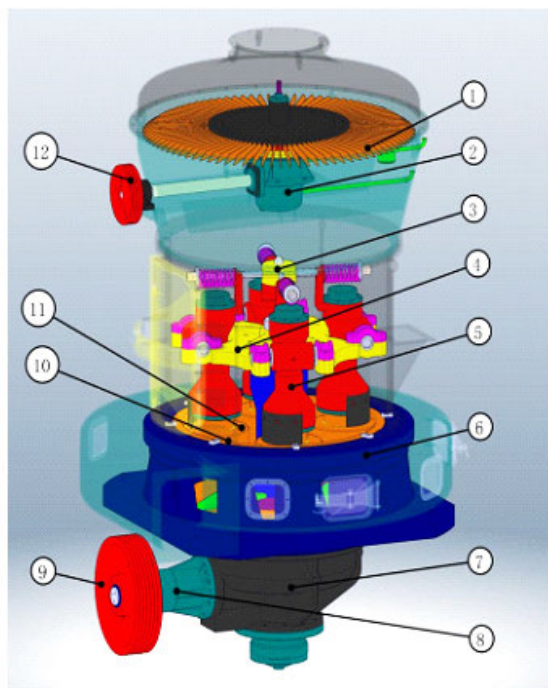
MTW系列欧版磨粉机内部结构先进，外观也采用优美的弧形结构设计，整台机器更加人性化。

7. Perfect outward appearance

Both of the inner parts and outer part of the MTW series mill adopt advanced structure and beautiful arc structure design. This makes the mill advanced and beautiful.

主机内部结构
The inside structure of the main unit

适用范围
Application



- | | |
|-------------------------------|---------------------------------------|
| 1.选粉机叶片 : Classifier Vane | 7.齿轮箱 : Gearbox |
| 2.选粉机油池 : Classifier Oil Pool | 8.传动轴部分 : Transmission Shaft Part |
| 3.铰座 : Hinged Support | 9.主机皮带轮: Belt Pulley of Main Unit |
| 4.磨辊吊架 : Roller Hanger | 10.磨环 : Ring |
| 5.磨辊部分 : Roller Part | 11.磨辊 : Roller |
| 6.机座 : Engine Base | 12.分析机皮带轮 : Belt Pulley of Classifier |

MTW系列欧式磨粉机主要适用于冶金、建材、化工、矿山等矿产品物料的粉磨加工。可粉磨方解石、白垩、碳酸钙、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、浮石等温度小于6%，莫氏硬度在9级以下非易燃易爆的非金属物料。

MTW series European Powder Mill is widely used in the industries of metallurgy, construction, mining and chemical. It is mainly used to grind the materials includeing calcite, creta, dolomite, kaolinite, bentonite,



talcum, magnesite, illite, pyrophyllites, vermiculite, sepiolite, attapulgit, rectorite, diatomite, barite, plaster, alum stone, graphite, fluorite, phosphate ore, kalium ore, pumice and other nonmetal materials' moisture under 6% and Moh's hardness under 9 degree, all of the materials are non-flammable and

工作原理 Working Principle

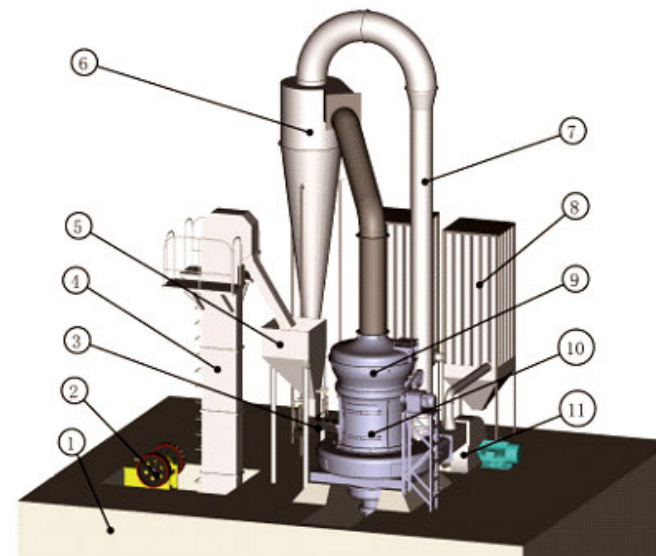
大块物料经破碎机破碎到所需粒度，由提升机送至储料斗，经振动给料机将物料定量连续地送入主机内进行研磨，粉磨后的粉体随离心风机气流上升，进入选粉机分级，符合细度标准的粉体随气流经管道进入旋风集粉器内进行分离收集，经卸料阀排出即为成品粉体。气流由旋风集粉器上端回风管进入离心引风机，整个气流系统密闭循环，在正负压状态下循环流动。在离心引风机出口处增设排气管道，将多余气体排入除尘器内进行过滤，然后排出洁净气体，实现环保生产。

First, raw product must turn out to be crushed from the jaw crusher in the direction of the dimension specified, the crushed material will be transferred from the elevator to the hopper, through the vibrating feeder, evenly and constantly in to the grinding chamber for power-processing. After grinding, the powder will rise to the classifier for classification through the centrifugal fan air flow. The suitable powder is blow in to the cyclone collector and therefore are poured out through the output-powder valve. The last products and the hard material pursuing the screening can be recycled back again in to the grinding chamber for regrinding. The set's airflow method is closely sealed up and circulated under the state of positive-negative pressure. The exhaust duct will be added in the outlet of centrifugal wind fan. The unnecessary gas will be discharged into the dust collector for further filtering, then discharge clean gas for realizeing the environmental protection production.

生产线组成 Product Structures

整套设备包括：磨粉主机、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。

The assembly includes main unit, powder concentrator, air blower, jaw crusher, bucket elevator, hopper, dust collector, pimping installation, powder collector, cabinet and motor.



- 1.混凝土基础 : Concrete Foundation
- 2.颚破 : Jaw Crusher
- 3.电磁振动给料机 : Electro-Vibrating Feeder
- 4.畚斗提升机 : Bucket Elevator
- 5.料仓 : Hopper
- 6.旋风集粉器 : Cyclone Powder Collector

- 7.管道 : Pipeline
- 8.除尘器 : Dust Collector
- 9.分析机 : Classifier
- 10.主机 : Main Unit
- 11.风机 : Draught Fan

产品规格

Product Specification

产品图片

Product pictures

型号 Model	MTW110T	MTW138T	MTW175T	MTW215T	
磨环内径 Inner Diameter of Ring (mm)	Φ1100	Φ1380	Φ1750	Φ2150	
主机转速 Main Unit Speed(r.p.m.)	120	96	75	65	
入料粒度 Feeding Size (mm)	≤30	≤35	≤40	≤50	
成品粒度 Final Size (mm)	1.6-0.045 最细可达 fineness can reach to 0.038	1.6-0.045 最细可达 fineness can reach to 0.038	1.6-0.045 最细可达 fineness can reach to 0.038	1.6-0.055 最细可达 fineness can reach to 0.045	
处理能力 Capacity (t/h)	3 ~ 10	6 ~ 20	10 ~ 35	20 ~ 50	
电机功率 Motor Power (kw)	主机 Main Engine	55-75	90-110	160-200	280-315
	选粉机 Classifier	7.5-11	18.5-30	30-45	75-90
	离心风机 Centrifugal Induced Draft Fan	55-75	90-132	185-200	280-315
外形尺寸 Dimension (L×W×H) (mm)	8425×7933 ×8642	10920×9470 ×10227	12195×9555 ×9916	13922×9810 ×13226	



现场图片
Products on site

企业介绍
Enterprise Introduction



上海山启机械制造有限公司是中国知名的破碎筛分设备制造商。我们为客户提供全系列破碎筛分设备，包括圆锥破碎机、颚式破碎机、反击式破碎机、立轴冲击破碎机(制砂机)、移动式破碎站和振动筛，我们不仅为客户提供高性价比的产品，还提供一流的服务支持及解决方案。我们的破碎设备在大量的基础建设工程中得到应用，另外，成套设备已出口到俄罗斯、蒙古、中亚、非洲等国家和地区。

公司拥有多名国内破碎筛分的专家，具有强大的新产品研发能力。公司非常重视国际技术交流与合作，先后引进了美国、德国、澳大利亚等国家的先进技术和工艺，拥有生产设备百余台套。时刻关注新产品、新技术的研发，并成立了砂石机器和选矿设备的研究室。



■ ■ 企业介绍
■ ■ Enterprise Introduction

山启机械 ■ ■
Shunky Machinery ■ ■

Shanghai Shunky Machinery Co. Ltd is a famous manufacturer of crushing and screening equipments in China. We provide our customers complete crushing plant, including cone crusher, jaw crusher, impact crusher, VSI sand making machine, mobile crusher and vibrating screen. What we provide is not just the high value-added products, but also the first class service team and problems solution suggestions. Our crushers are widely used in the fundamental construction projects. The complete crushing plants are exported to Russia, Mongolia, middle Asia, Africa and other regions around the world.

We have many crusher experts who are capable of new products searching and developing. We pay high attention on the international communication and cooperation and introduced advanced technology from Germany, America and Australia these years. We also have built research room in our company.



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PRODUCE PERFECT PRODUCTS SHUNKY MACHINERY TAKES THE LEAD IN THE WORLD