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工业制粉设备与技术
Industrial Pulverizing Machinery and Technology



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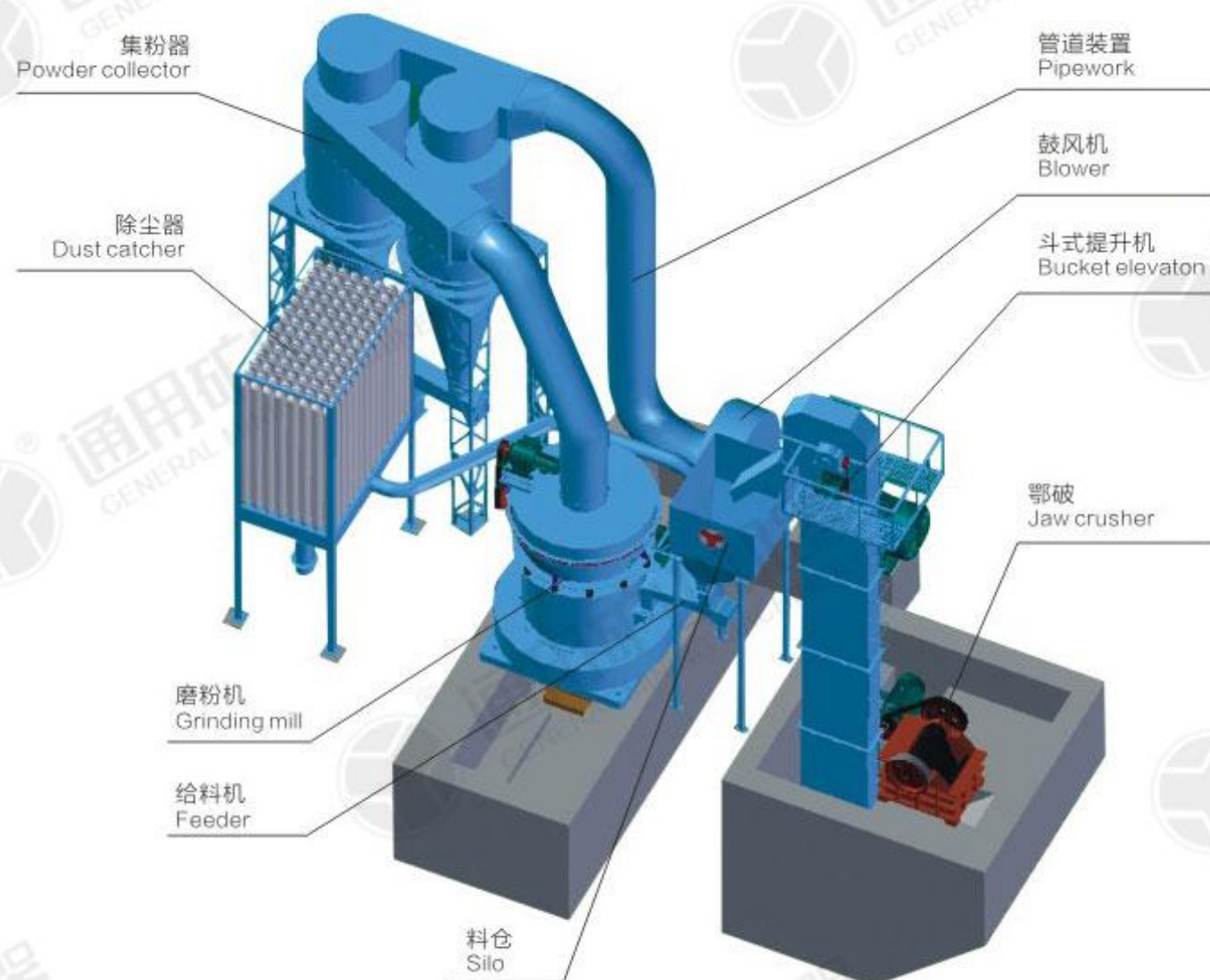
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郑州通用矿山机械有限公司
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磨粉生产线 Mill Production Line



磨粉机的用途:

Usage of Mill:

该机主要用于冶金、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、萤石、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、叶腊石、页岩、紫砂石、迭岩石、玄武石、石膏、石墨、碳化硅、保温材料等莫氏硬度在9.3级以下，湿度在6%的各种非易燃易爆矿产物料的加工。

It is mainly used in the field of metallurgy, building materials, chemicals, mining and such mineral materials for grinding process. This mill can grind materials with Mohs hardness below 9.3 and humidity below 6%, various non-flammable mineral materials, such as quartz, feldspar, calcite, talcum, barite, fluorite, rare earth, marble, ceramics, bauxite, manganese ore, iron ore, copper ore, phosphate rock, iron oxide red, zircon sand, slag, water granulated slag, cement clinker, activated carbon, dolomite, granite, garnet, iron oxide yellow, bean cake, fertilizer, compound fertilizer, fly ash, bituminous coal, coking coal, lignite, magnesite sand, chromium oxide green, gold ore, red mud, clay, kaolin, coke, coal gangue, porcelain clay, kyanite, fluorspar, bentonite, medical stone rhyolite rocks, muddy green rock, pyrophyllite, shale, purple rock, Diego rock, basalt, gypsum, graphite, silicon carbide, insulation materials and so on.



我公司现生产磨粉机系列产品:

1. 欧版磨粉机 (MTW138, MTW175, MTW215)
2. 高压悬辊磨粉机 (YGM130, YGM139, YGM160, YGM190)

Grinding Mills Manufactured by Our Company:

1. European version grinding mill (MTW138, MTW175, MTW215)
2. High pressure suspension roller grinding mill (YGM130, YGM139, YGM160, YGM190)

欧版磨粉机(MTW138, MTW175, MTW215)
European Version Grinding Mill (MTW138, MTW175, MTW215)



欧版磨的九大特点:

1. 采用锥齿轮整体转动, 能量损耗小、效率高。
2. 内部采用了稀油润滑系统, 使用操作更加便捷可靠。
3. 采用了弧形风道, 风量损失小, 物料流动性好。
4. 曲面可更换刀刃铲刀。
5. 分析机上壳流线型设计, 阻力大大降低。
6. 粉磨效率提高, 使用成本降低。
7. 无阻力进风蜗壳 (小观察门无涡流)
8. 粒度可调控, 选粉效率高。
9. 磨辊装置采用联动增压, 技术先进。



Nine Features of European Version Grinding Mill:

1. Adopting bevel gear integral drive-system achieves small energy loss and high efficiency.
2. Inner automatic Thin-Oil lubricating system, make the operation more convenient reliable.
3. Arc air channel guarantees small loss of the air volume and good material flow.
4. Cambered shovel with renewable edge.
5. Streamlined design of classifier's top cabinet makes resistance greatly reduced.
6. Higher powder grinding efficiency and lower cost.
7. No resistance snail shell (small checking door so that there is not an eddy air flow)
8. Output size is adjustable and controllable the powder selecting efficiency is higher than before.
9. Roller device adopts linkage pressurization which is using the most advanced technology.



欧版磨粉机技术参数:

Technical Parameter of European Version Grinding Mill:

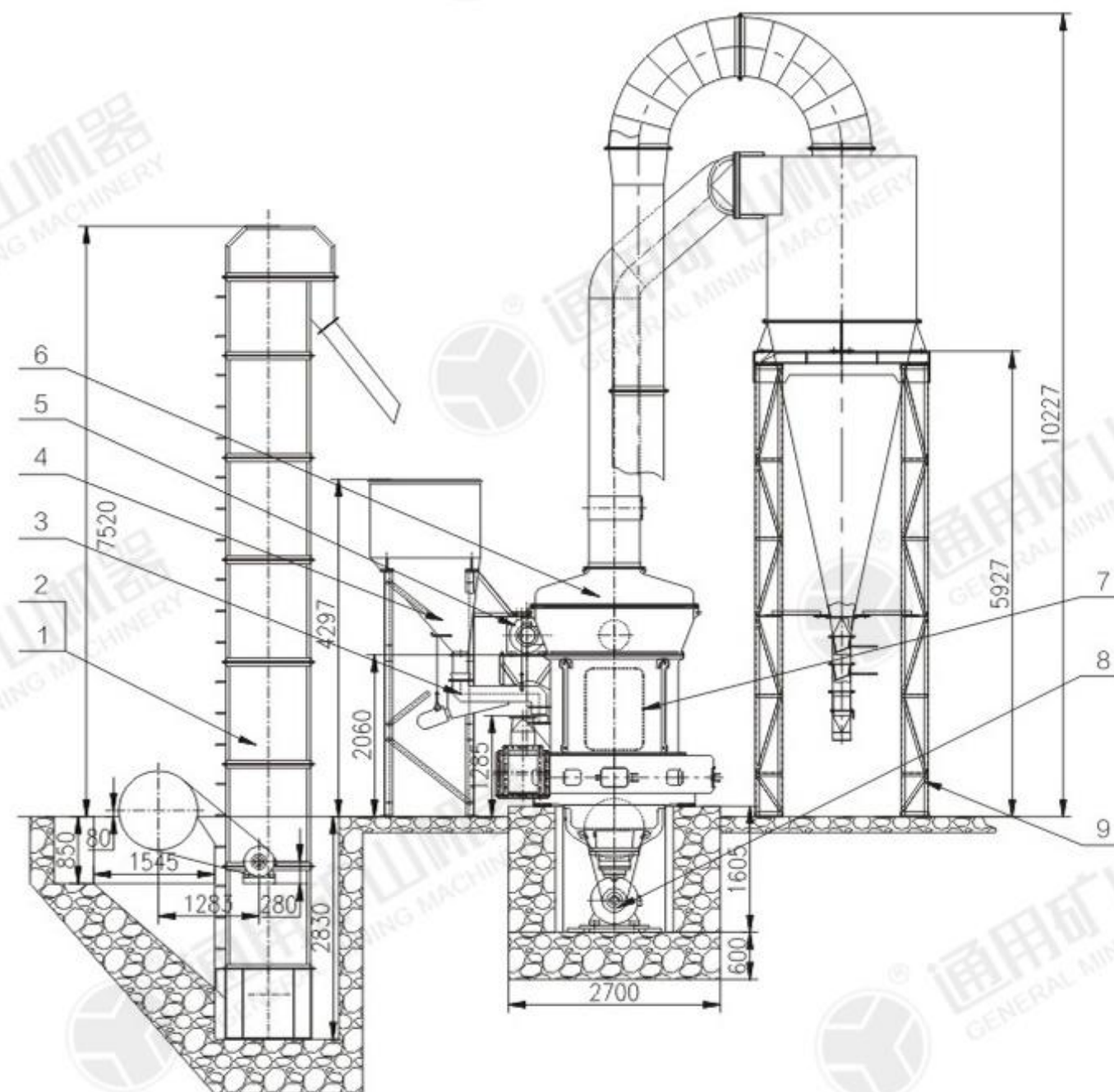
名称 Name	MTW138	MTW175	MTW215
磨辊数量 Grinding roll number	4	5	5
磨环直径 Grinding ring inside Diameter	Φ1380	Φ1750	Φ2150
主机转速 Main unit rotation speed(r/min)	96	75	65
最大进料粒度 The maximum feed size(mm)	<35	<40	<50
成品粒度 Finished Size(mm)	1.6-0.045 最细可达0.038	1.6-0.045 最细可达0.038	1.6-0.055 最细可达0.045
产量 Capacity (t/h)	6.5-15	11-25	20-50
外形尺寸 Overall Dimensions (mm)	9860 × 8340 × 10227	13500 × 11500 × 9500	13922 × 9810 × 13226
重量 Weight(t)	28.5	46	66

注: 表中产量指粉磨石灰石, 其成品的通筛率为80%。
各项参数及外形若有变更, 依发货时随机带的维护说明书为准。

欧版磨粉机技术参数:

Technical Parameter of European Version Grinding Mill:

名称 Name		规格、技术数据 Specifications, technical data		
		MTW138	MTW175	MTW215
主机电动机 Main motor	型号 Model	Y315M1-6	Y355M1-6	Y355L2-6
	功率 Power(kw)	90	160	280
	转速 Speed(r/min)	990	990	990
选粉机调速电动机 Multi-speed motor of powder concentrator	型号 Model	YCT250-4A	YCT280-4A	YCT355-4B
	功率 Power(kw)	18.5	30	75
	转速 Speed(r/min)	125~1250	125~1250	125~1250
离心引风机电动机 Centrifugal fan electric motor	型号 Model	Y315S-4	Y315L2-4	Y355L2-4
	功率 Power(kw)	110	200	315
	转速 Speed(r/min)	1480	1490	1490
斗提 Bucket	斗提型号 Bucket model	TH250	TH315	TH400
	电机型号 Motor model	Y100L2-4	Y112M-4	Y132M-4
	电机功率 Motor power(kw)	3	4	7.5
	电机转速 Motor speed(r/min)	1420	1420	1420
颚破 Jaw crusher	颚破型号 Jaw crusher model	PE250×400	PE250×750	PE250×1000
	电机型号 Motor model	Y180L-6	Y200L2-6	Y225M-6
	电机功率 Motor power(kw)	15	22	30
	电机转速 Motor speed(r/min)	970	970	970
给料机 Feeder	型号 Model	GZ3F	GZ4F	GZ4F
	功率 Power(kw)	200	450	450
电控柜 Electric cabinet				



1. 斗提提升机 Bucket elevator
2. 电动机 Motor
3. 振动给料机 Vibrating feeder
4. 储料仓 Storage silo
5. 选粉机电机 Separator motor
6. 选粉机 Separator
7. 主机 Host
8. 主机电动机 Host motor
9. 集、出粉系统 Powder concentrating and discharging system

磨粉机安装示意图
Mill installation diagram

高压悬辊磨粉机 (YGM130, YGM139, YGM160, YGM190)
High Pressure Suspension Roller Grinding Mill (YGM130, YGM139, YGM160, YGM190)



高压悬辊磨的六大特点:

1. 与普通雷蒙磨相比, 同等动力条件下产量提高10%, 磨辊对物料的碾压力在高压弹簧的作用下提高1500kgf。
2. 莫氏硬度小于9.3级的矿产物料均可加工粉碎。
3. 成品粒度范围广, 粒径最粗可达0.95毫米 (20目)。细粉粒径一般可达0.038毫米 (400目)。少部分物料最细可达到0.013毫米 (1000目)。
4. 除尘效果完全达到国家粉尘排放标准。
5. 分析机调整方便。
6. 研磨装置采用重叠式多级密封, 密封性能好。



Six Characteristics of High Pressure Suspension Roller Grinding Mill:

1. Compared with the common Raymond mill, capacity will be improved 10% under the same power condition, roller's pressure to the material will be improved 1500kgf under the influence of high pressure spring.
2. Mineral materials with Mohs hardness less than 9.3 can be grinded.
3. Finished product size has a wide range. Thickest particle size is up to 0.95 mm (20 mesh). Finest particle size is generally up to 0.038 mm (400 mesh). A small part of the finest material can reach 0.013 mm (1000 mesh).
4. Dust effect is entirely up to the national dust emission standards.
5. Classifier of the machine is easy to adjust.
6. Grinding device adopts overlapping multi-level seal, sealing performance is good.



高压悬辊磨粉机技术参数:

Technical Parameter of High Pressure Suspension Roller Grinding Mill:

名称 Name	130型	139型 (4R4124)	160型	190型
磨辊数量 Grinding roll number	5	4	6	5
磨辊直径×高度 Roller D×H(mm)	φ410×210	φ410×240	φ440×270	φ560×280
磨环内直径×高度 Grinding ring inside D×H(mm)	φ1280×210	φ1390×240	φ1600×270	φ1880×280
主机转速 Host speed(r/min)	103	103	82	66
最大进料粒度 The maximum feed size(mm)	30	30	35	35
成品粒度 Finished Size(mm)	0.95-0.044 (细粉可达0.038)	0.95-0.044 (细粉可达0.038)	1.9-0.045	1.9-0.045 (细粉可达0.038)
产量 Production(t/h)	5-8	5-8	8-16	12-26
外形尺寸×宽×高 Dimensions L×E×H(mm)	7850×8000×9700	11149×7484×10227	1255×5700×8355	11470×6940×9580
总重 Total weight(t)	26.1	26.1	35	43

高压悬辊磨粉机技术参数:

Technical Parameter of High Pressure Suspension Roller Grinding Mill:

名称 Name		130型	139型(4R4124)	160型	190型
主机电动机 Main motor	型号 Model	Y280S-4	Y280M-4	Y315M1-4	Y315L2-4
	功率 Power(kw)	75	90	132	200
	转速 Speed(r/min)	1480	1480	1480	1480
分析机调速 电动机 Analysis of machine speed motor	型号 Model	YCT200-4B	YCT250-4A	YCT225-4A	YCTL280-4A
	功率 Power(kw)	7.5	18.5	11	30
	转速 Speed(r/min)	125-1250	125-1250	125-1250	1320-132
提升机电动机 Elevator motor	型号 Model	Y100L2-4	Y100L2-4	Y112M-4	Y112M-4
	功率 Power(kw)	3	3	4	4
	转速 Speed(r/min)	1430	1430	1440	1440
鼓风机电动机 Blower motor	型号 Model	Y250M-4	Y315S-4	Y315M1-4	Y315L2-4
	功率 Power(kw)	75	110	132	200
	转速 Speed(r/min)	1480	1480	1480	1480
颚式破碎机 电动机 Jaw crusher motor	型号 Model	250×400	250×400	250×750	250×750
	型号 Model	Y180L-6	Y160L-4	Y200M-6	Y200L2-6
	功率 Power(kw)	15	15	22	22
	转速 Speed(r/min)	970	970	970	970
电磁振动给料机 Electromagnetic vibrating feeder	型号 Model	GZ2F	GZ2F	GZ3F	GZ4F
	功率 Power(kw)	150	150	200	450

制粉生产线 Milling Production Line

物料经颚式破碎机破碎后,由斗式提升机送至储料仓,通过电磁振动给料机把物料均匀连续地送到主机进行研磨,研磨后的粉末在鼓风机的作用下吹向选粉机进行分选,分选后的细粉由管道送至储料仓,最后经出料阀输出即为成品。整套生产线工作过程中气压为负,首先鼓风机吹出的空气伴随着细粉经管道进入储料仓上部的旋风收集器内,由回风管道返回鼓风机,形成空气循环利用。其次,集粉器下端装有锁粉器,其作用是将外界正压气体与集粉器负压气体隔离开,大大提高了产量。再次,主机底部残留的空气和粉尘通过管道被送到布袋除尘器进行过滤,粉尘等杂质被布袋除尘器吸附,有效地保护了环境。

Material after jaw crusher, bucket elevator sent by the storage silo, by electromagnetic vibrating feeder evenly continuously sent to the host material for grinding, polishing powder separator after blowing blower in action sorting machines, powder after sorting by pipeline to the storage silos, and finally by the outlet valve output is finished. Entire production line work process pressure is negative, the first fan blowing air through pipes accompanied powder into the storage silo upper cyclone collector, returned by the return air blower pipe to form air recycling. Secondly, powder collector with the bottom lock powder feeder, its role is to set the external positive pressure gas and powder isolated negative pressure gas, greatly improving the yield. Again, the bottom of the host residual air and dust were sent through a pipeline to filter baghouse dust and other impurities are adsorbed baghouse, effective protection of the environment.



磨粉机
Mill



深腔颚式破碎机
Deep cavity jaw crusher



提升机
Elevator



料仓
Silo



电磁振动给料机
Electromagnetic Vibrating feeder