



Company Brief Introduction

Shanghai Clirik Machinery Co., Ltd located in Pudong New District of Shanghai China, is a large manufacturer specializing in research, manufacture and sales of micro powder machines.

As one of the pioneer manufacturers who have engaged in crushers and micro powder grinding mills for over 20 years, Shanghai Clirik Machinery Co.,Ltd. has strong capability in R&D, design and manufacturing. However, we still insist on the communication and cooperation with prestigious scientific research institutions from both home and abroad to strengthen our ability in machinery design, production, maintenance, testing and reform. With several years' efforts, Clirik now grows to be a first-class manufacturer of mining machines with a complete advanced production system for superb equipment.

In addition, with the joint efforts of the experienced sales team and our circumspect after-sales service chains, our products have been exported to more than dozens of countries and areas all over the world like Eastern Europe, Middle East, Africa, Southeast Asia, South America, Oceania, etc

Based on the concept of "Constant innovation, customer foremost" and principle of "sincerity, practice, and high efficiency", we regard quality as life and try to offer customers better products. We always adhere to the management philosophy of creating brand by quality and promoting brand by excellent service. To be honest, practical, high-efficient and considerate to our customers is what we are always pursuing.

The Promising Prospect of Micro Powder Grinding Mill

前景广阔的微粉磨》》

随着高新技术产业的发展，微粉的应用越来越广泛，市场对其需求也越来越大，常见的香皂、牙膏、化妆品、塑料薄膜、油漆、纸张、PVC、橡胶、玻璃、阻燃剂、航天固体燃料、高硬度磨料、建材、化工等行业，都和微粉密切相关。

微粉主要由非金属矿产、硬质石料以及有机物破碎研磨生产而成。物料主要包括高岭土、石灰石、方解石、大理石、重晶石、石膏、叶腊石、白云石、碳酸钙、颜料、陶土、煤、活性炭、长石、滑石、云母、石英石、炭黑、石油焦、氧化铝、氧化铬、水泥等100余种物料。物料加工成超微粉后，可以成倍扩大其使用领域。超微粉不仅仅是一种优质的填充材料，还可以提高和改善产品诸如强度、弹性、耐磨性、抗高温、耐老化、防辐射等性能，并能大大降低产品的生产成本。

With the development of high-tech industry, micro powder is widely applied in various fields, and the demand for micro powder is ever-increasing. Daily used soaps, toothpastes, cosmetics, plastic films, PVC, rubbers, glass, fire retardants, high hardness grinding materials, building materials, chemicals, etc are closely related with micro powder.

Micro powder is crushed and grinded mainly from non-metallic minerals, hard stones and organics. The grinding materials include kaolins, limestones, calcite, marbles, barites, gypsums, pyrophyllites, dolomites, calcium carbonates, pigments, clays, coals, activated carbons, feldspar, talcs, mica, carbon black, petroleum coke, alumina, chromic oxide, quartz, cements, up to 100 materials. Meanwhile, micro powder can enlarge its application in other fields when ultrafine micro powder is modified. Besides, micro powder can not only be used as excellent filling materials, but also improve products' performances such as strength, elasticity, abrasive resistance, high temperature resistance, aging resistance, radiation protection, which, in turn, reduces the cost of production.



日用品
(Daily Necessities)



地板、墙砖
(Floor, Wall Tile)



制药
(Pharmacy Products)



橡胶制品
(Rubber Products)



PVC制品
(PVC Products)



耐磨材料
(Wear-resistant Material)



水泥制品
(Cement Products)



电器、电料
(Appliance and Electrical Materials)



造纸
(Paper-making Materials)



再生资源
(Renewable Resources)



化工、建筑、装饰
(Chemical Industry, Constructions, Decorations)





主机



主机

HGM系列微粉磨是一种加工微粉及超微粉的设备，主要适用于中、低硬度，莫氏硬度 ≤ 6 级的非易燃易爆的脆性物料，如方解石、白垩、石灰石、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100多种物料。

HGM Series Micro Powder Grinding Mill is the equipment specializing in producing fine and superfine powder of non-inflammable, non-explosive and brittle materials with Mohs's hardness under six, such as calcite, chalk, limestone, dolomite, kaolin, bentonite, talc, mica, magnesite, illite, pyrophyllite and vermiculite, sepiolite, attapulgite, rectorite, diatomite, barite, gypsum, alunite, graphite, fluorite, rock phosphate, Kalium ore, pumice, etc., totally more than 100 kinds of materials.

Working Principle of Micro Powder Grinding Mill

微粉磨工作原理》

HGM系列微粉磨由微粉磨主机、选粉机、集粉器、除尘器、风机、消声器、隔音室、破碎机、提升机、料仓、给料机等部分组成。

大块物料经破碎机破碎成小颗粒后，由提升机送入料仓，再通过给料机和倾斜的导料管，将物料均匀地送到转盘上部的散料盘上。

磨粉机工作时，几十个磨辊在环道内旋转、滚动。物料在离心力作用下散向周边并落入磨腔，在环道内被磨辊冲压、滚辗、研磨。

随着高压风机不断的抽吸设备内部的空气，经多层粉碎后的物料随不断进入的空气，被带入选粉机，高速旋转的叶轮对其进行筛选，不合格的物料回落重磨，合格的物料则随气流进入旋风集粉器，粉尘下落，由底部的卸料阀排出即为成品。小部分细粉尘则随气流进入除尘器，并粘附在滤袋表面。脉冲阀控制高压气流从滤袋内部瞬间喷射，粘附其上的粉尘则因滤袋的突然抖动下落，底部的输送机则把两处收集的物料送出进行成品包装。经过滤后的洁净空气最终在消声器出风口处排出。



Working Principle of Micro Powder Grinding Mill

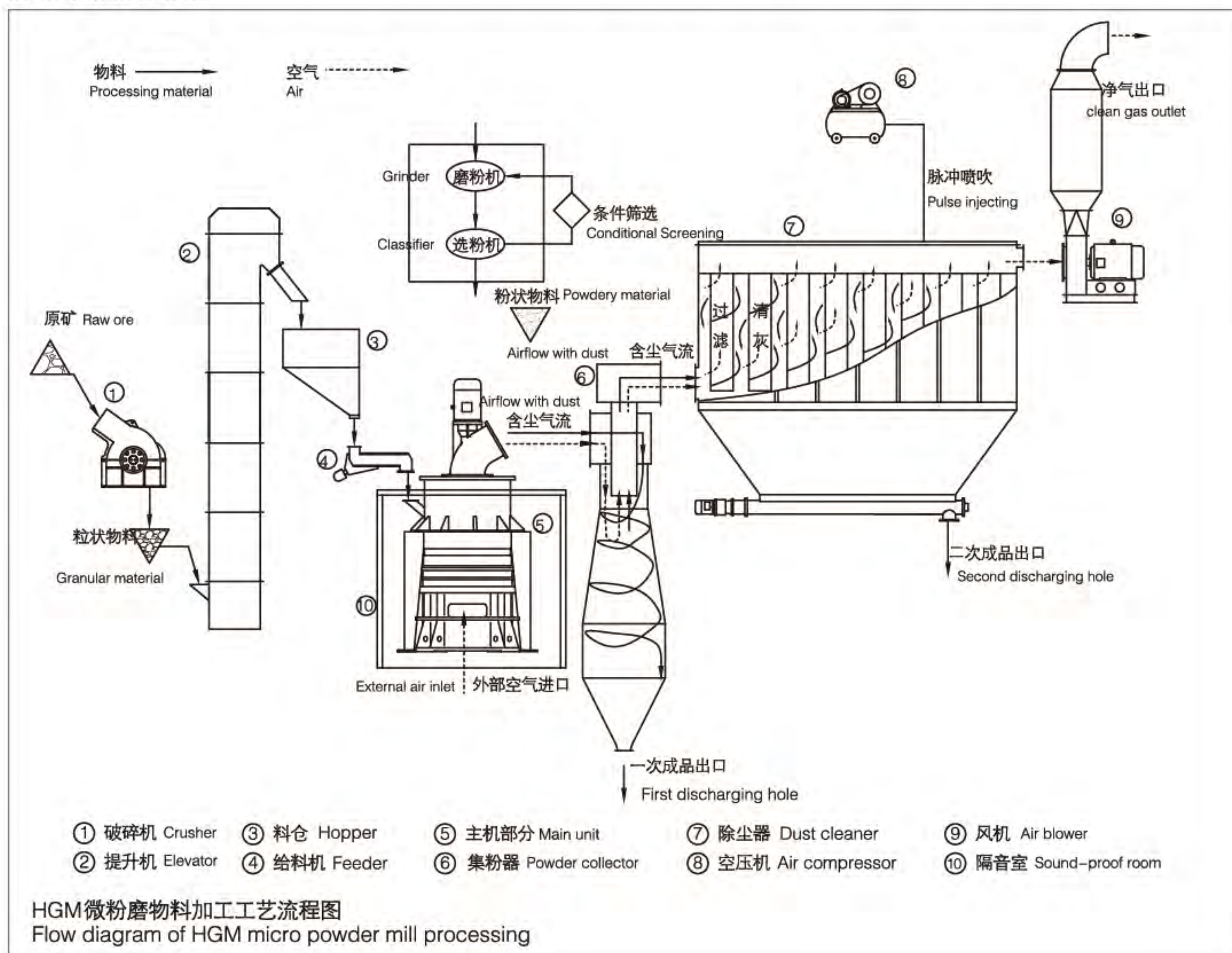
《微粉磨工作原理》

HGM series micro powder grinding mill mainly consist of main unit, classifier, powder collector, dust cleaner, blower, muffler, sound-proof room, crusher, bucket elevator, storage hopper, and vibrating feeder.

After crushed by hammer crusher, the large materials become small ones and are sent to storage hopper by elevator, and then evenly sent to the upper distribution plate of the turnplate by vibrating feeder and sloping feeding pipe.

When the grinding mill is at work, all the grinding rollers are rolling in the ring, and the materials are driven to the edge of the turnplate by the centrifugal force and fall down into the grinding chambers where the materials are repeatedly pressed, crushed and grinded by the rollers.

The high-pressure air blower constantly inhales air within the grinding mill and, in turn, the airflow with crushed materials are brought to the classifier whose high-speed impeller will screen the airflow: the unqualified particle size will fall and return to the mill for being reground while the qualified particle size mixed with air will go into the cyclone powder collector. Most of the qualified powders will fall and exit from the discharging valve at the bottom; a small proportion of the fine powders, with airflow, moves to the dust cleaner, and clings to the surface of the filter bags. At the same time, the fine powders clinging to the surface fall down by the sudden vibration of the filter bags, which is caused by the instantly ejected high-pressure gas controlled by the pulse valve. The materials from the above two lots are sent by the conveyor at the bottom to get finished powders packed. In addition, filtered clean air will be emitted from the air outlet of muffler in the end.



Features of Micro Powder Grinding Mill

微粉磨性能及特点》

●高效

在成品细度及电动机功率相同的情况下，比气流磨、搅拌磨、球磨机的产量高一倍以上；

●High Efficiency

Under the same finished final size and the same motor power, the capacity of micro powder grinding mill is twice as much as jet mill, mixing grinder and ball mill.

●易损件使用寿命长

磨辊、磨环采用特殊材料锻制而成，从而使耐用程度大大提高。在物料及成品细度相同的情况下，比冲击式破碎机与涡轮粉碎机的易损件使用寿命长2-3倍,一般可达一年以上;加工碳酸钙、方解石时，使用寿命可达2-5年；

●Long lifecycle of spare parts

The ring and roller are forged by special material with high utilization. Under the same grinding material and finish special size, the lifecycle of spare parts is about one year, which is 2-3 times

longer than impact mill or turbo mill. Furthermore, the lifetime can reach 2-5 years for grinding calcite carbonate.

●安全可靠性强

因磨腔内无滚动轴承及螺钉，所以不存在轴承及其密封件易损的问题，或因螺丝松动而毁坏机器的问题；

●High safety and reliability

As no rolling bearings or screws in grinding cavity, there are no problems caused by bolts shedding or rapid wear of bearings and seal components.

●产品细度高

产品细度一次性可达到 $D_{97} \leq 5\mu m$ ；

●High fineness and flexible adjustment

The final fineness of the grinding materials can be adjusted between 325 meshes and 3000 meshes, and the product fineness can reach $D_{97} \leq 5\mu m$.

●对环境污染小

环保脉冲除尘器和消声器的使用大大减轻了粉尘和噪音对周边环境的污染。

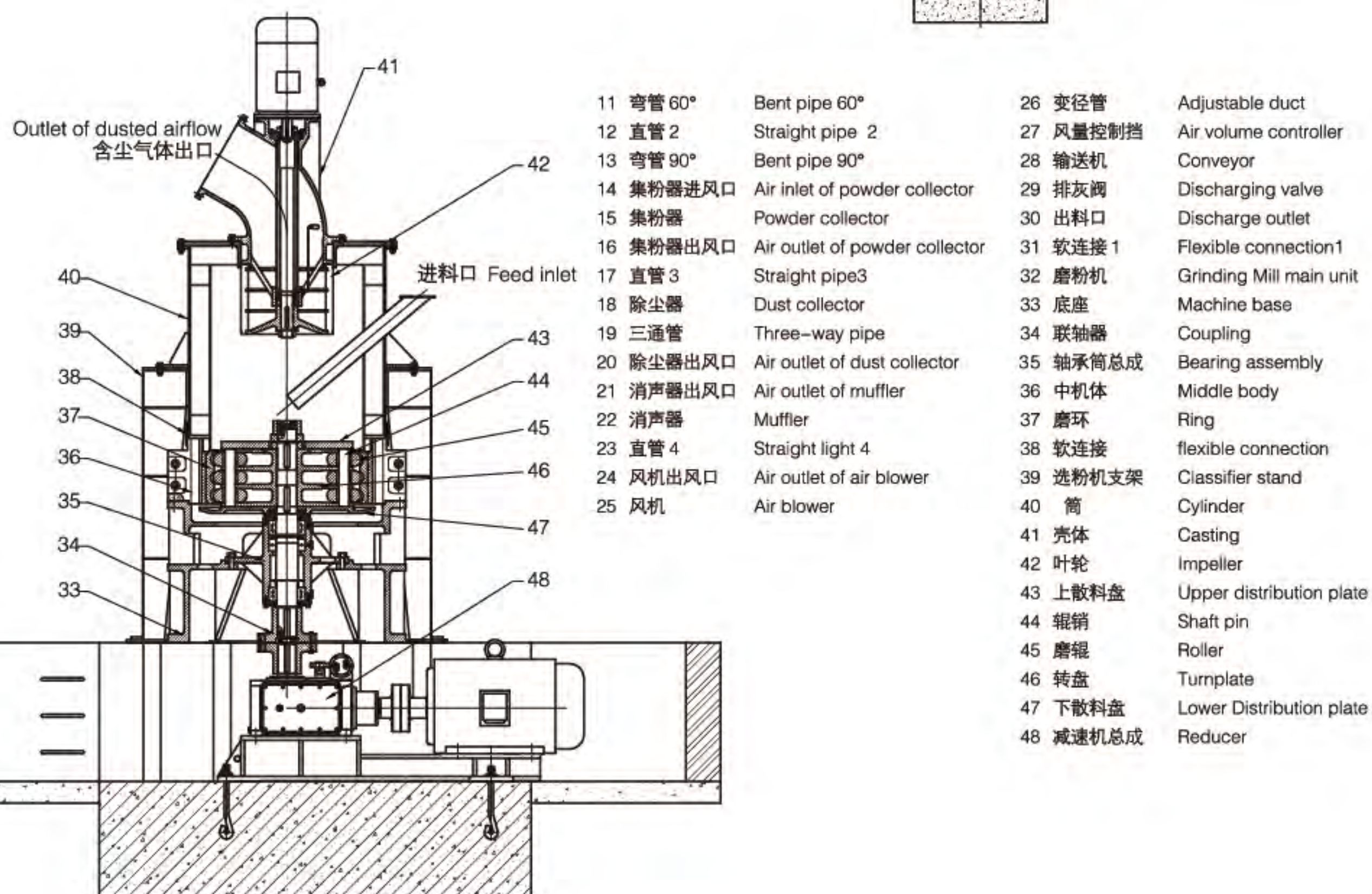
●Environment-friendly

The application of pulse deduster and muffler greatly alleviates dust pollution and noise.

Model and Technical Data

规格和技术参数表》

型 号 Model	HGM8021	HGM9024	HGM10027	HGM10036
平均工作直径mm(Ring Diameter)	800	900	1000	1000
环道数量/层 Ring Number/ pcs	3	3	3	4
磨辊数量/个 Roller Number/ pcs	21	24	27	36
主轴转速Main Shaft Speed /r.p.min	230	200	180	180
入料粒度 Input Size /mm	≤ 20	≤ 20	≤ 20	≤ 20
成品粒度范围Finished Size / μm	5-47	5-47	5-47	5-47
成品产量 Capacity t/h	0.4-4.5	0.4-5.5	0.6-6.5	0.7 -7.5
安装外形长x宽x高Outlet Size L×W×H /m	13.9x4x6.2	14.7x4.8x7.2	18x4.6x8.6	18x4.6x8.6
整机容量Power /Kw	145	192	263	263



Components and parts of micro powder grinding mill 微粉磨零部件》



分析机叶轮 (Classifier Impeller)



减速机 (Reducer)



滤 袋 (Filter Bag)



脉冲阀 (Pulse Valve)



膜 片 (Diaphragm)



磨 辊 (Grinding Roller)



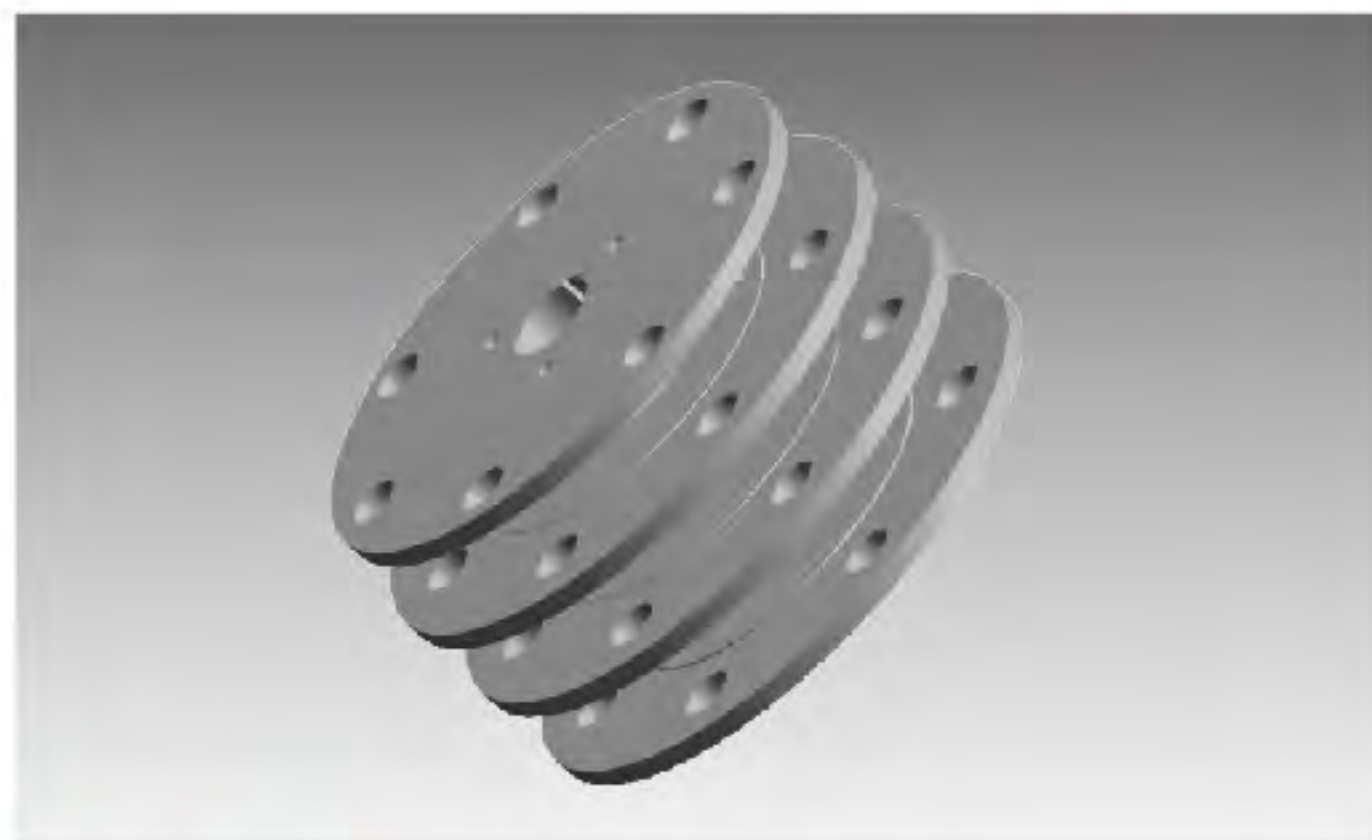
磨 环 (Grinding Ring)



电控柜 (Electric Control Cabinet)



摆线针轮减速机 (Vertical Reducer Motor)



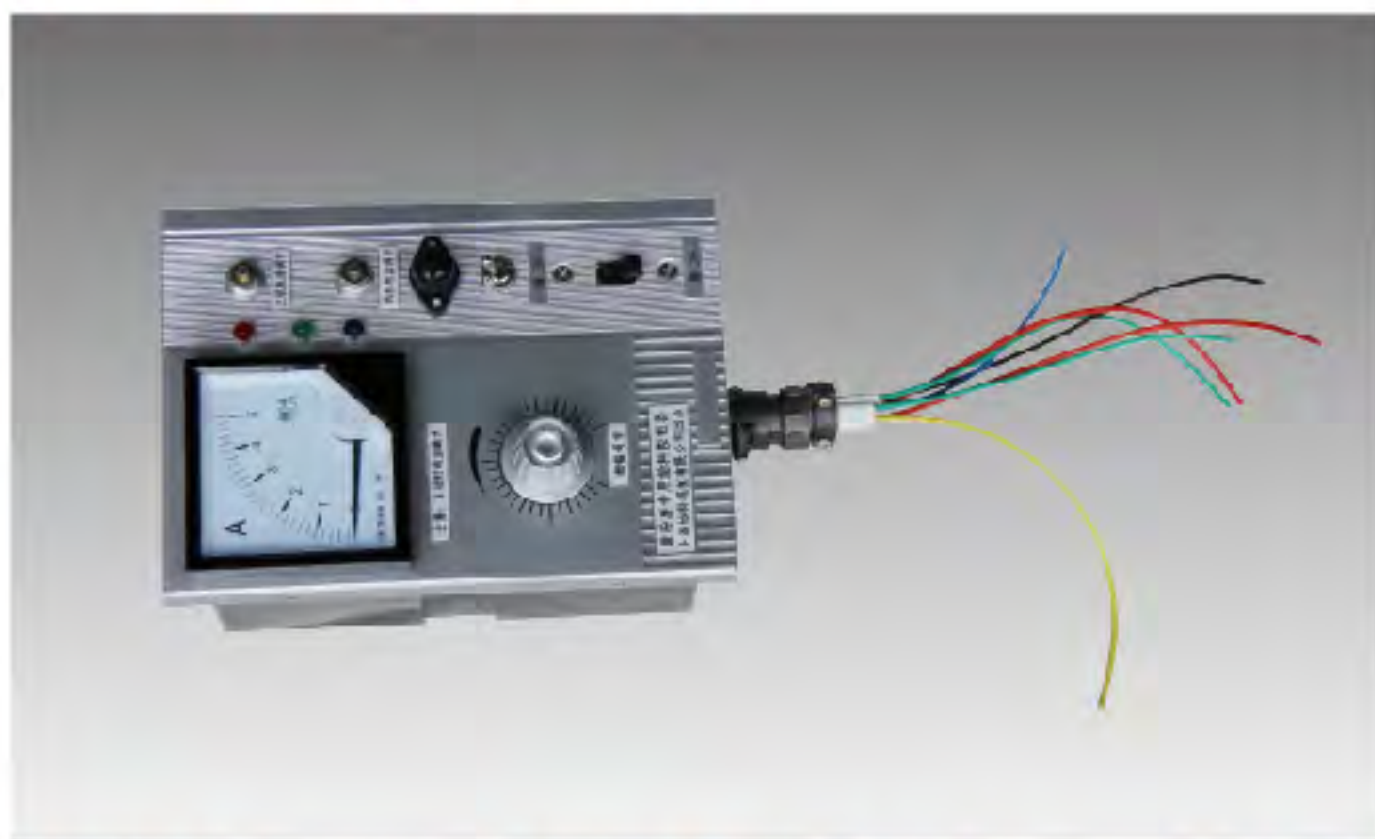
转盘 (Turn Plate)



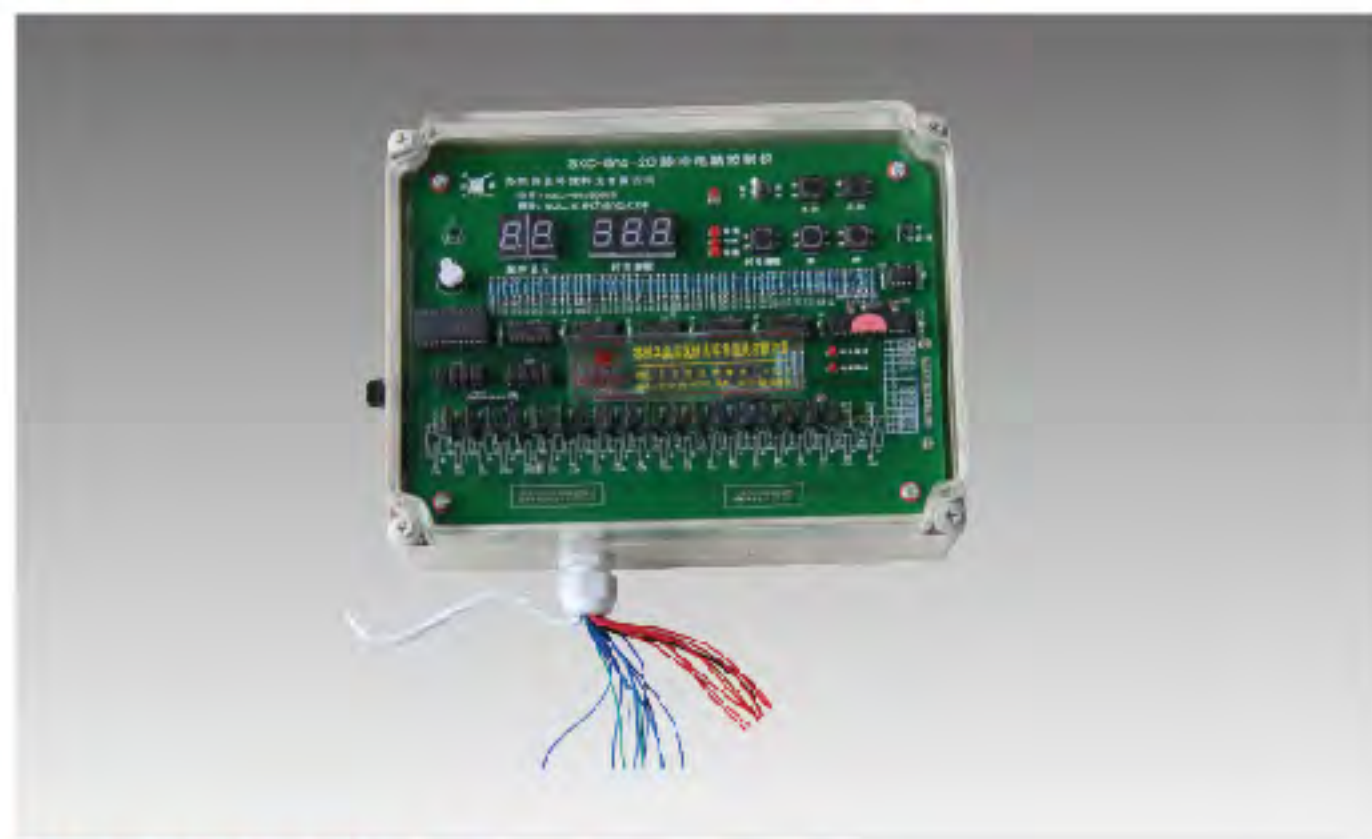
机体总成 (Body Assembly)



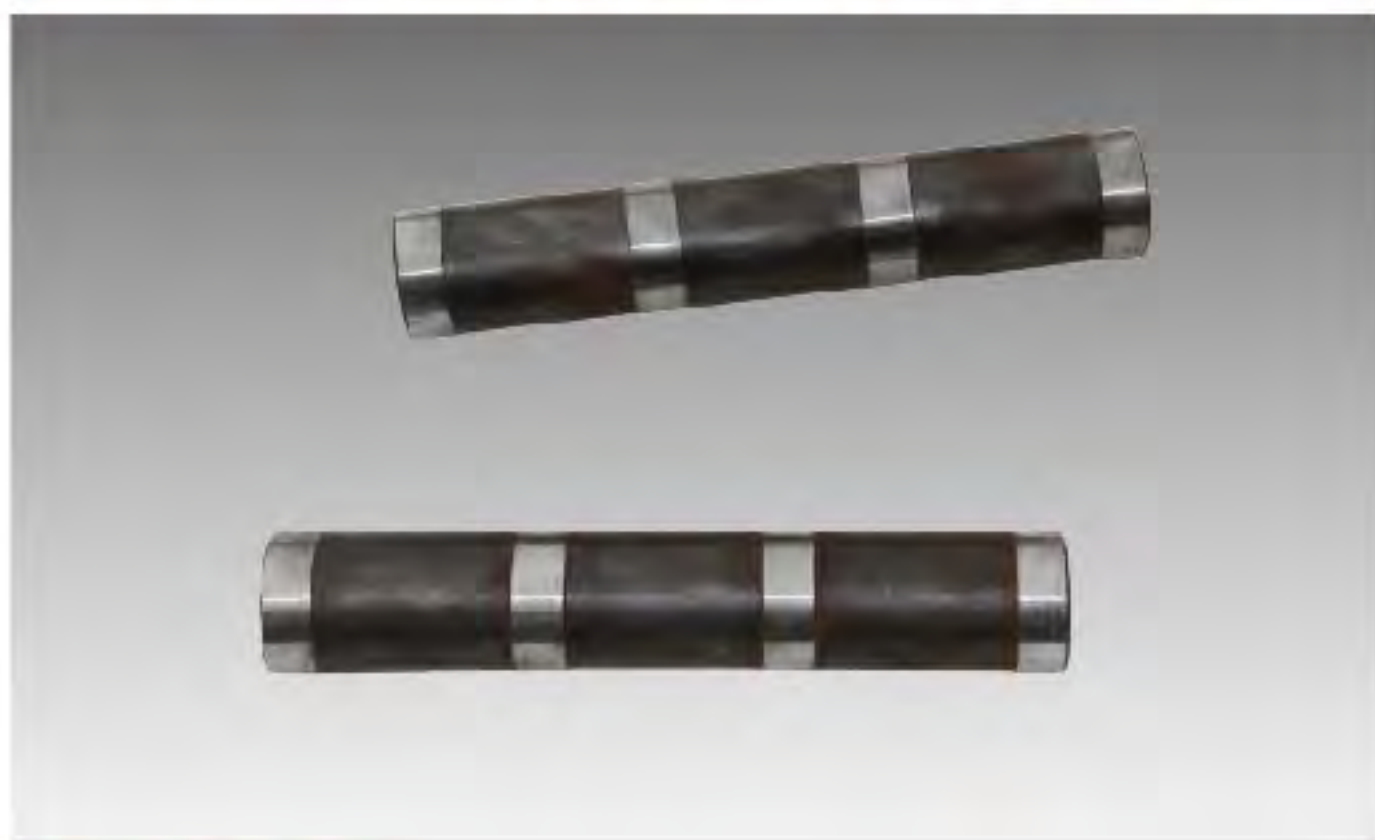
自动回转排灰阀 (卸料器) Discharging Valve



给料控制器feeding controller (微粉磨专用exclusive use for micro powder mill)



脉冲电脑控制仪 (Pulse Controller)



轴销 (Shaft Pin)



西门子元器件电柜 (Siemens Cabinet)

Hammer Crusher

锤式破碎机》

锤式破碎机是利用高速回转锤子的打击作用来破碎物料的设备。它适用于冶金、矿山、化工、水泥、建筑、耐火材料及陶瓷等行业，可对重晶石、石灰石、石膏、水磨石、煤炭、矿渣等各种软硬矿石进行中碎和细碎作业。

Hammer crusher is equipment using high-speed rotary hammers to crush materials, mainly applied to the industries of metallurgy, mining, chemistry, cement, construction, refractory materials and ceramics. It can crush hard and soft ores into medium or small size, such as barite, limestone, gypsum, terrazzo, coal, slag, and up to 100 different kinds.



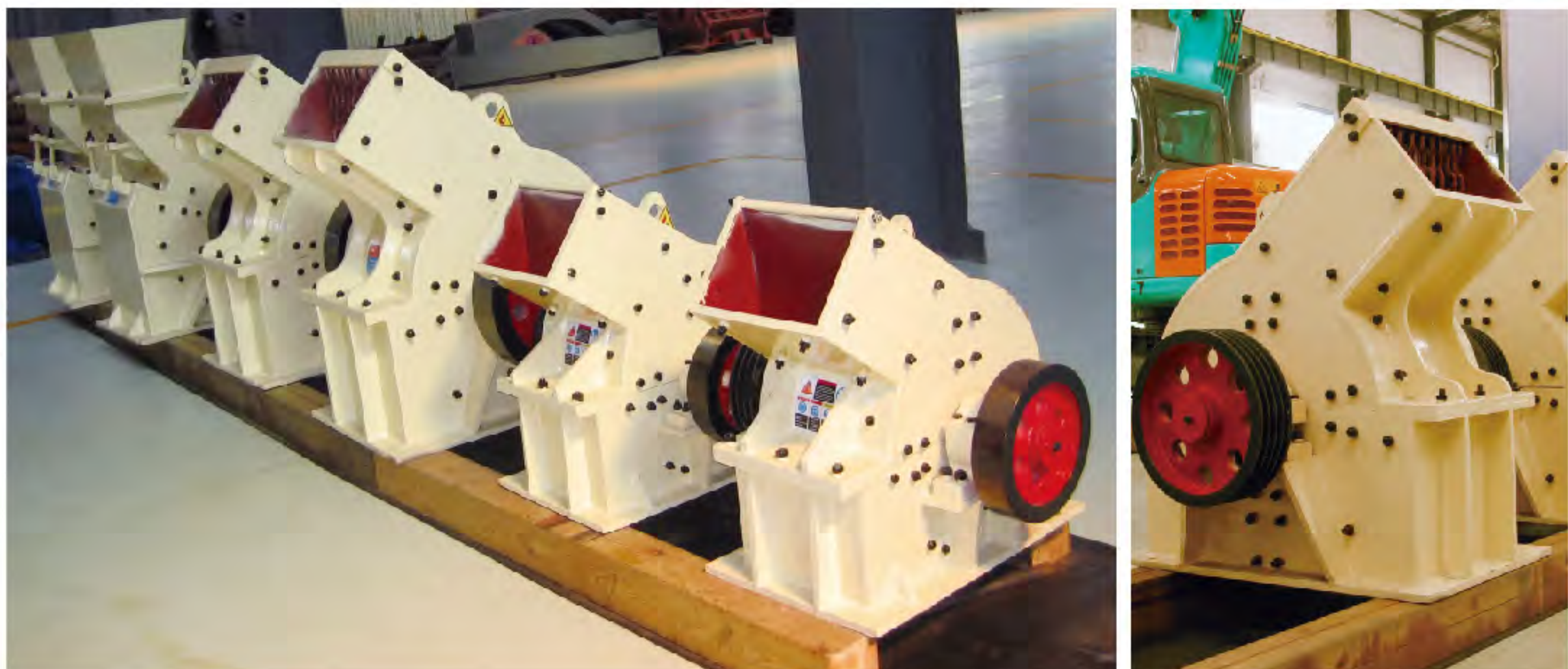
Working Principle

工作原理》



锤式破碎机主要由机壳、转子、承击铁和筛条等部件组成，机壳分上下两部分，由钢板切割后焊接而成。机壳内部有高锰钢衬板，磨损后可以更换。其主轴上安装有数组分布规则的锤子，与转盘及穿锤轴组成转子。电机驱动转子旋转，锤子受到旋转时所产生的离心力向四周伸开，大块物料从进料口进入破碎腔之后，便被高速运动的锤子击碎。破碎合格的物料从底部筛条间的缝隙排出，不合格的则留在破碎腔内，被锤子反复打击，直至能够排出。

Hammer crusher mainly consists of frame, rotor, support iron and grate bars. The frame is divided into two parts: upper part and lower part which are welded by steel plates after being cut. Liners made of high manganese steels within the frame can be replaced after being worn out. The rotors consist of the turnplate, pin shafts, and hammers which are grouped regularly in the main shaft. The motor drives the rotors to rotate quickly in the crushing cavity, and hammers spread outward as a result of centrifugal force from the rotation of the rotors. Large materials entering the crusher through the feed inlet are stricken, impacted, cut and ground by the high-speed hammers to small size. Qualified materials crushed will be screened out and exit from the gap of the grate bars while the unqualified will be left in the crushing cavity to be further hammered and ground until reach the standard size. The size of the final product can be adjusted by changing the grate bars. The gap between the rotors and the grate bars can also be adjusted according to different requirement.



Features of Hammer Crusher

性能及特点》

锤式破碎机具有生产能力高、破碎比大、电耗低、产品粒度均匀、机械结构简单、紧凑轻便、投资费用少、维修简单、管理方便等优点。

Hammer Crusher is characterized by high capacity, high crushing ratio, uniform particle size, simple structure, low investment, easy management and maintenance.

Performance and Parameter

性能及参数》

PC系列普通型破碎机 PC Series ordinary Type Crusher

型 号 Type	PC400x300	PC600x400	PC800x600
转子直径 /mm Rotor Diameter	400	600	800
转子宽度/ mm Rotor Width	300	400	600
转速 r/min Rotor Speed	1100	1000	970
最大给料粒度/mm Max Feeding Size	<100	<220	<350
出料粒度/mm Finished particle size	5-10	5-15	5-20
处理能力t/h Capacity	3-8	8-15	15-30
功率/KW Power	11	18.5	45
锤头数量 /Hammer Number	16	20	28
设备重量 /t Weight	0.8	1.8	2.8
外形L*W*H/mm Outlay Size	855*795*860	1150*1095*1230	2360*1490*1415

Jaw Crusher

颚式破碎机》

颚式破碎机主要用于冶金、矿山、化工、水泥、建筑、耐火材料及陶瓷等工业部门。适宜破碎抗压强度不高于320MPa（兆帕）的各种软硬矿石。可从事物料的中碎和细碎作业。

Jaw crusher is mainly used in the industries of metallurgy, mining, chemical, cement, construction, refractory materials and ceramics, suitable to crush hard and soft ores with compressive strength less than 320 MPa. This machine can break materials into medium size and fine size.



Working Principle

颚式破碎机工作原理》

颚式破碎机主要由机座、偏心轴、颚板、连杆、调节机构与闭锁弹簧等部分组成。

电动机驱动皮带和皮带轮，通过偏心轴使动颚上下运动，当动颚上升时肘板与动颚间夹角变大，从而推动动颚板向固定颚板接近，与其同时物料被压碎或劈碎，达到破碎的目的；

当动颚下行时，肘板与动颚夹角变小，动颚板在拉杆，弹簧的作用下，离开固定颚板，此时被破碎至所需尺寸的物料从破碎腔下口排出。随着电动机连续转动，破碎机动颚作周期性压碎和排泄物料，实现批量生产。

Jaw crusher mainly consists of frame, eccentric shaft, jaw plate, connecting bar, adjustment part and spring.

The movable jaw goes upward and downward through eccentric shaft when belt and belt wheel are driven by the motor. The angle between movable jaw and bracket turns big when the movable jaw goes upward, which pushes the movable jaw plate to come closely to fixed jaw plate. At the same time, materials are crushed with the movement of the movable jaw.

When the movable jaw goes downward, the angle between movable jaw and bracket turns small. Under the force of spring and connecting bars, the movable jaw plate leaves fixed jaw plate, and the crushed materials with qualified size are discharged from the crushing cavity. With the continuous rotation of the motor, the movable jaw crushes and discharges materials, which, in turn, realizes the goal of mass production.



Features of Jaw Crusher

颚式破碎机性能及特点》

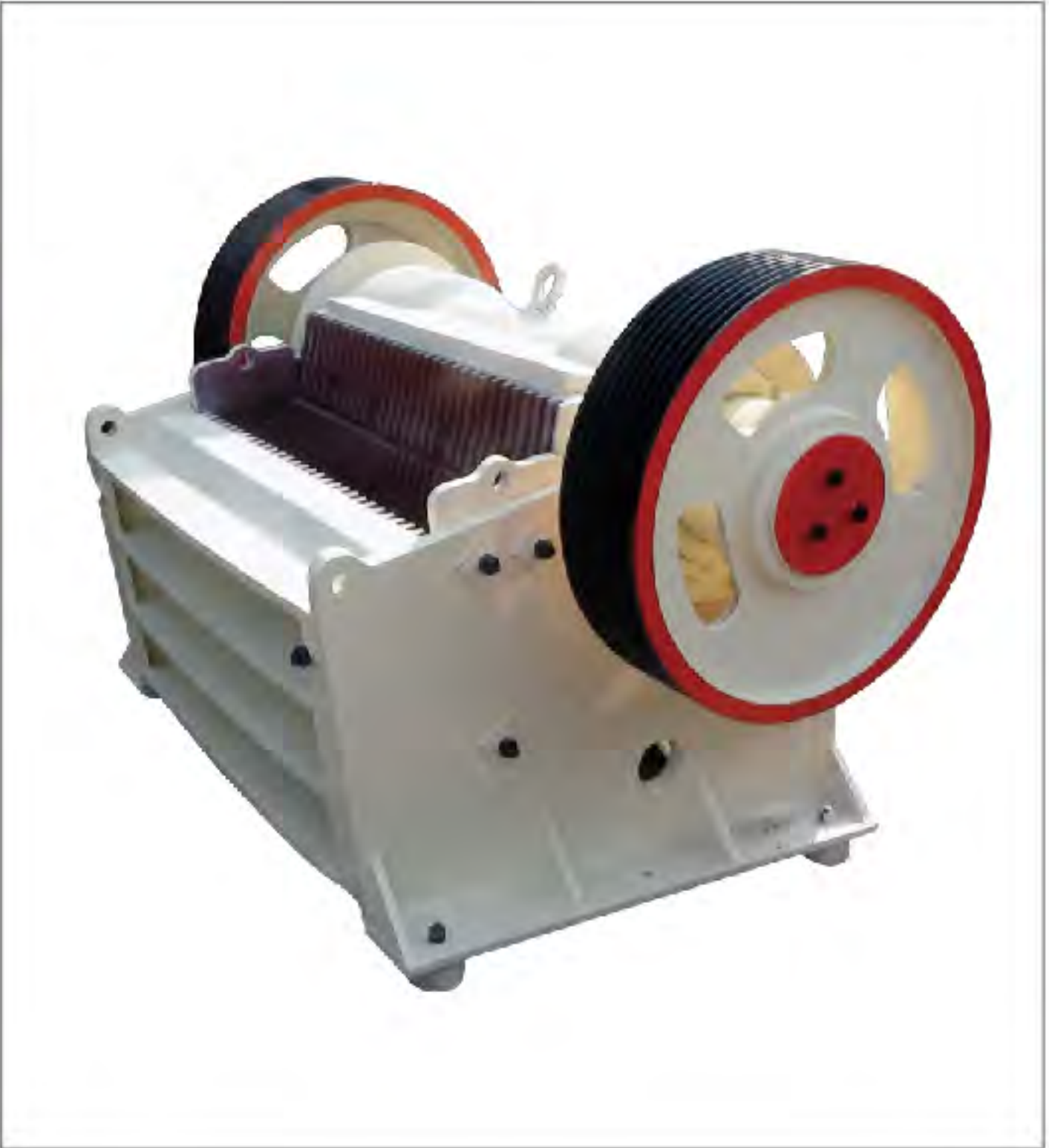
颚式破碎机具有破碎比大、产品粒度均匀、结构简单、工作可靠、维修简便、运营费用经济等特点。

Jaw crusher is featured by high crushing ratio, uniform particle size, simple structure, reliable performance, easy maintenance and economic operation.

Performance and Parameter

性能及参数》

常见中小型号 Type	进料口尺寸 (mm)Opening Size	进料粒度 (mm)Feed Size	排料口调整范围 Output Open Range	功率 Power(Kw)	产量 (t/h)Capacity
PE150x250	150x250	125	10-40	5.5-7.5	1-5
PE200x350	200x350	125	15-40	7.5-11	5-16
PE250x400	250x400	210	20-60	15-18.5	5-20
PEX250x400	250x400	210	≤12	15-18.5	5—10



European Version of the Coarse Hammer Crusher

欧版锤式破碎机》》

欧版锤式破碎机广泛应用于冶金、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，从事物料中碎和细碎作业。它主要适宜破碎抗压强度不高于320 MPa(兆帕)的各种矿石。

European version of the coarse hammer crusher, engaging in crushing various rocks and stones with comprehensive strength not higher than 320 MPa into fine and micro fine powders, is widely used in metallurgy, mining, chemical, cement, coal, sand-making, coal gangue, construction, refractory materials and ceramic industries.



优点：

- | | |
|---------------|---|
| ①生产能力高、电耗低; | ①High manufacturing capacity and low power consumption; |
| ②破碎比大、产品粒度均匀; | ②Uniform particle size with high crushing ratio; |
| ③机械结构简单、紧凑轻便; | ③Simple structure; |
| ④投资费用少、管理方便。 | ④Easy operation and low investment. |

Working Principle

工作原理》》

锤式破碎机主要由机壳、转子、承击铁和筛条等部件组成。机壳分上下两部分，由钢板切割后焊接而成。机壳内部有高锰钢衬板，磨损后可以更换。其主轴上安装有数组分布规则的板锤，与转盘及穿锤轴组成转子。主机通过电机、三角皮带带动主轴，从而使转子旋转。大块物料从进料口进入破碎腔之后，并被高速运动的板锤击碎，并被猛烈抛向承击铁，从而使之再次破碎。破碎合格的物料从底部筛条间的缝隙排出，不合格的则留在破碎腔内，被锤子反复打击，直至能够排出。为避免堵塞，被粉碎的物料的含水量一般不超过20%。





Hammer crusher mainly consists of frame, rotor, support iron and grate bars. The frame is divided into two parts: upper part and lower part, which are welded by steel plates after being cut. Liners made of high manganese steels within the frame can be replaced after being worn out. The rotors consist of turnplates, pin shafts, and hammers which are grouped regularly in the main shaft. The main unit drives the main shaft through the motor and triangle belts, which, in turn, rotates the rollers. Large materials entering the crusher through the feed inlet are firstly crushed by the high-speed hammers, and then thrown fiercely to the support iron for further crushing. Qualified materials crushed will be screened out and exit from the gap of the grate bars while the unqualified will be left in the crushing cavity to be further hammered and ground until reach the standard size. The size of the final product can be adjusted by changing the grate bars. The gap between the rotors and the grate bars can also be adjusted according to different requirement. To avoid the plugging of the crusher, the proportion of water for the crushing materials is no more than 20%.

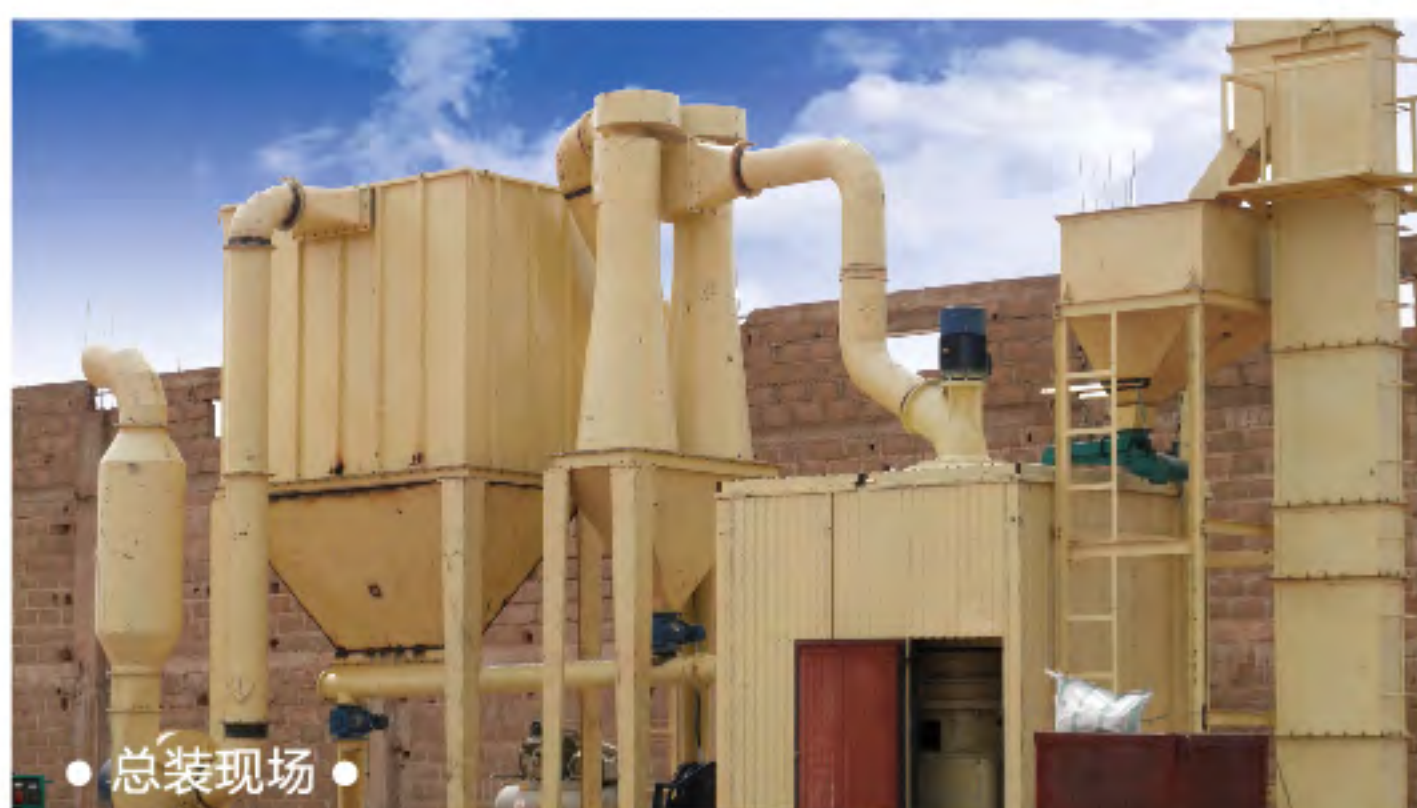
Performance and Parameter

性能及参数》

型 号 Type	PC4008-75	PC4012-90	PC4015-132
转子直径 /mm Rotor Diameter	750	900	1150
转子宽度/ mm Rotor Width	800	1200	1500
转速 r/min Rotor Speed	800-1000	800-1000	550-800
最大给料粒度/mm Max Feeding Size	<70	<90	<100
出料粒度/mm Finished Particle Size	≤3	≤3	≤3
处理能力 t/h Capacity	35-50	50-70	70-100
功率/Kw Power	55-75	75-90	110-132
板锤数量 /个 Hammer Number	18	16	32
外形L*W*H/mm Layout Size	2310*1665*1610	2840*2100*2020	3720*2650*2540

Successful Cases and Customers' Spot

成功案例及客户现场》



After Sales Service

《售后服务》

始于客户需求 终于客户满意

Begin from Customer Demand; End with Customer Satisfaction



优质的售后服务是企业品牌的象征和实力的标志

我们始终本着“一切追求高质量，用户满意为宗旨”的精神，以“最优惠的价格、最周到的服务、最可靠的质量”为原则，竭诚为广大用户服务。

High Quality of after-sales service symbolizes our brand and our ability. We pursue not only the good quality of our products, but also the good after sales services. Your satisfaction with us is our final purpose.



Size Test Report

粒度测试报告》

● 仪器类型：LS-POP(VI) Type

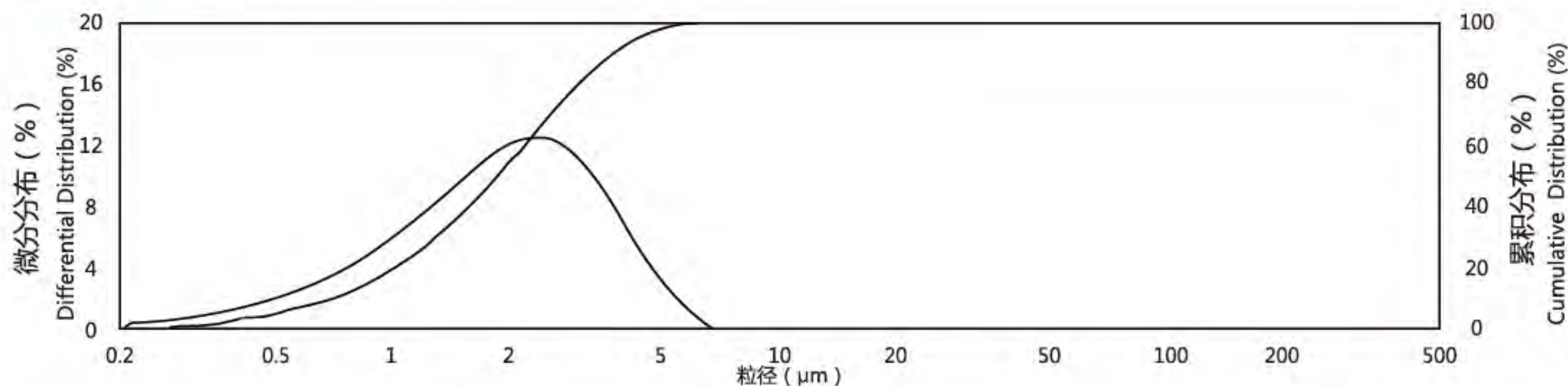
平均

样品名称：CaCO ₃	截断下限：0.20	拟合残余：0.02	测试时间：17:47:50
Sample Name：CaCO ₃	Lower Limit of Truncation：0.20	Fit Remnants：0.02	Test Time：17:47:50
分析模式：rosin-ram	样品折射率：1:60	截断上限：517.20	超声时间：2'
Analysis Pattern：rosin-ram	Sample Refractive Index：1:60	Upper Limit of Truncation：517.20	Ultrasonic Time：2'
样品池：循环	介质折射率：1.33	测试日期：2010/8/15	遮光比：14.9%
Sample Pool: Cycle	Medium Refractive Index：1.33	Test Date：2010/4/5	Shading Ratio：14.9%

● 粒度特征参数 Characteristic Parameters of Particle Size

D(4,3): 2.07 μm	D50: 1.87 μm	D (3,2) : 2.07 μm	S.S.A: 4.85 sq.m/c.c.
D10: 0.63 μm	D50: 1.87 μm	D 90: 2.07 μm	D 97 : 4.74 μm

● 粒径分布 Size Distribution



● 粒度分布表 Table of Size Analysis

粒 径 Particle Size (μm)	微分分布 Differential Distribution (%)	累积分布 Cumulative Distribution (%)	粒 径 Particle Size (Mm)	微分分布 Differential Distribution (%)	累积分布 Cumulative Distribution (%)	粒 径 Particle Size (Mm)	微分分布 Differential Distribution (%)	累积分布 Cumulative Distribution (%)
0.20			2.89	11.93	76.95	41.8	0.00	100.00
0.24	0.53	0.53	3.50	10.22	87.17	50.6	0.00	100.00
0.29	0.75	1.28	4.24	7.17	94.34	61.3	0.00	100.00
0.35	1.03	2.32	5.13	3.84	98.18	74.2	0.00	100.00
0.43	1.57	3.89	6.21	1.45	99.63	89.8	0.00	100.00
0.52	2.01	5.89	7.51	0.37	100.00	108.6	0.00	100.00
0.63	2.75	8.65	9.09	0.00	100.00	131.5	0.00	100.00
0.76	3.62	12.27	11.00	0.00	100.00	159.1	0.00	100.00
0.92	4.88	17.14	13.31	0.00	100.00	192.6	0.00	100.00
1.11	6.23	23.37	16.11	0.00	100.00	233.1	0.00	100.00
1.35	8.24	31.61	19.50	0.00	100.00	282.1	0.00	100.00
1.63	9.70	41.31	23.60	0.00	100.00	341.4	0.00	100.00
1.97	11.29	52.60	28.56	0.00	100.00	413.1	0.00	100.00
2.39	12.43	65.02	34.57	0.00	100.00	500.0	0.00	100.00

Comparison table for particle size and screen mesh

筛孔与目数对照表》

美国标准 (目) American Standard (mesh)	日本标准 (目) Japan Standard (mesh)	德国标准 (孔/cm ²) Germany Standard (hole/ cm ²)	颗粒大小 (微米) Particle Size (micron or μm)	美国标准 (目) American Standard (mesh)	日本标准 (目) Japan Standard (mesh)	德国标准 (孔/cm ²) Germany Standard (hole/ cm ²)	颗粒大小 (微米) Particle Size (micron or μm)
2	2.4		11100	110	131	1880	130
3	3.6	1.4	7090	120	146	2230	117
4	4.8	2.5	5160	125	149	2420	113
5	6.0	3.9	4040	130	155	2610	109
6	7.2	5.6	3350	140	167	3040	107
7	8.4	7.6	2870	150	178	3480	104
8	9.5	9.9	2460	160	191	3960	96
10	11.9	15.5	1900	170	202	4480	89
12	14.6	22.5	1520	175	209	4750	86
14	16.7	30.3	1300	180	215	5050	84
16	19.1	39.6	1130	200	238	6200	74
18	21.5	50.0	980	230	274	8200	65
20	23.8	60.2	864	240	286	8900	63
24	28.6	89.1	701	250	298	9700	61
28	33.4	122	577	270	322	1130	53
30	35.8	140	535	300	358	14000	46
32	38.2	159	500	325	388	16400	43
35	41.7	190	447	400	477	24800	35
40	47.7	248	381	500	596	38700	28
42	50.0	273	355	600	715	55800	23
45	53.6	314	323	800	955	99000	18
48	57.2	357	295	1000	1193	155000	13
50	59.6	388	279	1340	1600	178000	10
60	71.5	560	221	2000	2380	62000	6.5
65	77.5	655	203	5000	5960	3880000	2.6
70	83.5	760	185	8000	9550	9900000	1.6
80	95.5	990	173	10000	11930	15500000	1.3
90	107.3	1260	150	12000	15150	25000000	1.0
100	119.3	1550	140				

注1：目前国内标准颗粒大小“微米”与“目”的对应关系参照美国标准。

Note 1: the present domestic standard for comparison table of particle size and screen mesh is referred to American standard.

注2: 1mm=1000μm.

Note 2: 1mm=1000μm.