



**JOYAL**  
卓亚矿机



**上海卓亚矿山机械有限公司**  
SHANGHAI JOYAL MINING MACHINERY CO., LTD.





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## 公司简介

### Brief Introduction

上海卓亚矿山机械有限公司是一家专业从事破碎筛分设备、工业磨粉设备等矿山机械研发与制造的高新科技企业。公司拥有国内一流的生产制造基地，配备有智能化、标准化的检测、控制实验室，并拥有专业的研发、生产、销售及服务团队。

公司产品主要包括颚式破碎机、圆锥破碎机、反击式破碎机、冲击式破碎机、锤式破碎机、振动给料机、振动筛、洗砂机、胶带输送机破碎筛分设备；雷蒙磨粉机、高压悬辊磨粉机、三环微粉磨、球磨机等工业磨粉设备。广泛应用于矿业、建材、化工、冶金、交通、水利等行业。产品不仅畅销国内20多个省、市、自治区，并且远销东欧、中东、非洲、南亚、东南亚、西亚、澳洲、南美洲、北美洲等几十个国家和地区。

为顺应现代化发展潮流，满足国际市场竞争需要，公司不断引进业内高级管理人才、科技精英及高等院校的毕业生加盟，并先后引进了美国、德国、日本等国家的先进技术和工艺，切实做到自我创新与发展。

公司秉承“以人为本，客户至上，开拓创新”的管理服务理念，不仅为客户提供高性价比的产品，更为客户提供最合理的设备选型、最优化的工艺配置以及全方位的技术支持，力争使客户以最小的投入获得最大的收益。为此，我们一直在努力着，并时刻准备着在任何情况下为客户提供帮助！





## BRIEF INTRODUCTION

Shanghai Joyal Mining Machinery Co., Ltd. is a high-tech enterprise, which is specializing in the research, development and manufacture of industrial stone crushing & screening equipments, grinding mills, mining equipments and so on. Our company has already formed a full set of modern production line, equipped with intelligent, standardized testing and controlling laboratories, owned a professional team for R&D, production, sales and service.

So far, we have established a whole production chain, of which main products cover Stone Crushing & Screening Equipments: Jaw Crusher, Cone Crusher, Impact Crusher, Vertical Impact Crusher, Hammer Crusher, Vibrating Feeder, Vibrating Screen, Sand Washer, Belt Conveyor; and Grinding Machinery: Raymond Mill, High-pressure Suspension Mill, Three-ring Micro Powder Mill, Ball Mill and so on. They are widely used in the industry of mining, construction materials, chemicals, metallurgy, transportation, hydraulic engineering and so on. Our products are not only renowned in more than 20 provinces and cities in domestic markets, but also have been sold widely in more than dozens of countries and areas all over the world like Eastern Europe, Middle East, Africa, South Asia, Southeast Asia, Oceania, and Central and South America, etc.

To meet the trend of modernization development and the competition of international markets, our company has been introducing senior management personnel, scientific and research elites, and advanced graduates continuously. And we are taking advantages of advanced technology from United States, Germany, Japan and other countries to achieve self-innovation and effective development.

Based on the concept of "people-oriented, customer supremacy, development and innovation", we are able to provide our customers not only the highest quality products at the most favorable price, but also the most reasonable solution, such as the selection of equipment, optimum process configuration and a full range of technical support. In pursuit of bringing customers the most benefits with minimal investment, we have been trying our best to help customers at any time!

# 颚式破碎机

## Jaw Crusher



### 用途及适用范围

颚式破碎机广泛应用于矿山、建材、化工、冶金等行业，可对抗压强度不大于320MPa的各种矿石、岩石等物料进行粗、中碎作业。

### Usage and Application

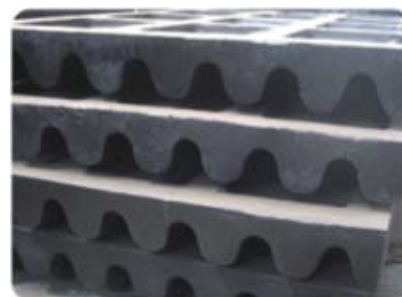
This machine is widely used in mining, building materials, chemical industry, metallurgy and so on. It is suitable for primary and secondary crushing all kinds of minerals and rocks with compressive strength less than 320 Mpa.

### 工作原理

由电动机驱动皮带和皮带轮，通过偏心轴使动颚上下运动，当动颚下行时，定颚与动颚间夹角变小，物料被压碎达到破碎目的；当动颚上升时定颚和动颚间夹角变大，动颚板在拉杆、弹簧的作用下离开定颚板，此时已破碎物料从破碎腔下口排出。

### Working Principle

The belt and belt pulley are driven by a motor, and the movable jaw moves up and down via eccentric shaft. The angle between fixed jaw and movable jaw becomes smaller when the movable jaw runs down, then the materials are crushed into pieces. It becomes bigger when the movable jaw runs up. The movable jaw plate leaves the fixed jaw plate under the action of tension rod and spring, then the end products come out from the crushing cavity.





### 性能特点

1. 结构简单，使用维护方便；
2. 破碎比大，产品粒度均匀；
3. 性能稳定，使用成本低；
4. 噪音低，粉尘少。

### Features:

1. Simple structure, convenient in maintenance;
2. High crushing ratio, even output granularity;
3. High reliability, low investment;
4. Low noise, less dust.



### 主要技术参数

### MAIN SPECIFICATIONS

型号 Model	项目 Item	进料口 尺寸 Feed Opening Size (mm)	最大进料 边长 Max. Feeding Size (mm)	出料口可 调节范围 Adjustable Range of Output Size (mm)	产量 Capacity (t/h)	电机功率 Motor Power (kw)	重量 Weight (t)	外形尺寸 Overall Dimension (mm)
PE250×400		250×400	200	20-50	5-20	15	2.9	1430×1310×1340
PE400×600		400×600	350	40-100	15-60	30-37	6.8	1700×1732×1653
PE500×750		500×750	425	50-100	40-100	45-55	11.2	2035×1921×2000
PE600×900		600×900	480	65-160	60-140	55-75	16.5	2290×2206×2370
PE750×1060		750×1060	630	80-150	80-230	90-110	29	2655×2302×3110
PE900×1200		900×1200	750	95-165	140-320	110-132	54.5	3789×3050×3025
PE1000×1200		1000×1200	850	105-185	180-400	160-200	56.5	3900×3320×3280
PE1200×1500		1200×1500	1020	150-300	250-800	220-250	99.6	4300×3540×4043
PEX150×250		150×250	125	10-40	1-3	5.5	0.85	896×745×935
PEX150×750		150×750	125	12-45	5-16	15	3.8	1205×1495×1203
PEX250×750		250×750	210	25-60	10-40	22-30	5	1667×1545×1020
PEX250×1000		250×1000	210	25-60	15-50	30-37	6.8	1964×1550×1380
PEX250×1200		250×1200	210	25-60	20-60	37-45	8.5	2192×1605×1415
PEX400×1200		400×1200	320	35-95	28-95	45-55	11.7	2256×2100×1960
JCE1302		180×1300	150	10-30	12-50	30-37	6	1320×2150×1175
JCE1003		250×1000	220	20-40	15-65	30-37	5.6	1400×1850×1310
JCE1303		250×1300	220	20-40	26-85	37-45	6.8	1450×2150×1175
JCE604		400×600	350	35-85	15-85	30-37	10	1920×1460×1840

注：技术数据如有变动，恕不另行通知。Note: Any change of technical data shall not be advised additionally.

## 圆锥破碎机 Cone Crusher

### 用途及适用范围

本机广泛应用于冶金、建材、矿业、化工等行业，可对铁矿石、铜矿石、石灰石、石英、花岗岩、砂岩等中等和中等以上硬度的物料进行中、细碎作业。标准型适用于中碎，中型和短头型适用于细碎。

### Usage and Application

This machine is widely used for secondary and fine crushing in the fields of mining, chemical industry, building materials, metallurgy and so on. It can crush materials with Moh's scale in middle and high hardness such as ironstone, copper ore, limestone, quartz, granite, rock and so on. The standard type (PYB) is applied to secondary crushing; the medium type (PYZ) and the short-head (PYD) are applied to fine crushing.



### 工作原理

圆锥破碎机工作时，电动机通过弹性联轴器、传动轴和一对锥齿轮带动偏心轴套转动，破碎圆锥轴心线在偏心轴套的迫动下做旋摆运动，使破碎壁和轧臼壁时而靠近，时而远离，矿石在破碎腔内不断地受到挤压、撞击和弯曲而被破碎。



### Working Principle

When the cone crusher is working, the motor drives the eccentric bearing bushing via spring coupling, transmission shaft and a couple of cone gear wheel. The crushing cone axis is forced to swing by the eccentric bearing bushing, which makes the mantle close to the bowl liner and far away from the bowl liner from time to time. The raw materials are pressed, impacted and finally crushed in the crushing cavity.

### 性能特点

1. 生产能力大，性能稳定；2. 易损件使用寿命长，运行成本低；3. 稀油站连续供油润滑，减少停机维护时间。

### Features:

1. High capacity and good quality; 2. Long life for quick-wear parts, and low investment cost; 3. Dilute petrol stations for continuous lubrication to reduce downtime maintenance time.





## 主要技术参数

## MAIN SPECIFICATIONS

型号 Model	项目 Item	最大进料粒度 Max. Feeding Size(mm)	出料口可调整范围 Adjustable Range of Output Size(mm)	处理能力 Capacity (t/h)	电机功率 Motor Power (kw)	重量 Weight (t)	外形尺寸 Overall Dimension (mm)
PYB600		65	12-25	10-25	30	5	2234×1370×1675
PYD600		35	3-13	5-20	30	5.5	2234×1370×1675
PYB900		115	15-50	50-90	55	11.2	2692×1640×2350
PYZ900		60	5-20	20-65	55	11.2	2692×1640×2350
PYD900		45	3-13	15-50	55	11.3	2692×1640×2350
PYB1200		145	20-50	110-168	110	24.7	2790×1878×2844
PYZ1200		100	8-25	42-135	110	25	2790×1878×2844
PYD1200		50	3-15	18-105	110	25.6	2790×1878×2844
PYB1750		215	25-60	280-480	160	50.3	3910×2894×3809
PYZ1750		185	10-30	115-320	160	50.3	3910×2894×3809
PYD1750		85	5-15	75-230	160	50.4	3910×2894×3809
PYB2200		300	30-60	490-800	260/280	80	4622×3302×4470
PYZ2200		230	10-30	200-580	260/280	80	4622×3302×4470
PYD2200		100	5-15	120-340	260/280	81.4	4622×3302×4470

注：技术数据如有变动，恕不另行通知。Note: Any change of technical data shall not be advised additionally.

## 西蒙斯圆锥破碎机 Symons Cone Crusher

### 用途及适用范围

西蒙斯圆锥破碎机是在PY系列弹簧圆锥破碎机基础上经过优化改进的高效机型。它广泛应用于矿山、建材、冶金等行业，可对各种金属矿石、玄武岩、花岗岩、石灰石、鹅卵石、砂岩等中等和中等以上硬度的物料进行中、细碎作业。

### Usage and Application

Symons Cone Crusher is a high-performance model optimized and improved on the basis of PY Series Spring Cone Crusher. It is widely used for secondary and fine crushing in the fields of mining, building materials, metallurgy and so on. It can crush materials with middle and high hardness, such as metal ore, basalt, granite, limestone, cobblestone, sandstone and so on.



### 性能特点

1. 用户可根据生产需要，选择破碎效率高、产品粒度均匀、粒型合适的破碎腔型。
2. 独特的防尘密封结构，延长了润滑油的更换周期和零件的使用寿命。
3. 关键零部件采用特殊材料制作，支持大破碎力。
4. 破碎臂长，冲程大，破碎力大，产量高。
5. 采用液压清腔系统，操作方便，减少停机时间。
6. 性能稳定，运行成本低，易损件使用寿命长。

### Features:

1. Customers can choose suitable crushing cavity according to the material feature, finished product fineness and particle size requirement.
2. Unique dustproof and sealing structure extend cycle of lubricants replacement and spare parts service life.
3. The key parts are made of special materials, which support the strong crushing.
4. With long crushing arm, big stroke, strong crushing, and high capacity.
5. Adopting hydraulic cavity cleaning system, easy operation, and reducing machine downtime.
6. With reliable performance, low investment cost, and long service life of quick-wear parts.



## 主要技术参数

## MAIN SPECIFICATIONS

型号规格 Model	腔形 Cavity Size	最大 给料尺寸 Max Feeding Size (mm)	排料口调整范围 Adjusting Range of Output Size (mm)	处理能力 Capacity (th)	电机功率 Motor Power (kw)	机器重量 Weight (t)	外形尺寸 Overall Dimension (mm)
ZYS36B	细型 Fine	85	9-22	45-91	75	14.5	2656 × 1746 × 2410
	粗型 Coarse	150	13-38	59-163			
	特粗型 Extra Coarse	152	25-38	118-163			
ZYS36D	细型 Fine	35	3-13	27-90	160	15	2958 × 2354 × 3156
	中型 Medium	65	5-16	36-100			
	粗型 Coarse	85	6-19	59-129			
ZYS51B	细型 Fine	115	13-31	109-181	220	26.5	3941 × 2954 × 3771
	中型 Medium	178	16-38	132-253			
	粗型 Coarse	205	19-51	172-349			
	特粗型 Extra Coarse	220	25-51	236-358			
ZYS51D	细型 Fine	54	3-16	36-163	315	27	4613 × 3251 × 4732
	中型 Medium	76	6-16	82-163			
	粗型 Coarse	89	8-25	109-227			
	特粗型 Extra Coarse	113	16-25	209-236			
ZYS66B	细型 Fine	178	16-38	181-327	90	51	4613 × 3251 × 4732
	中型 Medium	205	22-51	258-417			
	粗型 Coarse	228	25-64	299-635			
	特粗型 Extra Coarse	313	38-64	431-645			
ZYS66D	细型 Fine	60	5-13	90-209	92	52	4613 × 3251 × 4732
	中型 Medium	76	6-19	136-281			
	粗型 Coarse	113	10-25	190-336			
	特粗型 Extra Coarse	125	13-25	253-336			
ZYS84B	细型 Fine	236	19-38	381-726	315	90	4613 × 3251 × 4732
	中型 Medium	284	25-51	608-998			
	粗型 Coarse	314	31-64	789-1270			
	特粗型 Extra Coarse	391	38-64	880-1361			
ZYS84D	细型 Fine	89	5-16	190-408	92	92	4613 × 3251 × 4732
	中型 Medium	113	10-19	354-508			
	粗型 Coarse	151	13-25	454-599			
	特粗型 Extra Coarse	172	16-25	508-653			

注：技术数据如有变动，恕不另行通知。 Note: Any change of technical data shall not be advised additionally.

# HP系列液压圆锥破碎机

## HP Series Hydraulic Cone Crusher

### 用途及适用范围

该机适用于矿山、建材、冶金等行业，可对铁矿石、铜矿石、花岗岩、玄武岩、鹅卵石、大理石、石灰石等中等和中等以上硬度的物料进行中、细碎作业。尤其在产品粒形要求严格，成品率要求较高，自动化程度高的破碎生产线中被首选使用。

### Usage and Application

The machine is widely used for secondary and fine crushing in the fields of mining, building materials, metallurgy and so on. It can crush materials with middle and high hardness, such as ironstone, copper ore, granite, basalt, cobblestone, marble, limestone and so on. It is popular to be used in the high automatic crushing line which has strict requirement for finished products' shape and ratio.

### 性能特点

1. 该机配置了保险油缸、锁紧油缸和液压推动油缸三种液压保险机构，不仅起保险作用，而且实现了不拆卸机器零件的情况下处理故障。

2. 能自动调节排料大小，操作方便，可靠性强。



3. 通过采用粒间层压原理设计的特殊破碎腔及与之相匹配的转速，显著提高了破碎比和产量，增加了成品料立方体的含量。

4. 该机在发生过铁及瞬间闷车的情况下，能液压起顶，自动排料，消除了原弹簧圆锥破碎机需停机进行人工排料的烦恼，使维修更简便，费用更节约。

5. 采用液压调整，稀油润滑，并采用有效的迷宫密封方式从根本上消除了原弹簧圆锥破碎机水油易混合的缺陷。

6. 破碎壁、轧臼壁采用高锰钢制作，再加上破碎腔型的改变和层压破碎时料层的保护，使磨损降低，易损件使用寿命相比老式结构圆锥破碎机可提高30%-80%。



**Features:**

1. Three kinds of hydraulic protecting parts (protecting oilcan, locking oilcan and hydraulic driving oilcan) not only protect the machinery, but also deal with troubles without disassembling the parts.
2. Easy operation, reliable performance and adjustable finished products size.
3. The crushing cavity is specially designed according to particles-layer-pressure principle. The special cavity and the suitable rotary speed improve crushing ratio and capacity as well as the cubic product percentage.
4. If something abnormal happens, such as iron is feed into the crushing cavity or there is a jam in the cavity, the machine will lift up the cover and discharge the materials automatically. This eliminates the trouble of stopping the machine to discharge the material by workers, so the maintenance is easier, the cost is lower than spring cone crusher.
5. It is adjusted by hydraulic device and lubricated by diluted oil. The labyrinth seal eliminates the defect of mixture between water and oil in the traditional spring cone crusher.
6. The mantle and bowl liner are made by high manganese steel. The special design of crushing cavity and particles-layer-pressure protection decrease the abrasion, making the service time 30%-80% longer than traditional cone crusher.

**主要技术参数**

**MAIN SPECIFICATIONS**

项目 Item 型号 Model	腔形 Cavity Size (Coarse/Fine)	最小排料 口尺寸 Minimum Discharging Size (mm)	最大进料 尺寸 Max Feeding Size(mm)	处理量 Capacity (t/h)	重量 Weight (t)	功率 Power (kw)
HP-160	C	13	150	120-240	13	160
	F	6	76	55-180		
HP-220	C	13	225	150-430	18	220
	F	6	86	90-260		
HP-315	C	13	290	190-610	26	315
	F	6	100	108-320		
HP-400	C	16	320	230-700	33	400
	F	8	110	145-430		

注：技术数据如有变动，恕不另行通知。 Note: Any change of technical data shall not be advised additionally.

# 反击式破碎机

## Impact Crusher

### 用途及适用范围

本机可对抗压强度不超过350MPa的各种矿石、岩石（如花岗岩、大理石、石灰石）等物料进行粗、中、细碎作业，广泛应用于公路、铁路、水利、电力、建筑等行业建设用砂石料的生产。

### Usage and Application

This machine is used for primary, secondary, fine crushing mining and rocks (for example, granite, marble, and limestone) materials with compressive strength less than 350 MPa. It is widely used for sand and rock producing in the industry of roads, railways, water conservancy projects, electricity power, building materials and so on.

### 工作原理

该机是利用冲击能来破碎物料的。当物料进入板锤作用区时，受到板锤的高速冲击使被破碎物不断被抛向安装在转子上方的反击装置上，然后又从反击衬板上弹回到板锤作用区重新被反击，物料由大到小在破碎腔内重复进行破碎，直到物料被破碎至所需粒度，由机器下部排出。

### Working Principle

The materials are crushed via impact energy produced in the crusher. When the materials enter the zone of the blow bar, they are flung into the impact equipments via the high-speed impact of the blow bar. These materials will be re-crushed after rebounding into the impact plate. The process goes on until the materials are crushed to the required size and then will be discharged from outlet of machine.



### 性能特点

1. 产品形状呈立方体，粒形好；
2. 排料粒度大小可调，简化破碎流程；
3. 高铬板锤，抗冲击、耐磨损，且冲击力大；
4. 无键连接，检修方便，经济可靠；
5. 结构紧凑，机器刚性强。





**Features:**

1. Cubic shaped end products;
2. Adjustable end products sizes, simple crushing process;
3. High chrome and abrasion resistant blow bar, powerful impacting force;
4. Non-key connected, easy maintenance, economical and reliable;
5. Compact construction, high efficiency.

**主要技术参数**

**MAIN SPECIFICATIONS**

型号 Model	项目 Item	规格 Rotor Size (mm)	进料口 尺寸 Feed Opening Size(mm)	最大进料 边长 Max. Feeding Size(mm)	处理量 Capacity (t/h)	电机功率 Motor Power (kw)	重量 Weight (t)	外形尺寸 Overall Dimension (mm)
PF-1007		Φ1000×700	400×730	250	15-50	37-55	9.5	2400×1560×2660
PF-1010		Φ1000×1050	400×1080	300	50-80	55-75	13.2	2440×2250×2630
PF-1210		Φ1250×1050	400×1080	300	70-130	110-132	16.5	2700×2340×2870
PF-1214		Φ1250×1400	400×1430	300	90-180	132-160	19.5	2700×2695×2900
PF-1315		Φ1320×1500	860×1520	350	120-250	180-260	24.8	2860×2800×3050
PF-1320		Φ1320×2000	860×2030	500	160-350	300-375	30	2870×3350×3090

注：技术数据如有变动，恕不另行通知。 Note: Any change of technical data shall not be advised additionally.

# 立式冲击破碎机

## PCL Series Vertical Shaft Impact Crusher

### 用途及适用范围

本机可对各种矿石、岩石、耐火材料、玻璃原料以及各种冶金渣进行细碎、粗磨作业，特别对碳化硅、金刚砂、烧结铝矾土、镁砂等特硬及耐磨蚀性物料的破碎比其它类型的破碎机更具有优越性。该机作为制砂设备在砂石生产线中使用较多。

### Usage and Application

This machine is widely used for fine crushing and coarse grinding in mining, rocks, fireproof materials, glass raw material and metallurgy residues. It is much more professional than other crushers in crushing hard and anti-abrasion materials such as carborundum, sintered bauxite, magnesite and so on. It is usually used as sand making machine in the sand production line.

### 工作原理

物料由机器上部垂直落入高速旋转的叶轮内，在高速离心力的作用下，与另一部分以伞状形式分流在叶轮四周的物料产生高速撞击而破碎，物料在相互撞击后，又会在叶轮和机壳之间形成涡流并多次的互相撞击、摩擦而粉碎，从下部垂直排出，通过筛分设备筛分出所要求的成品粒度。

### Working Principle

The materials fall into the crusher and are divided into two parts. One part goes into the high-speed-running impeller of the machine, and the other part goes around the impeller. The two parts materials bump and crush fast during the effect of centrifugal force. Then the materials run like swirl, bump and rub to each other again and again. The finished products go out from the bottom of the machine, and users can get the requested products size after screening by vibrating screen.







### 性能特点

1. 结构简单合理、运行成本低;
2. 破碎率高、节能;
3. 叶轮自衬磨损小、维修方便;
4. 具有细碎、粗磨功能;
5. 受物料水分含量影响小、含水量可达8%左右;
6. 更适合破碎中硬、特硬物料;
7. 产品成立方体, 堆积密度大, 铁污染极小;
8. 工作噪声低于75分贝, 粉尘污染少。

### Features:

1. Simple structure and low investment cost.
2. High efficiency and low consumption.
3. Less abrasion of impeller liner, convenient in maintenance.
4. Having the function of fine crushing and coarse grinding.
5. Slightly influenced by the moisture content of the material. The max moisture content is 8%.
6. Suitable for crushing materials of middle hardness and high hardness.
7. Cubic shaped finished products, high stack density, and low iron pollution.
8. Working noise <75db, and less dust pollution.

### 主要技术参数

### MAIN SPECIFICATIONS

型号 Model	项目 Item	叶轮转速 Impeller Speed (rpm)	最大进料 粒度 Max. Feeding Size(mm)	处理量 Capacity (t/h)	电机功率 Motor Power (kw)	重量 Weight (t)	外形尺寸 Overall Dimension (mm)
PCL-600		2000-2600	30	12-30	2×30	5.6	2800×1500×2030
PCL-750		1500-2500	35	25-55	2×45	7.3	3300×1800×2440
PCL-900		1300-1700	40	50-80	2×55	12.1	3750×2120×2660
PCL-1050		1100-1450	45	70-120	2×110	16.5	4480×2450×2906
PCL-1250		950-1200	45	80-160	2×132	22	4563×2650×3176
PCL-1350		800-1200	50	120-220	2×160	26	5340×2940×3650

注: 技术数据如有变动, 恕不另行通知。Note: Any change of technical data shall not be advised additionally.

## VSI系列冲击式破碎机

### VSI Series Vertical Shaft Impact Crusher



#### 用途及适用范围

VSI系列冲击式破碎机是引进德国技术最新研制生产的具有世界先进水平的高性能制砂设备。该机专为高速公路、高速铁路、高层建筑、市政工程、水电大坝建设、混凝土搅拌站生产优质砂石骨料，是人工制砂和石料整形领域的首选设备。

#### Usage and Application

This machine is advanced and high-efficiency equipment. It is the latest researched results basing on Germany technology. The machine is professional in producing qualified sand and stone for highway, high-speed railway, high building, city project, hydropower dam constructions, and concrete mixing plant. It is widely used in sand making and stone reshaping industry.

#### 性能特点

1. 双油泵互补供油，无油自动停机，水冷降温，冬季电机加热启动。
2. 液压开盖装置，使破碎腔内部件检修拆换方便快捷，省时省力。
3. 轴承采用国际知名品牌SKF或TIMKEN，确保运行平稳，故障率低。
4. 设置过振动报警装置，如果设备发生不良运转，可发出警告，使设备停止工作，达到保护机器的目的。
5. 独有的进料破碎结构，可很方便地实现“石打石”和“石打铁”的转换，既可破碎又可整形。
6. 独特的防尘密封系统，完全避免外部粉尘进入润滑部位。
7. 最佳的破碎腔物料撞击角度设计，使物料与易损件的摩擦少，延长了易损件的使用寿命，使用成本大大降低。

#### Features:

1. Oil supplied by two oil pumps; stops automatically if there is no oil; Cooled by water; heating the motor firstly if start the machine in winter.
2. Hydraulic lifting when changing or checking the spare parts which makes it easy and convenient in maintenance.
3. Famous brand SKF or TIMKEN of the bearing makes the machine work well and few problems.
4. Vibrating alarm device; if the crusher works abnormally alarm will sound to make the machine stop working so as to protect the crusher.
5. Special feeding structure; rock on rock and rock on iron in the crusher making the stones to be crushed and reshaped.
6. Unique dustproof seal system, protects the lubrication parts from the dust outside.
7. Perfect design on material bumping angle reduces the friction between raw material and quick-wear parts, prolongs the service time of quick-wear parts and cuts the cost.



## 主要技术参数

## MAIN SPECIFICATIONS

型号 Model		VSI-7611	VSI-8518	VSI-9526	VSI-1140
处理能力 Capacity (t/h)	瀑落与中心进料 Center and Sides Feeding	120-180	200-260	300-380	450-520
	全中心进料 Center Feeding	60-90	100-130	150-190	225-260
最大进料尺寸 Max. Feeding Size (mm)	软料 Soft Material	35	40	45	50
	硬料 Hard Material	30	35	40	45
转速 Rotation Speed(rpm)		1700-1890	1520-1690	1360-1510	1180-1310
双电动机功率 Double Motor Power (kw)		110	180	264	400
最大外形尺寸 Overall Dimension 长×宽×高 L×W×H (mm)		3700×2150 ×2100	4140×2280 ×2425	4560×2447 ×2778	5000×2700 ×3300
重量 Weight (t)		7.8	10.3	16	25.6
振动传感器 Vibrating Sensor		监测范围: 0.1-20mm/s连续可调 Inspection Range: 0.1-20mm/s continual adjustment			
液压润滑站 Hydraulic Oil Pump	双油泵电动机功率 Motor Power of Double Oil Pump(kw)	2×0.31kw			
	外形尺寸长×宽×高 Overall Dimension L×W×H (mm)	820×520×1270			
	油箱加热器功率 Power of Oil Tank Heater	2kw			

注: 技术数据如有变动, 恕不另行通知。Note: Any change of technical data shall not be advised additionally.

## 圆振动筛 Circular Vibrating Screen

### 用途及适用范围

圆振动筛是一种多层、高效振动筛，它可以把物料按粒度大小筛分成多种级别范围的产品。广泛应用于矿山、建材、交通、能源、化工等行业的产品筛选和分级。

### Usage and Application

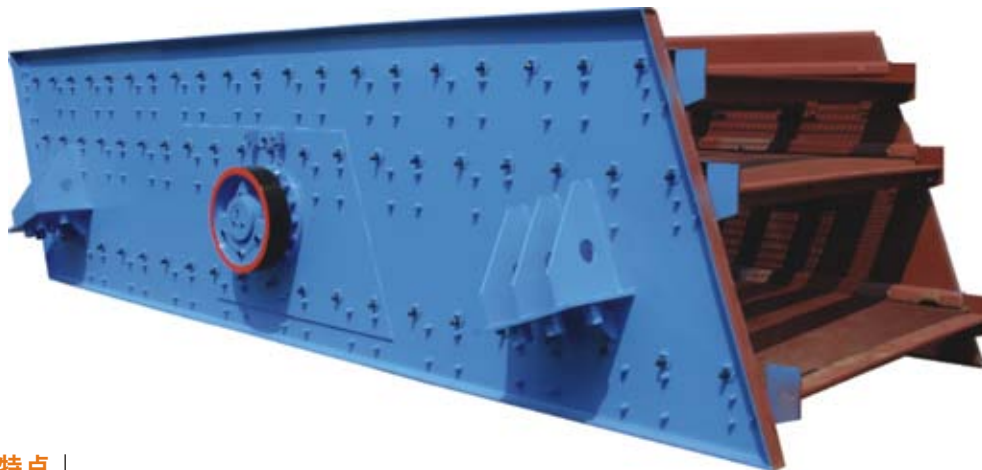
This vibrating screen moves round with multi-layers and high efficiency. It can screen the materials into multiple levels products according to the different material size. It is widely used for grading and screening in the industry of mining, building materials, transportation, energy, and chemical industry, etc.

### 工作原理

该机是利用普通电机通过三角皮带带动振动器，使筛体沿激振力方向作周期性往复振动，物料在筛面作圆运动，从而达到筛分目的。

### Working Principle

The motor drives the vibrator via v-belt, which makes the screen do a cyclical reciprocating in the direction of vibrator. The materials are sieved by making round movement in the screen.



### 性能特点

1. 物料筛淌线长，筛分规格多；
2. 采用偏心块作为激振力，激振力强；
3. 筛子横梁与筛箱采用高强度螺栓联接，结构简单，维修方便快捷；
4. 采用小振幅、高频率、大倾角结构，筛分效率高、处理量大、使用寿命长、电耗低、噪音小。

### Features:

1. Long flowing line and various screening specifications.
2. Using the eccentric blocks to generate strong vibrating force.
3. Screen cross-beam and box are connected by strong bolts, simple structure, convenient in maintenance.
4. Small amplitude, high frequency, large-inclination structure, high efficiency, large capacity, long service life, low power consumption and noise.



主要技术参数

MAIN SPECIFICATIONS

型号 Model	项目 Item	筛面规格 Screen Size(mm)	筛面层数 Screen Decks	筛孔尺寸 Screen Hole Size(mm)	最大进料尺寸 Max. Feeding Size(mm)	处理能力 Capacity (t/h)	电机功率 Motor Power (kw)	重量 Weight (t)	外形尺寸 Overall Dimension (mm)
2YZS1237		3700×1200	2	3-50	200	10-80	11	2.40	4773×2050×2247
3YZS1237		3700×1200	3	3-50	200	10-80	11	3.05	4773×2050×2700
2YZS1548		4800×1500	2	3-100	400	30-200	15	5.35	5900×2270×1620
3YZS1548		4800×1500	3	3-100	400	30-200	15	6.07	5900×2270×1670
2YZS1848		4800×1800	2	3-100	400	50-280	18.5	6.15	5900×2560×1620
3YZS1848		4800×1800	3	3-100	400	50-280	18.5	6.93	5900×2560×1670
2YZS1860		6000×1800	2	3-100	400	65-550	22	6.95	7060×2560×1620
3YZS1860		6000×1800	3	3-100	400	65-550	22	7.70	7060×2560×1670
4YZS1860		6000×1800	4	3-100	400	65-550	30	8.70	7060×2560×1930
2YZS2160		6000×2100	2	3-100	400	81-720	22	8.48	7130×2990×1760
3YZS2160		6000×2100	3	3-100	400	81-720	30	9.24	7130×2990×1810
4YZS2160		6000×2100	4	3-100	400	81-720	30	10.45	7130×2990×1930
2YZS2460		6000×2400	2	3-150	400	100-810	30	12.35	7130×4121×1810
3YZS2460		6000×2400	3	3-150	400	100-810	37	13.85	7130×4121×1940
4YZS2460		6000×2400	4	3-150	400	100-810	37	15.60	7130×4121×2080

注：技术数据如有变动，恕不另行通知。 Note: Any change of technical data shall not be advised additionally.

## 振动给料机 Vibrating Feeder

### 用途及适用范围

振动给料机可以把块状、颗粒状物料从贮料仓均匀、定时、连续地送入受料装置，在砂石生产线中可为破碎机连续均匀地喂料，并对物料进行粗筛分。该机广泛应用于冶金、建材、化工、煤矿、选矿、磨料等行业的破碎、筛分生产线中。

### Usage and Application

The machine can send shaped and granule materials into receiving equipment evenly, timely and continuously. It can feed the crusher continuously and classify the material primarily in sand making and stone crushing line. It is widely used as crushing and screening line in the industry of metallurgy, building materials, chemical industry, coal mining, and abrasive material.



### 性能特点

1. 振动平稳，使用寿命长；2. 激振力可调，可随时改变和控制流量；3. 噪声低，耗电少；4. 结构简单，安装使用方便。

### Features:

1. Smoothly vibrating, long service life . 2. Adjustable vibrating force and flow of materials. 3. Low noise and power consumption. 4. Simple structure, convenient installation and operation.



**主要技术参数**

**MAIN SPECIFICATIONS**

项目 型号 Model	进料槽尺寸 Feeding Chute Size (mm)	最大进料 边长 Max. Feeding Size(mm)	处理量 Capacity (t/h)	电机功率 Motor Power (kw)	重量 Weight (kg)	外形尺寸 Overall Dimension (mm)
GZD-750×2500	750×2500	300	50-80	3	1590	2580×1100×1400
GZD-850×3000	850×3000	400	80-120	7.5	3895	3110×1800×1600
GZD-960×3800	960×3800	500	120-210	11	3980	3850×1950×1630
GZD-1100×4200	1100×4200	580	200-430	15	4170	4400×2050×1660
GZD-1100×4900	1100×4900	580	280-500	15	4520	5200×2050×1700
GZD-1300×4900	1300×4900	650	450-600	22	5200	5200×2350×1750
GZD-1500×6000	1500×6000	800	500-700	30	8670	6082×2995×2095

注：技术数据如有变动，恕不另行通知。 Note: Any change of technical data shall not be advised additionally.

## 锤式破碎机 Hammer Crusher

### 用途及适用范围

本机适用于矿业、建材、化工、冶金、饲料等行业，可对重晶石、石灰石、水磨石、硅砂石、煤炭、焦炭、石膏、硫酸铝、矿渣等中等硬度以下物料进行中、细碎作业。

### Usage and Application

It is widely used in the industry of mining, building materials, chemical industry, metallurgy and fodder. It can crush materials with middle or less than middle hardness into secondary or fine granularity, such as, barite, limestone, terrazzo, silica sandstone, coal, coke, gypsum, aluminum sulfate, slag, etc.



### 工作原理及特点

通过电动机驱动转子，转子带动转子上的锤板高速旋转，物料进入破碎腔后受锤板的高速撞击、冲击、剪切而被粉碎，成品料通过机器下端筛条排出机外，出料粒度可通过调节筛条间隙来调整。该机具有结构简单、操作方便、生产效率高、投资小等优点。

### Working Principle and Features

The electric motor drives the rotor and the rotor moves, making the hammer rotate in high speed. The materials are crushed in the crusher by the rotated hammer. The end products come out via the strips of the screen under the machine. The size of the granularity can be adjusted by changing the gap among the screen strips. The advantages of the machine are simple in operating, high in productivity, and very low investment cost.

### 主要技术参数

### MAIN SPECIFICATIONS

型号 Model	项目 Item	最大进料粒度 Max. Feeding Size(mm)	出料粒度 Output Size (mm)	处理量 Capacity (t/h)	电机功率 Motor Power (kw)	重量 Weight (t)
PC400×300		100	<15	3-10	11	0.86
PC600×400		120	<15	8-15	22	1.55
PC800×600		150	<20	10-40	55	4.8
PC1000×800		200	<30	16-65	110	8.1
PC1300×1200		280	<40	50-200	240	14.8
PC1600×1600		350	<50	100-350	480	37.5

注：技术数据如有变动，恕不另行通知。Note: Any change of technical data shall not be advised additionally.



## 胶带输送机 Belt Conveyor



### 用途及特点

本机广泛应用于矿山、建材、冶金、煤炭等行业，用来输送松散物料或成件物品。根据输送工艺要求，可以单台输送，也可以多台组合，或与其它输送设备组成水平或倾斜的输送系统，以满足不同布置形式的作业线需要。该机具有输送量大、结构简单、维修方便、部件标准化等优点。

### Usage and Features

The machine is used for transferring bulk or packaged materials. It is widely used in the industry of mining, building materials, metallurgy, coal and so on. According to various transferring requirements, the transferring system can be single or multi-conveyors or combined with other equipment to make up slope or horizontal transfer systems to meet the need of different working conditions. The machine has advantages of large transfer quantity, simple operation, convenient maintenance and standard parts of the conveyor.

### 主要技术参数

### MAIN SPECIFICATIONS

胶带宽度 Belt Width (mm)	输送长度/功率 Conveying Length(m)/Power(m/kw)			输送速度 Transporting Speed(m/s)	输送量 Capacity (t/h)
	≤12/3	12-20/3-5.5	20-30/5.5-7.5		
500	≤12/3	12-20/3-5.5	20-30/5.5-7.5	1.25-2.0	40-80
650	≤12/4	12-20/4-5.5	20-30/5.5-11	1.25-2.0	80-120
800	≤10/4	10-15/4-5.5	15-30/5.5-15	1.25-2.0	120-200
1000	≤10/5.5	10-20/5.5-11	20-40/11-22	1.25-2.0	200-320
1200	≤10/7.5	10-20/7.5-15	20-40/15-30	1.25-2.0	290-480

注：技术数据如有变动，恕不另行通知。Note: Any change of technical data shall not be advised additionally.

# 洗砂机

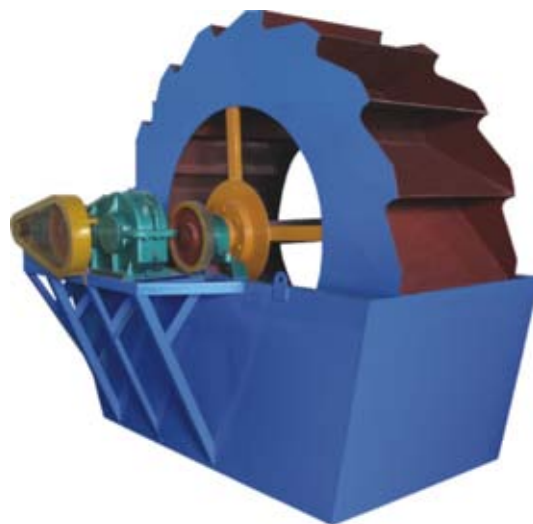
## Sand Washer

### 用途及适用范围

XSD系列洗砂机是与制砂机配套使用的一种轮斗式高效洗砂设备。它可以将制砂机制出的混合砂子洗去微量的石粉和杂质，从而提高砂子的质量。主要用于砂石厂、建设工地以及玻璃厂石英砂的洗选、分级和脱水。

### Usage Application

XSD series sand washer is a high-efficiency sand washing equipment adopting wheel-like structure, which works with sand making machine. It can wash the stone powder and impurity from the mixed sand that made by sand making machine, which can improve the sand quality. It is widely used in washing, grading and dehydrating in the industry of stone factories, construction site and quartz sand in glass factory.



### 性能特点

1. 洗净度高，结构合理，处理量大，功率消耗小；
2. 传动轴承装置与水和受水物料隔离，大大避免了轴承因浸水、砂和污染物导致损坏的现象；
3. 与螺旋洗砂机相比，中细沙和石粉流失极少，所洗建筑砂级配和细度模数达到标准要求；
4. 设备使用寿命长，维护成本极低。





**Features:**

1. High efficiency, reasonable structure, high capacity and low consumption.
2. The bearing device of impeller drive is separated from water and materials in water, which greatly protects the bearing from soaking, sand and other pollutants.
3. Compared with the spiral sand washing machine, the loss of medium and fine sand and powder is minimized, and the grade and fineness can meet the required standard.
4. This machine has long service life and low maintenance costs.

**XSD系列主要技术参数**

**XSD SERIES MAIN SPECIFICATIONS**

型号 Model	项目 Item	叶轮规格 Impeller Size (mm)	最大进料 粒度 Max. Feeding Size(mm)	处理量 Capacity (t/h)	电机功率 Motor Power (kw)	重量 Weight (t)	外形尺寸 Overall Dimension (mm)
XSD2610		Φ2600×1000	10	20-50	5.5	2.68	3255×1982×2690
XSD2816		Φ2800×1600	10	30-60	7.5-11	3.05	3540×3000×2880
XSD3016		Φ3000×1600	10	50-120	11-15	3.26	3845×3000×3080
XSD3620		Φ3600×2000	10	60-150	18.5	4.30	4500×3206×3480

注：技术数据如有变动，恕不另行通知。Note: Any change of technical data shall not be advised additionally.

**XL系列主要技术参数**

**XL SERIES MAIN SPECIFICATIONS**

型号 Model	项目 Item	螺旋直径 Spiral Diameter (mm)	螺旋数量 Number of Spiral(pcs)	入选粒度 Feeding Size (mm)	处理能力 Capacity (t/h)	耗水量 Water Consumption (m <sup>3</sup> /h)	功率 Motor Power (kw)	外形尺寸 Overall Dimension (mm)	重量 Weight (t)
XL-762		762	1	<10	75	9-63	11	9070×2650×1530	5.20
2XL-762		762	2	<10	140	20-150	2×11	9070×3250×1530	7.45
XL-914		914	1	<10	100	10-80	15	9070×2650×1638	6.35
2XL-914		914	2	<10	200	60-300	2×15	9070×3510×1638	11.30
XL-1118		1118	1	<10	175	13-168	22	9070×2830×1900	12.70
2XL-1118		1118	2	<10	350	60-600	2×22	9070×3890×1900	16.50

注：技术数据如有变动，恕不另行通知。Note: Any change of technical data shall not be advised additionally.

# 移动破碎站

## Portable Crushing Plant

### 用途及适用范围

移动破碎站突破了破碎场地固定、物料运输成本高等传统作业的制约，可对物料进行现场破碎、就近作业。广泛应用于矿山、冶金、建材、交通、水利等行业。



### 性能特点

- 1. 移动性好。**可直接深入作业场地，既适合普通公路行驶，也便于崎岖恶劣的道路环境中移动。
- 2. 结构紧凑，使用方便。**一体化的车载成套设备，大大节约了占地空间。自带车载式发电机组、电动机和控制箱，方便野外作业；配套车载安装支撑设备，使现场驻扎方便快捷。
- 3. 节约成本、降低费用。**移动破碎站可以对物料进行现场破碎，避免了物料的周转环节，大大降低了物料的运输成本。
- 4. 更高的适用性。**移动破碎站不仅可以单机组独立运行，也可以组合为粗碎、细碎两段破碎筛分系统，粗碎、中碎、细碎三段破碎筛分系统；或者依据现场需要组合成先碎后筛或者先筛后碎系统。
- 5. 性能稳定，维修方便。**移动破碎站配备了上海卓亚卓越性能的破碎机、给料机和振动筛，性能稳定，维修方便；物料运送配备常规皮带输送机，操作简单，技术成熟，投资少，收益高。
- 6. 配置灵活。**可以根据客户的作业现场、物料、粒型等方面的要求，对移动破碎站进行特别定制，为客户提供更加适合生产需要的设备，例如：单机式、多产品组合式、皮带机自载式等。

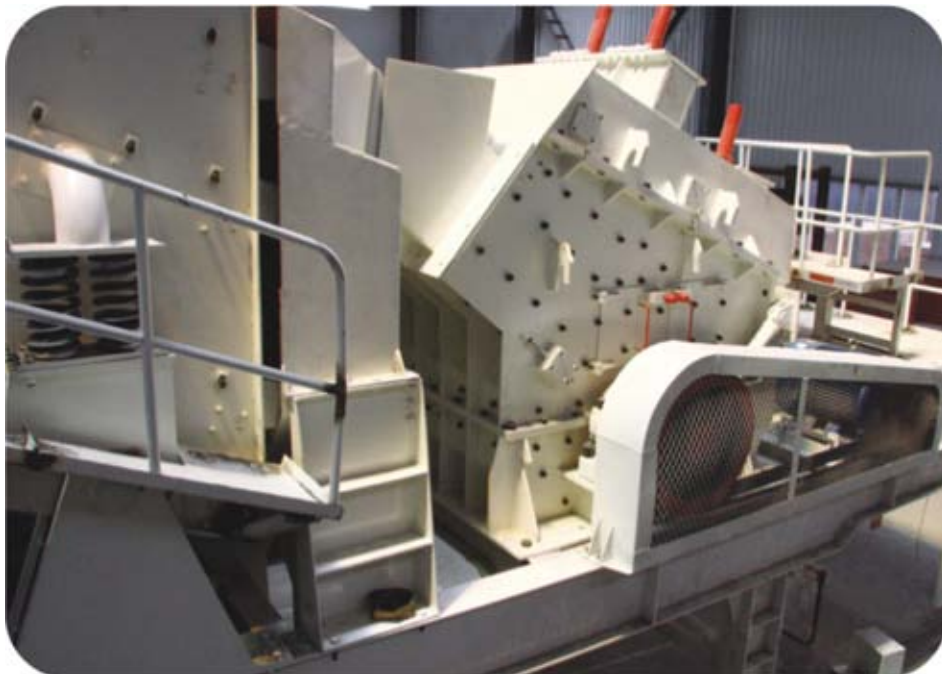
### Usage and Application

The portable crushing plant is not limited by the crushing place and reduces high material transportation cost. It can crush materials on site or work nearby. It is widely used in the industry of mining, metallurgy, building materials, traffic, water conservancy and so on.



**Features:**

1. Moving easily. It can go to the crushing place where it is difficult to go. It can move not only on the smooth road, but also on the bumpy road.
2. Compact structure and simple operation. Integrative equipment group with trailer saves the working area. With generator, motor and control box, it can work even in the place where there is no electricity. Equipped with supporting facilities, it can be installed quickly and conveniently.
3. Saving the cost. By crushing the materials on site, the transportation cost is reduced.
4. Wide applicability. The crushing plant can work as an independent unit or work with other units to form a primary-secondary crushing system or primary-secondary-fine crushing system. It can also work as a production line with the screening equipment according to the requirement of customers (firstly screening then crushing, or firstly crushing then screening)



5. Stable performance and convenient maintenance. Equipped with crushers, vibrating feeders and vibrating screens designed by Shanghai Joyal Mining Machinery, the machine shows high quality and reliable performance. Materials are delivered by belt conveyors, which is simple to operate and easy to maintain. The machine is featured by low investment and high production efficiency.

6. Flexible configuration. It can be customized according to customers' requirement on working site, materials and particle shape. Examples of customized machines include single units, combined units and so on.



## 移动颞式破碎站 Portable Jaw Crushing Plant



### 主要技术参数

### MAIN SPECIFICATIONS

规格 Model	项目 Item	给料机 型号 Vibrating Feeder	颞破型号 Jaw Crusher	皮带机 规格 Belt Conveyor	轮胎配置 Configuration of Wheels	加长皮带机 Extended Belt Conveyor	发电机 Generator	处理量 Capacity (t/h)	功率 Power (kw)	外形尺寸 Overall Dimension (长×宽×高) L×W×H(mm)	重量 Weight (t)
YG938E69		GZD960×3800	PE600×900	B650×7M	并装双轴 Dual-axle	选配 Optional	选配 Optional	70-150	91.5	13200×2900 ×4700	42
YG1142E710		GZD1100×4200	PE750×1060	B800×9M	并装三轴 Tri-axle	选配 Optional	选配 Optional	90-200	134	15000×3100 ×5100	55
YG1349E912		GZD1300×4900	PE900×1200	B1000×11M	并装四轴 Quad-axle	选配 Optional	选配 Optional	150-300	146	17000×3300 ×5600	72

注：技术数据如有变动，恕不另行通知。Note: Any change of technical data shall not be advised additionally.

## Portable Impact Crushing Plant 移动反击式破碎站



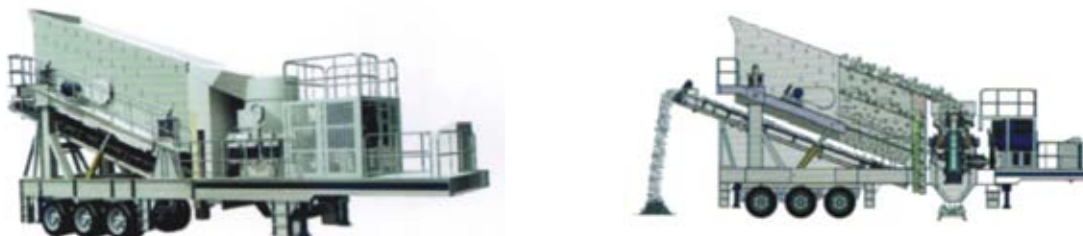
### 主要技术参数

### MAIN SPECIFICATIONS

规格 Model	项目 Item	振动筛型号 Vibrating Screen	反击破型号 Impact Crusher	皮带机规格 Belt Conveyor	轮胎配置 Configuration of Wheels	发电机 Generator	处理量 Capacity (t/h)	功率 Power (kw)	外形尺寸 Overall Dimension (长×宽×高) L×W×H(mm)	重量 Weight (t)
Y3S1548F1010		3YZS1548	PF1010	B500×7M	并装双轴 Dual-axle	选配 Optional	50-250	70-90	12500×2800×6000	42
Y3S1848F1210		3YZS1848	PF1210	B650×7M	并装双轴 Dual-axle	选配 Optional	70-300	128.5-150.5	12500×3000×6500	46
Y3S1860F1214		3YZS1860	PF1214	B650×8M	并装三轴 Tri-axle	选配 Optional	90-400	154-190	13500×3000×6500	51
Y3S2160F1315		3YZS2160	PF1315	B800×8M	并装三轴 Tri-axle	选配 Optional	120-450	210-297	14000×3200×6800	57

注：技术数据如有变动，恕不另行通知。 Note: Any change of technical data shall not be advised additionally.

## Portable Cone Crushing Plant 移动圆锥式破碎站



### 主要技术参数

### MAIN SPECIFICATIONS

规格 Model	项目 Item	振动筛型号 Vibrating Screen	圆锥破型号 Cone Crusher	皮带机规格 Belt Conveyor	轮胎配置 Configuration of Wheels	发电机 Generator	处理量 Capacity (t/h)	功率 Power (kw)	外形尺寸 Overall Dimension (长×宽×高) L×W×H(mm)	重量 Weight (t)
Y3S1548Y900		3YZS1548	PYB900	B500×7M	并装双轴 Dual-axle	选配 Optional	50-200	75	13000×2800×6400	43
Y3S1848S36		3YZS1848	ZYS36	B650×7M	并装双轴 Dual-axle	选配 Optional	70-300	99-134	13000×3000×6700	47
Y3S1860S51		3YZS1860	ZYS51	B650×8M	并装三轴 Tri-axle	选配 Optional	120-400	212.5-220.5	14000×3000×6700	53
Y3S2160H220		3YZS2160	HP220	B800×8M	并装三轴 Tri-axle	选配 Optional	140-450	257.5-264.5	14000×3200×6700	58

注：技术数据如有变动，恕不另行通知。 Note: Any change of technical data shall not be advised additionally.

## 雷蒙磨粉机 Raymond Mill

### 用途及适用范围

本机适用于矿业、建材、化工、冶金等行业，可对石灰石、方解石、重晶石、白云石、钾长石、大理石、滑石、石膏、高岭土、膨润土、磷矿石、锰矿石、铁矿石、玻璃、陶瓷、活性炭、炭黑、耐火材料、保温材料、化工原料等莫氏硬度不大于7级，湿度在6%以下的300余种非易燃易爆物料进行磨粉加工，成品粒度30-325目之间可以调节。

### Usage and Application

The purpose of the machine is to grind materials in the fields of building materials, mining, metallurgy and chemical industry. The materials must be non-flammable and non-explosive materials such as: limestone, calcite, barite, dolomite, potassium feldspar, marble, talcum, gypsum, kaoline, medical stone, rock phosphate, manganese ore, iron ore, glass, ceram, active carbon, carbon black, fireproof materials, heat preservation materials, chemical materials and so on(300 kinds of materials). The materials should have the hardness less than 7 in Moh's scale and humidity less than 6 percent. The granularity of the end products can be adjusted from 30 to 325 meshes.





### 工作原理

需加工物料进入主机研磨室后，由于主轴旋转时离心力的作用，磨辊向外摆动，紧压于磨环，铲刀将物料铲起送至磨辊与磨环之间，随磨辊的滚动而达到研磨、粉碎目的。

物料研磨后，粉末随鼓风机循环风经过分析机进行分选，细度过粗的物料落回研磨室重磨，合格细粉则随气流进入旋风集粉器，经出粉管排出即为成品。气流通过旋风集粉器后又进入鼓风机形成闭路循环，从而使机器连续正常工作。余风则通过余风管进入除尘器经净化后排出机外。

### Working Principle

After the materials enter the grinding room of the main equipment, the grinding roller swings outward and presses closely upon the grinding ring due to the centrifugal force generated by the rotation of the main shaft. The blade carries materials to the space between the grinding roller and grinding ring and materials are ground as the grinding roller rolls.

After being ground, the powder is selected by classifier via the cycle wind of the blower and the rough powder will be back to the grinding room for regrinding. The qualified powder is brought into the powder collector together with airflow. The powder comes out as end products while the airflow goes back to the powder collector in cycling to make the machine work normally. The remained airflow comes out after purification by dust catcher.



### 主要技术参数

### MAIN SPECIFICATIONS

型号 Model	磨辊 Grinding Roller			磨环 Grinding Ring		进料粒度 Feeding Size (mm)	成品粒度 Output Size (mm)	产量 Capacity (t/h)	电机功率 Motor Power (kw)	外形尺寸 Overall Dimension (mm)
	数量 Numbers (pcs)	直径 Diameter (mm)	高度 Height (mm)	外径 Outside Diameter (mm)	高度 Height (mm)					
3R2115	3	210	150	726	150	<15	0.613-0.044	0.28-1.8	28.2	4480×3100×3970
3R2615	3	260	150	865	150	<15	0.613-0.044	0.35-2.8	35.7	5000×4100×4850
3R2715	3	270	150	884	150	<15	0.613-0.044	0.40-3.4	42.7	5050×4150×4900
3R3015	3	300	150	965	150	<15	0.613-0.044	0.45-3.7	55	5200×4200×4950
4R3016	4	300	160	990	160	<20	0.613-0.044	0.6-4.5	55	5250×5000×5500
4R3216	4	320	160	1073	160	<25	0.613-0.044	1.0-5.2	72.5	7700×7200×8800

注：技术数据如有变动，恕不另行通知。 Note: Any change of technical data shall not be advised additionally.

## 高压悬辊磨粉机 High-pressure Suspension Mill

### 用途及适用范围

本机适用于矿业、建材、化工、冶金等行业,可对石英石、长石、重晶石、萤石、白云石、石榴石、碳化硅、铝矾土、锆英砂、大理石、方解石、铁矿石、磷矿石、煤块、陶瓷、矿渣等莫氏硬度不大于9.3级,湿度在6%以下的400余种非易燃易爆物料进行磨粉加工,成品粒度30-425目之间可以调节。

### Usage and Application

The purpose of the machine is to grind materials in the fields of construction, mining, metallurgy and chemical industry. The materials should be non-flammable and non-explosive. Examples of the materials are: quartz, feldspar, barite, fluorite, dolomite, garnet, carborundum, bauxite, zircon, marble, calcite, iron ore, rock phosphate, coal, ceram, slag and so on(400 kinds of materials). The materials should have the hardness less than 9.3 in Moh's scale and humidity less than 6 percent. The granularity of the end products can be changed from 30 to 425 meshes.





### 工作特点

该机工作原理与雷蒙磨粉机相似,但研磨装置安装有1000-1500公斤压力的高压弹簧。当机器工作时,在高压弹簧和离心力的作用下,磨辊紧贴于磨环滚动,其滚动压力比同等条件下的雷蒙磨粉机高1.2倍,产量可提高20%-30%;当磨辊与磨环达到一定磨损后,调整高压弹簧长度,保持磨辊与磨环之间的恒定碾压力,从而保证稳定的产量和细度。

### Working Feature

It has the same working principle as raymond mill, but its grinding device is fixed with 1000 - 1500 kg pressure spring. When the machine works, the grinding roller, under the action of high pressure spring and centrifugal force, rolls close up to grinding ring, its rolling pressure is 1.2 times higher than that of raymond mill given an identical condition and its output may increase 20% to 30%; When the grinding roller and grinding ring reach a certain degree of abrasion, by adjusting the length of high-pressure spring to keep the constant grinding pressure between grinding roller and grinding ring, stable output and fineness are guaranteed.

## 主要技术参数

## MAIN SPECIFICATIONS

型号 Model	项目 Item	磨辊 Grinding Roller			磨环 Grinding Ring		进料粒度 Feeding Size (mm)	成品粒度 Output Size (mm)	产量 Capacity (t/h)	电机功率 Motor Power (kw)	外形尺寸 Overall Dimension (mm)
		数量 Numbers (pcs)	直径 Diameter (mm)	高度 Height (mm)	外径 Outside Diameter (mm)	高度 Height (mm)					
YGM75		3	260	150	865	150	<15	0.613-0.033	0.4-3.1	35.7	5000×4100×4850
YGM85		3	270	140	907	140	<20	0.613-0.033	0.5-4.0	42.7	5150×5000×5200
YGM95		4	310	170	1050	170	<25	0.613-0.033	1.1-5.6	72.5	7550×7400×8100
YGM130		5	410	210	1400	210	<30	0.613-0.033	2.2-9.5	157.5	8510×8000×9645
YGM160		6	440	270	1740	270	<35	0.613-0.033	8-22	253	12550×5700×8355

注: 技术数据如有变动, 恕不另行通知。Note: Any change of technical data shall not be advised additionally.

## 三环微粉磨

### Three-ring Micro Powder Mill

#### 用途及适用范围

三环微粉磨可对高岭土、石灰石、方解石、大理石、滑石、重晶石、石膏、白云石、膨润土、云母、叶腊石、海泡石、硅藻土、石墨、明矾石、萤石、钾长石、磷矿石、颜料等湿度小于6%，莫氏硬度不大于6级的百余种非易燃易爆物料进行超细粉加工。成品粒度325-2500目（0.044-0.005mm）。

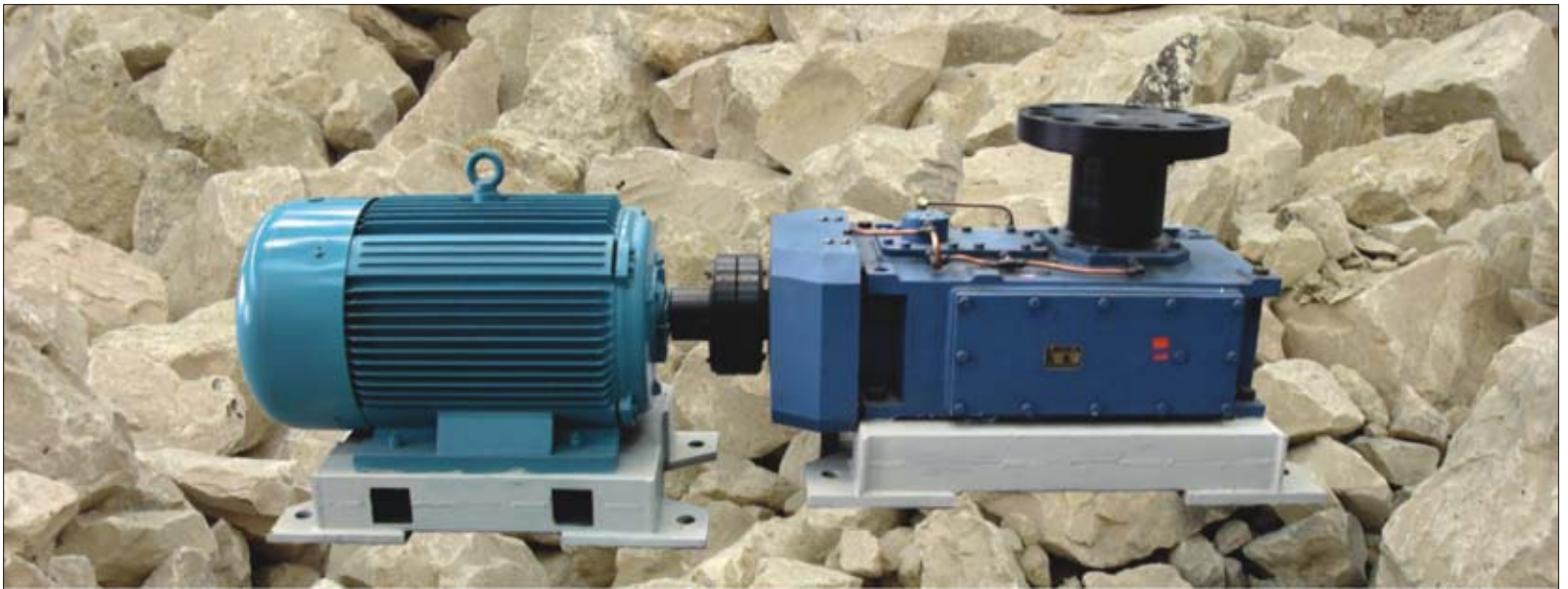
#### 工作原理

主机电动机通过减速器带动主轴及转盘旋转，转盘通过柱销带动几十个环辊在磨环滚道内滚动并旋转。大块物料经锤式破碎机破碎成小颗粒后由提升机送入储料仓，电磁振动给料机将物料均匀地送到转盘上部的散料盘上，物料在离心力的作用下散向圆周边，并落入磨环的滚道内被环辊冲压、碾磨、研磨而粉碎，物料经第一层粉碎后落入第二层及第三层，高压离心风机的抽吸作用将外部空气吸入机内，并将粉碎后的物料带入选粉机内。选粉机内旋转的涡轮使粗颗粒物料回落重磨，细粉则随气流进入旋风集粉器并由其下部的卸料阀排出即为成品，而带有少量细粉尘的气流则经过脉冲除尘器净化后通过风机和消声器排出。

#### 性能特点

1. 高效节能  
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。
2. 易损件使用寿命长  
磨辊、磨环采用特殊材料制成，一般情况下使用寿命在一年以上，加工碳酸钙时，使用寿命可达两年以上。
3. 安全可靠  
因磨腔内无滚动轴承和螺钉，所以不存在轴承及其密封件易损的问题，也不存在螺钉易松动而毁坏机器的问题。
4. 清洁、环保  
采用脉冲除尘器和消声器，大大降低了粉尘污染和噪音，达到了国家的环保标准。





### Usage and Application

The machine is designed to produce super-fine powder or micro powder of different materials with hardness less than 6 in Moh's scale and humidity less than 6 percent such as kaolin, limestone, calcite, marble, talcum, barite, gypsum, dolomite, bentonite mud, mica, pyrophyllite, sepiolite, diatomite, graphite, alunite, fluorite, potassium feldspar, phosphorite, pigment and so on. The granularity of the end products is 325-2500 meshes (0.044-0.005mm).

### Working Principle

The motor of main equipment drives the main shaft and dial through reducer, and the dial drives numbers of rollers moving in the ring channels via pins. After being crushed by hammer crusher, big materials become small ones and they are sent to the hopper by elevator. The electromagnetic vibrating feeder sends them to the middle of first layer of dial evenly; the materials will be driven to the edge of dial by centrifugal force and fall into the ring channels and are pressed, crushed and ground by the grinding rings and rollers. After ground in the first layer of the dial, the materials fall into the second and third layer and are crushed and ground. The high-pressure centrifugal blower inhales air from outside and blow the materials from the third layer to powder classifier. The rotating turbo in the powder classifier makes the coarse materials return to the mill and reground, while the fine powder mixed in the air goes into the cyclone collector and is discharged from the bottom via discharge valve. The air with very little fine powder is purified by pulse dust catcher and discharged by blower and muffler.



### Features:

1. High-efficiency and low consumption

With the same fineness of end products and motor power, its output is two times higher than that of Jet Mill, Mix Mill, and Ball Mill.

2. Quick-wear parts with longer working life

The grinding rollers and rings are made of special materials. Generally, their work life is more than one year and it could be as long as two years when processing calcium carbonate.

3. Security and Reliability

Because there are no rolling bearings and bolts in the grinding chamber, the problems of easily damaged bearings and sealings as well as machine damage due to the bolts looseness are avoided.

4. Cleansing and Environment Protection

The adoption of pulse dust collector and muffler reduces the industrial dust pollution and noise, which reaches the National Standard.

## 主要技术参数

## MAIN SPECIFICATIONS

型号 Model	项目 Item	环辊数量 Roller Numbers (pcs)	工作直径 Ring Diameter (mm)	辊道环 数量 Ring Numbers (pcs)	最大进料 粒度 Max. Feeding Size(mm)	成品粒度 Output Size (mm)	产量 Capacity (kg/h)	主机功率 Motor Power (kw)	外形尺寸 Overall Dimension (mm)
ZYM60		15	Φ600	1	10	0.044-0.005	350-2500	37	10000×2500×5500
ZYM80		21	Φ800	1	10	0.044-0.005	600-4500	55	13000×3000×5800
ZYM100		27	Φ1000	1	10	0.044-0.005	900-6500	110	18000×4000×8600

注：技术数据如有变动，恕不另行通知。Note: Any change of technical data shall not be advised additionally.

# 球磨机 Ball Mill

## 用途及适用范围

该机广泛应用于选矿、水泥、耐火材料、玻璃、陶瓷、化工等行业，可对各种矿石和其它可磨性物料进行干式或湿式粉磨。

## Usage and Application

This machine is widely applied in mineral classification, cement, fireproof materials, glass, ceramic, chemical industry and so on. It can grind all kinds of rocks and grindable materials. There are two ways of grinding: the dry process and the wet process.



## 工作原理

球磨机根据排矿方式不同可分为格子型和溢流型两种，本机为两仓格子型球磨机。机器工作时，物料由进料装置经入料中空轴螺旋均匀地进入磨机第一仓，该仓内设有阶梯衬板或波纹衬板，内装不同规格钢球，筒体转动产生离心力将钢球带到一定高度后落下，对物料产生重击和研磨；物料在第一仓达到粗磨后，经单层隔仓板进入第二仓，该仓内镶有平衬板，内装钢球，将物料进一步研磨；粉状物料通过卸料算板排出，完成粉磨作业。

## Working Principle

Ball mill can be divided into lattice type and overflow type according to different discharging methods, and this machine is a two-lattice type ball mill. The materials from the feeding equipment enter evenly to the first bin of the milling machine via the feeding hollow axis when it works. There is a ladder-like or ripple-like scaleboard in the first bin and different specification steel balls are filled in the bin. When the cylinder rotates and produces centrifugal force, the force carries steel balls into a certain height and then makes them fall to strike and grind the materials. After coarse grinding in the first bin, the material then enters into the second bin via a single layer partition board. There is a scaleboard and steel balls in the second bin, so the materials are further ground. In the end, the powder is discharged by output material board.

## 性能特点

该机具有操作简单，使用方便，性能稳定可靠等特点。

## Features:

This kind of machine has advantages of easy operation, convenient maintenance, reliable performance and so on.

## 主要技术参数

## MAIN SPECIFICATIONS

型号 Model	项目 Item	筒体转速 Rotation Speed of Cylinder (r/min)	装球量 Loading of Ball(t)	进料粒度 Feeding Size(mm)	出料粒度 Output Size (mm)	产量 Capacity (t/h)	电机功率 Motor Power (kw)	重量 Weight (t)
Φ900×1800		38	1.5	<20	0.074-0.8	0.65-2	18.5	3.6
Φ900×3000		38	2.7	<20	0.074-0.8	1.1-3.5	22	4.6
Φ1200×2400		32	3.8	<25	0.074-0.6	1.5-4.8	45	12.5
Φ1200×3000		32	5	<25	0.074-0.4	1.6-5	45	12.8
Φ1200×4500		32	7	<25	0.074-0.4	1.6-5.8	55	13.8
Φ1500×3000		27	8	<25	0.074-0.4	2-5	90	17
Φ1500×4500		27	14	<25	0.074-0.4	3-6	110	21
Φ1500×5700		27	15	<25	0.074-0.4	3.5-7	132	24.7
Φ1830×3000		24	11	<25	0.074-0.4	4-10	180	28
Φ1830×6400		24	23	<25	0.074-0.4	6.5-15	210	34
Φ1830×7000		24	25	<25	0.074-0.4	7.5-17	245	36
Φ2200×5500		21	30	<25	0.074-0.4	10-22	370	48.5
Φ2200×6500		21	31	<25	0.074-0.4	14-26	380	52.8
Φ2200×7500		21	33	<25	0.074-0.4	16-29	380	56
Φ2200×9500		21	38	<25	0.074-0.4	18-35	475	62
Φ2400×7000		20	39.5	<25	0.074-0.4	20-32	475	68
Φ2700×3600		21	39	<25	0.074-0.4	13-28	400	77
Φ3200×4500		19	65	<25	0.074-0.4	24-49	800	126
Φ3600×6000		18	117	<25	0.074-0.4	38-82	1600	190

注：技术数据如有变动，恕不另行通知。Note: Any change of technical data shall not be advised additionally.

# 转筒烘干机

## Rotary Dryer

### 用途及适用范围

转筒烘干机广泛应用于建材、冶金、化工、水泥等行业，可烘干矿渣、煤粉、矿粉、粘土、沙子、石灰石等物料。该机主要由回转体、扬料板、传动装置、支撑装置等部分组成。具有结构合理，制作精良，产量高，能耗低，运转可靠，适应性强等优点。



### Usage and Application

It is widely used in the field of building materials, metallurgy, chemical industry, cement and so on. It can dry slag, coal powder, mining powder, clay, sand, limestone and so on. It consists of gyre part, lifting blade, driving device, supporting device etc. The dryer has advantages of reasonable structure, high efficiency, low energy consumption and convenient for transportation.



### 主要技术参数

### MAIN SPECIFICATIONS

型号 Model	转速 Rotation Speed(rpm)	倾斜度 Slope (%)	最高温度 Highest Temperature (°C)	功率 Power(kw)	产量 Capacity (t/h)	重量 Weight (t)
Φ0.6×10	3.8-5	3-5	700	15 18.5 18.5 22 30	0.6-2	22.3 25.6 29 33 53
Φ0.8×10	3.8-5	3-5	700		0.8-2.5	
Φ1.0×10	3.8-5	3-5	700		1-3.5	
Φ1.2×12	3-4	3-5	700		2-6	
Φ1.5×10	2.8-4	3-5	700		3-8	
Φ1.5×12	2.8-4	3-5	700		3.5-9	
Φ1.5×15	3	3-5	700		3.7-11	
Φ1.8×14	2-4	3-5	700		4-13	
Φ2.2×12	2-4	3-5	700		6-15	
Φ2.4×18	2-4	3-5	700		8-25	

注：技术数据如有变动，恕不另行通知。 Note: Any change of technical data shall not be advised additionally.

# DMC型脉冲袋式除尘器

## DMC Series Pulse Bag Dust Catcher

DMC型脉冲袋式除尘器是吸收国内外同类产品的优点经改进后设计而成的小型袋式除尘器。除尘器采用脉冲喷吹的清灰方式，具有效果好、净化效率高、滤袋寿命长、维修工作量小、运作安全可靠等特点。是机顶和机底等分散扬尘点的首选除尘设备，可广泛应用于各种破碎、筛分设备粉尘的净化。

### 性能特点

1. 先进的在线脉冲喷吹技术，清灰彻底，运行阻力低。
2. 优质的除尘器配件，有效保证高效的除尘效率。
3. 完全自动控制，检修方便，运转效率高。

It is a small kind of bag dust catcher which is improved on the basis of domestic and foreign advanced technology. With pulse-jet dust cleaning method, it has the advantages of high dust cleaning efficiency, long life filter bags, easy maintenance and reliable performance. It is preferred equipment for removing dust at different spots such as the top and bottom of machines.



### Features:

1. Advanced pulse-jet dust cleaning technology, completely cleaning and low running resistance.
2. Qualified spare parts to ensure high dust cleaning efficiency.
3. Automatic control system, easy in maintenance, and high efficiency in running.

### 主要技术参数

### MAIN SPECIFICATIONS

项目 Item 型号 Model	处理风量 Air Flow (m <sup>3</sup> /h)	过滤面积 Filter Area (M <sup>2</sup> )	过滤风速 Filter Air Speed (m/min)	滤袋数量 Qty of Filter Bags (Pcs)	设备阻力 Equipment Resistance (Pa)	入口含尘浓度 Inlet Dust Concentration (mg/m <sup>3</sup> )	出口含尘浓度 Outlet Dust Concentration (mg/m <sup>3</sup> )	压力 Blasting Pressure (MPa)	承受压力 Affording Pressure (Pa)	耗气量 Air Consumption (m <sup>3</sup> /min)	风机用 电机功率 Power of Blower (kw)	电磁脉 冲阀数量 Qty of Pulse Valve (Pcs)
DMC-32	1500-2100	24	1-1.5	32	≤1200	<200	<50	0.4-0.6	5000	0.10	1.5	4
DMC-48	2100-3200	36	1-1.5	48						0.14	3.0	6
DMC-64	2900-4300	48	1-1.5	64						0.20	3.0	8
DMC-80	4000-6000	60	1-1.7	80						0.24	5.5	10
DMC-96	5200-7000	72	1.2-1.7	96						0.29	5.5	12
DMC-112	6000-9000	84	1.2-1.8	112						0.34	7.5	14
DMC-120	10800-21600	96	1.5-4	120						0.45	7.5	20

注：技术数据如有变动，恕不另行通知。Note: Any change of technical data shall not be advised additionally.



## RCY类永磁除铁器

### RCY Series Permanent Magnetic Separator

RCY系列永磁自卸式除铁器是由高性能永磁磁芯、弃铁皮带、减速电机、框架、滚筒等部分组成，与各种输送机配套使用。用于从非磁性物料中自动清除0.1-35公斤重的铁磁性物质。其内部磁路采用计算机模拟设计、完善的双磁极结构，保障整机在恶劣环境中无故障长期运行。



RCY series separator is made up of high-performance magnetic core, iron cleaning belt, reducer, frame, rollers and so on. It is used with different kinds of conveyors. The separator can separate the 0.1-35kg iron from the non-magnetic materials. With computer simulated design, perfect double-magnetic pole structure, the separator can work continually in harsh environment.

## CXJ系列干粉永磁筒式磁选机

### CXJ Series Dry Powder Permanent Magnetic Roller Separator

CXJ系列干粉永磁筒式磁选机(从单筒到四筒)是一种从干性粉料中连续自动除铁的磁选设备，其内部采用独特的磁路设计，由高性能永磁钕铁硼材料作为磁源，磁场强、吸力大、除铁率高，具有免维护、节约能源、使用安全可靠等特点，可调整控制进料量，适用于不同颗粒的要求。产品广泛应用于磨料磨具、耐火材料、非金属选矿、碳黑、粮食、饲料、化工原料等行业。

CXJ series dry powder permanent magnetic roller separators (from single to four cylinders) catch iron from the dry powder materials. With special magnetic circuit design and Nd-Fe-B materials as magnetic source, the separators have advantages of intense magnetic field, great suction, high efficiency for iron catching, non-maintenance, saving energy, and reliable usage. The machines can be adjusted for feeding to meet the request of different size of materials. The separator is used widely in the fields of abrasives, fireproof materials, non-metal separating, carbon, grain, fodder, chemical materials, and so on.



# KX型高细转子式选粉机

## KX Series Super Fine Rotor Powder Classifier

KX系列高细转子式选粉机是我公司技术人员在转子式选粉机的基础上，将平面涡流理论较好的运用在旋风式选粉机的基础上，经多年的研究而开发出来的一种外部循环式带转子的改进型选粉机。经实践使用证明，选粉效率达85%以上，而且细度调节方便、灵活，性能稳定可靠。

KX series powder classifier is improved on the basis of whirlwind powder classifier by applying whirlpool theory to the rotary powder classifier. It is an outside circular rotary powder classifier. The powder separating ratio can be up to 85% in practical use. It has reliable performance and could be adjusted easily.



### 主要技术参数

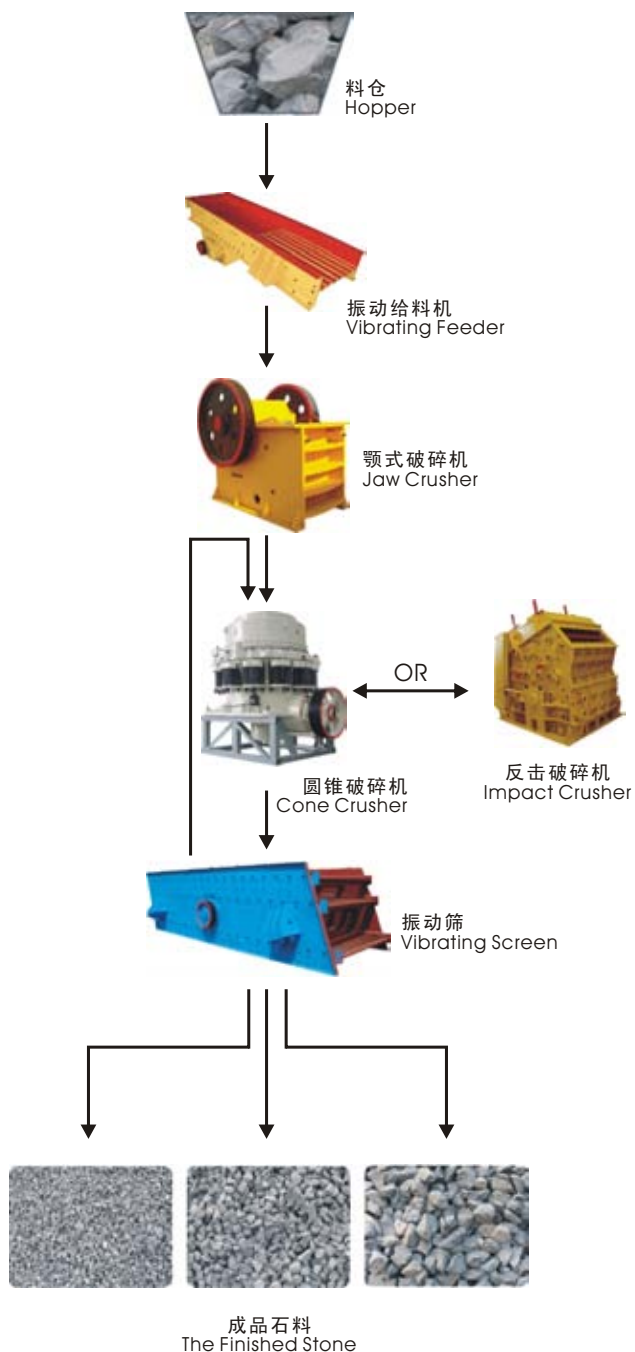
### MAIN SPECIFICATIONS

设备规格 Model	配套磨机直径 Grinding Mill Diameter (m)	主轴转速 Speed of Main Shaft (rpm)	生产能力 Capacity (t/h)	产品细度 (80 $\mu$ m 方孔筛筛余) Residual Rate after Sieved by 80 $\mu$ m Square Hole Screen	主轴电机 Motor for Main Shaft			配套风机 Blower				
					型号 Model	功率 Power (kw)	调速范围 Speed Range (rpm)	型号 Model	转速 Speed (rpm)	风压 Air Pressure (Pa)	风量 Air Content (m <sup>3</sup> /h)	电机功率 Motor Power (kw)
KX500	$\Phi$ 1.83	190-380	21-28	8%-10%	YCTL-225-4A	11	125-1250	KXJF-No8C	1680	2494	29668	30
KX600	$\Phi$ 2.2	150-350	30-35		YCTL-225-4B	15		KXJF-No10C	1200	2400	34996	37
KX700	$\Phi$ 2.4	130-320	35-46		YCTL-225-4C	18.5	132-1320	KXJF-No12.5C	1000	2390	64188	55
KX800	$\Phi$ 2.6	120-280	55-65		YCTL-280-4B	30		KXJF-No14C	980	2546	86331	90
KX900	$\Phi$ 3.0	120-280	70-86		YCTL-355-4A	55		KXJF-No16B	800	2466	99493	110
KX1000	$\Phi$ 3.5	120-280	90-115		YCTL-355-4B	75		KXJF-No16B	900	2684	136430	132
KX1200	$\Phi$ 3.8	120-260	120-160		Y380M-4	90	120-1480	KXJF-No20B	680	2771	165164	160

注：技术数据如有变动，恕不另行通知。Note: Any change of technical data shall not be advised additionally.

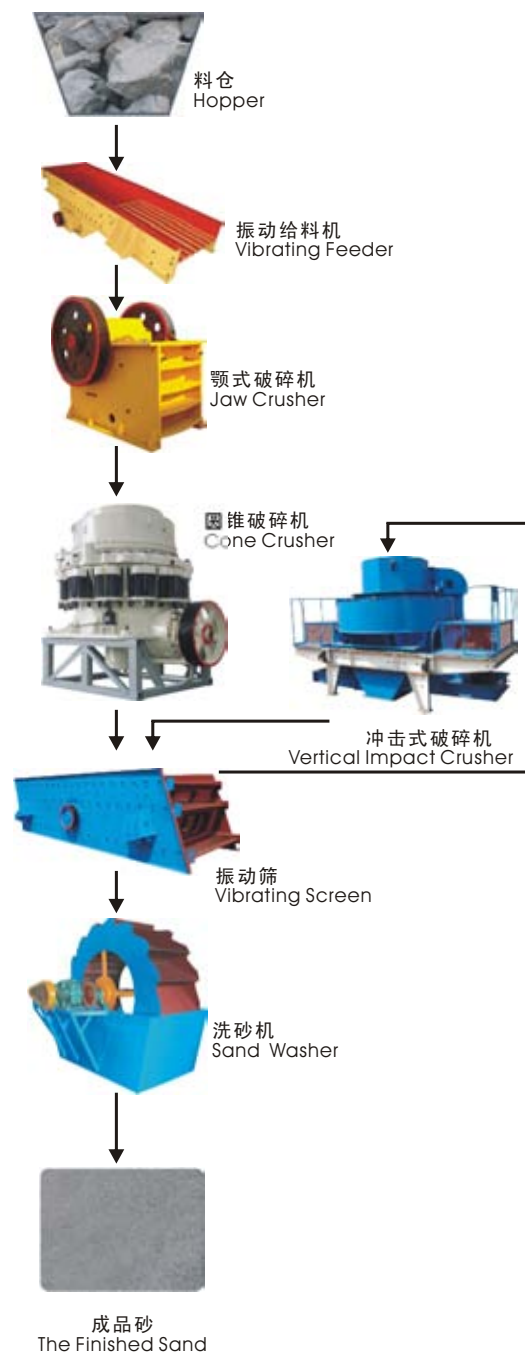
## 石料生产线流程图示意图

Flow Chart of Stone Crushing Line



## 制砂生产线流程图示意图

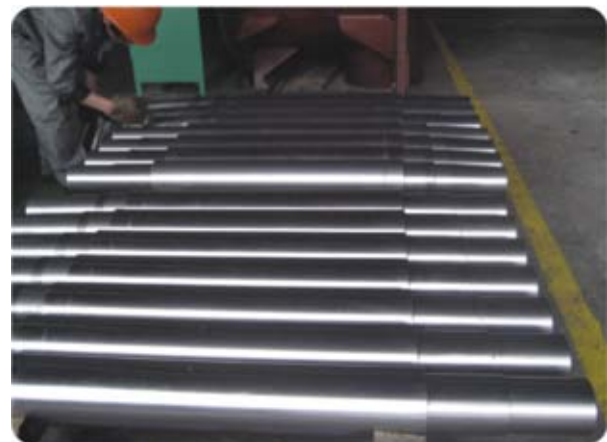
Flow Chart of Sand Making Line



## 车间 Workshop



## 配件 Spare Parts



## 生产现场 Customers' Worksite







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