



## 合作单位



- 中国科学院工业自动化研究所
- 广东省工业技术研究院
- 洛阳选矿设计院
- 黑龙江选矿设计院
- 中国选矿技术协会
- 天津水泥设计院
- 中国建材水泥协会
- 中国地质科学院矿产综合利用研究所
- 中国矿业联合会
- 中国矿冶企业协会
- 中南大学
- 长春黄金研究院
- 长沙矿冶研究院
- 国家非金属矿产资源综合利用工程技术研究中心
- 北京矿冶研究院
- 西北有色研究院
- 马鞍山矿山研究院
- 南昌有色金属研究院
- 云南贵冶选矿技术研究院
- CAS(Chinese Academy Of Sciences)Institute Of Industrial Automation
- Industrial Technology Research Institute Of Guangdong Province.
- Luoyang Mineral Processing Design Institute
- Heilongjiang Processing Design Institute
- China Association Of Beneficiation Technology
- Tianjin Cement Design Institute
- Comprehensive Utilization Of Mineral Resources
- Chinese Academy Of Geological Sciences Institute Or The Chinese Mining Industry Association
- China Association Of Mining And Metallurgy Enterprise Central South University In Changchun Gold Research Institute
- Changsha Institute Of Mining And Metallurgy
- National non-metallic Mineral Resources Comprehensive Utilization Engineering Technology Research Center
- China Cement Association
- Beijing Mining and Metallurgical Research Institute
- Northwest Non-Ferrous Metals Institute
- Maanshan Mine Reaearch Institute
- Nanchang Non-Ferrous Metals Institute
- Yunnan Guiye Oredressing Technology Institute

## 粒度表

目数粒度对照表		目数粒度对照表	
目数	粒度 um	目数	粒度 um
5	3900	270	53
10	2000	325	44
16	1190	400	38
20	840	460	30
25	710	540	26
30	590	650	21
35	500	800	19
40	420	900	15
45	350	1100	13
50	397	1300	11
60	250	1600	10
80	178	1800	8
100	150	2000	6.5
120	124	3000	5
140	104	4000	3.4
170	89	5000	2.7
200	74	6000	2.5
230	61	7000	1.5

## 常见矿物密度硬度表

矿物名称	密度 t/m <sup>3</sup>	莫氏硬度	矿物名称	密度 t/m <sup>3</sup>	莫氏硬度
磁铁矿	4.9 ~ 5.2	5.5 ~ 6.5	闪锌矿	7.1	2.5
赤铁矿	3.4 ~ 4.4	5.5 ~ 6.5	红锌矿	4.1 ~ 4.5	5.0
褐铁矿	4.8 ~ 5.3	1.0 ~ 5.5	钨铁矿	7.5	5.0
褐锰矿	3.3 ~ 3.6	3.5 ~ 4.5	锡石	6.8 ~ 7.1	6.0 ~ 7.0
铬铁矿	4.3 ~ 4.6	5.5 ~ 7.5	针硫镍矿	5.3 ~ 5.7	3.0 ~ 3.5
钛铁矿	4.5 ~ 5.5	5.0 ~ 6.0	铝土矿	2.4 ~ 2.6	1.0 ~ 3.0
黄铁矿	4.9 ~ 5.1	6.0 ~ 6.5	斜方砷金矿	8.3 ~ 8.4	2.5
磁黄铁矿	4.8 ~ 4.6	3.5 ~ 4.5	辉银矿	7.2 ~ 7.3	2.0 ~ 2.5
黄铜矿	4.1 ~ 4.3	3.5 ~ 4.0	钽铌铁矿	5.3 ~ 7.3	6.0
辉铜矿	5.5 ~ 5.8	2.5 ~ 3.0	石英	2.65	7.0
赤铜矿	4.4 ~ 4.5	3.0 ~ 3.5	萤石	2.6	7.0
黑铜矿	5.8 ~ 6.2	3.5 ~ 4.0	方解石	2.8 ~ 2.9	3.5 ~ 4.0
蓝铜矿	5.8 ~ 6.2	3.0 ~ 4.0	菱镁石	2.7	3.0
孔雀石	3.7 ~ 3.8	3.5 ~ 4.0	正长石	2.5 ~ 2.65	6.0 ~ 6.5
方铅矿	11.3	1.5	高岭土	2.2 ~ 2.6	2.0 ~ 2.5
白铅矿	7.4 ~ 7.6	2.5 ~ 2.7	石墨	2.0 ~ 2.2	1.0 ~ 2.0

## 常见矿石品位和精矿品位

有色金属	名称	工业品位	边界品位	精矿品位	
铜	CuO 氧化铜	0.70%	0.50%	12-30%	
	CuS 硫化铜	0.4-0.5%	0.20%	12-30%	
铅锌	Pb	硫化矿	0.7-1.0%	0.3-0.5%	45-70%
		混合矿	1.0-1.5%	0.5-0.7%	
		氧化矿	1.5-2.0%	0.5-1.0%	
	Zn	硫化矿	1.0-2.0%	0.5-1.0%	40-50%
混合矿		2.0-3.0%	0.8-1.5%		
氧化矿		3.0-6.0%	1.5-2.0%		
铝土矿	AL <sub>2</sub> O <sub>3</sub>	露采	≥ 55%	≥ 40%	48-73%
		坑采	≥ 55%	≥ 40%	
钨矿	W(WO <sub>3</sub> )%	黑钨	0.12-0.18%	0.08-0.1%	50-68%
		白钨	0.15-0.2%	0.1-0.12%	
		砂钨	0.04%	0.02%	
钼	Mo	0.06-0.08%	0.03-0.05%	47-57%	
镍	Ni	0.3-0.5%	0.2-0.3%	3-8%	
锡	Sn	岩锡	0.2-0.4%	0.1-0.2%	60%
		砂锡	0.10%	0.06%	60%
镁	MnO	白云岩矿	≥ 19%		41-47%
		菱镁矿	≥ 42%-46%		
非金属	名称	工业品位	边界品位	精矿品位	
石墨	C	鳞片石墨	10%	3%	89%
		土状石墨	65-80%	65%	90-95%
萤石	CaF <sub>2</sub>	萤石	7-8%	6%	90%
长石	Na <sub>2</sub> O	钠长石	8-12%	6%	
		K <sub>2</sub> O	钾长石	10-25%	8%

黑色金属	名称	工业品位	边界品位	精矿品位	
铁矿 Fe	Fe <sub>3</sub> O <sub>4</sub> 磁铁矿	25%	20%	55-67%	
	Fe <sub>2</sub> O <sub>3</sub> 赤铁矿	28-30%	20%		
	FeCO <sub>3</sub> 菱铁矿	25%	20%		
	Fe <sub>2</sub> O <sub>3</sub> ·nH <sub>2</sub> O 褐铁矿	30%	20%		
钛 Ti	Ti 原生矿	金红石	≥ 3-4%	≥ 2%	48-52%
		钛铁石	≥ 8-10%	≥ 5-6%	
	砂矿	金红石 ≥ 2kg/m <sup>3</sup>	≥ 1kg/m <sup>3</sup>	钛铁矿 ≥ 15kg/m <sup>3</sup>	
锰 Mn	氧化锰	富矿	≥ 30	≥ 20-25	18-40%
		贫矿	≥ 20	≥ 10-15	
	碳酸锰	富矿	≥ 25	≥ 15-20	
		贫矿	≥ 10-15	≥ 8	
铁锰矿	≥ 10-15				
铬 Cr	原生矿	富矿	≥ 32%	≥ 25%	32-50%
		贫矿	≥ 8-10%	≥ 5-8%	
	砂矿	≥ 3%		≥ 1.5%	
贵金属	名称	工业品位	边界品位	精矿品位	
金	Au	岩金	3-5g/t	1-2g/t	30-180g/t
		砂金	0.1-1g/t	0.1g/t	30-180g/t
银	Ag	100-120g/t	40-50g/t		
稀有金属	名称	工业品位	边界品位	精矿品位	
钽	Ta	露天	20-30g/m <sup>3</sup>	10g/m <sup>3</sup>	17-35%
		地下	50-60g/m <sup>3</sup>	20-25g/m <sup>3</sup>	

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## 球磨机 Ball Mill

球磨机是物料被破碎之后，再进行粉碎的关键设备。

Ball mill is the key equipment for material's grinding after crushing process.



### ● 球磨机的作用及应用范围

球磨机是物料被破碎之后，再进行粉碎的关键设备。它广泛应用于水泥，硅酸盐制品，水泥球磨机，铁矿球磨机，金矿球磨机，铅锌矿球磨机，新型建筑材料、耐火材料、化肥、黑色与有色金属选矿以及玻璃陶瓷等生产行业，对各种矿石和其它可磨性物料进行干式或湿式粉磨。

按不同用途和形式，可分为干式、湿式、格子型、溢流型、间歇式、半自磨、陶瓷磨等。

球磨机做为磨矿的核心设备，与给料机、颚式破碎机、颚式细碎机、圆锥破碎机、振动筛、磁选机、浮选机、搅拌桶、浓缩机组成整套选矿设备。配套使用，是高效的选金设备、选铁设备、选铜设备、选银设备等等。

### ● The function and application field of ball mill

Ball mill is the key equipment in grinding and pulverization process after the raw material has been through primary and secondary crushing. It is widely used in cement industry, silicate product, iron mine, gold mine, lead-zinc mine, new type of construction material, refractory material, chemical fertilizer, ferros or nonferros mineral beneficiation and porcelain, etc., and it can process all kinds of ores and other grindable materials both in dry or wet way.

The ball mill has dry-type, wet-type ,grate mill, overflow, batch-type, semi-auto grinding and ceramic mill etc. according to application and form.

As the core equipment in the process of ore grinding, jointly configured with feeding machine, jaw crusher, fine-type jaw crusher, cone crusher, vibrating screen, magnetic separator, flotation machine, agitator tank, thickener, these equipment can achieve high standard of recovery rate, concentration grade in the beneficiation of gold, iron, copper, silver, etc.

## ▼ 主打设备 Main Equipment

### ● 技术参数 Technical Parameter

型号 Model	规格 Specification	筒体转速 Rotation speed (r/min)	装球重量 Ball load (t)	给料粒度 Feeding particle size (mm)	出料粒度 Output size (mm)	产量 Capacity (t/h)	功率 Power (kw)	减速机 Reducer	外形尺寸 Overall size (L×W×H) (mm)
QMJ918	Φ900×1800	35.27	1.5	0-15	0.074-0.89	0.4-1.1	15	ZD25-4	3330×1700×1504
QMJ921	Φ900×2100	35.27	1.8	0-15	0.074-0.89	0.5-1.4	18.5	ZD25-4	3430×1700×1504
QMJ930	Φ900×3000	35.27	2.6	0-15	0.074-0.89	0.7-1.8	22	ZD25-4	4530×1700×1504
QMJ940	Φ900×4000	35.27	3.4	0-15	0.074-0.89	0.9-2.3	30	ZD25-4	5530×1800×1504
QMJ1224	Φ1200×2400	30.28	4.0	0-20	0.074-0.4	1.6-4.1	30	ZD30-4.5	5660×2441×1846
QMJ1230	Φ1200×3000	30.28	5.0	0-20	0.074-0.4	1.7-5.2	37	ZD30-4.5	6360×2490×1846
QMJ1245	Φ1200×4500	30.28	7.5	0-20	0.074-0.4	1.9-7.2	55	ZD30-4.5	7860×2541×1846
QMJ1545	Φ1500×4500	26.45	12.1	0-20	0.074-0.4	5.5-12.5	115	ZD40-5	10250×2900×2250
QMJ1557	Φ1500×5700	26.45	15.3	0-20	0.045-0.4	6.5-14.5	135	ZD40-5	11550×2900×2250
QMJ1836	Φ1830×3600	25.23	15.2	0-25	0.074-0.4	4.0-20	155	ZD60-4	8800×3300×3140
QMJ1845	Φ1830×4500	25.23	19.0	0-25	0.074-0.4	5.5-22	180	ZD60-4	9700×3300×3140
QMJ1870	Φ1830×7000	25.23	27.4	0-25	0.045-0.4	8.0-26	210	ZD60-4	12300×3300×3140
QMJ2136	Φ2100×3600	24.67	19.2	0-25	0.074-0.4	9.0-33	210	ZD60-4.5	94330×3640×3850
QMJ2145	Φ2100×4500	24.67	24.0	0-25	0.074-0.4	9-40	210	ZD60-4.5	10330×3640×3850
QMJ2170	Φ2100×7000	24.67	37.3	0-25	0.045-0.4	9-55	280	ZD60-4.5	12830×3740×3850
QMJ2436	Φ2400×3600	21.54	25.4	0-25	0.074-0.4	11-50	245	ZD60-4.5	9550×4140×4620
QMJ2445	Φ2400×4500	21.54	31.7	0-25	0.074-0.4	12-60	320	ZD60-4.5	10550×4140×4620
QMJ2470	Φ2400×7000	21.54	49.3	0-25	0.045-0.4	20-80	450	ZD70-4.5	13550×4140×4620
QMJ2736	Φ2700×3600	18.23	32.9	0-25	0.074-0.4	20-85	450	ZD70-5.6	11548×5780×4950
QMJ2745	Φ2700×4500	18.23	41.2	0-25	0.074-0.4	20-110	500	ZD70-5.6	12448×5780×4950
QMJ3045	Φ3000×4500	18.38	51.1	0-25	0.074-0.4	20-125	630	ZD70-5	12433×6250×5250
QMJ3236	Φ3200×3600	18.31	46.7	0-25	0.074-0.4	25-130	630	JDX71-6.3	11500×6459×5825
QMJ3245	Φ3200×4500	18.31	58.4	0-25	0.074-0.4	25-140	800	JDX71-6.3	12500×6459×5825
QMJ3645	Φ3600×4500	16.58	74.3	0-25	0.074-0.4	40-160	1000	JDX81-6.3	12700×7100×6125
QMJ3660	Φ3600×6000	16.58	99.1	0-25	0.074-0.4	60-190	1250	JDX81-6.3	14200×7200×6125

## 烘干机 Dryer

烘干机主要用于选矿、建材、冶金、化工、污泥、锯末、生物粪便等部门烘干一定湿度或粒度的物料。

Dryer is widely used for drying material with certain humidity or granularity in the industries of material processing, building material, metallurgy and chemical industry, etc.



### ● 技术参数 Technical Parameter

型号 Model	筒体直径 shell diameter (mm)	筒体长度 shell length (mm)	筒体容积 barrel volume (m <sup>3</sup> )	筒体转速 barrel speed (r/min)	倾斜度 obliquity (%)	调速电机功率 Speed regulating motor power(kw)	重量 weight (t)
HG0.6×8	600	8000	2.3	0.8-8	3-5	3	2.9
HG0.8×8	800	8000	4.0	0.8-8	3-5	5.5	3.5
HG1×10	1000	10000	7.9	0.8-8	3-5	7.5	6.4
HG1.2×10	1200	10000	11.3	0.8-7.5	3-5	7.5	10.7
HG1.2×12	1200	12000	13.6	0.8-7.5	3-5	11	12.5
HG1.5×10	1500	10000	17.7	0.6-7.3	3-5	11	16
HG1.5×12	1500	12000	21.2	0.6-7.3	3-5	15	17.8
HG1.5×15	1500	15000	26.5	0.6-7.3	3-5	15	19.2
HG1.8×12	1800	12000	30.5	0.6-6.8	3-5	18.5	21
HG1.8×15	1800	15000	38.2	0.6-6.8	3-5	22	26.3
HG1.8×18	1800	18000	45.8	0.6-6.8	3-5	22	31.2
HG2.2×12	2200	12000	45.6	0.6-5.8	3-5	22	31
HG2.2×15	2200	15000	57.0	0.6-5.8	3-5	30	36.2
HG2.2×18	2200	18000	68.4	0.6-5.8	3-5	37	43.3
HG2.2×20	2200	20000	76.0	0.6-5.8	3-5	37	48.8
HG2.4×15	2400	15000	67.8	0.6-5.8	3-5	30	43.7
HG2.4×18	2400	18000	81.4	0.6-5.8	3-5	37	53
HG2.4×20	2400	20000	90.4	0.6-5.8	3-5	45	60.5
HG2.4×24	2400	24000	108.5	0.6-5.8	3-5	45	69.8
HG2.8×18	2800	18000	110.8	0.5-4.2	3-5	45	71.6
HG2.8×20	2800	20000	123.1	0.5-4.2	3-5	55	76.8
HG2.8×24	2800	24000	147.7	0.5-4.2	3-5	55	85
HG2.8×28	2800	28000	172.3	0.5-4.2	3-5	75	95
HG3×20	3000	20000	141.3	0.5-4.2	3-5	55	87
HG3×24	3000	24000	169.6	0.5-4.2	3-5	75	105
HG3×28	3000	28000	197.8	0.5-4.2	3-5	90	123

## 给料机 Feeder

振动给料机在生产流程中，用于把块状、颗粒状及粉状物从贮料仓库或漏斗中均匀连续或定量的给到受料设备中。它已被广泛应用于冶金、煤矿、选矿、建材、化工、磨料等行业的破碎、筛分联合设备中。

Vibrating Feeder is used to feed lump, grains and powder materials from storage bin or funnel to processing equipment evenly and continuously. It is widely used in crushing and screening processes in metallurgy, coal mine, mineral dressing, building material, chemical and abrasives industries.



### ● 技术参数 Technical Parameter

型号 Model	最大进料粒度 Max feeding size (mm)	处理能力 Capacity (t/h)	电动机功率 Power (kw)	安装倾角 installation angle (°)	总重量 Weight (kg)	槽体尺寸 Funnel size (mm)	外形尺寸 Overall size (L×W×H)(mm)
GZD-750×1500	350	80	1.1×2	10	2398	750×1500	1500×1460×780
GZD-750×2500	350	100	1.1×2	10	3260	750×2500	2500×1460×780
ZSW-3800×960	500	100-160	11	0	4823	3800×960	3920×1640×1320
ZSW-4900×1100	630	150-320	15	0	6647	4900×1100	4980×1830×1320
ZSW-6000×1300	750	400-600	22	0	9250	6000×1300	6082×2580×2083
ZSW-6000×1500	800	500-700	30	0	10190	6000×1500	6086×2782×2083
ZSW-6000×1800	1000	600-900	45	0	11690	6000×1800	6086×3052×2083

# 颞式破碎机

## Jaw Crusher

适用于矿山、冶炼、建材、公路、铁路、水利和化工等行业中各种矿石与大块物料的中等粒度破碎。

Jaw Crusher applies to crush various minerals and bulk materials to medium size, and widely used in mining, smelting, building materials, highway, railway, water conservancy and chemical industry, etc.

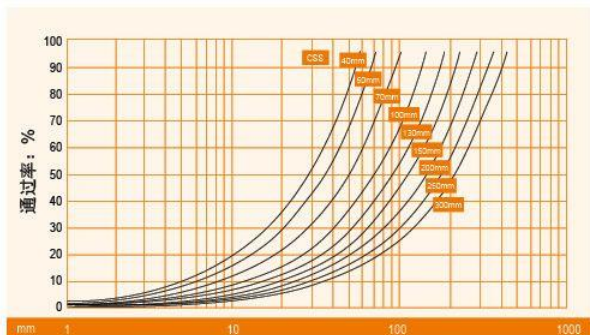
● **颞破**



● **细破**



粒度特征曲线



筛孔 \ 排料口	9	13	16	19	22	26	31	38	45	51
100	100	100	100	100	100	100	100	100	100	100
75	100	100	100	100	100	100	100	100	97	88
63	100	100	100	100	100	100	99	95	86	76
51	100	100	100	100	100	100	90	84	75	64
38	100	100	100	100	100	96	82	64	55	50
32	100	100	100	100	95	86	68	52	43	36
25	100	100	100	92	87	75	53	39	33	27
22	100	100	92	83	76	65	45	35	28	23
19	100	95	85	76	67	55	37	27	24	20
16	100	88	77	65	53	46	29	24	20	17
13	95	78	62	55	43	37	23	18	15	14
10	90	66	52	45	35	30	18	16	13	10
8	79	55	42	35	27	22	14	10	10	8
6	62	41	34	29	23	18	11	8	6	5
4	45	33	25	20	15	13	7	6	5	2
2	25	15	11	10	9	7	4	3	3	2



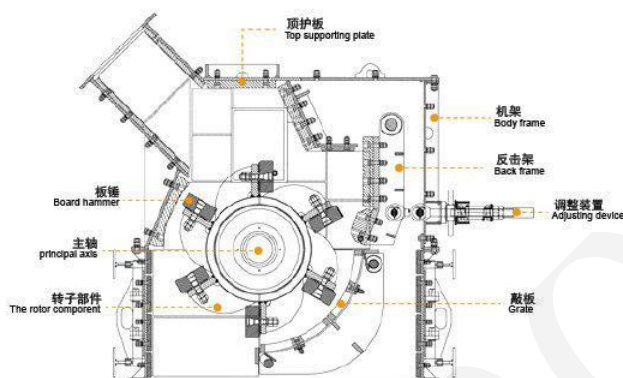
● **技术参数** Technical Parameter

型号 Model	进料口尺寸 Feeding size (mm)	最大进料粒度 Max feeding size (mm)	排料口调整范围 Discharge size (mm)	处理能力 Capacity (t/h)	偏心轴转速 Eccentric shaft rotate speed (r/min)	电动机功率 Power (kw)	总重量 Weight (t)	外形尺寸 Overall size (L×W×H) (mm)
PE-150×250	150×250	125	10-40	1-3	250	5.5	0.8	720×660×850
PE-200×300	200×300	180	15-50	2-6	260	7.5	1.2	910×750×990
PE-200×350	200×350	180	18-70	3-10	260	11	1.5	1000×870×990
PE-250×400	250×400	210	20-60	5-20	300	15	2.8	1300×1090×1270
PE-400×600	400×600	340	40-100	16-60	275	30	7	1730×1730×1630
PE-500×750	500×750	425	50-100	40-110	275	55	12	1980×2080×1870
PE-600×900	600×900	500	65-160	50-180	250	55	17	2190×2206×2300
PE-750×1060	750×1060	630	80-140	110-320	250	110	29	2660×2430×2800
PE-830×1060	830×1060	650	160-220	150-336	250	110	30.7	2740×2430×2800
PE-870×1060	870×1060	660	200-260	190-336	250	110	31.5	2810×2430×2800
PE-900×1200	900×1200	750	95-165	220-450	200	110	52	3380×2870×3330
PE-1000×1200	1000×1200	850	195-265	315-500	200	110	55	3480×2876×3330
PE-1200×1500	1200×1500	1020	150-350	400-800	180	160-220	100.9	4200×3300×3500
PE-1500×1800	1500×1800	1200	220-350	500-1000	180	280-355	122	5160×3660×4248
PE-1600×2100	1600×2100	1500	300-400	1300-2200	160	350-380	150.6	6210×4013×4716
PEX-150×750	150×750	120	18-48	8-25	320	15	3.8	1200×1530×1060
PEX-250×750	250×750	210	25-60	13-35	330	30	5.5	1380×1750×1540
PEX-250×1000	250×1000	210	25-60	16-52	330	30	7	1560×1950×1390
PEX-250×1200	250×1200	210	25-60	20-61	330	37	9.7	2140×1660×1500
PEX-300×1300	300×1300	250	20-90	16-105	300	55	15.6	2720×1950×1600

## 高效细碎机 High-effective Fine Crusher

高效细碎机，又称细碎机、新型细碎机，也称第三代制砂机，第四代砂机。

High-effective Fine Crusher is also called fine crusher, new type fine crusher, third or fourth generation of sand making machine.



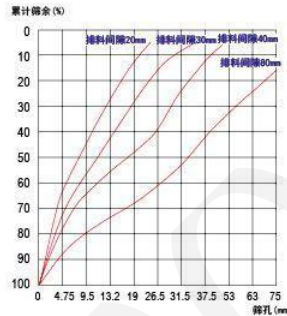
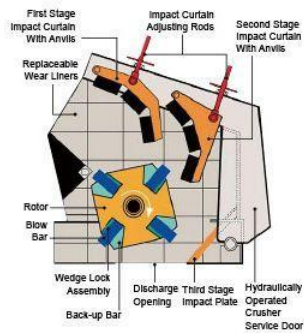
### ● 技术参数 Technical Parameter

PXJ 细碎机 PXJ Fine crusher	转子 $\Phi$ × 宽度 (mm)	转子 $\Phi$ × 宽度 (mm)	转子 $\Phi$ × 宽度 (mm)	转子 $\Phi$ × 宽度 (mm)	转子 $\Phi$ × 宽度 (mm)	转子 $\Phi$ × 宽度 (mm)	转子 $\Phi$ × 宽度 (mm)	转子 $\Phi$ × 宽度 (mm)
型号规格 Model	800 × 400	800 × 600	800 × 800	1010 × 1010	1200 × 1200	1400 × 1400	1600 × 1600	1800 × 1800
进料口尺寸 Inlet size(mm)	400 × 185	500 × 250	550 × 300	1000 × 350	1200 × 450	1500 × 500	1600 × 550	1800 × 800
进料尺寸 Input size (mm)	<120	<180	<180	<180	<180	<190	<190	<190
出料粒度 Output size(mm)	5-10	5-10	5-10	5-10	5-10	5-10	5-10	5-10
出料缝调节宽度 Discharge size (mm)	5-50	5-50	5-50	5-50	5-50	5-50	5-50	5-50
水泥熟料 clinker (t/h)	10-30	18-40	20-45	25-55	50-110	50-150	85-210	125-270
石灰石 Limestone (t/h)	18-45	23-55	28-65	35-75	45-100	50-150	95-260	140-310
配备功率 Power (kw)	37	37	45	55	110	160	250	315
理论重量 Weight (t)	3.9	4.5	6	10.5	14.4	22	35	49.7

## 反击破 Impact Crusher

PF 反击破系列可处理粒度不大于 500 毫米、抗压强度不超过 320 兆帕的物料。

PF Series crusher can process material less 500 mm and 320 MPa.



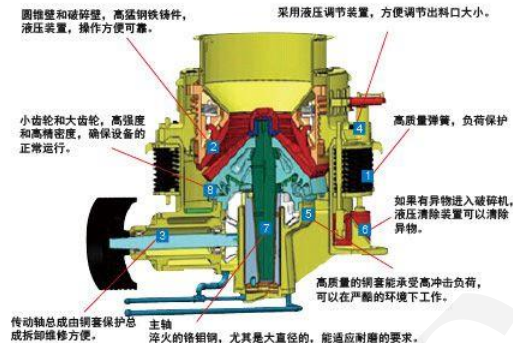
### ● 技术参数 Technical Parameter

型号 Model	规格 (mm)	进料口尺寸 Inlet size (mm)	最大进料边长 max Feeding size (mm)	生产能力 Capacity (t/h)	功率 Power (kw)	总重量 Weight (t)	外形尺寸 Overall size (L×W×H) (mm)
PF-1007	Φ1000×700	400×730	300	30-70	45	12	2330×1660×2300
PF-1010	Φ1000×1050	400×1080	350	50-90	55	15	2370×1700×2390
PF-1210	Φ1250×1050	400×1080	350	70-130	110	17.7	2680×2160×2800
PF-1214	Φ1250×1400	400×1430	350	100-180	132	22.4	2650×2460×2800
PF-1315	Φ1320×1500	860×1520	500	130-250	220	27	2860×2800×3050
PF-1320	Φ1320*2000	860×2030	500	160-350	300	30	2860×3300×3190

## 复合圆锥破碎机 Compound cone crusher

复合圆锥破碎机可广泛应用于金属与非金属矿、水泥厂、建筑、砂石冶金等行业。适用于铁矿石、有色金属矿石、花岗岩、石灰石、石英岩、沙岩、鹅卵石等。

Compound cone crusher is widely used for metallic and non-metallic mines, cement plant, building, sand stone and other industries like metallurgy. And it's specially suitable for iron ore, nonferrous mine, granite, limestone, quartz rock, sandstone, pebble, etc.



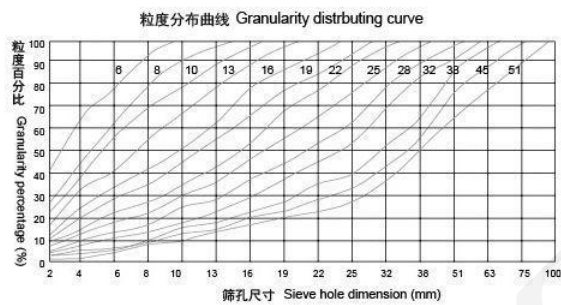
### ● 技术参数 Technical Parameter

型号 Model	腔型 Cavity	最大进料粒度 Max Feed Size (mm)	最小排料粒度 Min Feed Discharge Size (mm)	电机功率 Power (kw)	不同闭边排料口 (mm) 的产量 (t/h) Capacity (t/h) in different discharge Size (mm)									
					6	10	13	16	19	22	25	38	51	64
GPH600	C	95	10	55		20	25	30	35	45	50	76		
	M	72	6	55	18	20	25	30	35	45	45	60		
GPH1000	C	160	13	110			70	90	125	135	160	215		
	M	115	10	110		55	65	70	90	120	135			
GPH1200	F	80	8	110	47	50	60	67	90					
	C	180	13	132			105	120	135	160	180	220		
	M	130	10	132		72	92	105	135	150	170			
GPH1300	F	90	10	132		70	90	100	125					
	C	200	16	160				135	160	180	200	290	350	
	M	150	13	160			105	125	135	160	180			
GPH1400	F	102	10	160		80	105	135	140					
	C	215	19	200					200	220	270	350	440	
	M	160	16	200				160	180	200	230			
GPH1500	F	115	13	200			150	195	220	240				
	C	235	22	220-250					230	265	330	450	420	570
	M	175	19	220-250					215	240	270	330		
GPH1650	F	130	13	220-250			180	210	240	265	285			
	C	267	22	250-300						330	390	500	650	725
	M	203	16	250-300				240	250	280	330			
	F	140	13	250-300		190	220	260	330					

## 液压圆锥破碎机 Hydraulic cone crusher

适用于破碎坚硬、中等硬度以上的各种矿石和岩石，是大型石料厂和矿业破碎的最理想设备。

Hydraulic Cone Crusher applies to crush various minerals and stones with medium or high hardness, it is the most ideal crushing equipment for large stone factory and mining industry.



### ● 技术参数 Technical Parameter

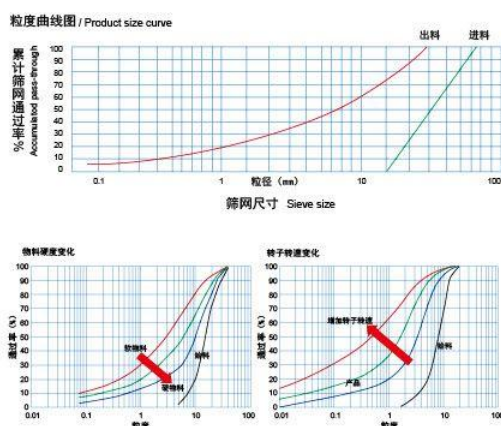
型号 Type	腔型 Cavity	最小排料口 Outlet Setting (mm)	进料口 Feed Opening (mm)	主电机功率 Power (kw)	主机重量 Weight (t)
HP-B 300	细 fine	13	105	225	15.8
	中 middle	16	150		
	粗 coarse	19	215		
	超粗 coarser	25	230		
HP-D 300	细 fine	6	25	315	24
	中 middle	8	54		
	粗 coarse	10	76		
HP-B 400	细 fine	13	110	400	32.6
	中 middle	20	200		
	粗 coarse	25	250		
	超粗 coarser	30	300		
HP-D 400	细 fine	6	40	630	63
	中 middle	8	50		
	粗 coarse	10	90		
HP-B 500	细 fine	16	135	800	130
	中 middle	22	210		
	粗 coarse	30	290		
	超粗 coarser	38	330		
HP-D 500	细 fine	8	40	800	130
	中 middle	10	56		
	粗 coarse	13	95		
HP-B 800	细 fine	16	220	800	130
	中 middle	25	265		
	粗 coarse	32	300		
	超粗 coarser	38	350		
HP-D 800	细 fine	5	35	800	130
	中 middle	10	90		
	粗 coarse	13	155		
HP-B 1000	细 fine	16	291	800	130
	中 middle	25	347		
	粗 coarse	32	387		
	超粗 coarser	38	473		
HP-D 1000	细 fine	6	118	800	130
	中 middle	10	146		
	粗 coarse	13	191		

# VSI 制砂机

## VSI Sand Making Machine

适用物料：各种岩石、砂石，河卵石

Material: Various Rocks, sand stone, pebble.



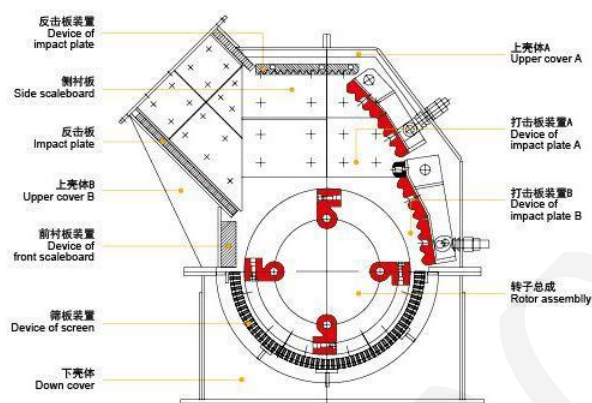
### ● 技术参数 Technical Parameter

型号 Model		VSI-7611	VSI-8518	VSI-9526	VSI-1140	VSI-1145
处理能力 Capacity (t/h)	瀑落与中心进料 Center and Ring Feeding	120-180	200-260	300-380	450-520	500-640
	全中心进料 Center Feeding	60-90	100-130	150-190	225-260	250-360
最大入料边长 Max Feeding Size (mm)	软料 Soft Material	<35	<40	<45	<50	<50
	硬料 Hard Material	<30	<35	<40	<45	<45
转速 Rotation Speed (r/min)		1700-1890	1520-1690	1360-1510	1180-1310	1100-1310
双电动机功率 Double Motor Power (kw)		110-150	180-220	264-320	400-440	400-440
最大外形尺寸 Overall dimension (mm)		3700 × 2150 × 2100	4140 × 2280 × 2425	4560 × 2447 × 2778	5000 × 2700 × 3300	5100 × 2790 × 3320
电源 Power Source		380V; 50Hz				
振动传感器监测范围:		0.1-20mm/s 连续可调 continuously adjustable				
液压润滑站 Hydraulic Lubrication Station	双油泵电动机功率 Power of Double Oil Pump (kw)	2 × 0.31				
	安全保护 Safety	双油泵互补保证供油; 无油流、无油液压自动停机; 水冷降温; 冬季电机加热启动 double oil pump make sure the supply of oil; without oil the working will stop ;water colling; motor heating system work in winter.				
	外形尺寸 Overall Size (mm)	820 × 520 × 1270				
	油箱加热器功率 Power of Oil Box Heater (kw)	2				

## 锤式破碎机 Hammer Crusher

适用物料：石灰石、炉渣、焦炭、煤等物料的中碎和细碎作业。

Material: Medium or fine crushing of limestone, slag, coke, etc.



### ● 技术参数 Technical Parameter

类别 Type	型号规格 Model	给料粒度 Feeding Size (mm)	出料粒度 Output Size (mm)	生产能力 Capacity (m <sup>3</sup> /h)	电机 Motor	总重量 Total Weight (t)	外形尺寸 (长 × 宽 × 高) Overall Size (Length × Width × Height) (mm)
					功率 (kw) Power		
锤式 破碎 机	PCΦ400×300	≤ 200	≤ 25	5-10	11	0.8	900×670×860
	PCΦ600×400	≤ 250	≤ 30	10-22	22	2.26	1200×1050×1200
	PCΦ800×600	≤ 250	≤ 35	18-40	55	4.8	1310×1180×1310
	PCΦ1000×800	≤ 350	≤ 35	25-50	75	5.9	1600×1390×1575
	PCΦ1000×1000	≤ 350	≤ 35	30-55	90	8	1800×1590×1775
	PCΦ1250×1250	≤ 350	≤ 35	35-65	132	14	2060×1600×1890
	PCΦ1400×1400	≤ 350	≤ 35	50-100	280	32	2365×1870×2220
	PCΦ1600×1600	≤ 350	≤ 35	100-150	480	37.5	3050×2850×2800

## 液压对辊破 Hydraulic double-roller crusher

液压双辊式破碎机，又叫对辊式破碎机，是新型碎石机产品。该碎石机械集传统辊式破碎机优点结合滚压机工作原理，充分运用了机、电液一体化设计理念，使该产品的破碎效率及稳定性显著提高，液压系统压力稳定，调节方便，更安全可靠，高效节能是水泥、矿山、冶金、采石、制砂等行业的优选设备。

Hydraulic double-roller crusher, or called roller crusher, is a new-type stone crushing equipment. This crushing machine combines the traditional roller crusher advantages with rolling press machine principle, makes full use of the idea of mechanical & Electrical Integratio, distinctly improving the crushing efficiency and stability. The hydraulic system is with stable pressure and easy to get adjusted. It's safe and reliable and energy-saving, which makes it the optimum equipment used in cement, mining, metallurgy, quarry and sand making industries.



### ● 技术参数 Technical Parameter

型号 Model	辊子直径 Roller Diameter (mm)	进料粒度 Feed Size (mm)	出料粒度 Discharging Size(mm)	产量 Capacity (mm)	进料口尺寸 Feeding Port Size (mm)	出料口尺寸 Outlet Size (mm)	电机功率 Power (kw)	外形尺寸 Dimension (L×W×H) (mm)
600Y	φ600	15-30	0.1-8	4-10	400×400	800×500	15*2	2025×2000×908
800Y	φ800	15-40	0.1-8	10-30	500×500	1600×600	30*2	2750×2580×935
1000Y	φ1000	20-50	0.2-10	20-40	600×500	2000×700	45*2	3500×3200×1200
1200Y	φ1200	20-60	0.3-10	30-60	700×600	2400×800	55*2	3500×3270×1440
1500Y	φ1500	25-70	0.3-12	40-80	800×800	3000×900	75*2	3600×4200×1865
1800Y	φ1800	30-90	0.5-15	60-120	800×720	3600×900	90*2	4800×4200×2210
2000Y	φ2000	30-100	0.5-20	80-150	1000×700	4000×1000	132*2	5270×4810×2380
2200Y	φ2200	30-110	0.5-20	100-200	1300×720	4900×1300	220*2	6300×6250×2610
2600Y	φ2600	30-125	0.5-20	120-300	1600×1000	5600×1600	280*2	7100×6850×3050



## 对辊破碎机 Double Roll crusher

### ● 对辊破碎机用途

对辊破碎机可供选矿，化工，水泥，耐火材料，磨料，建筑材料等工业部门中，细碎高、中硬度以下的矿石，岩石及耐火材料之用。对辊破碎机尤其在耐火材料和采矿行业中比一般破碎机械更优异的效果。近几年来，还广泛被应用于破碎钢砂等行业。

### ● Roller Crusher Application

Roller crusher is widely used in industrial fields like mineral dressing, chemical industry, cement, refractory material, abrasives, building materials, etc. for high and middle hardness ore, rock and refractory material fine crushing work. Roller crusher has better crushing effect than normal crushers specially in refractory material and mining industry. And it's widely used in steel sand crushing industry in recent years.



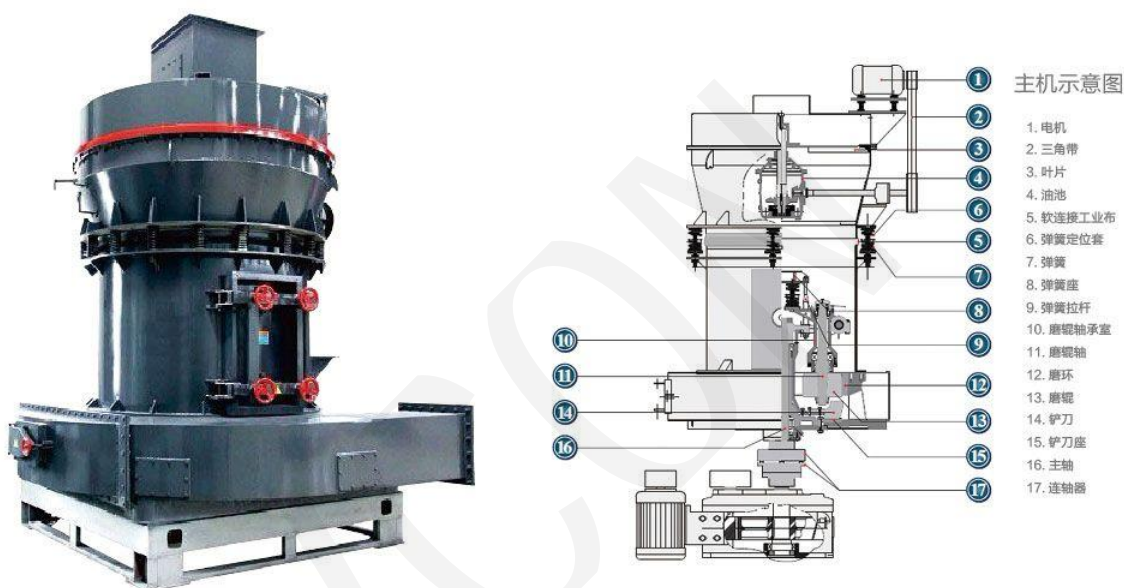
### ● 技术参数 Technical Parameter

对辊破碎机型号 Model	进料粒度 Feed Size (mm)	出料粒度 Discharging Size (mm)	生产能力 capacity (t/h)	电机功率 power (kw)	重量 weight (t)	外形尺寸 Overall size (L×W×H) (mm)
2PG400×250	<35	≤ 2-8	2-10	2×5.5	1.3	2150×980×800
2PG610×400	<65	≤ 2-20	5-20	2×15	3.9	3510×1420×1030
2PG750×500	<75	≤ 2-25	10-40	2×18.5	9.5	4210×1630×1260
2PG800×600	<80	≤ 2-25	12-45	2×22	10.8	4505×1780×1320
2PG1000×700	<100	≤ 3-30	20-65	2×30	14.9	5310×2175×1595
2PG1200×800	<120	≤ 3-35	35-80	2×37	25.5	6290×2270×1870
2PG1500×800	<130	≤ 3-45	50-120	2×75	33.7	7460×2410×2290
2PG1600×1000	<150	≤ 3-50	60-140	2×90	41.2	8220×2680×2475

## 高压磨粉机 High-pressure Grinder Mill

高压磨主要适用于加工莫氏硬度 9.3 级以下，湿度在 6% 以下的各种非易燃易爆矿产物料的加工。

High-pressure Grinder Mill is mainly used to process all kinds of non-flammable and non explosive mining material, whose Moh, s hardness are under 9.3 and humidity are below 6%.



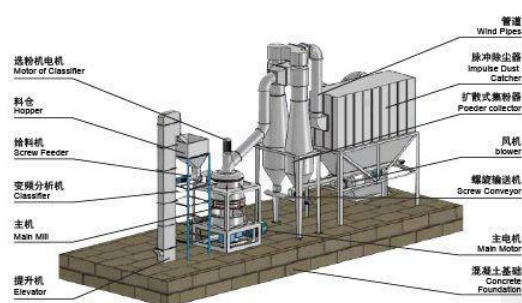
### ● 技术参数 Technical Parameter

型号 Model	磨辊数 Roller number	最大入料粒度 Max input size (mm)	成品粒度 Output size (mm)	时产量 Capacity (t)	主机功率 Main machine power (kw)	风机功率 Blower power (kw)	外形尺寸 Overall size (L×W×H) (mm)
QBM6515	3	12-20	0.613-0.033	0.25-2	15	11	4100*3300*4500
QBM7815	3	15-20	0.025-0.005	0.28-3	18.5	15	4300*3500*5100
QBM8515	3	15-20	0.025-0.005	0.35-3.4	22	18.5	5300*4100*5200
QBM3016	3	15-25	0.025-0.005	0.35-4	22	18.5	5300*4100*5200
QBM9517	4	15-25	0.025-0.005	1.5-8	37	30	7100*5900*7900
QBM4121	5	15-25	0.613-0.0044	4-10	75	55	7850*8000*9700
QBM4528	6	15-35	0.613-0.0044	5-22	132	132	12550*5700*8300

## 微粉磨 Micro Powder Mill

适用物料：高岭土、石灰石、方解石、滑石、大理石、重晶石。

Material: Kaolin, Limestone, Calcite, soapstone, marble, barite.



### ● 技术参数 Technical Parameter

型号 Model		HGM80	HGM90	HGM100	HGM100A	HGM125
平均直径 Average diameter (mm)		800	930	1035	1035	1300
数量 Quantity	磨辊 Grinding roller	21	24-32	27	34-36	40-44
	磨环环道 Grinding ring	3	3-4	3	4	4
主轴转速 Speed of main shaft(r.p.m)		230-240	200-220	180-200	180-200	135-155
入料粒度 Input size(mm)		≤ 20	≤ 20	≤ 20	≤ 20	≤ 20
成品粒度 Output size	微米 Micron	5-47	5-47	5-47	5-47	5-47
	目 Mesh	2500-325	2500-325	2500-325	2500-325	2500-325
处理能力 Processing capacity(kg/h)		500-4500	600-6500	700-7000	1000-8500	1500-12000
电机功率 Motor power	主机 Main motor	55-75	2×37-2×45	110	110-132	160-185
	风机 Fan	18.5	22	37	37	45
	集粉器 Powder collector	45	55	75	75	2-55
	破碎机 Crusher	11	11-18.5	18.5	18.5	18.5-45
	提升机 Hoist	3	3	3	4	4
	螺旋输送机 Screw conveyor	3	3	3	3	2-4
	排料阀 Discharging valve	2×0.75	2×0.75	3×0.75	2×0.75-1×1.1	4×1.1
空压机 Air compressor		7.5	15	15	15-22	2×15
外形尺寸 Overall Size(L×W×H)(m)		10×2×5.5	11.9×2.7×5.8	14.5×3.8×6.3	14.5×3.8×6.3	14.5×3.8×6.3

## SF 型浮选机 SF Flotation Machine

SF 型浮选机适用于分离有色金属、黑色金属、贵金属、非金属矿物和化工原料、回收有用矿物。该设备具有如下特点：吸气量大、功耗低。每槽兼有吸气、吸浆和浮选三重功能，自成浮选回路，不需任何辅助设备，水平配置，便于流程的变更。矿浆循环合理，能最大限度地减少粗砂沉淀。

设有矿浆面的自控装置，调节方便。

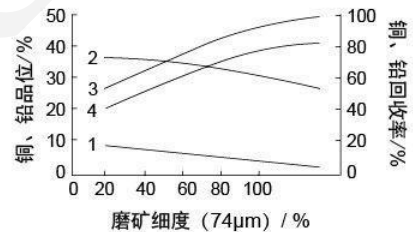
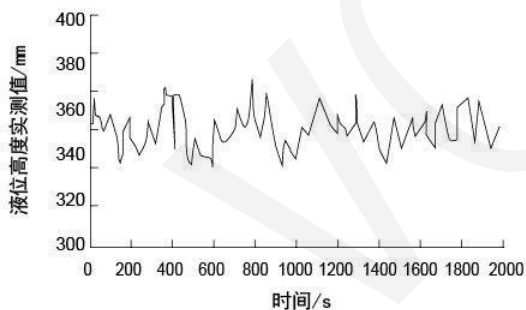
叶轮带有后倾式的上下叶片。上叶片产生矿浆上循环，下叶片产生矿浆下循环。



SF flotation machine is mainly used in the separation of ferros and nonferros minerals, precious metals, non-metallic minerals, and chemical raw materials, etc., to recover valuable minerals. This kind of flotation machine has such advantages including large inspiratory capacity, low energy consumption. Each cell of the flotation machine can perform air inspiration, slurry inhalation, and flotation simultaneously and can form its own circulation without the necessity of accessory equipment, and with the horizontal design, slurry flowing direction can be adjusted easily.

Also with this kind of design, sedimentation of coarse sand in slurry can be decreased to the lowest degree and the automatic-control system can control slurry density expediently.

The impeller is designed with retroverted up and down vanes, and the up vanes make slurry cycle upward and the down vanes make slurry cycle downward.



磨矿细度试验结果

1-铜品位 2-铅品位 3-铜回收率 4-铅回收率

### ● 技术参数 Technical Parameter

型号 Model	槽体容积 Tank volume (m <sup>3</sup> )	叶轮直径 Impeller diameter (mm)	叶轮转速 Impeller speed (r/min)	处理能力 Capacity (m <sup>3</sup> /min)	主电机功率 Power (kw)	刮板电机功率 Drawing strickle power (kw)	重量 (T/槽) Weight (t/tank)
SF0.37	0.37	300	442	0.2-0.4	1.5	1.1	0.45
SF0.7	0.7	350	400	0.3-1	3	1.1	0.9
SF1.2	1.2	450	312	0.6-1.2	5.5	1.1	1.4
SF2.8	2.8	550	268	1.5-3.5	11	1.1	2.2
SF4	4	650	235	2-4	15	1.5	2.6
SF8	8	760	191	4-8	30	1.5	4.3
SF16	16	850	190	5-16	45	1.5	7.4
SF20	20	730	186	5-20	30×2	1.5	9.8

## XCF/KYF 型充气式浮选机

### XCF-KYF pneumatic flotation machine

XCF 和 KYF 均属充气式浮选机，XCF 型有吸矿浆能力作为吸矿槽，KYF 无自吸能力作为直流槽，实现槽体水平布置，不用泡沫泵。U 型槽体减少了槽底积矿，采用大直径圆锥形叶轮，短叶片转子，处理量大，功耗低，叶轮中间设有充气分散器，充气分散均匀，混合充分。

XCF and KYF flotation machine belong to pneumatic flotation equipment, and XCF model has slurry inhalation capacity as a result of the slurry inhalation tank design, while KYF model has no such self-inhalation capacity because of direct current design, ultimately the machine cell is balancedly placed without the requirement for froth pump. U-type cell design can eliminate sedimentation in the cell bottom to the minimum range, also large diameter cone impeller, short wing rotator design can process in large quantity with low energy consumption and with air deconcentrator installed in the middle of impeller, input air will be mixed evenly.



#### ● KYF 系列充气式浮选机 KYF pneumatic flotation machine

型号 Model	槽体容积 Tank volume (m <sup>3</sup> )	叶轮直径 Impeller diameter (mm)	叶轮转速 Impeller speed (r/min)	鼓风机风压 Blowers pressure (kpa)	最大充气量 Blowing rate (m <sup>3</sup> /m <sup>2</sup> .min)	处理能力 Capacity (m <sup>3</sup> /min)	主电机功率 Power (kw)	单槽重量 Weight (t/tank)
KYF1	1	340	281	≥ 12.6	2	0.2-1	4	0.8
KYF2	2	410	247	≥ 14.7	2	0.4-2	5.5	1.5
KYF3	3	480	219	≥ 19.8	2	0.6-3	7.5	1.9
KYF4	4	550	200	≥ 19.8	2	1.2-4	11	2.2
KYF8	8	630	175	≥ 21.6	2	3.0-8	15	4.1
KYF16	16	740	160	≥ 25.5	2	4.0-16	30	5.9
KYF24	24	800	150	≥ 30.4	2	4.0-24	30	7.4
KYF38	38	880	138	≥ 34.3	2	10-38	37	10.3

#### ● XCF 系列充气式浮选机 XCF pneumatic flotation machine

型号 Model	槽体容积 Tank volume (m <sup>3</sup> )	叶轮直径 Impeller diameter (mm)	叶轮转速 Impeller speed (r/min)	鼓风机风压 Blowers pressure (kpa)	最大充气量 Blowing rate (m <sup>3</sup> /m <sup>2</sup> .min)	处理能力 Capacity (m <sup>3</sup> /min)	主电机功率 Power (kw)	单槽重量 Weight (t/tank)
XCF1	1	400	358	≥ 12.6	2	0.2-1	5.5	1.2
XCF2	2	470	331	≥ 14.7	2	0.4-2	7.5	1.7
XCF3	3	540	266	≥ 19.8	2	0.6-3	11	2.3
XCF4	4	620	215	≥ 19.8	2	1.2-4	15	2.7
XCF8	8	720	185	≥ 21.6	2	3.0-8	22	4.5
XCF16	16	860	160	≥ 25.5	2	4-16	37	6.6
XCF24	24	950	153	≥ 30.4	2	4-24	37	8
XCF38	38	1050	148	≥ 34.3	2	10-38	45	11

## 湿式磁选机 Wet Magnetic Separator



### CTB 型半逆流湿式磁选机

#### ● 产品说明

本机广泛用于选矿、洗煤和化工等部门，用于湿式选别粒度为 6-0 毫米的强磁性矿物，并将矿物分为磁性物及非磁性物两种产品。它所选别的强磁性物的比磁化系数  $X$  应不低于  $3000 \times 106 \text{cm}^3/\text{克}$ ，属于这类矿物有磁铁矿，磁黄铁矿等，对于赤铁矿、褐铁矿、菱铁矿等须予选进行磁化焙烧，方能进行选别。

同一圆筒可配三种槽体，即半逆流槽、逆流槽、顺流槽，适应不同选别工艺。

半逆流槽适用于矿石粒度为 0.5-0mm 的强磁性矿物的湿式粗选和精选，尤其适用于粒度为 0.15 ~ 0mm 大矿物的精选。

逆流槽适用于矿石粒度为 0.6 ~ 0mm 强磁性矿物湿式粗选和扫选。尤其适用于洗煤厂重介质回收等。

顺流槽适用于矿石粒度为 6 ~ 0mm 的粗选和精选。

半逆流槽和顺流槽都可串联使用，提高精矿品位。

#### ● Introduction

Equipment is widely used in mineral dressing, coal washing and chemical industry, etc. to separate strong magnetic minerals with particle size 6-0mm in wet type, separating mineral into magnetic material and non-magnetic material. It can deal with strong magnetic materials with magnetic susceptibility not less than  $3000 \times 106 \text{cm}^3/\text{g}$ , including magnetite, pyrrhotite, etc. While for hematite, limonite and siderite, pretreatment of magnetizing roast is required before magnetic separation.

One same roller can match with three type of tanks, which is semi-countercurrent tank, countercurrent tank and concurrent tank to suit different beneficiation process.

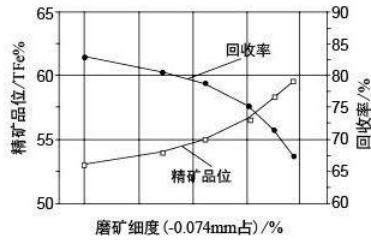
Semi-countercurrent tank is suitable for roughing and scavenging separation of strong magnetic minerals at 0.5-0mm in wet type, specially for scavenging separation of minerals at 0.15-0mm.

Countercurrent tank is suitable for roughing and cleaning separation of strong magnetic minerals at 0.6-0mm in wet type, specially for heavy medium separation in coal washing plant.

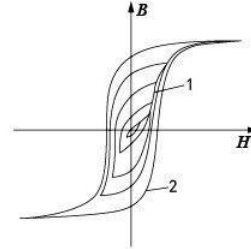
Concurrent tank is suitable for roughing and scavenging separation of minerals at 6-0mm.

Semi-countercurrent tank and concurrent tank can work in series connection to increase grade of concentrate.

## 磁选设备 Magnetic Separating Equipment



不同磨矿细度条件下强磁选试验结果



正常磁化曲线和各自相关的磁滞回线

1-正常磁化曲线 2-饱和磁滞回线

### ● 技术参数 Technical Parameter

型号 Model	圆筒尺寸 Cylinder size (筒径 × 筒长) (mm)	筒表面磁感应强度 Cylinder surface magnetic induction strength			处理能力 Capacity (t/h)		电机功率 Power (kw)	筒体转速 Cylinder speed (r/min)	机器总重 Weight (kg)	说明 Remarks
		磁极几何中心值 Magnetic pole geometric center value	扫选区平均值 Scavenging area average value	最高磁感应强度 Maximum magnetic strength	T/h	m <sup>3</sup> /h				
CTS(N.B)-46	400x600		130	160	1-3	5	1.1	45	600	
CTS(N.B)-66	600x600		145	170	5-10	16	1.1	40	705 750 750	永磁
CTS(N.B)-69	600x900		145	170	8-15	24	1.1	40	830 780 910	
CTS(N.B)-612	600x1200		145	170	10-20	2	2.2	40	960 990 1050	
CTS(N.B)-618	600x1800		145	170	15-30	48	2,2	40	1340 1330 1340	
CTS(N.B)-712	750x1200	120	155	180	15-30	48	3	35	1500	
CTS(N.B)-718	750x1800	120	155	180	20-45	72	3	35	2100	永磁
CTS(N.B)-918	900x1800	148	165	190	25-55	90	4	28	2900	
CTS(N.B)-924	900x2400	148	165	190	35-70	110	5.5	28	3500	
CTS(N.B)-1018	1050x1800	148	165	190	40-75	120	5.5	22	4000	
CTS(N.B)-1021	1050x2100	148	165	190	45-88	140	5.5	22	4500	
CTS(N.B)-1021	1050x2100	160	240	280	45-88	140	5.5	22	4500	左右式
CTS(N.B)-1024	1050x2400	148	165	190	52-100	160	7.5	22	5000	左右式
CTS(N.B)-1024	1050x2400	160	240	280	52-100	160	7.5	22	5000	
CTS(N.B)-1030	1050x3000	160	240	280	65-125	200	7.5	22	6200	
CTS(N.B)-1218	1200x1800	148	165	190	47-90	140	5.5	19	5800	
CTS(N.B)-1218	1200x1800	160	240	280	47-90	140	5.5	19	5800	
CTS(N.B)-1224	1200x2400	148	165	190	82-120	192	7.5	19	6200	
CTS(N.B)-1224	1200x2400	160	240	300	82-120	192	7.5	19	6200	
CTS(N.B)-1230	1200x3000	148	165	190	80-150	240	11	19	7200	
CTS(N.B)-1230	1200x3000	160	240	280	80-150	240	11	19	7200	
CTS(N.B)-1530	1500x3000	180	240	300	90-170	270	15	14	8100	
CTS(N.B)-1540	1500x4000	180	240	300	115-220	350	15	14	9300	

## 立式干选机 Vertical dry-type magnetic separator

工作原理：当矿粉进入磁选区时，其中强磁矿物呗吸附在圆管表面，弱磁性和非磁性矿物被甩掉出，而吸附在筒表面上的强磁性矿物随圆筒旋转，被带出磁选区，进入精矿槽中，被皮带转送出，完成分选作业。

干选船根据大小和自然地理情况来配置各种大小型号，磁场强度不同的磁选机。

Working principle: when mineral powder flows into magnetic separation area, strong magnetic minerals are attracted on the surface of roller, while weak magnetic and non-magnetic minerals flow away. Magnetic materials rotate with the roller and are taken out of the magnetic area, then go into concentrate tank then conveyed out by belt conveyor, separation work finished.

Dry separation boat is equipped with different models magnetic separator with different magnetic field strength according to different capacity and geographical situations.

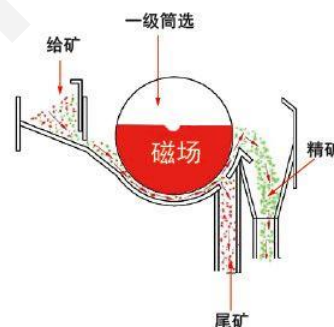


### ● 特点

- ◆ 干选机筒表面磁场强度深
- ◆ 磁系包角大
- ◆ 磁场强度稳定
- ◆ 传统系统稳定可靠
- ◆ 提高矿石入磨品位

### ● characteristics

- ◆ deep magnetic field strength on the roller surface
- ◆ big magnet-system angle
- ◆ stable magnetic field strength
- ◆ stable and reliable system
- ◆ increasing mineral grade before going into mill.



### ● 技术参数 Technical Parameter

参数 Parameter	项目 Item	船长 Long (m)	船宽 Wide (m)	船高 High (m)	圆筒尺寸 Cylinder size (筒径 X 长 mm)	磁场强度 Magnetic field strength (GS)	处理能力 Capacity (t/h)	给矿粒度 Feed size (mm)	原矿含水量 Moisture content (%)	筒体转速 Cylinder speed (r/min)	电机功率 Power (kw)
型号 Model											
7518		2.8	1.8	4.0	750X1800	3800-4200	40-50	0-8	≤ 3	34	3
9018		2.8	1.8	4.0	900X1800	3800-4200	45-55	0-8	≤ 3	30	4
9024		2.8	2.4	4.0	900X2400	3800-4200	80-100	0-8	≤ 3	26	5.5
9026		2.8	2.6	4.0	900X2600	3800-4200	110-130	0-8	≤ 3	24.5	7.5
1018		3.0	1.8	4.0	1050X1800	3800-4200	100-120	0-8	≤ 3	24.5	4
1021		3.0	2.1	4.0	1050X2100	3800-4200	125-145	0-8	≤ 3	24.5	5.5
1024		3.0	2.4	4.0	1050X2400	3800-4200	130-160	0-8	≤ 3	24.5	5.5



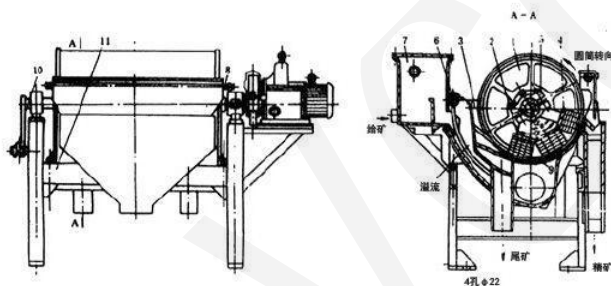
## 高强度湿式磁选机 High-intensity wet magnetic separator

高强度磁选机的使用范围：

- 1、黑色金属方面：假象赤铁矿、赤铁矿、褐铁矿、菱铁矿、铬铁矿、钛铁矿、锰矿的回收等；
- 2、有色金属方面：含钨石英脉中细粒嵌布黑钨矿的回收，锡石多金属硫化矿中磁黄铁矿的分离，锡石与黑钨矿的分离、褐铁矿等矿物的分离，白钨矿与黑钨矿、石榴石等矿物的分离等；
- 3、稀有金属方面：钽铌铁矿、铁锂云母、独居石等的回收。
- 4、非金属方面：玻璃陶瓷工业原料石英、长石、高岭土的提纯，高温耐火材料硅线石、红柱石、兰晶石的脱铁和除角闪石、云母、电气石、石榴石等有害杂质等等；
- 5、其它方面：弱磁性尾矿回收；氧化铝厂赤铁矿泥选铁；钢铁厂、发电厂的废水处理；清洗被催化剂污染了的化工原料等。



High-intensity magnetic separator application range: 1. ferrous metals: recovery of martite, hematite, limonite, siderite, chromite, ilmenite, magnetite, etc. 2. Nonferrous: wolframite recovery from wolfram bearing quartz, pyrrhotite separation from polymetallic sulfide ore; separation of cassiterite and wolframite; separation of limonite; scheelite separation from wolframite and garnet, etc. 3. rare metals: recovery of Ta-Nb ore, iron lepidolite, monazite, etc. 4. nonmetals: purifying of glass and ceramic raw material like quartz, feldspar and kaolin; iron removing from refractory materials like sillimanite, andal-site, cyanite; impurity removing such as amphibole, mica, tourmaline, etc. 5. others: recovery of weak magnetic tailing; iron separation from hematite sludge in alumina plant; waste water treatment in steel plant and power plant; purifying of chemical materials contaminated by catalyst, etc.



### ● 技术参数 Technical Parameter

型号 Model	磁滚筒规格 Magnetic drum type (mm)	分选区筒表磁感应强度 Magnetic field intensity (GS)	处理量 Capacity (t/h)	适应粒级 Suitable size (mm)	矿浆浓度 Slurry density (%)	电机功率 Power (kw)
38 系列	380* (600-3000)	10000-15000	2-30	0-3	25-45	3-8
50 系列	500* (600-3000)	10000-15000	2-35	0-3	25-45	4-9
60 系列	600* (600-3000)	10000-15000	2-40	0-3	25-45	4-10

## 锯齿波跳汰机 Sawtooth wave jigger

一款利用矿物在垂直交变水流中沉降速度不同而实现轻重矿物分选的选矿跳汰机设备。

This equipment is a jiggling machine separating heavy minerals. The principle is on different settlement speed of minerals in vertical water flow.

### ● 工作原理

跳汰机工作原理是根据跳汰床层理论分层规律，在传统跳汰机基础上进行研制和改进的一种节能重选设备，其跳汰脉动曲线呈锯齿波形使上升水流快于下降水流；上升时间短、下降时间长，克服了正弦波脉动曲线跳汰机产生的上升、下降水流和作用时间相同的缺陷，增强了床层的松散度，缓解了吸入作用，使矿物中的重矿粒得到充分沉降，大大提高了设备的富集比和回收率。

### ● 技术参数 Technical Parameter

型号 Model	冲程系数 Stroke coefficient	冲程 Stroke (mm)	冲次 Jig frequency (次/min)	最大给矿粒度 Max feeding granularity (mm)	处理量 Capacity (T/h)	耗水量 Water consumption (T/h)	总功率 Power (kw)
JT1070/2	0.5	0-12	0-170	8	6-8	5-40	2.2
JT1515/2	0.47	0-25	0-150	10	20-35	30-120	4*2
JT2020/2	0.4	0-20	0-130	10	40-60	60-180	5.5*2



### ● Working principle

Jigger is a gravity separation equipment using jiggling layers stratifying law, developed and improved from traditional jiggling machine. The pulsing curve is sawtooth shape and thus rising water is faster than the dropping water. Short rising time and long dropping time overcome the shortcoming of same rising and dropping period in sinusoidal wave jigger, increasing friability of layers, easing sucking effect, making heavier minerals settle sufficiently, largely increasing the production rate and recovery rate of the equipment.

## 隔膜跳汰机 Diaphragm jigger

隔膜跳汰机，是一种大型的跳汰机设备，具有4个独立的跳汰机选矿槽，8个跳汰室，每槽可独立调节，跳汰面呈梯形，具有较高的回收率和处理量。

Diaphragm jigger is a kind of jigger equipment with four single jiggling cell and eight jiggling tank. Each cell can be adjusted separately, Jiggling surface is trapezoid in shape with higher recovery rate and productivity.

### ● 技术参数 Technical Parameter

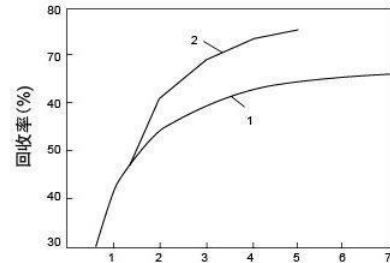
型号 Model	截面形式 Section form	列数 Column number	跳汰室数 Jig chamber Qty	跳汰面积 Jig area (m <sup>2</sup> )	入料粒度 Feeding Size (mm)	冲程 Stroke (mm)	冲次 Frequency of Stroke	处理量 Handling Capacity(t/h)	功率 Power (kw)
2LTC-6109/8T	梯形 trapezoid	双 double	8	5.76	0-8	0-50	120-300	20-30	1.5*4
AM30 (大粒度)	矩形 rectangle	双 double	4	2.57	8-30	0-50	130-160	10-15	3



## 螺旋溜槽 Spiral Chute

一款利用矿浆在螺旋回转运动中产生的惯性离心力实现轻重矿物分选的螺旋溜槽设备。

Spiral chute makes use of the inertial centrifugal force generated in the revolving movement of slurry to separate minerals with different specific gravity.



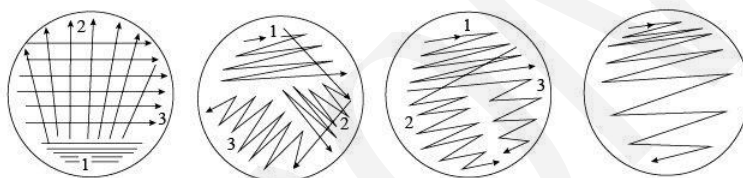
### ● 技术参数 Technical Parameter

型号 model	BLL-1500	BLL-1200	BLL-900	BLL-600	BLL-400	
外径 outer diameter (mm)	1500	1200	900	600	400	
螺距 screw pitch (mm)	540,720	900,720,540	675,540,405	450,360,270	240,180	
距径比 span ratio (螺距 / 直径)	0.75,0.6,0.45	0.75,0.6,0.45	0.75,0.6,0.45	0.75,0.6,0.45	0.6,0.45	
横向倾角 inclination angle (度)	9°	9°	9°	9°	9°	
每台最多安装螺旋头数 max number of thread	4-2	4-2	4-2	2	2	
给矿粒度 feeding size (mm)	0.3-0.02	0.3-0.03	0.3-0.03	0.2-0.02	0.2-0.02	
给矿浓度 feeding concentration (%)	25-55	25-55	25-55	25-55	25-55	
生产能力 capacity (t/h)	8-16	4-6	2-3	0.8-1.2	0.15-0.2	
外形尺寸 Overall size	长 L (mm)	1560	1360	1060	700	460
	宽 W (mm)	1560	1360	1060	700	460
	高 H (mm)	5230	5230	4000	2600	1500
重量 Weight (kg)	800	600	400	150	50	

## 摇床 Shaking Table

摇床在选矿设备中属重力选矿的主要设备之一，广泛用于选别钨、锡、钽、铌、铁、锰、铬、钛、铋、铅、镍、金等其他稀有金属和贵金属矿，也可用于煤矿。可用于粗选、精选、扫选等不同作业。

Shaking table is the main equipment for gravity concentration, which is widely used in tungsten, tin, tantalum, niobium, iron, manganese, chromium, lead, bismuth, titanium, nickel and gold etc. rare metal and precious metal. It is mainly applied in roughing, scavenging and concentration processing. equipment to choose fine material.



### ● 技术参数 Technical Parameter

名称 Name		单位 Unit	粗砂摇床 Coarse Sand Bed	细砂摇床 Fine sand bed	矿泥摇床 Slimer
台面尺寸 Table-board size	长度 Length	MM	4450	4450	4450
	传动端宽 Width of driving end	MM	1855	1855	1855
	精矿端宽 Width of concentrating end	MM	1546	1546	1546
最大给矿粒度 Max feeding granularity		MM	2	0.5	0.15
给矿量 Feeding capacity		T/d	30-60	10-20	15-25
给矿浓度 Feeding concentration		%	25-30	20-25	15-25
行程 Distance		MM	16-22	11-16	8-16
频率 Frequency		F	15-48	48-53	50-57
台面清洗水量 Table-board water quantity		T/d	80-150	30-60	10-17
横向坡度 Transverse slope		度 Degree	2.5-4.5	1.5-3.5	1-2
纵向坡度 Longitudinal gradient		%	1.4	0.92	----
台面尖灭角 Table-board extinguish angle		度 Degree	32-42	40	42
选矿面积 Beneficiation area		----	7.6	7.6	7.6
台面长度比 Table-board length ratio		----	2.6	2.6	2.6
电机功率 Motor power		KW	1.1	1.1	1.1

## 离心式选矿机 Centrifugal concentrator

离心选矿机简称离心机，也叫离心溜槽。目前离心机的种类很多，但结构基本相同。离心机高速旋转时产生很大的离心力，强化重选过程，使微细矿粒得到更有效的回收，它的出现成功的解决了微细粒的充分回收，因此，目前广泛用于回收钨、锡、铁等矿泥。

Centrifugal concentrator is also called centrifugal chute. Currently there are different kinds of centrifugal concentrator, but basic structure are similar. This concentrator produces strong centrifugal force when rotating in high speed, thus strengthening the gravity separating process and making the recovery of fine minerals more effective. The appearance of this concentrator successfully solve the problem of fine particles' recovery, so it's widely used in the recovery of wolfram, tin, iron sludge, etc.



### ● 技术参数 Technical Parameter

设备型号 Type	19 型	30 型	60 型	70 型	80 型	100 型	120 型
生产能力 capacity (t/h)	19 型	30 型	60 型	70 型	80 型	100 型	120 型
给矿粒度 feeding granularity(mm)	0-3	0-4	0-6	0-6	0-6	0-6	0-6
给矿浓度 Feeding concentration(%)	0-50	0-50	0-50	0-50	0-50	0-50	0-50
反冲水量 recoil of water(t/h)	1.5-2	4-6	10-15	17-25	20-30	40-60	70-80
精矿产量 Concentrate production (kg/次)	2-3	10-20	30-40	50-60	60-70	70-80	110-120
电机功率 power (kw)	0.75	1.5	5.5	7.5	11	18.5	22
圆锥转速 speed r/min	800	600	460	430	400	360	360
压力水 Pressure water(Mpa)	0.04	0.12	0.25	0.3	0.35	0.4	0.5
外形尺寸 overall size(m)	0.8×0.8×0.8	1.2×1.2×1.3	2 × 1.7×1.8	2.1 × 1.7×2	2.3×1.8×2.2	2.5×2.0×2.4	2.7 × 2.2×2.6
设备质量 weight(kg)	145	400	1300	1900	2000	2500	3000

## 振动筛 Circular Vibrating Screen

圆振动筛圆振动筛是一种做圆形振动、多层数、高效新型振动筛。

Circular vibrating screen is a new type of vibrating screen, circular vibrating, various decks and high efficiency.



### ● 振动筛产量计算书

筛孔尺寸 (mm)	0.16	0.2	0.3	0.4	0.6	0.8	1	2	3.15	5	8	10	16	20	25	31.5	40	50	80	100
q 值 (理论)	1.9	2.2	2.5	2.8	3.2	3.7	4.4	5.5	7	11	17	19	25.5	28	31	34	38	42	56	63
q 值 (保守)	1	1.1	1.3	1.4	1.6	1.9	2.2	2.8	3.5	5.5	8.5	10	12.8	14	16	17	19	21	28	32

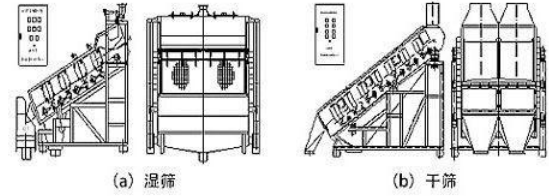
### ● 技术参数 Technical Parameter

型号 Model	筛网 层数	筛网面积 (m <sup>2</sup> )	筛孔尺寸 (mm)	最大进 料尺寸 (mm)	处理能力 (m <sup>3</sup> /h)	振动功率 (r/min)	双振幅 (mm)	电机功率 (kw)	筛面倾角 (°)	筛面规格 (mm)	总重量 (kg)	外形尺寸 (长 × 宽 × 高) (mm)
2YK1225	2	6	4-50	400	8-60	800-970	8	5.5	20	1200×2500	3500	2930×1860×870
3YK1225	3	9	4-50	400	10-70	800-970	8	5.5	20	1200×2500	3850	3070×1860×1210
2YK1230	2	7.2	4-50	400	12-78	800-970	8	7.5	20	1200×3000	4200	3430×1860×870
3YK1230	3	10.8	4-50	400	13-80	800-970	8	7.5	20	1200×3700	4600	3570×1860×1210
2YK1237	2	8.88	4-50	400	15-86	800-970	8	7.5	20	1200×3700	4600	4050×1860×870
3YK1237	3	13.22	4-50	400	16-90	800-970	8	7.5	20	1500×3500	5200	4270×1860×1210
2YK1545	2	13.5	5-50	400	22-150	800-970	8	15	20	1500×4500	6330	5120×2210×1230
3YK1545	3	20.25	5-50	400	22-150	800-970	8	15	20	1500×4500	6800	5360×2210×1610
4YK1545	4	27	5-50	400	22-155	800-970	8	18.5	20	1500×4500	7800	5930×2210×2060
2YK1548	2	14.4	5-50	400	22.5-162	800-970	8	15	20	1500×4800	6980	5420×2210×1230
3YK1548	3	21.6	5-50	400	22.5-162	800-970	11	15	20	1500×4800	7700	5660×2210×1610
4YK1548	4	28.8	5-50	400	22.5-162	800-970	8	18.5	20	1500×4800	8700	6230×2210×2060
2YK1848	2	17.28	5-80	400	25-206	750	8	15	20	1800×4800	9080	5420×2550×1420
3YK1848	3	25.92	5-80	400	32-276	750	8	18.5	20	1800×4800	9600	5660×2550×1780
4YK1848	4	34.54	5-80	400	32-285	750	8	22	20	1800×4800	11100	6290×2550×2160
2YK1854	2	19.44	5-80	400	32-312	800-970	8	18.5	20	1800×5400	10150	5960×2550×1420
3YK1854	3	29.16	5-80	400	32-312	800-970	8	22	20	1800×5400	10840	6260×2550×1780
4YK1854	4	38.88	5-80	400	32-336	800-970	8	30	20	1800×5400	12840	6830×2550×2160
2YK2160	2	25.2	5-100	400	50-475	970	8	30	20	2100×2600	11780	6720×2840×1530
3YK2160	3	37.8	5-100	400	50-475	970	8	30	20	2100×2600	12800	7030×2840×1910
4YK2160	4	50.4	5-100	400	50-497	970	8	37	20	2100×2600	14800	7300×2840×2380
2YK2460	2	28.8	5-100	400	65-550	970	8	37	20	2400×6000	15600	7020×3140×1530
3YK2460	3	43.2	5-100	400	70-620	970	8	37	20	2400×6000	17600	7300×3140×1910
4YK2460	4	57.6	5-100	400	80-680	970	8	45	20	2400×6000	19600	7600×3140×2380
2YK3072	2	14.3	5-100	400	200-700	750	8	22×2	20	3000×7200	23600	7200×4520×4184
3YK3072	3	21.4	5-100	400	230-800	750	8	22×2	20	3000×7200	25500	7200×4520×4684

## 高频筛 High-frequency Screen

高频筛效率高、振幅小、筛分频率高。是细粒物料筛分分级的有效设备，广泛用于铁矿、锡、钨、钽、铌砂等选矿厂的筛分或分级作业。

High-frequency screen is designed with high working efficiency, low vibration amplitude; it is the main equipment that separates fine granularity material efficiently, and mainly used in the separation or classification of iron, chrome, tungsten, and columbite, etc.



高频筛结构图



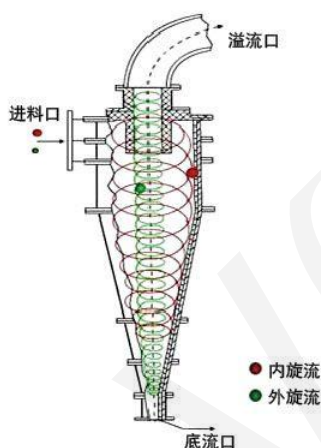
### ● 技术参数 Technical Parameter

规格型号 Model	筛面面积 Screen surface area (m <sup>2</sup> )	入筛浓度 Feed concentration (%)	处理能力 Capacity (t/h)	功率 Power (kw)
GPS-4	4.5	30%-40%	15-25	0.72
GPS-5	5.2	30%-40%	20-30	1.1
GPS-6	6	30%-40%	24-36	1.5
GPS-8	8.1	30%-40%	32-48	2.2

## 水力旋流器组 Hydrocyclone

水力旋流器结构设计独特，采用多段式柱体复合结构，可根据需要增减柱体高度，若高度增加，溢流细度提高，可达  $10\mu\text{m}$  左右；并且每个直径都有独特的筒体长度和锥角组合，可在最小的总旋流器长度情况下达到最大的切线速度，从而增大物料的离心力，提高分级效率。

Hydro-cyclone is designed with unique structure of multi-stage column shape. The height can be increased or decreased. If increased, overflowing fineness will be more fine to about  $10\mu\text{m}$ ; every diameter has its unique cylinder length and cone angle combination, thus producing the biggest tangential velocity when the total length of cyclone is the shortest. Then the centrifugal force is increased and classifying efficiency is increased.



### ● 技术参数 Technical Parameter

旋流器规格 Model	处理能力 capacity ( $\text{m}^3/\text{h}$ )	分级粒度 Size grading ( $\mu\text{m}$ )	溢流口直径 diameter of the overflow mouth (mm)	沉沙口直径 Desilting outlet diameter (mm)	入口压力 Entrance pressure (MPa)
FX150	10-23	25-74	30-50	8-22	0.060-0.15
FX200	17-38	28-80	40-65	16-32	0.060-0.15
FX250	24-53	30-82	65-100	16-40	0.060-0.15
FX300	40-100	36-90	65-120	20-40	0.060-0.15
FX350	56-118	40-100	80-120	30-70	0.060-0.15
FX375	74-157	42-105	90-135	30-70	0.060-0.15
FX450	90-192	44-110	100-150	30-70	0.060-0.15
FX500	128-300	50-115	130-220	35-100	0.060-0.15
FX610	200-468	57-125	160-260	65-110	0.060-0.15
FX660	237-524	60-130	180-280	80-150	0.060-0.15



## 螺旋分级机 Spiral Classifier

高堰式单螺旋和双螺旋、沉浸式单螺旋和双螺旋四种分级机。

Four Type: High weir type single spiral and double spiral, submerged type single spiral and double spiral classifier.



### ● 技术参数 Technical Parameter

型号 Model	螺旋直径 Screw diameter (mm)r	螺旋转速 Spiral Rotation Speed (r/min)	水槽长度 Sink Length (mm ≤)	电动机功率 Motor Power kw ≤		外形尺寸 Overall Size mm ≤			机重 Weight ≤
				传动用 Transmission	升降用 promotion and demotion	长 Length	宽 Width	高 Height	
FG-3	300	12-30	3000	1.1	----	3850	490	1140	0.7
FG-5	500	8-12.5	4500	1.1	----	5430	680	1480	1.9
FG-7	750	6-10	5500	3	----	6720	980	1820	3.1
FG-12	1200	4-6	6500	7.5	2.2	8180	1570	3110	8.5
2Fc-12			8400	15	4.4	10370	2790	3920	17.6
FG-15	1500	4-6	8300	7.5	2.2	10410	1880	4080	12.5
2FC-15			10500	15	4.4	12670	3370	4890	30.7
FG-20	2000	3.6-5.5	8400	11-15	3	10790	2530	4490	20.5
2FC-20			12900	22-30	6	15760	4600	5640	48.7
FG-24	2400	3.67	9130	15	3	11650	2910	4970	26.8
2FC-24			14130	37	8	17710	5430	8000	67.9

## 螺旋洗砂机 Spiral sand washer

螺旋洗砂机是借助固体颗粒的比重不同，因而在液体中沉降的速度不同的原理，进行机械分级的一种设备。机器转子采用中心结构，螺旋叶片安装在中心轴上，由减速器连接到中心轴上进行工作。广泛应用于建筑工地、砂石厂、预制厂及水电工地大量用于砂石的脱泥、筛选作业，也可用于矿石选别作业。



Spiral sand washer is a kind of mechanical classifying equipment. It makes use of the different sedimentation rates of different gravity particles in liquid material as the principle. The machine rotor is central type, with spiral blades fixed on the central axis and connected by reducer. It's widely applied in construction site, sand factory, precast plant and water-electricity assembly site for desliming and classifying work, and it can also be used for mineral slurry size classification.

### ● 技术参数 Technical Parameter

型号 Model	螺旋直径 Diameter (mm)	水槽长度 Length (mm)	入选粒度 Feed Size (mm)	处理能力 Capacity (t/h)	螺旋转速 Speed (r/min)	功率 Power (kw)	耗水量 Water consumption (t/h)	外形尺寸 Dimension (L × W × H) (mm)
LX600	600	5700	≤ 10	40	25	4	5-50	6800 × 2500 × 1700
2LX600	600	5700	≤ 10	80	25	4*2	10-100	6800 × 3100 × 1700
LX915	915	7585	≤ 10	100	21	11	10-80	8500 × 2810 × 3600
2LX915	915	7585	≤ 10	200	21	2*11	20-160	8500 × 3765 × 3600
LX1115	1115	9782	≤ 10	175	17	15	20-150	10970 × 3945 × 4720
2LX1115	1115	9782	≤ 10	350	17	15*2	40-300	10970 × 5250 × 4720

## 浸出槽 Leaching Tank

双叶轮高效浸出槽的特点是结构合理, 传动效率高, 采用两个新型叶轮, 叶轮直径大, 转速低, 搅拌功耗小, 减少了炭的磨损, 中空轴通气至低端, 空气分散。

Double impeller leaching tank is constructed of compact design, with high transmission efficiency, two newly-designed impellers that are with large diameter, low rotating speed and low energy consumption, which can reduce friction and the hollow shaft design can also spread air evenly.



### ● 技术参数 Technical Parameter

型号 Model	槽体规格 tank size(mm) 直径 × 高度 D × H	有效容积 effective volume (m <sup>3</sup> )	叶轮 r		直径		行星摆针减速器		
			转速 speed/r/ min	直径 Diameter (mm)	给矿管 Feed pipe (mm)	排矿管 discharge pipe (mm)	型号 type	速比 speed ratio	配用电机功率 power kw
SJ2.0×2.5	2000×2500	6	52	909	2-φ133	2-φ133	XLD2.2-4-29	29	2.2
SJ2.5×3.0	2500×3000	12.52	52	935	2-φ125	2-φ125	XLD2.2-4-29	29	2.2
SJ2.5×3.15	2500×3150	13	57	935	2-φ125	2-φ125	XLD2.2-4-29	29	2.2
SJ3.0×1.8	3000×1800	6.87	177.5	1150	2-φ125	2-φ125	CWS125-31.5-IIF	31.5	5.5
SJ3.0×3.15	3000×3150	17	43	1130	2-φ150	2-φ150	XLD4-5-35	35	4
SJ3.0×3.5	3000×3500	18.7	43	1130	2-φ150	2-φ150	XLD4-5-35	35	4
SJ3.15×3.55	3150×3550	24	43	1260	2-φ150	2-φ150	XLD4-5-35	35	4
SJ3.2×2.5	3200×2500	15	30.8	3200	2-φ150	2-φ150	CWS200-31.5-IIF	31.5	22
SJ3.5×3.5	3500×3500	30	43	1310	2-φ150	2-φ150	XLD5.5-5-29	29	5.5
SJ3.55×4.0	3550×4000	35	43	1310	2-φ150	2-φ150	XLD4-5-35	35	4
SJ4.0×4.0	4000×4000	42.72	35	1750	2-φ150	2-φ150	XLD7.5-7-43	43	7.5
SJ4.0×4.5	4000×4500	48	35	1750	2-φ150	2-φ150	XLD7.5-7-43	43	7.5
SJ4.5×5.0	4500×5000	71.6	35	1750	2-φ159×6	2-φ159×6	XLD7.5-7-43	43	7.5
SJ5.0×5.6	5000×5600	98	31	2046	2-φ159×8	2-φ159×8	XLD11-8-47	47	11
SJ5.5×6.0	5500×6000	112	31	2100	2-φ159×6	2-φ159×8	XLD11-8-47	47	11
SJ6.0×6.0	6000×6000	135.7	29.4	2100	2-φ168×8	2-φ168×8	WHC320-50-IIF	50	18.5
SJ6.0×6.5	6000×6500	143	31.9	2100	2-φ168×8	2-φ168×8	XLD11-8-47	47	11
SJ7.0×7.5	7000×7500	245.4	21	2400	2-φ168×8	2-φ168×8	XLD22-10-47	47	22
SJ7.5×8.0	7500×8000	268.6	21	2700	2-φ168×8	2-φ168×8	XLD22-10-47	47	22
SJ8.0×8.5	8000×8500	363.2	17	3200	2-φ168×8	2-φ168×8	XLD30-11-59	59	30
SJ8.5×9.0	8500×9000	408.6	17	3200	2-φ203×8	2-φ203×8	XLD30-11-59	59	30
SJ10.0×10.0	1000×10000	667.5	16.6	3400	2-φ219×10	2-φ219×10	XLD45-12-59	59	45

## 浓缩机 Thickener

我公司生产的浓缩机适用于选矿厂的精矿和尾矿脱水处理，把 20-30% 的矿浆提高到 40-70% 左右，该浓缩机广泛用于冶金、化工、煤炭、非金属选矿、环保等行业。

Thickener is mainly applied in the dewatering of concentration and tailing produced in ore dressing plant, which can thicken ore slurry density from 20-30% to 40-70%, and it also is widely used in metallurgy, chemical industry, coal, ferrous and non-ferrous beneficiation, and environmental industry etc.



### ● 技术参数 Technical Parameter

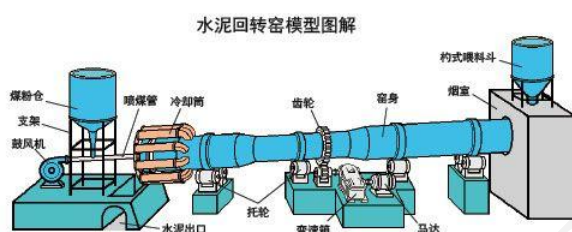
型号 Model	浓密池 cell		沉淀面积 desilting area (m <sup>2</sup> )	耙架转速 speed (r/min)	电动机 motor			处理能力 capacity (t/d)	槽重 cell weight (kg)	总重 weight (kg)
	直径 diameter (m)	深度 depth (m)			型号 type	功率 Power (kw)	转速 speed (r/min)			
NZS1.8	1.8	1.8	2.55	0.5	Y90L-6	1.1	910	1.3-5.6	537	1300
NZS2.5	2.5	1.8	4.9	0.33	Y90L-6	1.1	910	5-10.8	1095	2355
NZS3	3.6	1.8	10.2	0.33	Y100L-6	1.5	940	5-22.4	1730	2975
NZS5	5	2.95	16	0.3	Y90L-4	1.5	1400	16-45	4882	6286
NZS6	6	2.95	28	0.3	Y90L-4	1.5	1400	14-62	6193	8226
NZS7	7	3	38.5	0.3	Y112M-6	2.2	1400	22-93	7714	11946
NZS8	8	3.318	50.2	0.27	Y132S-6	3	960	28-122	11065	17037
NZS9	9	3	63.5	0.25	Y132S-6	3	960	32-150	8650	14617
NZS12	12	3.6	113	0.19	Y132S-6	3	960	≤ 250	23000	31800
NZS15	15	3.85	177	0.19	Y160M2-8	5.5	960	390	33241	45021
NZ20	20	4.4	314	0.096	Y160M2-8	5.5	720	960	(水泥壳)	23166
NZ24	24	4.4	452	0.092	Y160L-8	7.5	720	1382	(水泥壳)	25717

## 回转窑 Rotary kiln

回转窑是指旋转煅烧窑（俗称旋窑），属于建材设备类。回转窑按处理物料不同可分为水泥窑、冶金化工窑和石灰窑。

回转窑按处理物料不同可分为水泥窑、冶金化工窑和石灰窑。

According to the different material to be processed, Rotary Kiln is divided into cement kiln, metallurgy chemical kiln and lime kiln.



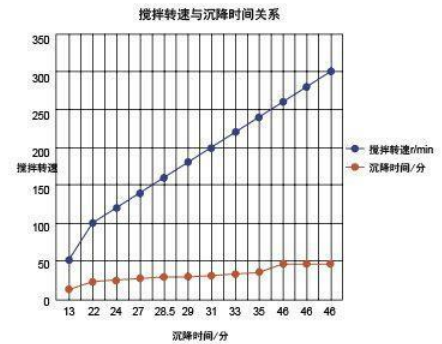
### ● 技术参数 Technical Parameter

格型号 Model	窑体尺寸 Kiln Body Size			产量 Capacity (t/h)	转速 Rotation Speed (r/min)	电机功率 Motor Power (kw)	重量 Weight (t)	备注 Notes
	直径 Diameter (m)	长度 Length (m)	斜度 Obliquity (%)					
φ 1.4×33	1.4	33	3	0.9-1.3	0.39-3.96	18.5	47.5	----
φ 1.6×36	1.6	36	4	1.2-1.9	0.26-2.63	22	52	----
φ 1.8×45	1.8	45	4	1.9-2.4	0.16-1.62	30	78.2	----
φ 1.9×39	1.9	39	4	1.65-3	0.29-2.93	30	77.59	----
φ 2.0×40	2	40	3	2.5-4	0.23-2.26	37	119.1	----
φ 2.2×45	2.2	45	3.5	3.4-5.4	0.21-2.44	45	128.3	----
φ 2.5×40	2.5	40	3.5	9.0-10.5	0.44-2.44	55	149.61	----
φ 2.5×50	2.5	50	3	6.25-7.4	0.62-1.86	55	187.37	----
φ 2.5×54	2.5	54	3.5	6.9-8.5	0.48-1.45	55	196.29	----
φ 2.7×42	2.7	42	3.5	10.0-11.0	0.10-1.52	55	198.5	----
φ 2.8×44	2.8	44	3.5	12.5-13.5	0.437-2.18	55	201.58	悬浮预热窑 Suspension preheater kiln
φ 3.0×45	3	45	3.5	12.8-14.5	0.5-2.47	75	210.94	----
φ 3.0×48	3	48	3.5	25.6-29.3	0.6-3.48	100	237	窑外分解窑 Precautional kiln
φ 3.0×60	3	60	3.5	12.3-14.1	0.3-2	100	310	----
φ 3.2×50	3.2	50	4	40.5-42	0.6-3	125	278	窑外分解窑 Precautional kiln

## 矿用搅拌桶 Agitating Vessel

矿用搅拌桶是增加药剂反应时间，强化药物反应质量的必要设备，主要用于选矿流程中浮选前的矿浆搅拌，使药剂与矿浆充分混合，也可以作为化工行业的混合搅拌或稀释搅拌。

Agitator is the necessary equipment to extend the medicament reaction time and strengthen the drug reaction quality. It is mainly used to mix pulp before flotation in beneficiation process and make potions and pulp fully mixed. Also it can be used for roiling mixing or dilution mixing in chemical industry.



### ● 技术参数 Technical Parameter

型号 Model	槽体内部尺寸 Inner Size of Bucket		有效容积 (m <sup>3</sup> ) Effective Volume	搅拌器 Blender		电机 Motor		总重 Weight (kg)
	直径 Diameter (mm)	深度 Height (mm)		直径 Diameter (mm)	转速 Rotation Speed (r/min)	型号 Model	功率 Power (kw)	
XB-750	750	750	0.26	240	530	Y90S-4	1.1	550
XB-1000	1000	1000	0.58	240	530	Y90L-4	1.5	700
XB-1200	1200	1200	1.14	400	320	Y100L2-4	3	980
XB-1500	1500	1500	2.2	400	320	Y100L2-4	3	1330
XB-2000	2000	2000	5.46	550	230	Y132M2-6	5.5	2100
XB-2500	2500	2500	11.2	650	200	Y160L-6	11	3438
XB-3000	3000	3000	19.1	700	210	Y225S-8	18.5	5100
XB-3500	3500	3500	30	850	230	Y225M-8	22	7900