

**Henan Mingyuan Heavy Industrial Machinery Co., Ltd**

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❖ **Brief Info About Jiangtai Machinery**

- ❖ Zhengzhou Jiangtai is a professional manufacturer and exporter of kinds of stone crushers and complete aggregate crushing plants, screening plants and washing plants. We engaged in this industry since 2005. We are new in this industry, but we offer high quality crusher machines which ensure us to occupy a leading position in crushing industry!
- ❖ Our crushers and grinding mills have been sold to more than 30 countries and regions of the world. Such as Africa, Middle East, South American, Southeast Asia and so on. We are working hard to expand our market to more countries and regions where need good quality stone crusher or aggregate crushing and screening plants!
- ❖ We make progress step by step since the day that we set a foot into crushing and mining industry. Jiangtai pay much attention to machine quality! We always believe that quality above all! And this notion has been deeply rooted in our heart since the first day that we established. We do, we say!
- ❖ After years of Research & Development, Jiangtai promote primary jaw crusher, impact crusher, spring cone crusher, hydraulic cone crusher, PYS series Symons cone crusher, vertical shaft impact crusher (sand making machine), hammer crusher, roller crusher, YK series vibrating screen, vibrating feeder, sand washing machine, ball mills, Raymond grinding mills and other can crushers and auxiliary equipment. Recently, we developed our own mobile crusher which are mounted on trailer trucks, with compact design and easy transport. To know more about fixed crushers and mobile crushers, please visit our website for details.
- ❖ Jiangtai is professional in providing optimum solutions according to customer request. We will respond you within 24 hours once we get your notice!



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# Ore Dressing Plant

## ❖ Ore Dressing Plant

- ❖ Ore dressing plant consists of jaw crusher (or secondary cone crusher), ball mill, classifier, flotation machine, magnetic separator, concentrator, dryer and other main equipment. Match with feeder machine, lifting device, conveyor system and other auxiliary machines to compose a complete processing plant. The ore dressing plant features of high efficiency, energy-saving, high productivity, economical cost.

## ❖ Working Flow:

The raw ore is primary crushed by the jaw crusher. Then crushed by crusher to definite size, and then fed into ball mill via lifter or feeder. The crushed mineral ores will be processed (crushed, grinded) further in the milling unit, and then after discharged from the ball mill, the crushed material was transported to the next machine for further process: Classifier. Spiral classifier wash and grade the ore based on its working principle. The cleaned and separated material will be separated again by the magnetic separator if it necessary. According to the coefficient of magnetization of different mineral ores, magnetic separator separate the ore from the mixed mineral ores by magnetic force and mechanical force. Then, the ores will be sent to flotation machine, add the relative chemicals to separate the ores which was required or rejected. After this process, by concentrator and dryer, we get the dry ores.





# Sand Making Machine

## ❖ Sand Making Machine

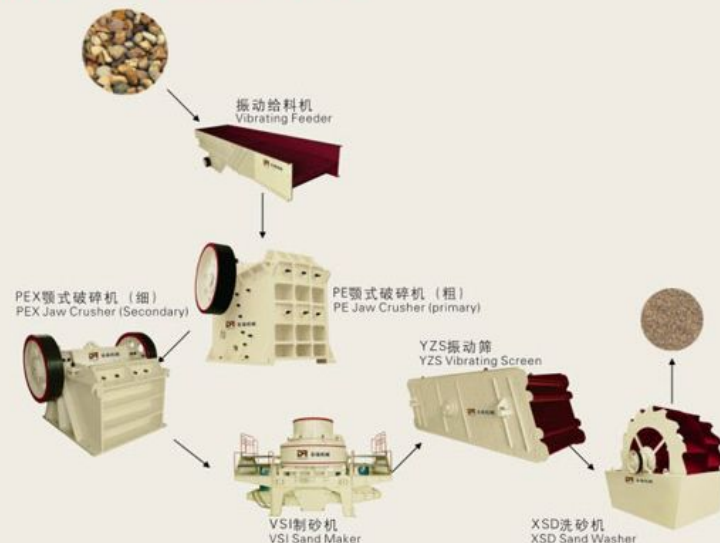
- ❖ The stone materials are crushed preliminarily in the **jaw crusher**. Secondly, the crushed rough stone materials are transported into the **impact crusher** for further crush by the belt conveyor. Thirdly, the stone materials are separated into two parts by the vibrating screen, and one part whose size is suitable for the sand making machine will be transported into the **sand making machine**, and the other part of the stone will be transported into the impact crusher. Some of the former part of the stone which are crushed in the sand making machine will turn into required sand, and be washed by the sand washing machine (selectable), and the rest stone materials will be transported into the impact crusher for crush once more.

This **sand production line** has features of high automation, low operating costs, high crushing ratio, low energy consumption, large output, convenient maintenance, uniform granularity and good shape of the products, reasonable gradation, and the produced sand conforms to the national standard of construction sand.

## ❖ Working Flow:

1. The Crude ore is transported to the vibrating feeder, which make sure the continuous supply of the crude ore, and at the same time to avoid sudden impact on the crusher;
2. The ore will get to the coarse jaw crusher for the primary crusher;
3. Then the crushed ore will get to the fine jaw crusher or VSI crusher for the secondary crusher, here we can get the anticipated sand grade;
4. The particles will get to a vibrating screen, which can be equipped with different layers, to separate the particles by size difference;
5. According to the customer's requirement, the separated particles can be washed by the sand washing machine, to clean the dust out.

制砂生产线 / Sand Making Process



## Jiangtai vibrating feeder

### ❖ Vibrating Feeder



### ❖ Vibrating Feeder

❖ The vibrating feeder has been widely used in many industries. Such as metallurgy, coal mining, mineral concentration, building and construction material, chemical, grinding, etc. Jiangtai vibrating feeders are especially designed and built to withstand tough work condition in quarry plant or mine by matching different applications. With particular design and building artworks, Jiangtai vibratory feeders can transfer big, hard, abrasive materials through uniform flow. Vibrating feeders transfer the material from hopper to crusher continuously and uniformly. Besides, vibrating feeders have sieving function. It can sieve the sand size material before feeding to the crusher, which reduce loading of the crusher, and increase the working efficiency of the complete processing.

❖ Vibrating feeder works calmly and reliably, and with lower noise. Due to little abrasion, so it with longer service life than the crusher spares parts. Its stimulating vibrancy power is adjustable, the feeding capacity is controlled through adjust the stimulating vibrancy power. It consumes less power energy than other machines, but with perfect capability. Vibratory feeder with simple structure, and is easy to make maintenance and installation due to its simple design, light weight and small dimension. If you want to avoid power or dust pollution, a closed structural body will be used.

### ❖ Vibrating Feeder Features:

- ❖ 1. Compact design and simple structure
- ❖ 2. Was built for heavy duty
- ❖ 3. Reliable performance
- ❖ 4. Can separate sand before feeding to crusher
- ❖ 5. Easy maintenance and low operation cost

### ❖ Technical Parameters

Model	Max Feed Size (mm)	Capacity (t/hr)	Motor Power (KW)	N.W (KGS)
GZQ-0938	500	96-160	11	4082
GZQ-0949	500	120-240	15	5004
GZQ-1149	580	200-350	15	5320
GZQ-1159	600	200-350	22	6130
GZQ-1360	750	400-560	22	7800

## Jiangtai Vibrating Screen

### Vibrating Screen



### Vibrating Screen

Vibrating Screen is a kind of screening equipment. We also call it vibratory screen. It is used to separate materials into desired sizes for different functions. In quarry plant, normally several sizes products are required, that is why vibrating screen is widely and effectively applied in the crushing plants. Jiangtai vibrating screen is built with different layers of screen meshes based on kinds of required final products. The screen mesh, which with holes, and normally is square. When the material was fed into the screening equipment, the desired product will pass through the holes, and being transported by belting conveyors to stock piles. While the undesired product will be rejected and being transported by the conveyors to crusher for further processing. Jiangtai vibrating screens separate different sizes at the same time and with high efficiency and capability. This type of vibrating screen works in circular movement, so we also call it round vibrating screen. It has been widely used in metallurgy, chemistry, quarry, building material, and water conservancy and hydropower industries. Vibrating screen consists of screen meshes, springs, supporter frame, electrical motor, etc.

### Vibrating Screen Features:

1. High efficiency and reliable performance
2. Simple structure and easy maintenance. The main body of it is connected with high quality clinch bolts which increases the service life of vibratory screen. And, the spring shock absorption device decreases the impact force to its foundation
3. Small amplitude, high vibrating frequency and large obliquity ensures this screening equipment hold high efficiency and capacity,
4. Long service life
5. Low consumption and noise

### Technical Parameters

Model	Layer	Area (m2)	Capacity (M3/Hr)	Motor Power (KW)
YK1236	1	4.3	30	5.5
3YK1236	3	4.3	30-160	11
2YK1245	2	5.4	35-180	11
3YK1245	3	5.4	35-180	11
YK1535	1	5.25	34-200	11
3YK1535	3	5.25	34-200	15
YK1545	1	6.75	44-200	11
2YK1545	2	6.75	44-258	15
3YK1545	3	6.75	44-258	15
4YK1545	4	6.75	44-258	18.5
3YK1548	3	7.2	47-275	15
4YK1548	4	7.2	47-278	18.5
YK1848	1	8.8	56-330	15
2YK1848	2	8.8	56-330	17.5
3YK1848	3	8.8	56-330	22
2YK1854	2	9.72	63-450	22
3YK1854	3	9.72	63-450	22
YK1860	1	10.8	56-450	18.5



## Jiangtai Belt Conveyor

### ❖ Belt Conveyor



### Technical Parameters

Model	Capacity (t/h)	Roller diameter (mm)	Motor Power (KW)
Ds500	40-232	500.600	1.5-30
Ds650	57-391	500.630	1.5-45
Ds800	118-824	500.630	2.2-7.5
Ds1000	230-1233	500.630.800	4-100

- ❖ belt conveyor is the essential and economical transportation device in the mining, building material, metallurgy and coal, construction, building and chemical industry to transfer fine particle, lump or bulk materials. Our conveyor systems are excellent for heavy duty transportation which has been effectively used in quarry plant. Conveyor belt system is simple in operation, convenient in maintenance. It is of simple structure and is disassembled. Normally, a complete conveyor belt system is consisting of metal frame, rollers, belt, electrical motor, gearing device and coverage. Belt conveyors can be installed horizontally or aslope to meet different transportation demands. According to different working conditions, the conveying system can work independently. Or several pieces of belt conveyors work together or combine with other transferring equipment to work together.

- ❖ Belt conveying system can work in temperature of -200C and +400C, and the temperature of transferring material should lower than 500C.

#### **Belt Conveyor Features:**

1. Inclination should be  $\leq 180$
2. Ideal density of material is  $\leq 2.5/m^3$
3. Low noise pollution
4. Simple structure, easy maintenance and low production cost
5. Transmission speed is adjustable based on installation angle

## Jiangtai Jaw Crusher

### ❖ Jaw Crusher



### ❖ **Jaw Crusher**

- ❖ jiangtai jaw crusher is one of the most popular crushers in primary and secondary crushing processing. Jaw crusher is especially designed for tough working. Jaw crusher can crush granite, basalt, river pebbles, silicon carbide, quartz, marble, manganese clinker, iron ores, diamond stone, etc. jiangtai jaw crusher is especially built for the hardest rock and ores. Jiangtai jaw crusher is workable for raw material with compression strength less than 350Mpa. As leading manufacture of jaw crusher (breaker), we supply small jaw crusher (for lab test), medium and large crushers. We also sale jaw crusher spare parts in favorable price.

### ❖ **Jaw Crusher Characteristics:**

- ❖
1. Big feeding mouth
  2. Workable with the hard and hardest rocks and ores
  3. High efficiency
  4. Reliable performance and high productivity
  5. Simple structure and easy maintenance and spare parts replacement
  6. Low production cost per hour due to high quality key component
  7. Long service life
  8. Easy to operate

### ❖ **Technical Parameters**

Model	Feed size (mm)	Output size (mm)	Capacity	Motor Power (KW)
PE-150	250*150	15-45	1.7-5.6	5.5
PE-200	300*200	20-50	3.5-13.5	11
PE-250	250*400	20-60	5-22	15
PE-400	400*600	40-80	18-60	30
PE-500	500*750	50-100	43-102	55
PE-600	600*900	65-180	51-145	75
PE-750	750*1060	80-180	122-223	110
PE-900	900*1200	85-180	285-430	132
PE-1000	1000*1200	195*280	320*470	132
PE-1200	1500*1200	150-300	425-765	160

## Jiangtai Fine Crusher

### ❖ Fine Crusher



### ❖ **Features:**

- (1). Super-fineness crushing capability: The new particle size adjusting mechanism guarantees 85% of the particles controlled within 3mm;
- (2). High-efficient and energy-saving: 40% power consumption reduced at equivalent output;
- (3). Extra long life: hammer heads are made of new type of high quality alloy materials with multiple elements and can be turned for use thus to prolong the service life by 4 times.
- (4). Great crushing ratio: Crushing for limestone into one step.
- (5). Easy Maintenance: The rear cover of the upper machine frame can be hydraulically (hand)-opened to make the maintenance much easier.

### ❖ **Technical Parameters**

Model	Feed size (mm)	Output size (mm)	Capacity (T/H) (limestone)	Motor Power (KW)
PXJ 800*400	400*185	≤5	35-45	37-45
PXJ 800*600	500*250	≤5	45-55	45-55
PXJ 800*800	550*330	≤5	55-65	45-55
PXJ 1010*1000	1000*350	≤5	65-75	55-75
PXJ 1200*1000	1200*400	≤5	50-100	100-110
PXJ 1200*1200	1200*450	≤5	90-100	100-132
PXJ 1400*1400	1500*500	≤5	100-150	160
PXJ 1600*1600	1600*550	≤5	190-250	250
PXJ 1800*1800	1800*800	≤5	280-310	315



## Jiangtai Impact Crusher

### ❖ Impact Crusher



### Technical Parameters

Model	Feed size (mm)	Recommen d size (mm)	Capacity (T/Hr)	Motor Power (KW)
PT-0807	400*730	300	15-30	45
PF-1007	400*730	300	25-60	55
PF-1010	400*1080	350	50-80	75
PF-1210	580*1080	350	70-120	95
PF-1214	580*1430	350	130-180	132
PF-1315	860*1520	500	160-250	185
PF-1320	860*2030	500	200-310	300

### ❖ Impact Crusher

❖ jiangtai impact crusher is mostly used in the secondary crushing processing. jiangtai impact crusher is especially good for limestone, dolomite, sandstone, marble, barite, bluestone, construction demolished debris, etc. jiangtai impact crusher is especially built for medium hard rocks and stones which compression strength is less than 350Mpa and max. feeding size is less than 500mm. Due to its cubic shaped final product. Impact crusher is widely used in sand making plant, highway and railway surface as well as water conservancy industries. Impact crushers discharge opening is adjustable.

### ❖ Impact Crusher Characteristics:

1. Cubic-shaped final products
2. Discharge opening is adjustable
3. High reliability and excellent performance
4. High quality of wearing parts, such as the high chrome plate hammer and high manganese liner plates
5. High crushing ratio. impact crusher max. feeding size can be 500mm, while the discharge opening range is normally 20mm to 60mm
6. Simple structure and easy maintenance

## Jiangtai Spring Cone Crusher

### ❖ Spring Cone Crusher

- ❖ Jiangtai spring cone crushers have been widely used in metallurgy, construction, road and railway building, chemistry and other industry. Jiangtai spring cone crusher is suitable to crush various kinds of rocks and ores of medium or above medium hardness. Such as limestone, granite, iron ore, copper ore, basalt, quartz, etc. We are the leading manufacture of cone crushers. Jiangtai spring cone crusher is of simple structure, high efficiency, and easy maintenance, etc. This cone crusher with safety system which protects it being damaged when it is overloading or some steel bars or metal was fed into the crushing chamber. Besides, our spring cone crushers use dry oil for sealing. Advanced Dry oil sealing avoid dust or powder entering spring cone crusher and polluting the lubricating oil. It ensures wearing parts of cone crusher with long service time. This series of cone crushers are of several cavities for each model. The type of crushing chamber depends upon the feeding size and output size. B type is used for intermediate crushing which final product is coarse; Z type is used for medium size product processing; D type is especially used for the fine product processing, which final product is fine.

### ❖ Spring Cone Crusher Structure:

A complete set of spring cone crusher consists of frame, hollow eccentric shaft, transmission device, bowl-shaped bearing, crushing cone, springs and lubricating system (hydraulic station) for discharge opening adjustment. Besides, Jiangtai spring cone crusher with lubricating system which make maintenance and commissioning become easy and time-saving, so cone crusher “stop-working” time has been greatly reduced.

Spring Cone Crusher Features:

1. Dry oil sealing system with better protection
2. Adjustable discharge opening and easy adjustment
3. High quality wearing parts make sure spring cone crusher consume less spare parts, so production cost is less
4. Safety system protect cone crusher being damaged when overloading and allow the steel bars or metal to pass through the crushing chamber, which reduce the “stop-working” time.



## Jiangtai Spiral Sand Washing Machine

### Spiral Sand Washing Machine



- ❖ **Spiral Sand Washing Machine**
- ❖ Jiangtai screw (spiral) sand washing machine with high capacity per hour, has been extensively used for sand impurity elimination and dehydration in building and construction site, sand processing plant, concrete dam site, glass and quartz plant, etc. Spiral sand washer was installed with inclination of 150C. Under the water tub, there are three weir plates from the sediment pool. The head of the screw (spiral) merges in the water tank. Under the action of electrical motor and reducer, the spiral rotates continuously. Meanwhile, the clean water flows into the sediment pool through porous plates at the bottom of the sediment pool. Spiral sand washing machine with three functions of cleaning, dehydration and classification. It is ideal choice for sand filtration and cleaning.
- ❖ **Spiral Sand Washing Machine Features:**
  1. High efficiency
  2. Washed sand is cleaner
  3. Long service life
  4. Low production cost
  5. Consume less water

### ❖ Technical Parameters

Model	Spiral Dia (mm)	Capacity (t/h)	Motor Power (KW)	N.W
XSL-50	500	20	3	2550
XSL-75	750	50	5.5	3820
XSL-100	1000	75	7.5	4870
XSL-120	1200	95	11	6900
XSL-150	1500	130	18.5	8800



## Jiangtai Mobile Impact Crusher Plant

### ❖ Mobile Impact Crusher Plant



### ❖ Mobile Impact Crusher Plant

❖ Jiangtai mobile impact crusher is also highly demanded by the users due to its unlimited locations. Mobile crushing and screening plant is mainly used in the industries of metallurgy, chemical, building and construction, hydropower and other industries which need to change working sites frequently. Based on different scales, material types and required final products, jiangtai offer different configurations of mobile crushing and screening plants.

### ❖ Mobile Impact Crusher Features:

1. Compact design and integrated unit. screening equipment, belt conveyors, impact crusher and other auxiliary equipment are mounted together in one truck trailer
2. Trailer mounted and easy for transportation
3. Automatic operation and easy maintenance. Mobile crushing plant is controlled by electrical control panels. And it is mounted with convenient equipment, such as elevator which facilitates the maintenance and operation monitoring.
4. Flexible and efficient. As mobile crusher is integrated, so it can work independently. Besides, according to different material types and final product requests, mobile crushers technical plan are adjustable.
5. With support legs on the trailer( or track), easy for installation
6. Truck trailer-mounted motor and electrical control panel is integrated

Model	Impact Crusher	Vibrating Screen	Belt Conveyor	Capacity (t/h)	Power (KW)
JT1010	PF1010	3YK1548	B500*7M	50-80	73-93
JT-1210	PF1210	3YK1848	B650*7M	70-120	128-150
JT-1214	PF1214	3YK1860	B650*8M	80-160	153.5-181.5
JT1315	PF1315	3YK2160	B800*8M	160-260	206-286

## Jiangtai Mobile Jaw Crusher Plant

### ❖ Mobile Jaw Crusher Plant

- ❖ Due to variable working sites in real practice, mobile crusher is highly demanded by a lot of users. Benefit from years of experience and long time R&D, Jiangtai mobile crusher plant is available now. For a complete mobile crushing plant, normally it consist of mobile jaw crusher, mobile impact crusher or mobile cone crusher and other auxiliary equipment, such as storage bin, vibrating feeder, belt conveyor, vibrating screen and electrical control panel, diesel generator set, cables, etc. Mobile jaw crusher is mounted on tracks. It is not a single crusher. It is a mobile crushing plant includes storage bin, vibrating feeder, jaw crusher, and belt conveyor, cables, etc. All these equipment are mounted in one trailer and tracks. Jiangtai mobile stone crusher structure is compact and easy to transport. Besides, mobile crushers are adjustable. According to user's different requests, the configuration of mobile crushing plants can be changed relatively. Mobile jaw crusher is flexible and it provides more possibilities for quarry business especially for the construction contractor, quarry owner, etc. Mobile jaw crusher with excellent efficiency, and solve the problem of location-obstacle for the users.

### ❖ Mobile Jaw Crusher Features:

1. Integrated configuration eliminates the infrastructure installation work for each equipment, and occupies less working area
2. Low transportation cost . As it is portable, so it can crush the material on the front line. And, the crushed rocks or ores can be transferred to the truck holder directly. All these points avoid or reduce the transportation cost.
3. Flexible and efficient. As mobile crusher is integrated, so it can work independently. Besides, according to different material types and final product requests, mobile crusher technical plan is adjustable.
4. Automatic operation and easy maintenance. Mobile crusher is controlled by electrical control panels. And it is mounted with convenient equipment, such as elevator which facilitate the maintenance and operation monitoring

### ❖ Technical Parameters

Model	Vibrating Feeder	Jaw Crusher	Belt Conveyor	Capacity (t/h)	Power (KW)
F930J146	GZD 900*3000	PE400*600	B500*7M	15-16	47.5
F938J57	ZSW 960*3800	PE500*750	B650*8M	40-80	70
F938J69	ZSW 960*3800	PE600*900	B800*8M	90-150	90
F1142J710	ZSW 1100*4200	PE 750*1060	B 1000*9M	110-320	130.5
F1349J912	ZSW 1300*4900	PE900*1200	B 1000*11M	220-450	139.5-161.5





## Jiangtai Ball Mill

### ❖ Ball Mill



### ❖ Ball Mill

❖ Ball mill is widely used in cement, silica, new building material, ferrous and non-ferrous metal, fertilizer, glass, ceramic and other industries for power grinding and milling processing. As professional ball mills manufacture and supplier, Jiangtai ball mills have dry and wet types. It can be divided into tabular type and flowing type according to different forms of discharging methods.

### ❖ Ball Mill Inner Structure:

Ball mills include feeding device, discharging part, rotation parts, driving part which includes gearing device, small gear wheel, electrical motor, control panel, etc. The quill shaft adopts casting steel part and the liner is detachable, so when it is worn out, liner can be replaced easily. The rotating big gear wheel is made of cast hobbling processing and the drum is equipped with wear-resistant liner, which with perfect wear-resistance. Ball mill works with reliable performance.

### ❖ Technical Parameters

Model	Spec	Capacity ( t/h)	Power (KW)	N.W (T)
MWG1245	1200*4500	1.4-2	45	12
MQG1557	1500*5700	3.5-4.5	115	12
MQG1864	1830*6400	5.5-6.4	155	34.6
MQG1870	1830*7000	6-7	185	36.5
MQG2265	2200*6500	14-15	380	50
MQG2275	2200*7500	16-18	380	63
MQG2470	2400*7000	26-30	475	70.5
MQG2736	2700*3600	13-120	380	75.5
MQG3090	3000*9000	42-50	1000	156.5
MQG3240	3200*4000	45-75	475	115



## Jiangtai Impeller Sand Washer

### ❖ Impeller Sand Washer



### ❖ Technical Parameters

Model	XSD 2600	XSD 2800	XSD 3000	XSD 3200	XSD 3600
Wheel Diameter (mm)	2600	2800	3000	3200	3600
Speed (r/min)	0.8-1.2	0.8-1.2	0.8-1.2	0.8-1.2	0.8-1.2
Capacity (t/h)	20-50	30-70	50-100	80-120	120-180
Power (KW)	5.5	5.5	7.5	11	15
N.W (KGS)	3500	4600	5300	5800	6600

### ❖ Impeller Sand Washer

- ❖ Jiangtai impeller type sand washing machine adopts advanced technology, and with reasonable structure, easy maintenance, high capacity and lower consumption, perfect clearing performance, is especially excellent for the construction, road building and other industries which require high quality sand. Jiangtai impeller sand washer with functions of washing, separation and impurity elimination. This sand washer machine is of advanced sealing system, closed oil gearing device, adjustable discharging plate, which ensure it with high efficiency, reliable performance, and perfect cleaning and dehydration performance. Impeller sand washing machine is an equipment to wash sand in coordination with the sand making machines in crushing and washing plants. Our sand filtration systems make your sand clean and hot sale.

### ❖ Impeller Sand Washing Machine Features:

- ❖ 1. Simple structure. Gearing device of impeller disconnected with water and material avoid the bearing being damaged due to water logged and pollution
- ❖ 2. High efficiency and large productivity
- ❖ 2. More medium and fine sand was obtained, if compared with spiral sand washer
- ❖ 3. Few wearing parts consumed except for screen mesh
- ❖ 4. Long service life and no maintenance in long time

## Jiangtai Spiral Classifier

### ❖ Spiral Classifier



### ❖ Spiral Classifier

❖ Our Spiral Classifiers are widely used in the distribution of ores in closed circuits with ball mills, grading ore and fine slit in gravity mills, grading granularity and flow of metal ore-dressing, and declaiming and dehydrating in washing. This classifier features simple structure, easy operation and reliable performance which make it popular in mining industry. Now, we supply single and double spirals classifiers.

❖ According to the immersed depth of the spiral blade, two types are available now:

- ❖ 1. High weir classifier, especially for overflow granularity 0. 83-0. 15mm minerals;
- ❖ 2. Immersed classifier, especially for overflow granularity 0. 15-0. 07mm minerals;

### ❖ Working Principle:

❖ Based on different grains have different gravities and sedimentation rates in liquid, classifier s allow the fine ore to flow in the water, while coarse ore sinks to the bottom. This classifier can filter materials and send coarse materials to the feeding mouth and discharge fine materials from the pipe. The seat of the machine features channel steel material, while the body is armor plated and the spiral axle is made of cast iron for durability. The machine's lifting equipment can be used manually or electronically.

Model	Dia	Capacity		Power
		Returning (t/24h)	Overflow (t/h)	
PLG-500	500	140-260	32	3
PLG-750	700	250-570	65	3
PLG(T)-1000	1000	216-1000	110	5.5
PLG(T)-1200	1200	1165-1630	155	5.5
PLG(T)-1500	1500	915-2195	235	7.5
PLG(T)-2000	2000	3890-5940	400	15
2FLG-1200	1200	2340-3200	310	5.5*2
2FLG-1500	1500	2280-5480	470	2.2*2
2FLG-2000	2000	7780-11880	800	11*2
2FLG-1200	1200	2232-3752	240	1.5*2
2FLG-1500	1500	2280-5480	370	7.5

## Jiangtai Magnetic Separator

### ❖ Magnetic Separator



### ❖ Magnetic Separator

- ❖ This series of magnetic separator has been widely used in mining, coal, quarry and other industries. It is used to remove the magnetic material (iron) from the minerals. According to different customers' demands, we provide three types of magnetic separators: forward flow, semi counter flow and counter flow. CTS is the forward flow type, CTN is the counter flow type, CTB is the semi counter flow type.
- ❖ CTS forward flow type feeding size  $\leq 6\text{mm}$ ; CTN counter flow type feeding size  $\leq 0.6\text{mm}$ ; CTB semi counter flow type feeding size  $\leq 0.5\text{mm}$ , and it is especially good for 0.15-0mm minerals.

### ❖ Technical Parameters

Model	Magnetic Induction	Capacity (t/h)	Power (kw)	N.W (T)
CTB612	$Mt \leq 120$	10-20	1.1	1.5
CTB618	$Mt \leq 120$	15-30	2.2	1.8
CTB718	$Mt \leq 120$	25-45	3.0	2.2
CTB918	$Mt \leq 130$	35-70	4.0	2.8
CTB1018	$Mt \leq 135$	40-75	5.5	4.3
CTB1024	$Mt \leq 135$	52-100	5.5	5.2
CTB1218	$Mt \leq 135$	47-90	5.5	5.0
CTB1224	$Mt \leq 135$	80-120	7.5	6.4



## Jiangtai High Gradient Magnetic Separator

### ❖ Magnetic Separator



### ❖ High Gradient Magnetic Separator Introduction:

At present, the high gradient magnetic separator in our country is mainly of Electromagnetic type, except for separating the weak magnetic of micro-granular minerals, it is also used to remove the industrial waste. When the waste water flows past the magnetic medium, such as steel wool, the magnetic particle will stick in the steel wool, achieving the purpose of cleaning the waste water. So it is also called as high gradient filter.

#### **Application:**

This machine can sort the weak magnetic minerals, magnetic minerals and strong magnetic minerals and remove impurities and purify the non-metallic minerals. For example:

Ferrous metal mining: martite, hematite, limonite and siderite and chromite and manganese ore recovery, etc.

Non-ferrous metal mining: separated for wolframite, garnet.

Rare metals minerals: recycle of monazite, zirconium, and xenotime.

Non-metallic minerals: purity of quartz, feldspar, kaolin, refractory materials.

Other aspects: wastewater treatment in steel mill and power plant, cleaning the chemical raw material contaminated by catalyst

### ❖ Technical Parameters

Model	Capacity (T/H)	Feeding size (mm)	Power (KW)	N.W (T)
SSS-1-1000	4-10	0.01-2	4.5	8
SSS-1-1200	10-20	0.01-2	6.6	12
SSS-1-1500	20-35	0.01-2	8.4	21
SSS-1-1750	30-50	0.01-2	13.5	38
SSS-1-2000	40-75	0.01-2	16.5	51

## Jiangtai Mixer

### ❖ Mixer



### ❖ Mixer

- ❖ Mixer rotates by the V-belt drives its impeller. The mixer makes chemical medicine fully mixed with pulp, and extend the reaction time and improve the effect. Mixer is mainly used in ore dressing, mineral concentration. It can also be used in the chemical industry for mixing.

### ❖ Technical Parameters

Model	Diameter (mm)	Volume (CBM)	Power (KW)	N.W (T)
XB-500	500	0.098	1.1	0.15
XB-750	750	0.33	1.5	0.6
XB-1000	1000	0.58	1.5	0.99
XB-1200	1200	1.4	3	1.05
XB-1500	1500	2.2	3	1.2
XB-2000	2000	5.6	5.5	1.6
XB-2500	2500	11.2	18.5	3.44
XB-3000	3000	19.1	18.5	4.61
XB-3500	3500	30	22	7.28

## Jiangtai Flotation Machine

### ❖ Flotation Machine



### ❖ Flotation Machine

- ❖ Flotation Separator is designated for separation of ferrous metal and non-ferrous metal. It can be also used for separation of non-metal materials such as coal fluorite and steatite.

### ❖ Working Principle:

The impeller rotates by triangle belt of the motor, which produces centrifugal function and causes negative pressure. On one hand it draws in enough air mixed with ore magma; on the other hand it agitates to mix ore magma with chemical medicines. At the same time, it minifies bubbles so that minerals can stick above them, float on the surface of magma, and form mineralized bubbles. Adjust the height of plate to control fluid level in order that the available bubbles can be scrapped out by scrappers.

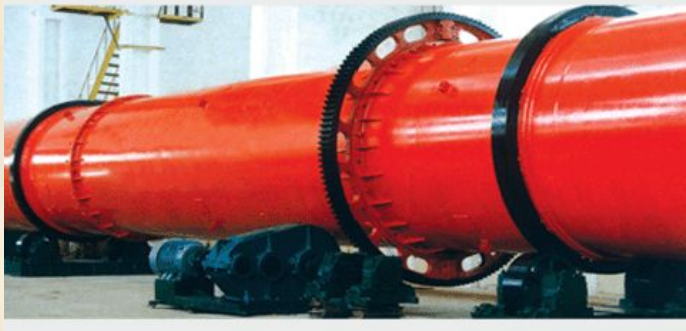
### ❖ Technical Parameters

Model	Cell Volume (CBM)	Capacity (CBM/min)	Power (Impeller +scarper)	N.W (T/Cell)
XJK-0.13 (1A)	0.13	0.05-0.16	1.5+0.55	0.35
XJK-0.23 (2A)	0.23	0.12-0.28	1.5+0.55	0.41
XJK-0.35 (3A)	0.35	0.18-0.4	3+0.55	0.45
XJK-0.62 (4A)	0.62	0.3-0.9	4+1.1	0.85
XJK-1.1 (5A)	1.1	0.6-1.6	5.5+1.1	1.24
XJK-2.8 (6A)	2.8	1.5-3.5	11+1.1	2.43



## Jiangtai Rotary Dryer

### ❖ Rotary dryer



- ❖ Rotary dryer is widely applied in ore dressing, building and construction material, metallurgy, chemistry, cement industry. It is used to dry the moisture mineral, coal dust, slag, clay, etc.
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- ❖ **Features:**  
Rotary dryer is adaptable. It can dry various materials. The machine is simple and reliable. It is consist of cylinder body, lifter blade, gearing device, supporter, sealing device and other component. It is of simple structure, high capacity, lower consumption and easy maintenance.  
To dry the mineral rocks, coal, Calcium superphosphate, there is burner in the dryer which can generate flue gas. The fuel can be coal, oil, natural gas, liquid gas, etc.

### ❖ Technical Parameters

Model	Temperature (°C)	Power (KW)	Capacity ( t/h)	N.W (T)
GZ $\phi$ 800 *8000	$\leq 700$	4-6	0.8-2.0	3.5
GZ $\phi$ 1000 *10000	$\leq 700$	5.5-7.5	1.0-3.5	5.6
GZ $\phi$ 1200 *10000	$\leq 700$	11-13	1.8-5	14.04
GZ $\phi$ 1500 *12000	$\leq 800$	13-15	3.3-7.5	17.76
GZ $\phi$ 1800 *14000	$\leq 800$	18.5	5-9	29
GZ $\phi$ 2200 *12000	$\leq 700$	22	6-12	33
GZ $\phi$ 2400 *18000	$\leq 800$	30	10-15	53.5

## Jiangtai Shaking Table

### ❖ Shaking Table



### ❖ Technical Parameters

Model	Temperature (°C)	Power (KW)	Capacity ( t/h)	N.W (T)
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GZ $\phi$ 1000 *10000	$\leq 700$	5.5-7.5	1.0-3.5	5.6
GZ $\phi$ 1200 *10000	$\leq 700$	11-13	1.8-5	14.04
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GZ $\phi$ 2200 *12000	$\leq 700$	22	6-12	33
GZ $\phi$ 2400 *18000	$\leq 800$	30	10-15	53.5

## Jiangtai Spiral Gravity Chute

### ❖ Spiral Gravity Chute



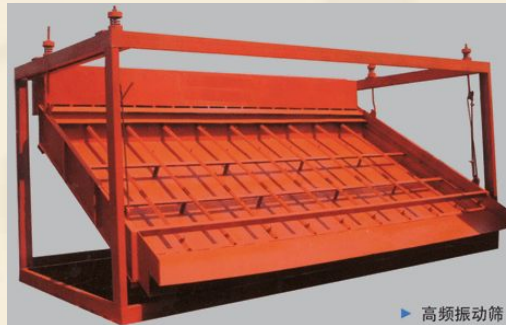
### ❖ Technical Parameters

Model	Temperature (°C)	Power (KW)	Capacity ( t/h)	N.W (T)
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GZ $\phi$ 2200 *12000	$\leq 700$	22	6-12	33
GZ $\phi$ 2400 *18000	$\leq 800$	30	10-15	53.5



## Jiangtai High Frequency Screen

### ❖ High Frequency Screen



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To dry the mineral rocks, coal, Calcium superphosphate, there is burner in the dryer which can generate flue gas. The fuel can be coal, oil, natural gas, liquid gas, etc.

### ❖ Technical Parameters

Model	Temperature (°C)	Power (KW)	Capacity ( t/h)	N.W (T)
GZ Φ 800 *8000	≤700	4-6	0.8-2.0	3.5
GZ Φ 1000 *10000	≤700	5.5-7.5	1.0-3.5	5.6
GZ Φ 1200 *10000	≤700	11-13	1.8-5	14.04
GZ Φ 1500 *12000	≤800	13-15	3.3-7.5	17.76
GZ Φ 1800 *14000	≤800	18.5	5-9	29
GZ Φ 2200 *12000	≤700	22	6-12	33
GZ Φ 2400 *18000	≤800	30	10-15	53.5

## Mingyuan Spare Parts

