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CLASSIFIER



探宝

Founded in 1977

KUNMING CIBA DIGGINGS MACHINERY CO., LTD

厂区效果图
Effect drawing of plant area



Kunming Ciba Diggings Machinery Co., Ltd., founded in 1977, is attached to Yunnan Noah's Ark Group. It is a high-tech company with business covering industrial process design, product research and development (R&D) and manufacturing. Over the past 40 years, the company has been investing in product innovation and R&D, and obtained more than 40 patents on technologies. Furthermore, it has brought in and learned internationally advanced technologies in screening and conveying to keep relevant to the time.

Since the company registered its trademark named "Caibao" 40 years ago, it has gotten considerable experience during serving its customers, including a good knowledge of ore dressing, aggregate crushing and conveying of food and beverage. Based on the experience, the investment in R&D and the professional technical group, Ciba machinery is competent to offer comprehensive services such as industrial process design, complete equipment supply and trainings for installation, adjustment and maintenance.

The company has more than 200 employees, including over 30 researchers and designers, 6 senior engineers, 10 professional engineers, 15 assistant engineers and 2 talents leading regional-level high-tech enterprises. In addition, Ciba Machinery enjoys a provincial-level technological center in Yunnan province, which consists of divisions of industrial process design, product R&D and technology development; the 3 divisions form a vital technological innovation system. Meanwhile, we have carried

out in-depth cooperation and technical exchanges with reputable companies from United States and Italy to bring in advanced technologies and ideas.

With constant technological R&D and international communications, our company's technologies reached international level, and our products are widely recognized and complimented in international market. Today, our products are exported to more than 20 countries and regions such as South America, North America, Australia, Indonesia, Malaysia, Thailand, Myanmar, Vietnam, Laos, India, and Africa.

In the year 2003, our company took the lead in passing the ISO9001 quality management system certification among other domestic counterparts. In addition, it was honored with "a high-tech company", "certificate of company-level technological center in Yunnan Province", "a growing small and medium-sized company in Yunnan" and "a pilot company for S&T innovation in Kunming". The GK screener developed and produced by our company was honored with one of the industrialized demonstration programmes. The "Caibao" branded vibrating screen and ball mill are honored with well-known trademark in Yunnan, and its flotation machines and crushers with Famous Trademark in Kunming.

Over the past 40 years, in the spirit of "fraternity and gratitude", our company, based on technological research, scientific and standardized production, operation and management, and superior after-sales service, has been working jointly with domestic and overseas customers to seek common growth and brilliant future.



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Spiral Classifier

The spiral classifier is a new-generation high-performance product, which are produced from the combination of creative design and actual application. It is applied to classification following grinding in mineral processing, to desliming and dewatering in ore washing, to sand washing in aggregate processing, etc. Advantages of the equipment are simple structure, stable and reliable performance and convenient operation, and it could follow a ball mill to form a closed-circuit processing.



Depending on the height of overflow weir, the classifiers can be divided into high-weir type and submerged type. The high-weir type is suitable for coarse particle classification with overflow size greater than 0.15mm. For the submerged type classifier, the spiral at the overflow end is submerged in the slurry in the settling area; the settling area, wide and deep, is applicable to fine particle classification to achieve overflow size lower than 100 meshes.

Depending on the quantity of spiral shaft, the classifiers can be divided into single-spiral type and double-spiral type. Single-spiral classifier is indicated as FG (FC) -20 and double-spiral classifier is indicated as: 2FG (FC) -20

The spiral shaft is welded with seamless steel pipes or rolled-up long steel plates; the method the shaft is made reduces transverse weld joints and shaft breakage.



A classifier works with a ball mill to form a closed circuit, so as to control particle sizes of grinding product, make grinding more efficient and reduce overgrinding.



The classifier tank, welded with high quality structural steel plates and square pipes, is of high strength and not prone to distortion during hoisting and transportation.



Hoop shaped blade supports are easy for assembly, disassembly, and replacement of worn parts.



As blades and iron liners are combined to be used, worn blades or liners can be replaced separately. The iron liners forged with wear-resistant white iron show a long service life.

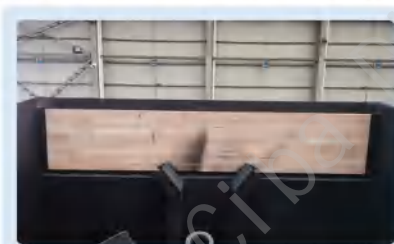




The electric lifting device is used to lift the lower end of the spiral in the case of the classifier's start, unexpected shutdown, maintenance or overhaul. To ensure safe lifting, it is equipped with an automatic stop gear.



The motor drives the spiral shaft through the belt wheel, reduction gear and gear pair stably and reliably.



There is a wooden baffle at the overflow end of the classifier tank to adjust the height of the weir, so as to control classification effect and the classifier's capacity.



The special sealing of rear bearing keeps the slurry from entering the bearing, extending the service life of the bearing.

Main performance parameters of spiral classifier (1)

Type	Model	Spiral diameter (mm)	Rotational speed of the spiral (r/min)	Capacity		Motor power (kw)	Lifting motor power (kw)	Weight (T)
				Overflow(t/d)	Sands(t/d)			
High weir type	FG-750	φ 750	6 ~ 10	115	339	3	手动	3
	FG-1000	φ 1000	4.3 ~ 7.4	160-260	400 ~ 700	5.5	手动	4.8
	FG-1200	φ 1200	4 ~ 8	200	1382 ~ 2765	5.5	2.2	8.9
	2FG-1200	φ 1200	4 ~ 8	350	2340 ~ 3180	5.5 × 2	2.2 × 2	16.2
	FG-1500	φ 1500	2.5 ~ 6	230	1120 ~ 2680	11	2.2	12.2
	2FG-1500	φ 1500	4 ~ 6	500 ~ 550	3000 ~ 5000	11 × 2	2.2 × 2	21.6
	FG-2000	φ 2000	3.5 ~ 5	650	3700 ~ 5940	15	2.2	20.6
	2FG-2000	φ 2000	3.5 ~ 5	1200	7780 ~ 11880	15 × 2	2.2 × 2	37
	FG-2400	φ 2400	3.6	580	6800	18.5	3	26
	2FG-2400	φ 2400	3.6	1150	13500	18.5 × 2	3 × 2	46.5
FG-3000	φ 3000	3.2	900	11700	22	4	41.5	
2FG-3000	φ 3000	3.2	1785	23300	22 × 2	4 × 2	73	

Main performance parameters of spiral classifier (2)

Type	Model	Spiral diameter (mm)	Rotational speed of the spiral (r/min)	Capacity		Motor power (kw)	Lifting motor power (kw)	Weight (T)
				Overflow(t/d)	Sands(t/d)			
Submerged type	FC-750	φ 750	6 ~ 10	40	200 ~ 445	3	手动	3.8
	FC-1000	φ 1000	5.5	110	675 ~ 1080	5.5	手动	5.6
	FC-1200	φ 1200	5 ~ 7	114	1166 ~ 1633	7.5	2.2	12
	2FC-1200	φ 1200	5 ~ 7	228	2330 ~ 3266	7.5 × 2	2.2 × 2	19.87
	FC-1500	φ 1500	2.5 ~ 6	185	1140 ~ 2740	11	2.2	15.8
	2FC-1500	φ 1500	2.5 ~ 6	370	2290 ~ 5480	11 × 2	2.2 × 2	27.5
	FC-2000	φ 2000	3.5 ~ 5	320	3210 ~ 5940	15	2.2	29
	2FC-2000	φ 2000	3.5 ~ 5	640	7780 ~ 11880	15 × 2	2.2 × 2	50
	FC-2400	φ 2400	3.6	400	3900 ~ 7200	18.5	3	37.5
	2FC-2400	φ 2400	3.6	800	7800 ~ 14400	18.5 × 2	3 × 2	65.5
FC-3000	φ 3000	3.2	710	11700	22	4	47.5	
2FC-3000	φ 3000	3.2	1400	23300	22 × 2	4 × 2	85	

Sales network in the map



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