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VIBRATING SCREEN AND FEEDING EQUIPMENT



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.



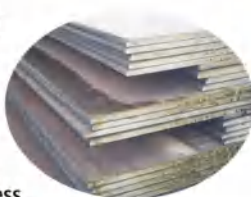
云南省认定
企业技术中心

云南省工业和信息化委员会 云南省发展和改革委员会 云南省科学技术厅
云南省财政厅 云南省国家税务局 云南省地方税务局 昆明海关



The whole product structure has been optimized and designed, using excellent processing equipment, welding technology, skilled workers and complete quality inspection and quality management system, so as to ensure the product quality. So far, Kunming CiBa has made a track record of more than 5000 Caibao brand vibrating screening equipment in China and Southeast Asia mining market.

Side plates are made of high-quality structural steel plates. Without weld joints, the side plates are absolutely free from deformation and breakage caused by weld thermal stress.



Rolled angle steel is used as stiffeners to ensure uniform distribution of load on the side plates, so as to protect the side plates from distortion.



The products of the whole series adopts ZWZ or DYZV bearings, ensuring the exciter a long-term stable operation and averting frequent bearing replacement.



Mating surfaces of all crossbeams, supporting beams and exciter beams are precisely processed by machine tools before assembly to ensure no seam between the side plate and the beam.

The steel structures are completely riveted with bolts. All replaceable parts are jointed with high strength bolts of self-locking nuts. Important parts need to be adjusted after assembly are also connected with high-strength bolts. All this ensure the screen more wear resistant.



Note: All dimensions in this brochure are designed based on relevant industrial standards. Maximum width of the vibrating screens is 3.6m, and maximum length is 7.8 meters. Additionally, equipment with other dimensions can be customized according to the requirements of users.



Technical advantages

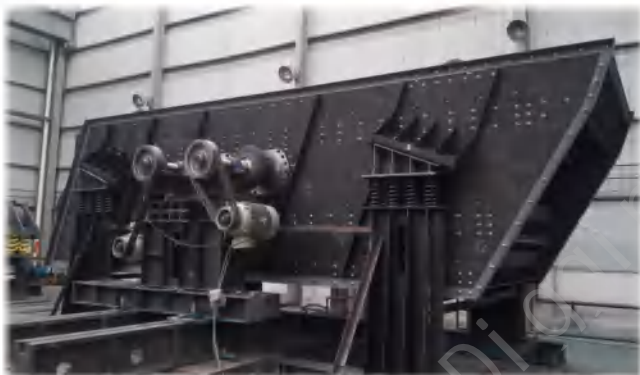
- 1 • Modular deck supports are riveted with side plates; the connection without weld joints makes the screen more wear resistant.
- 2 • Top surface of screen support tubes where materials go across are protected with tiles from wear and damage to extend their service life.
- 3 • Ore landing area is equipped with imported replaceable anti-wear liners to avoid material directly falling onto the deck, so as to reduce the impact on the deck and extend its service life.



YA Series Circular Vibrating Screen

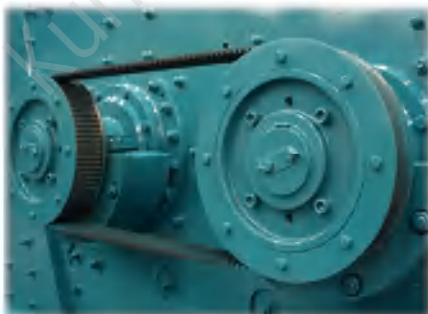
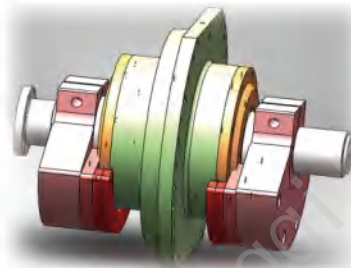


Screen Selection Guides



The optimally designed circular motion screen is of easy maintenance, stable and efficient screening, markedly advantaging over other peer screeners.

The exciter is designed with an external eccentric block. The resultant force caused by the exciter passes through the thickness center of side plates; tension and pressure are imparted on the side plate while bending moment is not, as a result, force condition of the screen box is greatly improved. Compared with a shaft eccentric vibrator, the eccentric block exciter produces greater exciting force and make itself lighter to repair and replacement. Exciters is connected with cardan joints, to make them flexible installation and replacement and long service life.



The transmission pulley belt of large vibrating screen adopts synchronous belt structure that is simple and easy for maintenance.

The motor of a large vibrating screen is connected with the exciter through a transmission device to ensure it a longer service life. The vibrating frequency can be adjusted by replacing the belt wheel.



- * Generally, single-, double- and triple-deck screens are offered. Screens with over 3 decks can be customized to employ in distinct occasions.
- * The screen decks are made of stainless steel, polyurethane or composite materials of stainless and polyurethane, which can be selected accordingly.
- * Based on the conditions of application, the screen can be installed to be seated or hung and driven from the left or right. The screen is installed to be inclined with the inclination of the order of $18^{\circ} - 23^{\circ}$. A less inclination means higher probability of passing through but lower throughputs; while a relatively steep installation is preferred for higher throughputs but the quality of separation is likely to be affected. The slope, usually at about 20° , is depending on material characteristics, separation size, etc.
- * When placing an order, please tell the model, quantity, aperture size and type, angle of installation.
- * The motor can be installed on the left or right, if the motor is required to install on the right, please mark it in advance, otherwise left-motor type will be supplied.



Main technical parameters of YA Series Circular Vibrating Screen

No.	Model	Area of screen surface (m ²)	Quantity of deck	Angle of inclination (°)	Double amplitude (mm)	Vibrating frequency (r/min)	Capacity (t/h)	Max feed size (mm)	Motor power (kw)	Weight (t)	
1	YA-918	1.62	1	18-23	7-10	900	15-90	<150	2.2	0.8	
2	2YA-918		2						2.2	1.1	
3	YA-927	2.43	1				3		0.9		
4	2YA-927		2							3	1.2
5	YA-1224	2.88	1				4		2		
6	2YA-1224		2							4	2.3
7	3YA-1224		3							7.5	2.8
8	YA-1230	3.6	1				5.5		2.2		
9	2YA-1230		2							5.5	2.6
10	3YA-1230		3							7.5	3.1
11	YA-1536	5.4	1	18-23	7-10	825	50-300	<200	11	3.5	
12	2YA-1536		2						15	5.2	
13	3YA-1536		3						15	6.8	
14	YA-1548	7.2	1				11		4.2		
15	2YA-1548		2							15	5.9
16	3YA-1548	6.48	3				22		7.8		
17	YA-1836		1							15	4.4
18	YA-1848		1							15	5.4
19	2YA-1848	8.64	2				18.5		6.9		
20	3YA-1848		3							22	8.5
21	YK-2148	10.08	1	18.5	5.7						
22	2YA-2148		2			22	7.7				
23	3YK-2148		3			30	9.9				
24	YK-2160	12.6	1	22	6.8						
25	2YK-2160		2			30	9.2				
26	3YK-2160		3			37	13.7				
27	YK-2460	14.4	1	22	7.1						
28	2YK-2460		2			30	9.8				
29	3YK-2460		3			37	15.1				
30	2YK-2472	17.28	2	30	11						
31	YK-3060		1			22	7.9				
32	2YK-3060	18	2	30	13.3						
33	3YK-3060		3			37	18.6				
34	YK-3072		1			30	10.2				
35	2YK-3072	21.6	2	37	16.3						
36	3YK-3072		3			2x30	25.6				
37	YK-3678	20.08	1	37	16.8						
38	2YK-3678		2			2x30	26				
39	3YK-3678		3			2x45	32.8				

Note: 1. Parameters in the table may vary based on parts selected and distinct customer requirements.

Actual parameters in final drawings prevail.

2. The capacity varies on the basis of materials, feed sizes and other factors.

ZKB Series Linear Vibrating Screen



The complete structure is optimized and designed to a brand new. The vibrator support and side plates are bolted. Location of the vibrator can adjust to serve actual needs to achieve the good performance.

As material on the deck of the linear motion screen moves upward at an angle of 30° -45° to the screen surface, the probability of a particle passing through the screen is high, and thus the separation efficiency is improved. The linear screen is mainly used for separation of coarse materials and it could also perform dewatering.

With a flexible coupling, the motor will not be effected by the vibration of the screen. The screen has advantages of non-demanding installation, stable operation, and fine vibration locus.



Screen Selection Guides



* Single- and double-deck screens are on offer.

* Screen decks made of stainless steel, polyurethane and composite of stainless steel are on offer.

* The deck can be horizontally installed or installed at an inclination angle of -10° - 5° . The inclined decks can be installed with the discharge end higher than the feed end (upslope) or the feed end higher than the discharge end (downslope). Installation angle can be set appropriately by users based on operation conditions.

* When placing an order, please specify the model, quantity, aperture dimension and type, angle of inclination.

* The motor can be installed on the left or right, if the motor is required to install on the right, please mark it in advance, otherwise left-motor type will be supplied.

Main technical parameters of ZKB Series Linear Vibrating Screen

No.	Model	Area of screen surface (m ²)	Quantity of deck	Angle of inclination (°)	Double amplitude mm	Vibrating frequency (r/min)	Capacity (t/h)	Max feed size (mm)	Motor power (kw)	Weight (t)
1	ZKB-1236	4.32	1	-5~+5	7-10	825	20-180	150	2x5.5	2.8
2	2ZKB-1236		2				2x7.5		4.6	
3	ZKB-1248	1	27-240				2x7.5	3.2		
4	2ZKB-1248	2	2x11				5.1			
5	ZKB-1536	1	26-225				2x5.5	3.5		
6	2ZKB-1536	2	2x11				5.3			
7	ZKB-1548	1	35-300				2x7.5	4.5		
8	2ZKB-1548	2	2x11				5.7			
9	ZKB-1848	1	40-360				2x11	6.1		
10	2ZKB-1848	2	2x15				9.2			
11	ZKB-2148	10.08	1	200	48-420	2x11	6.5			
12	2ZKB-2148	2	2x15		10					
13	ZKB-2460	1	68-600		2x15	9.4				
14	2ZKB-2460	2	2x22		13.8					
15	ZKB-3060	18	85-750		2x18.5	12				
16	2ZKB-3060	2	2x22		17.1					
17	ZKB-3072	21.6	1		100-900	2x22	14.1			
18	2ZKB-3072	2	2x30		22					
19	ZKB-3672	25.92	1		120-1100	2x30	19.5			
20	2ZKB-3672	2	2x37		27					

Note: 1. Parameters in the table vary based on parts selected and distinct customer requirements. Actual parameters in final drawings prevail.

2. The capacity varies on the basis of materials, feed sizes and other factors.



Efficient ZKJ Series Linear Vibrating Screen



The efficient ZKJ series linear motion screen is a new screen developed independently by Kunming Ciba Mining Machinery. It is mainly used for material classification, desliming, dewatering and medium removal in mining, coal, building material, electricity, chemistry and other industries.

ZKJ screens vibrate with a linear motion or an almost linear motion. As materials on the deck moving upward at an angle of 30° -60° to the screen surface ensure a high probability of particles passing through the screen, the separation efficiency is improved. This type of screen is mainly used to screen fine materials, furthermore, it is used for dewatering.



The exciter crossbeam gets all its mating surfaces machined after stress removal annealing treatment. The crossbeam plays a key role in the performance of the screen. All weld joints meet relevant special requirements, and Chinese weld standards.



The exciter crossbeam is made of light cylinder- or box-shaped beam structure with high flexural and torsional resistances and stiffness. The crossbeam is professionally designed to withstand all excitation force generated by the exciter.





Screen Selection Guides

- * Single- and double-deck screens are on offer.
- * Screen decks made of stainless steel, polyurethane and composite of stainless steel are on offer.
- * The deck can be horizontally installed or installed at an inclination angle of -5° - 5° . The inclined decks can be installed with the discharge end higher than the feed end (upslope) or the feed end higher than the discharge end (downslope). Installation angle can be set appropriately by users based on operation conditions.
- * When placing an order, please specify the model, quantity, aperture dimension and type, and angle of inclination.



The vibrating motor functions as the vibration source, making the screen energy-efficient, high-output, simple-structure and easy to maintenance and repair.

Main technical parameters of efficient ZKJ Series Linear Vibrating Screen

No.	Model	Area of screen surface (m ²)	Angle of inclination n (°)	Double amplitude (mm)	Vibrating frequency (r/min)	Capacity (t/h)	Max feed size (mm)	Motor power (kw)	Weight (t)
1	ZKJ-1236	4.32	-5~+5	7-10	970	20-180	200	2x2.6	2.6
2	2ZKJ-1236							2x4.5	3.7
3	ZKJ-1248	5.76				27-240		2x4.5	3.2
4	2ZKJ-1248							2x5	5.2
5	ZKJ-1536	5.4				26-225		2x4.5	4.1
6	2ZKJ-1536							2x7	6.2
7	ZKJ-1548	7.2				35-300		2x5	4.7
8	2ZKJ-1548							2x7	7.1
9	ZKJ-1848	8.64				40-360		2x6.2	5.7
10	2ZKJ-1848							2x7	7.8
11	ZKJ-2148	10.08	48-420	2x7	6.5				
12	2ZKJ-2148			2x11	10				
13	ZKJ-2460	14.4	68-600	2x12	9.4				

Note: 1. Parameters in the table vary based on parts selected and distinct customer requirements.

Actual parameters in final drawings prevail.

2. The capacity varies on the basis of materials, feed sizes and other factors.

Sales network in the map

