



698 Longquan Road, Panlong District, Kunming City, Yunnan Province



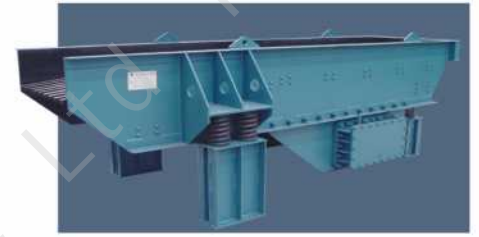
TEL : +86 871 65150398

FAX: +86 871 65217071



E-mail: [caibao@yncb.cn](mailto:caibao@yncb.cn)

<http://www.yncb.cn>



# ORE FEEDER



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



# GZT Series Grizzly Feeder



GZT series grizzly feeder is mainly used for uniform, regular and continuous feeding of lump materials while rough screening. It can be started up with material loaded. It is widely applied in crushing-screening operation in metallurgical, coal, mineral processing, building material, chemistry, grinding and other industries.



Inlet end of the grizzly feeder trough is made of high-strength frame which is durable and resistant to impact of large sized materials.

The vibrator support and the side plate are bolted. The position of the vibrator can be adjusted properly to serve actual needs, so as to achieve the best performance.



The discharging end is made with casted alloy bars to perform a rough screening without blinding the screening interval and ensure a long service life.



Flexible couplings are adopted to keep the motor from the vibration of the screen. The couplings ensure the screen easy installation, stable operation and vibration motion.



The springs for vibration damping are made of high quality steel with good elasticity and vibration reducing.



## Equipment Selection Guides

- \* When placing an order, please specify the model, quantity, aperture dimension, 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.



## Principal technical parameters

| Model    | Area of feed trough (m <sup>2</sup> ) | Angle of inclination (°) | max feeding particle size (mm) | Double amplitude (mm) | Vibration frequency (times/min) | Capacity (t/h) | Motor power (kw) | Weight (t) |
|----------|---------------------------------------|--------------------------|--------------------------------|-----------------------|---------------------------------|----------------|------------------|------------|
| GZT-0938 | 3.65                                  | 5                        | 400                            | 7-10                  | 850                             | 150-190        | 15               | 6.7        |
| GZT-1248 | 5.76                                  |                          | 250-300                        |                       |                                 | 18.5           | 7.7              |            |
| GZT-1360 | 7.8                                   |                          | 330-400                        |                       |                                 | 22             | 9.8              |            |
| GZT-1548 | 7.2                                   |                          | 310-370                        |                       |                                 | 22             | 8.4              |            |
| GZT-1560 | 9                                     |                          | 390-460                        |                       |                                 | 30             | 10.2             |            |
| GZT-1860 | 10.8                                  |                          | 450-560                        |                       |                                 | 30             | 12.9             |            |

- \* 1. Parameters in the table vary based on parts selected and customer requirements. Actual parameters in final drawings prevail.
- \* 2. The capacity varies on the basis of materials, feeding particle sizes and other factors.

## GZG Series Self Synchronizing Inertia Vibrating Feeder

A GZG series self-synchronous inertial vibrating feeder is used to feed certain amount of materials in lump, grain and powder from storage bin or hoppers into a receiving device uniformly, continuously. For instance, it feeds or proportionates materials to crushing, coal beneficiation, screening, conveying or packaging equipment. It is a feeding equipment with advanced economic and technical indicators.



### Outstanding advantages

- \* Small dimension, light weight, simple and compact in structure.
- \* Easy installation, maintenance and overhaul, low running cost.
- \* Efficient, high feeding capacity.
- \* Low noise, good for working environment.
- \* Low power consumption, high power factor.
- \* As the equipment operate at a frequency far from resonance, it enjoys a stable amplitude, reliable operation and availability to various materials.
- \* With the help of motor speed regulator, the feeding quantity can be easily and continuously variable adjusted without altering the eccentric block.



### Principal technical parameters

| Model    | Size of feed trough (m <sup>2</sup> ) | Angle of inclination (°) | Max feed size (mm) | Double amplitude (mm) | Vibrating frequency (times/min) | Capacity (t/h) | Motor power (kw) | Weight (t) |
|----------|---------------------------------------|--------------------------|--------------------|-----------------------|---------------------------------|----------------|------------------|------------|
| GZG-805  | 800x1500x250                          | 0~10                     | 150                | 3-6                   | 1000                            | 160-230        | 2x0.75           | 0.7        |
| GZG-905  | 900x1500x250                          |                          | 180-250            |                       |                                 | 2x1.1          | 0.8              |            |
| GZG-1005 | 1000x1750x315                         | 0~10                     | 200                | 3-6                   | 1000                            | 270-380        | 2x1.1            | 0.9        |
| GZG-1105 | 1100x1750x315                         |                          |                    |                       |                                 | 320-420        | 2x1.1            | 1          |
| GZG-1255 | 1250x2000x315                         |                          |                    |                       |                                 | 400-550        | 2x1.5            | 1.3        |

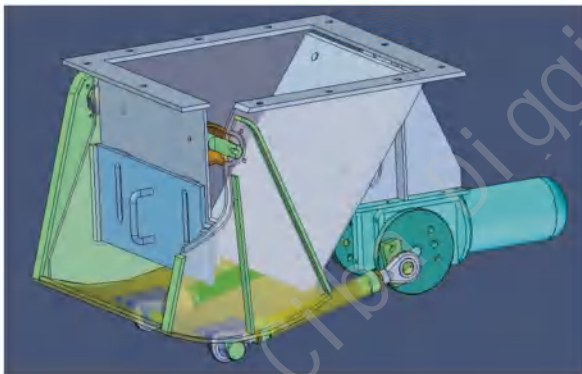
### Note

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.
3. In terms of the last number of the model, "3" and "4" refer to 4-pole vibration motor while "5" and "6" refer to 6-pole.
4. In terms of the last number of the model, "3" and "5" refer to light-duty feeding trough while "5" and "6" refer to heavy-duty.
5. GZG805 stands for the feeding trough length is 800mm and equipped with a 6-pole inertial motor, and it is light-duty type.



## BG Swing Ore Feeder

The machine is mainly applicable to the pre-grinding feeding of ore with less than 60mm, low water content, less mud content and small particle size of various mines and dressing plants. The feeding is intermittent; uniform and can be measured. It is hanging installed under the opening at the bottom of the hopper.



Its working principle is: the swing bucket is driven by the eccentric disc and connecting rod on the motor and reducer to swing back and forth, so as to realize ore feeding. The feeding capacity can be adjusted by the opening size at the discharging end and the eccentric distance of the eccentric disc. Under normal condition, adjust the opening size alone will be enough to meet the requirements.

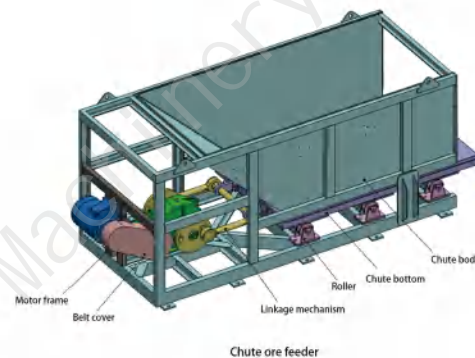
### Principal technical parameters

| Model      | Dimension of Inlet (mm) | Maximum Feeding Granularity (mm) | Swinging times (time/min) | Swing Journey (mm) | Throughput (t/h) | Motor Power (kw) | Weight (kg) |
|------------|-------------------------|----------------------------------|---------------------------|--------------------|------------------|------------------|-------------|
| BG-400×400 | 400×400                 | 35                               | 49                        | 0~180              | ≤12              | 1.5              | 250         |
| BG-600×600 | 600×600                 | 50                               | 49                        | 0~180              | ≤25              | 1.5              | 400         |
| BG-800×800 | 800×800                 | 50                               | 49                        | 0~180              | ≤35              | 2.2              | 700         |
| BG-900×900 | 900×900                 | 50                               | 49                        | 0~180              | ≤60              | 4                | 800         |

\* This machine has features of simple structure and convenient adjustment, operation and maintenance.

## CG Chute Ore Feeder

The machine is widely used in mining, metallurgy, chemical industry, coal and other sectors. It is applicable to the feeding of ore with low water content, less powder content and medium particle size. The feeding of the machine is intermittent, and is suspended on the material discharge outlet at the bottom of the ore hopper.



Its working principle is that the motor drives the eccentric wheel on the reducer, and then drives the bottom of the chute to reciprocate through the eccentric wheel and connecting rod, so as to feed the ore. The capacity of the ore feeding can be realized by adjusting the eccentric distance of the eccentric wheel.

### Principal technical parameters

| Model        | Dimension of inlet (mm) | Maximum Feeding Particle Size (mm) | Swing times (time/min) | Swing journey (mm) | Throughput (t/h) | Motor power (Kw) | Weight (t) |
|--------------|-------------------------|------------------------------------|------------------------|--------------------|------------------|------------------|------------|
| CG-600×500   | 600×500                 | 200                                | 39                     | 120-180            | ≤45              | 4                | 1          |
| CG-980×1240  | 980×1240                | 350                                | 25                     | 120-240            | ≤45              | 7.5              | 1.6        |
| CG-980×2000  | 980×2000                | 350                                | 25                     | 120-240            | ≤45              | 7.5              | 1.8        |
| CG-1300×1600 | 1300×1600               | 500                                | 30                     | 240-300            | ≤100             | 11               | 2.8        |
| CG-1500×2300 | 1500×2300               | 600                                | 30                     | 120-240            | ≤200             | 15               | 4.1        |

\* This machine is simple in structure and easy to operate and maintain.

## Belt Feeder

Belt feeder is mainly used for feeding small pieces of materials before ball milling, and the size is generally  $\leq 25$  mm. Compared with other types of feeding equipment, it features low power consumption, low self-weight, simple structure, convenient operation and maintenance, reliable operation, and low operating cost. The belt feeder is suitable for working in ambient between  $-15^{\circ}$  to  $+40^{\circ}$ , and adapts to different sites. It can be loaded and unloaded at any time and the conveying angle can be changed at any time.



- 1 • It is equipped with a variable-frequency adjustable-speed motor, with flexible and wide adjustment range of feeding volume.
- 2 • The conveying angle can be changed flexibly, which can effectively solve the failure of smooth feeding due to height difference.
- 3 • The electronic belt scale can be added according to the customer's demand for accurate and dynamic measurement of the conveying capacity, and automatic control can also be realized through the PLC system.

### Principal technical parameters

| Model  | Belt Size       |                  | Belt Speed (m/s) | Feeding particle size (mm) | Processing Capacity (t/h) | Motor Power (kw) |
|--------|-----------------|------------------|------------------|----------------------------|---------------------------|------------------|
|        | Belt Width (mm) | Belt Length (mm) |                  |                            |                           |                  |
| B=500  | 500             | 3000~10000       | 0.08~0.15        | $\leq 25$                  | $\leq 60$                 | 2.2~4            |
| B=650  | 650             |                  | 0.25~0.4         | $\leq 25$                  | $\leq 120$                | 3~7.5            |
| B=800  | 800             |                  | $\leq 0.26$      | $\leq 25$                  | $\leq 150$                | 4~11             |
| B=1000 | 1000            |                  | $\leq 0.5$       | $\leq 25$                  | $\leq 200$                | 7.5~30           |

## ZSW Vibrating Feeder

The products of this series are characterized by smooth vibration, reliable work, long life, large processing capacity and large transport lumpiness, etc. They can provide continuous and even feeding for crushing machinery and primary screening of materials, and are widely used in mining, construction materials, chemical industry, smelting, water conservancy and other sectors.



### Principal technical parameters

| Model       | Dimension of Chute (L×W) (mm) | Maximum feeding particle size (mm) | Processing capacity (t/h) | Motor power (Kw) | Weight (t) |
|-------------|-------------------------------|------------------------------------|---------------------------|------------------|------------|
| ZSW-330×70  | 3300×700                      | 350                                | 40~90                     | 2×2.5            | 2.1        |
| ZSW-380×96  | 3800×960                      | 500                                | 50~160                    | 11               | 4.5        |
| ZSW-490×110 | 4900×1100                     | 600                                | 120~240                   | 15               | 5.8        |
| ZSW-490×150 | 4900×1500                     | 700                                | 120~250                   | 22               | 7.2        |

# Heavy-duty Slat Feeder

The slat feeder is designed for feeding materials before rough crushing and ball milling. Its feeding is mandatory and the ore hopper can be fully loaded to feed the ore materials.

It is especially suitable for materials with heavy water content, large particle size and large wear.

The equipment can be installed obliquely. The materials in the ore hopper shall not be unloaded in order to avoid direct impact of large materials on the equipment.

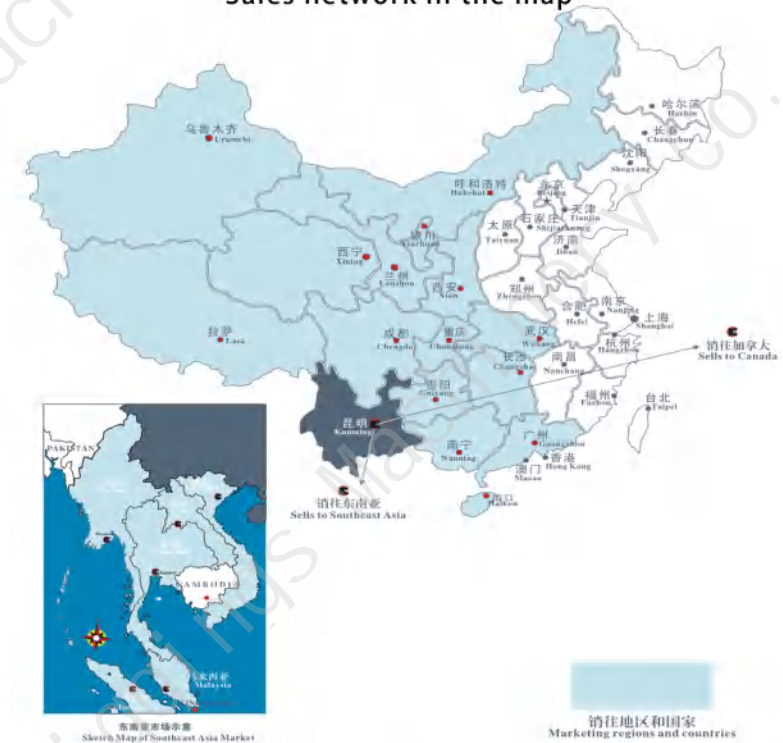


1. The driving device adopts a planetary modular reducer, which prolongs the service life compared with the traditional structure.
2. SD190A-3 special caterpillar chain is adopted for the link plate device, and the link plate is cast and molded with high-quality materials, with good impact and wear resistance.
3. The transmission device is installed in the form of locking, making it simple to disassemble and easy to maintain.
4. The support frame adopts high-quality plates and various profiles, which are impact-resistant with high strength.
5. Special supporting roller assemblies of the excavator and tank are employed. The support shaft adopts UCF bearing drive, and the support surface is treated with high-frequency quenching.

## Principal technical parameters

| Model       | Specification            |                           | Speed (m/s) | Feeding particle size (mm) | Feeding capacity (m <sup>3</sup> /h) | Motor power (kw) | Dimension (L x W x H) (mm) | Weight (t) |
|-------------|--------------------------|---------------------------|-------------|----------------------------|--------------------------------------|------------------|----------------------------|------------|
|             | Width of link plate (mm) | Length of link plate (mm) |             |                            |                                      |                  |                            |            |
| GBZ800-8    | 800                      | 8000                      | 0.01~0.09   | ≤350                       | 90~170                               | 11               | 8886x2281x1154             | 14.7       |
| GBZ1000-8   | 1000                     | 8000                      |             | ≤450                       | 130~280                              | 15               | 8886x2607x1154             | 16.5       |
| GBZ1200-5.5 | 1200                     | 5500                      |             | ≤550                       | 190~410                              | 11               | 6437x3208x1154             | 12.6       |
| GBZ1200-8   | 1200                     | 8000                      |             | ≤550                       | 190~410                              | 18.5             | 8886x2872x1154             | 18.2       |
| GBZ1500-8   | 1500                     | 8000                      |             | ≤700                       | 280~600                              | 22               | 9083x3321x1339             | 25.3       |
| GBZ1800-8   | 1800                     | 8000                      |             | ≤850                       | 420~850                              | 30               | 9083x3621x1339             | 28.0       |
| GBZ2200-10  | 2200                     | 10000                     |             | ≤1000                      | 500~1100                             | 45               | 11831x4640x1604            | 49.4       |

## Sales network in the map



※Our company reserves the right to change and interpret the text, pictures and data in this brochure.