

# Ball Mill



Henan Liming Road & Bridge Heavy Industry Co., Ltd

Ball mill is used to grind all kinds of mines and other materials and is widely used in mineral and separation, building materials and chemical industry, etc and is divided into different types. According to different grinding method: dry grinding and wet grinding ; according to the different materials-discharging method: grid type and overflow type. The ball mill is key equipment for the materials to be grinded after being crushed. It is also widely used in producing industries such as cement, calcium silicate concrete, new type building materials, and chemical fertilizer, ore dressing for black and non-ferrous materials.



## Usage

The ball mill is a key equipment to grind the crushed materials, and the ball mill is widely used in powder-making production line including cement, silicate, new-type building material, refractory material, fertilizer, ore dressing of ferrous metal and non-ferrous metal, glass ceramics, etc, and the ball mill can grind various ores and other materials with dry type and wet type. There are two kinds of ball mill, grate type and overfall type due to different ways of discharging material.

The ball mill is a horizontal rotating device transmitted by the outer gear. The materials are transferred to the grinding chamber through the quill shaft uniformly. There are ladder liner and ripple liner and different specifications of steel balls in the chamber. The centrifugal force caused by rotation of barrel brings the steel balls to a certain height and impact and grind the materials. The ground materials are discharged through the discharging board thus the grinding process is finished.



## Maintenance

- To check ground bolts, bolts on lining board and access door regularly. To ensure no loose on them.
- To check the oiling points every one-hour. To ensure temperature on the main shafts is below 70°C, and the decelerator below 55°C.
- To ensure no water, oil, material leakages.
- To record the current of motor, any abnormal changes, production should be stopped.
- To notice noise from gears



Model	Speed of bucket (r/min)	Weight of ball (t)	Size of feed opening (mm)	size of outputting feed (mm)	Production (t/h)	Power (kw)	Weight (t)
Φ900×1800	38	1.5	≤20	0.075-0.89	0.65-2	18.5	3.6
Φ900×3000	38	2.7	≤20	0.075-0.89	1.1-3.5	22	4.6
Φ1200×2400	32	3.8	≤25	0.075-0.6	1.5-4.8	45	12.5
Φ1200×3000	32	5	≤25	0.075-0.4	1.6-5	45	12.8
Φ1200×4500	32	7	≤25	0.075-0.4	1.6-5.8	55	13.8
Φ1500×3000	27	8	≤25	0.075-0.4	2-5	90	17
Φ1500×4500	27	14	≤25	0.075-0.4	3-6	110	21
Φ1500×5700	27	15	≤25	0.075-0.4	3.5-6	132	24.7
Φ1830×3000	24	11	≤25	0.075-0.4	4-10	180	28
Φ1830×6400	24	23	≤25	0.075-0.4	6.5-15	210	34
Φ1830×7000	24	25	≤25	0.075-0.4	7.5-17	245	36
Φ2200×5500	21	30	≤25	0.075-0.4	10-22	370	48.5
Φ2200×6500	21	30	≤25	0.075-0.4	14-26	280	52.8
Φ2200×7500	21	33	≤25	0.075-0.4	16-29	475	56
Φ2200×9500	21	38	≤25	0.074-0.4	18-35	475	62

Notice: Any change of Ball Mill technical data shall not be advised additionally.



### Screening & Washing

Sand Washing Machine  
Circular Vibrating Screen

### Feeding & Conveying

Belt Conveyor  
Vibrating Feeder

### Crushing

Jaw Crusher  
Impact Crusher  
Hammer Crusher  
Spring Cone Crusher  
Hydraulic Cone Crusher  
VSI Sand Making Machine  
PCL Sand Making Machine  
European Type Jaw Crusher  
PYS Symons Cone Crusher  
Mobile Crushing & Screening Plant

### Grinding Plant

Ball Mill  
Raymond Mill  
High Pressure Suspension Mill  
MSB series Coarse Powder Mill  
Super Pressure Trapezium Grinding Mill  
HGM Three-Rings & Medium-Speed MicroPowder Mill

### New Production Technics

Grinding Production Line  
Sand Making & Washing Plants  
Stone Crushing & Screening Plants  
Manufactured Sand Processing Chart  
Construction Waste Crushing Technics  
Basalt Aggregate for Express Highway Processing Technics

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