

# Ball Mill Operation Manual 2025

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**Ball mill** is an important grinding equipment in industrial production, widely used in mining, ceramics, cement and other fields. Ball mills' working principle is to use steel balls in the cylinder as grinding medium for dry or wet fine grinding of materials. Whether it is cement, silicate, building materials, refractory materials, fertilizers, or black and non-ferrous metal ore beneficiation, as well as glass ceramic production, the ball mill can play its unique role.

How to operate a ball mill play an important role in the grinding production. This manual will introduce the operation steps, maintenance and common troubleshooting methods of the ball mill in detail to help operators better master the use skills of the ball mill.



## Ball Mill Operation Steps

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### I. Preparation

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- (1) Check whether all parts of the ball mill are normal, including bearings, gears, motors, etc.
- (2) Check the lubrication system to ensure sufficient lubricating oil and normal operation of the lubrication system.
- (3) Prepare raw materials according to process requirements and clean the conveying device and the inside of the ball mill.
- (4) Confirm that no one is in the danger area, and check whether the bolts and other key parts are loose and tightened.

## II. Start-Up

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- (1) Firstly, activate the powder output device to ensure smooth powder output.
- (2) Then start the ball mill and pay attention to observe whether the motor operation is normal.
- (3) Finally, start the feeder to send materials into the ball mill for grinding.
- (4) Adjust the ore feeding amount and ball mill speed to ensure that the production process parameters meet the requirements.

## III. Operation

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- (1) During operation, pay attention to observe various indicators of the ball mill, such as ore feeding amount, ore discharge amount, motor current, etc.
- (2) Take samples regularly for testing to ensure that the product meets the process requirements.

## IV. Shutdown

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- (1) Gradually reduce the ore feeding amount and ball mill speed until the ball mill runs empty.
- (2) Then stop the operation of the ball mill and let the grinding process stop gradually.
- (3) Finally, turn off the powder material output equipment to complete the entire shutdown process.

## Ball Mill Maintenance

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In order to ensure the normal operation of the ball mill, operators should regularly perform the following maintenance tasks:

1. Clean the dust and debris inside the machine to keep it clean.
2. Check bearings, gears and motors to ensure they operate normally.
3. Replace lubricating oil regularly to ensure normal operation of the lubrication system.
4. Check liners, cylinder and other wearing parts, and replace them in time if they are worn.
5. Regularly inspect the ball mill as a whole to ensure its stable performance.
6. Keep the ball mill clean and adjust and tighten loose parts in time.
7. When the ball mill is not used for a long time, it should be noted that after the ball mill body temperature drops completely to the same as the ambient temperature, the cooling water can be turned off, and the compressed air should be used to blow out the water in the main shaft bearing to prevent the equipment from rusting.

**Reference Reading:** [Ball Mill Maintenance Manual \[Complete Version\]](#)



## Ball Mill Faults and Treatment Methods

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(1) The ball mill is too noisy.

**Treatment Method:** Check whether there is any foreign matter or loose lining plate inside the ball mill.

(2) Insufficient ore feeding amount of ball mill.

**Treatment Method:** Check whether the ore feeding device is blocked or worn.

(3) Overload of ball mill.

**Treatment Method:** Reduce the ore feeding amount and ball mill speed, and add grinding aids if necessary.

(4) The ball mill cylinder is seriously worn.

**Treatment Method:** Replace the cylinder liner or repair it.

(5) Motor failure.

**Treatment Method:** Ask professionals to inspect and repair.

## Safety Precautions

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1. Operators must receive professional training and be familiar with the performance, operating methods and safety regulations of the ball mill.
2. During operation, operators must wear labor protection articles such as safety helmets and protective clothing.
3. It is strictly forbidden to carry out maintenance while the ball mill is running to prevent accidental accidents.
4. When stopping for maintenance, the power supply must be cut off and warning signs must be hung.
5. Regularly check safety devices to ensure their reliability.

If you have any questions, feedback or comments. Please feel free to give your inquiry. We will reply you in 24 hours.

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