

Ball Mill Maintenance Procedure Guide

Regular ball mill maintenance is an important factor to ensure the normal and stable operation of the ball mill. In the process of application, only if the ball mill maintenance process is carried out correctly, the ball mill can operate normally and the production efficiency can be improved. Under the guidance of ball mill maintenance procedure, we can better complete the regular maintenance of the ball mill machine. Ball mill maintenance can be started from the following aspects.



Check Whether the Motor Current is Normal in Time

The first step of the ball mill maintenance process is to pay attention to the motor current. During the ball mill operation, especially within 5 minutes after startup, check whether the current of the motor is normal. Under the working condition of ball mill, if there is abnormal current fluctuation, adjust it in time.

Check the Lubrication of the Ball Mill Machine Regularly

The ball mill maintenance guide mentions that the lubrication of the machine needs to be checked regularly. The first time you use the ball mill for a month, you need to perform a complete lubricant replacement. It is recommended to replace the lubricant every six months in combination with the later use. During normal use, each lubricating point shall be inspected at least once every four hours. According to the weather, different lubricants are used in winter and summer.

Regularly Inspect and Repair All Parts of the Ball Mill

Each part is also a key point of ball mill maintenance.

1. The transmission device, main bearing shaft, feeding part and discharging part of the ball mill are recommended to be overhauled once a year.

Pay attention to the maintenance of the motor and reducer at ordinary times, and the large and small gears must be replaced and repaired if they are severely broken, lost teeth or worn. If there is a crack of more than 10mm on the rotating shaft, it needs to be replaced and repaired, and check whether the elastic pin coupling is intact.

Check the sealing condition of the main bearing shaft, and timely repair if oil leakage, water leakage and ore leakage are found. The main bearing surface wear depth exceeds 1mm, and the hollow shaft must be repaired or replaced when there is a crack in the hollow shaft.

When the ball mill machine is running normally, the temperature of transmission bearing shaft and reducer should not exceed 55°C.

The feed part should be repaired in time for the serious wear of the feed hopper and feed screw cylinder. Check the wear part of the discharge screen and discharge hood of the discharge part, and repair it regularly.

2. The rotating part of the ball mill is recommended to be repaired every six months.

Among them, the [ball mill liner](#) is worn by 70%, with cracks, and it should be replaced when the edges are severe. Timely replacement of damaged cover plate and sealing gasket, timely replacement of steel

balls and grate plates due to serious wear, etc.

Pay Attention to the Normal Operation of the Ball Mill

If there are abnormal conditions such as large noise and strong vibration during the operation of the ball mill, stop the machine in time to inspect the reducer, motor, and connecting plate.

The ball mill maintenance period can be divided into 3-6 months for minor repair, 6-12 months for medium repair and 60-120 months for major repair. In the daily operation process, we should also pay attention to the ball mill maintenance. These are the basic maintenance conditions of different [types of ball mills](#). Of course, the specific conditions also need to be analyzed. The good maintenance of ball mill is a guarantee to improve its working efficiency.

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2. Ball Mill Design-Optimization of Feeding Device