

Ball mill main bearing cooling

When the main bearing of the ball mill works, heat is continuously transferred to the bearing from the hot material and hot gas (drying and grinding) inside the mill, and the contact surface between the bearing journal and the bushing generates heat due to friction. If not eliminated, the accumulated heat will make the bearing temperature rise to destroy the lubrication of the ball mill bearings, the allowable temperature of the main bearing lining is less than 70°C. If the bearing temperature exceeds this value, bearing-burning will occur and affect the normal operation of the mill.

Ball mill main bearing cooling methods:

1. Commonly used water cooling methods: directly lead water into the bearing bush, or use water to cool lubricant, or adopt the two methods simultaneously.
2. Directly leading water into bearing bush has obvious effect. That is to cool the bearing bush through the serpentine pipe cooling water channel cast in the spherical bush.
3. Circulating cooling water system. This method requires that there must be a casting hole in the ball mill spherical bearing bush, so that water can flow through the casting hole (serpentine pipe) and cool the ball mill main bearing. During the process, the cooling water enters through the water inlet connector, passes through the serpentine pipe and is discharged from the outlet pipe connector.

CHAENG has rich experience and mature technology to manufacturing ball mill trunnion, ball mill trunnion bearing pedestal (main bearing) according to customers' drawings with high quality steel materials.





Why choose CHAENG?

1. CHAENG owns the advanced casting and machining facilities
2. Follow the national 2-level flaw detection standard
3. Perform a 360 ° non-destructive testing system
4. Ensure the reliable quality and long working time of steel castings
5. Praised by the customers as the "High cost performance steel casting manufacturer"

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