

# Ball mill end cover

## Introduction

Ball mill end cover is one of the key components of the ball mill, whose structure is relatively complex, requiring long manufacturing period and high-precision processing and assembly, so the process technical demands should be fully considered during planning process route.

The end cover is located at both ends of the ball mill cylinder and is supported on the bearing, mainly used to support the material, the cylinder and the medium. The fillet at the root of ball mill trunnion is the stress concentration part.

<b>Weight</b>	1-150T
<b>Material</b>	ZG230-450
<b>Application</b>	Building material industry
<b>Customizable</b>	Yes



## Processing advantages

1. High-quality raw materials, mature technology

Use high-quality raw materials and mature technology to guarantee the quality. CHAENG has a wealth of experience in manufacturing ball mill, in the production process, we continue to adopt new technologies and new process to enhance its wear resistance and pressure performance. Our advanced level-2 flaw detection equipment can detect the interior of the end cover accurately to assure the quality.

## 2. Components are sealed well, no leakage problem

CHAENG feed cover can be produced for a specific device, making adjustments to a certain degree to make end cove joint better with feed components without gaps, to prevent material leakage problem.

## 3. Stable operation, long service life

CHAENG ball mill end cover adopts high-strength steel, and its structure is optimized by professional engineers according to the operation characteristics of ball mill, to greatly ensure the long-term operation stability and prolong the long service life.

## Process



### **The first step: Simulation and modeling**

Before casting, numerically simulate the casting process by CAE software to analyze the molding process, predict and optimize quality of ball mill end cover.

### **The second step: pouring and heat treatment**

The qualified raw and auxiliary materials shall be put into the arc furnace according to the proportion, and the sampling of hot metal shall be carried out to perform the spectral analysis. After qualification, the pouring shall be carried out according to the principle of "low temperature and quick casting", and the pouring time and temperature shall be recorded.

### **The third step: Flaw detection, finishing**

Finally, cut the pouring riser and burr etc. CHAENG has professional mechanical polishing teams and large-scale blasting apparatus, which can effectively improve the appearance quality of support roller, to meet customer's requirements on surface finish. Moreover CHAENG take use of advanced detection equipment for non-destructive testing to ensure the internal quality of supporting roller, strictly stop any defective goods from leaving the factory.

### **Case**

CHAENG ball mills are exported to more than 50 countries and regions, and the matched trunnion and end cover are all independently manufactured. CHAENG also can produce the ball mill trunnion and end cover for other factories according to customers' drawings.



## **Chaeng Service**

### **1. Cost-effective**

CHAENG has the top-ranking casting equipment, strictly follows the national level-2 detection standards, and executes 360° all-round nondestructive testing system, to ensure the reliable quality and long service life of steel castings. CHAENG is hailed as "the most cost-effective steel castings manufacturer".

### **2. Fast delivery**

CHAENG has strong technical teams, detailed production scheduling, wide range of raw materials purchase channels, and perfect logistics delivery system, making efforts to achieve the shortest delivery period in china.

### **3. "Three-heart" service**

The 24h fast response and the customer services in all 365 days rest your heart when you make choice, ease your heart when you use the products, satisfy your heart when you enjoy the services.

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