

## Ball mill inlet & outlet end cover process

In the ball mill equipment, ball mill inlet and outlet end covers are very important parts which bear the whole load of the mill and the grinding body and continuously operates under the action of alternating stress. Therefore, the end covers requires a good comprehensive mechanical properties, without shrinkage, air hole, sand and other casting defects.

A scientific and rational process plan can improve the overall quality of the product and increase the product's production efficiency. The key to ensuring the quality of castings is to determine a correct set of process solutions.

CHAENG uses ZG230-450 material according to the working environment and operating characteristics of the ball mill end cover, and continuously optimizes the production process. The ball mill end produced by CHAENG has reliable performance and can well meet the long-term operation of the ball mill.



### **Making process of CHAENG ball mill inlet & outlet end cover**

#### **Simulation, modeling**

Before casting, CHAENG use InteCAST CAE software to carry out digital simulation of the casting process. Through numerical simulation technology, the process analysis and quality prediction of the product forming process are completed.

#### **Pouring, heat treatment**

Perform the spectral analysis on the sample of hot metal. After qualified, start pouring according to the principle of "low temperature and quick casting", and the pouring time and temperature shall be recorded.

#### **Finishing, flaw detection**

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

Website: [www.partscasting.com](http://www.partscasting.com)  
Email: [casting@chaeng.co](mailto:casting@chaeng.co)

quality of ball mill cover, 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.



### **CHAENG (Xinxiang Great Wall Steel Casting Co., Ltd)**

Office Add: Mengzhuang Town, Huixian City, Henan Province, China

Postcode: 453600

Website: [www.partscasting.com](http://www.partscasting.com)

Email: [casting@chaeng.co](mailto:casting@chaeng.co)

Tel: 86-371-55019878

Skype: greatwall1958

Fax: 86-371-55019608