

Geared ring for ball mill, casting girth gear process & advantages -CHAENG

The ball mill geared ring is important component driving the ball mill cylinder for a long time. CHAENG, as a professional casting girth gear manufacturer, has decades of years' experience on large steel casting production for ball mill and rotary kiln.



Process advantages of CHAENG geared ring for ball mill:

Before casting, CHAENG numerically simulates the casting process by means of CAE software to analyze the molding process, predict and optimize the product quality.

Base on the requirements of customers, CHAENG selects appropriate wooden mold for modeling design.

Strictly according to the process procedures to produce high-quality girth gear: wood mold - modelling - pouring - heat preservation - out of the pit, sand cleaning - heat treatment - roughing, finishing - packing and delivery.



The machining process of CHAENG ball mill girth gear is firstly the machining of the tooth blank, which is mainly to prepare the foundation for the tooth shaping, so that the precision of the inner hole and the end face of the girth gear can basically meet the specified technical requirements. The second step is the processing of the tooth shape to achieve the specified hardness requirements. Then it is the finishing of the tooth shape, mainly to make the positioning accurate and reliable, and the balance distribution is uniform, in order to achieve the purpose of finishing. Finally, the heat treatment of the girth gears is carried out, so that the structure is optimized, the hardness is improved, and the wear resistance and impact resistance are greatly enhanced.



We use advanced detection equipment for non-destructive testing to ensure the quality. CHAENG steel castings can meet level-two flaw detection standards.

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