

Anti-deformation measures adopted in manufacturing ball mill girth gear by CHAENG

Deformation affects the machining accuracy of a girth gear, and the reduction of accuracy can cause noise and vibration during transmission, and it will also cause the problem of misalignment of the pinholes on the joint surface when the two half-gear rings are assembled. In the production of the ball mill girth gear, reasonable processing technology is adopted to reduce the deformation of the large gear after processing, improve the processing accuracy of the large gear, ensure the smooth transmission of the mill, increase the bearing capacity of the mill, and extend the service life length of the mill.

Xinxiang Great Wall Casting (CHAENG) has many years of history in the manufacture of ball mill girth gear. It has accumulated a lot of experience and formed a complete set of girth gear processing technical solutions, which can provide customers with girth gears with a diameter of 2m-12m.



In order to prevent the deformation of ball mill girth gear during manufacturing, CHAENG adopts the following methods:

1. CHAENG uses computer simulation technology to digitally simulate the girth gear casting process, which can well predict the problems that will occur in the girth gear during the casting process, and complete the casting process optimization.
2. CHAENG will conduct non-destructive inspections on the ball mill girth gear to ensure the quality of the large gear of the mill.
3. CHAENG adopts a unique heat treatment process to make the ball mill girth gears have good comprehensive mechanical properties. The gears have good plasticity and toughness while maintaining high strength, which can prevent the girth gears from deforming.

4. Determine the reasonable cutting amount, especially in the finishing turning and gear hobbing process, the cutting amount should be controlled.

5. Choose a reasonable clamping method, and lightly press and loosen the pressure plate in the finishing process, and select the stress point reasonably to prevent the lifting deformation during the lifting of the girth gear.

At present, CHAENG has sold ball mill girth gears well all at home and abroad by virtue of its excellent product quality and service, and it has received unanimous praise from customers!

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