

Rotary kiln girth gear replacement

Rotary kiln girth gears are relatively precise mechanical parts. The girth gear need to be replaced due to a degree of wears and tears from their frequent use, like teeth plastic deformations, fatigue pitting, teeth bonding, tooth surface wear, tooth breakage, etc.

When purchasing a girth gear, the user should measure the equipment carefully to make technical drawings of the gear, and communicate with manufacturer in detail to ensure that the girth gear is well-adapted to the rotary kiln.

CHAENG is professional to manufacture rotary kiln girth gear according to customers' drawings and demands. When receiving customers' drawings and inquiry, CHAENG understands clearly the requirements of users, and then plan the process and calculate the cost according to drawings.

Process of CHAENG rotary kiln girth gear:

I. simulation, modeling

Before casting, numerically simulate the casting process by CAE software to analyze the molding process, predict and optimize the quality of gears.

II. 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.

III. finishing, flaw detection

CHAENG uses advanced detection equipment for non-destructive testing to ensure the internal quality of girth gears. CHAENG steel castings can meet level-two flaw detection standards.



Customer cases of CHAENG girth gear:

CHAENG girth gears with excellent product quality are not only sold throughout China, and also have been successfully exported to foreign markets.

For example:

CHAENG girth gears are applied to the Xinjiang Tianshan Group, Henan Meng Group, and other well-known domestic and foreign cement enterprises, for the normal operation of ball mill and rotary kiln.

CHAENG customized for the Turkish customers a large girth gear with diameter of 7.3 meters and made up of GS34CrMo4 material, and received customer's high praise.



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