

Repair and replacement standards for cement rotary kiln

main wear parts

During the operation of the cement rotary kiln, the wear of parts wear and the reduce of equipment accuracy will affect its operating rate, and then the worn parts must be repaired or replaced. Based on years of experience in the production of large-scale steel castings, CHAENG has summarized the repair and replacement standards for major wear parts of cement rotary kiln for your reference, such as the main gears, belts, support rollers and thrust roller.

Girth gear

The girth gear is one of the key components in the rotary kiln transmission. It is prone to be deformed and broken. When the gear's tooth thickness wears 30%, or the rim has irreparable damage, it needs to be repaired or replaced.



Kiln tyre

Kiln tyre, also called rolling ring or riding ring, is the key parts of rotary kiln. Its role is to transfer the entire weight of the cylinder to the support roller and enables the cylinder to rotate smoothly. If the wear of the tyre section is 20%, or the surface wear is conical and polygonal, or local through-cracks occur, the tyre need to be repaired or replaced.



Kiln support roller

The support roller device carries the weight of the entire rotary part of the rotary kiln and plays an orientation role to the cylinder, and enables the rotary kiln cylinder and the tyre to rotate smoothly on the support roller. When the journal diameter of the kiln support roller and thrust roller is reduced by 20%, or the thickness of the support roller rim is removed by 25%, or the rim becomes tapered or otherwise profiled, or if the rim has cracks through it, it needs to be repaired and replaced. When replacing the support roller or thrust roller, the corresponding liner must be performed scrapping again or replaced.



CHAENG can provide girth gear, tyre, support roller according to customers' drawings and personalized requirements. Consult us for quotation!

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