

CHAENG support roller for rotary kiln - material, process & cases

CHAENG (Great Wall Steel Casting), as a professional steel castings manufacturer for cement industry, has rich experience in manufacturing support roller for rotary kiln.

The support roller is one of the main components of the rotary kiln, and it bears the weight of the entire rotary kiln, including the cylinder body, the lining brick, the heat exchange device in the kiln, the material, the riding ring, the girth gear, and supports the cylinder and the riding ring to rotate smoothly, so the super endurance of the support roller becomes one of the criteria for measuring the quality of the rotary kiln.

CHAENG adopts ZG55, ZG42CrMo steel materials (ASTM: 1055 / DIN: 42CrMo4) which has high tensile strength and good impact toughness to ensure the large load carrying capacity and good continuous operation performance of the support roller.

Processing advantages of CHAENG support roller for rotary kiln

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

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

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

CHAENG uses normalizing and tempering process to greatly ensure the quality of rotary kiln support roller.

CHAENG uses advanced detection equipment for non-destructive testing to ensure the internal quality of supporting roller, strictly stop any defective goods from leaving the factory.



Cases of CHAENG support roller for rotary kiln:

1. Henan Meng electric cement factory purchased CHAENG 5000 t/d cement rotary kiln, with smooth operation, and large yield;
2. Uzbekistan customers purchased cement rotary kiln in the 1000 t/d cement production line from Great Wall Machinery, the matched support rollers were manufactured by Great Wall Steel Casting.
3. A company in Guangxi Province, China purchased a $\phi 4.0 \times 60\text{m}$ lime rotary kiln from Great Wall Machinery, the matched support rollers were manufactured by Great Wall Steel Casting.
4. South African customers purchased supporting roller of rotary kiln

