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# Find mechanical parts manufacturer? Come to CHAENG!

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all the year round, and the failure appears to affect the operation of the equipment. Once a kiln accident occurs, it will cause huge loss because of production stoppage. It with takes 10-15 days to stop the kiln and handle accident, and the output value loss can reach millions, while the cost of planned pre-check is much lower. Therefore, the regular maintenance of large rotary kiln and grinding mill, and replacement of the spare parts, can effectively extend the service life of the components. As a well-known service provider for large kiln and grinding mill, CHAENG can produce large mechanical spare parts (1-150tons) for building materials, cement, metallurgy, mining and

After a long-term operation, large rotary kiln and grinding mill always begin to have various problems. Some spare parts are worn out



other industrial industries, including ball mill trunnion, girth gear, vertical mill roller and table, rotary kiln shell segments, support roller, etc. CHAENG is large parts supplier for many famous enterprises such as China National Building Material Group, Shanshui Cement, Lafarge, Taimu, and Wannianging cement, TaTa. **Main Mechanical Parts Product** 

and timely replace the parts, and improve the economic benefits of the enterprise, and effectively extend the service life of the equipment!

### The rotary kiln shell, used as the supporting and rotating parts of the kiln, is exposed to high temperature for a long time during operation. So kiln mouth

Rotary kiln shell

section is often burned and deformed, it is necessary to replace it when the damage is serious.





# 2. The heat flow is too large but the cooling zone is short or even no. The

working environment of the kiln mouth is bad, the temperature of outlet material is 1300-1400°C, and the secondary air temperature is 1000-2000°C.

- 3. The cylinder temperature is too high, the thermal expansion is large, while the strength of the high temperature resistant materials is seriously attenuated. 4. The guard bolts at kiln mouth are loosen, so that the refractory materials fall
- off, and thus the shell is burnt. 5. Improper handling during burning contaminated soil causes severe corrosion

6. The corrosion of sulfur, phosphorus and chlorine on the kiln shell reduces the thickness and strength of the kiln cylinder, also reduces the plasticity of the steel

and increases the brittleness of the steel, which may lead to brittle failure of the kiln cylinder. It can be concluded that it is very necessary to regularly detect the running condition of the components of the equipment, find problems

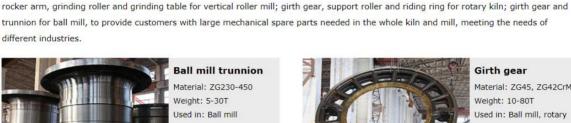
No, CHAENG can supply 1-150tons large mechanical

parts according to drawings.



different industries.

Only produce large kiln shell?

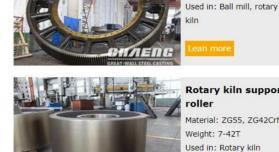


Besides rotary kiln shell segments, CHAENG also launched a full range of spare parts services fro rotary kiln and grinding mill, including





**Grinding roller** 





Material: ZG45, ZG42CrMO

Girth gear

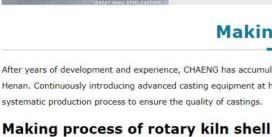
Weight: 10-80T



**Process introduction** 

finishing - packing and delivery.

according to the structure of the cylinder.





# The rotary kiln shell is made of steel plate such as boiler plate and Q235C plate, requiring highly on dimensional accuracy

Due to transportation reasons, the rotary kiln is composed of shell segments. Because the outer circle of the kiln cylinder is not processed, the perpendicularity of the end face to the center of rotation cannot be directly measured. In the process design, the perpendicularity of the end face is converted into parallelism and the coincidence of the axes at both ends



material industry, machine frame in metallurgy and ceramic industries, CHAENG can selects appropriate wooden mold for modeling design, and uses CAE software to simulate the casting process. Strictly according to the process procedures to produce high-quality steel castings: wood mold - modelling - pouring - heat preservation - out of the pit, sand cleaning - heat treatment - roughing,



Large machining workshop Large assembly workshop

WA11-120 CNC bending machine



Universal strength tester

6.5×6.5×16m Annealing furnace



and implements 360° non-destructive testing system to ensure the quality of steel castings. CHAENG has close cooperation with many companies of various industries, supplying them with spare parts with good performance to improve the practical effect of the equipment

Large lathe for machining kiln shell



CHAENG

Edge planer of 16m in length

100T large crane

Rotary kiln shell segments

and extend the service life of the equipment. CHAENG has won the high praise of customers!

4.2m rotary kiln shell for Guangdong Cer



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