

## What improvements CHAENG have made on the rotary kiln rolling ring process

A customer from an aluminum factory came to CHAENG to consult the rotary kiln rolling ring. After talking with them, it's known that the central rolling ring of a rotary kiln of the factory occurred breaks and cracks, seriously affecting the normal production. Therefore, the customer had to replace the existing worn-out rotary kiln rolling ring.



When the sales manager of CHAENG learned of the customer's detailed needs, he did not rush to customize the new rotary kiln rolling ring. Instead, he analyzed the structure and stress of the rotary kiln with the customer to find out the real reasons of broken kiln rolling rings. After fully discussion between the sales manager, technical engineers and customers, **CHAENG improved the rotary kiln rolling ring process required by the customer in two aspects:**

**On the one hand**, to improve the hardness of the material of the rotary kiln rolling ring. According to the drawings provided by the customer, the original material requested by customer is No. 35 cast steel, CHAENG upgraded and optimized the material to the No. 45 cast steel with higher hardness. And in the later processing and production, performed appropriate heat treatment on the rotary kiln rolling ring, to increase the hardness value of the rotary kiln rolling ring, and also increase the allowable stress value of the rotary kiln rolling ring contact, and finally improve the service life of the rotary kiln rolling ring.

**On the other hand**, CHAENG appropriately increased the size of the rotary kiln rolling ring section, which not only can improve the rigidity and strength of the rotary kiln rolling ring, but also increase the bending section coefficient value to reduce the maximum complete stress and the maximum contact stress. purpose.

In the end, the customer adopted the improvement plan proposed by CHAENG. When the

customer's rotary kiln used the improved rolling ring of CHAENG, the production proceeded as scheduled.

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