



## USER GUIDE ON AMI™ CERAMIC ROLLER

### 1. Select the roller grade

- 1) We shall select the suitable grade of ceramic roller according to the maximum firing temperature in the kiln, the different working zone, the rotating speed, weight load, the interval distance of roller center, the atmosphere inside the kiln, the possible erode, and the running cost.
- 2) For New Kiln, customer shall notify us in advance, so that we can select the suitable products which matching the standard for new kiln.
- 3) We shall recommend the rollers with best performance-price ratio.

### 2. Before usage, the ceramic rollers shall be put on the kiln top or aside the kiln for preheating and drying, take the rollers into use after the moisture inside the roller is removed.

### 3. Install the rollers: The interpose process must be finished as fast as possible, and the situation that the rollers are heated for unduly long time without rotating is prohibited. In the case of warm kiln, the rollers shall be install into the kiln when temperature reach 300-400°C, then raise the temperature placidly.

### 4. Usage of the ceramic roller:

When running normally, the kiln temperature shall be maintained steady and avoid partially floating in big range. Monitor the running status frequently and treat the exceptional matter promptly, if any.

### 5. Replace the Roller: The roller shall be replaced as soon as possible when the feculence appeared on the roller surface. When pull the rollers out of the kiln in high temperature, the operator shall pay attention to avoid the bend of the rollers. The correct process shall put the roller onto the frame with insulating materials covered, and rotate it continually until the roller cool down to below 600°C; or put the rollers onto the complanate insulating materials, then cover it with insulating fiber and let it cool down naturally.

### 6. Protection of Rollers: Customers are recommended to apply roller coat onto the working segment on the roller, this is helpful to reduce the erosion from the kiln atmosphere and the molten drop. Please refer to the User Guide on the Roller Coat.

Ceramic Roller shall be used in kilns escaping the alkaline atmosphere.

It is prohibited to let the heat roller touch the floor or cold metal directly.

7. Clean the Roller: The rollers shall be pulled out for clean when the feculence appears on the surface. Do not use the hard tools to clean the feculence. In case the roller coat is applied, please daub new coat after cleaning.
  
8. In the case of Stop the Kiln and lower down the kiln temperature.
  - 1) When the kiln is going to shut down and the kiln temperature is lowering down, please keep the fume extractors opened and turn off other fans, maintain the little positive pressure in the firing zone, and let the rollers running normally till the kiln temperature less than 500°C, then the rollers can be pulled out.
  - 2) In the case using the water gas as fuel, when the kiln is going to shut down and the kiln temperature is lowering down, the operator shall adjust both the fume extractors and the waste heat fans assortatively according to the inner pressure of the kiln and the situation of the incursion of the cool air, and make sure that there is no cool air inrush the firing zone. Then pull the rollers out when the kiln temperature less than 500°C.
  - 3) In the case using the heavy oil as fuel, when the kiln is going to shut down and the kiln temperature is lowering down, the operator shall adjust the fans in the whole process and maintain the original balance of the pumping level in the kiln, so that the incursion of the cool air caused by the minus pressure can be avoided. Slow down the airflow speed in the kiln and achieve the kiln temperature lowered down placidly. Then pull the rollers out when the kiln temperature less than 500°C.
  
9. Others:

Customers are recommended to insert the insulating fiber or other materials in the position with distance 50-60mm from both ends inside the rollers.

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