

Firing System

- Firing system is a system for firing dried bricks, which consists of tunnel kiln, kiln car and operating equipments.
- Kiln wall structure: from inside to outside, it is fire clay brick, light insulating brick, aluminium silicate thermal insulation material, and red brick. A certain distance apart, there should be equipped with expansion joints to ensure the free flexibility of kiln body.
- Continuous production, short cycle, high output and high quality.
- The heating fuel of tunnel kiln is heavy oil, light diesel oil, natural gas, coal gas and firing coal.

Tunnel Kiln



According to different sections, the common tunnel kiln is 3.4m, 4.6m and 6.9m. The kiln body is made of fire brick, insulating brick, aluminium silicate thermal insulation material, and red brick outer wall. The inner of kiln equips fire-resistant steel rail for operation kiln car and equips automatic operation equipment and kiln monitoring equipment. Compared with other kilns, this kiln is more energy conservation and environment protection, higher output and longer useful life (over 15 years).



The fire-resistant hanger hangs over the steel structure support, the refractory materials are filled between firebrick and fire-resistant hanger thus to ensure the tightness between firebricks. Using the fire-resistant bricks with hangers is convenient to maintain the kiln body.



Firebricks in the kiln roof



While the kiln uses coal as the fuel, it has coal adding holes on it. And while it uses oil as the fuel, the nozzles are set at the sides of kiln body.



The firebricks in the tunnel kiln are only used at the roof of firing zone and side wall of kiln body. On the premise of guaranteeing the quality of kiln body, save the cost of kiln body structure.



In the tunnel kiln there are rails for kiln car operation. And there are fans under the kiln cars, to make sure that the kiln car will not be burned out and it is easy to maintain.



There is a pipeline at the kiln body to ensure the oxygen feeding, smoke collection and after-heat collection.



The pipeline in the kiln roof will discharge the collected smoke and feed the collected after-heat to the drying chamber.

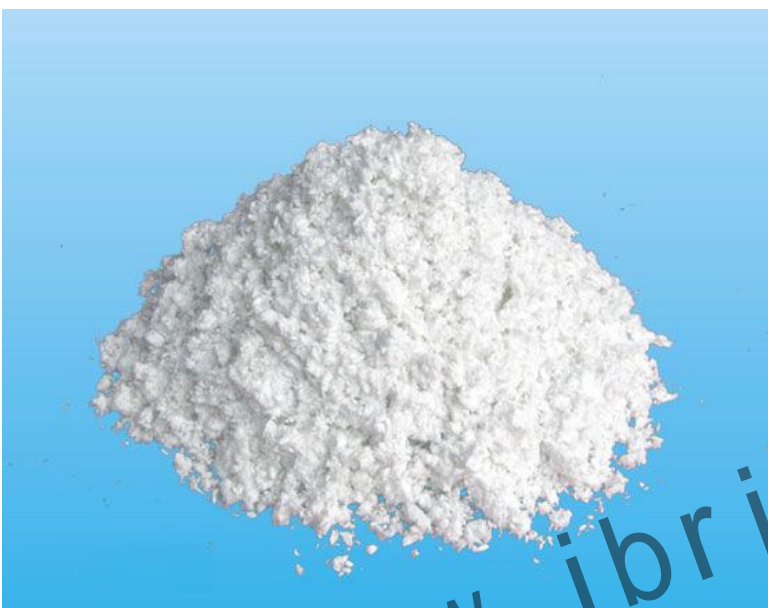


The two kiln doors are set at the car entering end to ensure the tightness of kiln body, the fans are set at the car exiting doors to ensure rapid cooling for fired bricks.



Firebrick used in tunnel kiln

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Thermal insulation material

Kiln Car



The firebrick, fired rock wool and red bricks are laid at the cast iron kiln car. The firebricks ensure the kiln car separate from the high temperature and fired rock wool ensures the tightness of fire bricks.



The kiln car is welded by the joist steel of 140mm*80mm, there is equipped with first-class cast steel idler wheel under the car.



Cast iron kiln cartwheel

Tunnel advantages:

Tunnel kiln has following features: high output, low fuel consumption, high degree of automation, low pollution, short payback period, low operating cost and low labor cost. Meanwhile, the kiln is equipped with firing system, smoke-releasing system and cooling system to ensure the firing speed and firing quality.

IBRICK supply you complete firing system proposal, we have powerful technical groups support you. Our proposal widely apply in Russia, Tadjikistan, Uzbekistan, India, Bangladesh, Egypt, Peru and other countries, we will supply you equipment and proposal of high output and energy saving tunnel kiln.

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