# Pulverized coal hot-blast stove burner

## Specifications of burner for pulverized coal hot-blast furnace

Pulverized coal hot- blast stove burner used pulverized coal as its main fuel, used in hot blast furnace industry. Pulverized coal is easy to ignite, with stable combustion flame, it is energy saving, convenient operation, high thermal efficiency and easy for maintenance and repair. It can be divided into diffused and pre-fired burner. The pulverized coal burner manufactured by our factory can be specially designed of multi-stage and multi-nozzle air supply guide structure, which can make pulverized coal produce high-temperature eddy current in a short time, with the advantages of sufficient combustion, high heat utilization, smoke elimination and dust removal, high efficiency, energy saving and improvement of working conditions. We also have the technical force to transform the furnace; we can undertake the design, transformation and construction for different furnaces.

## Main features:

- The pulverized coal burner has a variety of adjusting methods: Different proportions of internal and external wind and outlet jet flow can be adjusted widely under the condition of constant total air, so as to obtain different flame shapes to adapt to any working conditions.
- The coal consumption can be effectively reduced. Each 1% reduction in primary air volume can reduce the heat consumption by 8.70 ~ 10.4kJ/kg of fuel. Meanwhile, the secondary air temperature increased significantly.
- Reasonable structure, small system resistance, convenient flame regulation, easy for maintenance, and the overall performance reaches the international level for multi-channel burner.

## Technical data:

1. The suspension device of the burner can be stretched out and drew back, and be deflected according to different working conditions.
2. The internal and external casing pipes of the swirl air passage adopt the axial flexible structure, can be stretched out and drew back according to different working conditions.
3. The blackness of flue gas emitted from the burner is Grade 0-1;
4. The fixed carbon content in ash and slag in the burner is only about 0.1%
5. The energy saving rate can be 15-30%;
6. When the flue gas content in the burner meet the national standard as long as the blast coal is fully burned;
7. New technology and new materials ensure the service life: Adopt wear-resisting spraying technology to the easily worn parts, which increased the life of the key parts of the burner by 5~10 times than that of ordinary steel.



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