

**Blast furnace gas hot-blast stove burner**



**Product specification of the blast furnace gas hot-blast stove burner**

Blast furnace gas hot-blast stove burner is an industrial burner which uses blast furnace gas as fuel and is used in hot-blast stove industry. Blast furnace gas is a by-product produced in the process of iron smelting. Its main components are CO, CO<sub>2</sub>, N<sub>2</sub>, H<sub>2</sub> and CH<sub>4</sub>, etc., of which the combustible component CO accounts for about 25%, the content of H<sub>2</sub> and CH<sub>4</sub> is very low, the content of CO<sub>2</sub> and N<sub>2</sub> respectively accounts for 15% and 55%, and the calorific value is only about 800kCal/m<sup>3</sup>. CO<sub>2</sub> and N<sub>2</sub> in blast furnace gas do not participate in the combustion to generate heat, nor can they assist combustion. On the contrary, they absorb a large amount of heat generated in the combustion process, which results in the low theoretical combustion temperature. Blast furnace gas is an inferior fuel with low calorific value, high dust content, high water content and unstable pressure. The blast furnace gas burner developed by Jufeng thermal technology adopts a variety of methods, such as unique combustion head and internal heat storage combustion, which successfully solves the above problems. Without adding any high calorific value fuel to the combustion, the cold furnace can ignite and combust stably, and it is not easy to be affected by the fluctuating pressure and unstable components of the blast furnace gas.

**Performance characteristics:**

1. The burner is designed and manufactured in accordance with the international standard (EN676-1996).
2. The air distribution system of the burner has two types for users' choice: forced air supply and low negative pressure induced air frequency regulation. Sufficient combustion, strong flame.
3. The gas required for ignition is the same as used for the burner. Frequency conversion PLC automatic control.
4. Automatic ignition, flame automatic tracking, pressure detection, high and low pressure protection, temperature control, flameout, pressure overlimit alarm, automatic purge when starting/stopping/failure. Safe and reliable.

