

Biomass hot-blast stove burner



Introduction to biomass hot blast furnace burner

Biomass hot blast furnace burner is an industrial burner which takes biomass as fuel and is used in hot blast furnace industry. It takes renewable biomass particles, wood chips, straw particles and other organic biomass energy as fuel to achieve sustainable use of energy. Generally divided into two models: air-cooled biomass burner and water-cooled biomass burner.

The main features are:

1. High combustion efficiency can reach more than 98%;
2. Sufficient and stable combustion: no tempering or blowing-off when the device operates under micro pressure;
3. Wide range of thermal load regulation: can be adjusted rapidly within the range of 30%-120% of the rated load, and the starting block is sensitive;
4. Environment protection: renewable biomass energy as fuel to achieve sustainable use of energy. Adopting high temperature subsection combustion technology, the NOX, SO2, dust and other emissions in flue gas are low, meeting the requirements of GB13271 soot emission.
5. No tar, waste water and other waste discharge. Adopt high temperature pyrolysis combustion technology, and tar is directly burned into gas, which solves the technical problem of high content of biomass gasification tar and avoids secondary pollution of water caused by washing tar.
6. High heating temperature: Adopt secondary air distribution technology, and the furnace is pressed at 500-700mm water column pressure the normal fluidization of the jet zone. Continuous feeding for production, stable flame, high temperature reaches to 1300 °C.
7. Wide application in different industry areas;
8. Low investment and operation costs: The combustion cost for biomass is 75% less than electricity, 60% less than fuel oil and 50% less than natural gas and 40% less than liquefied gas.
9. Easy operation and convenient maintenance: automatic feeding by changing frequency, wind ash removal
10. Wide fuel source

