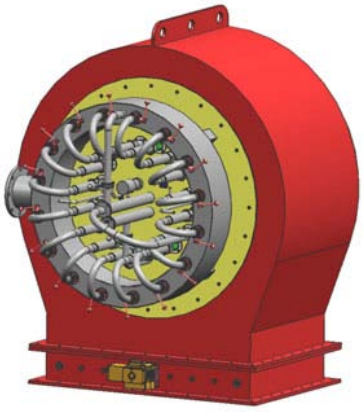
Blast furnace gas boiler burner

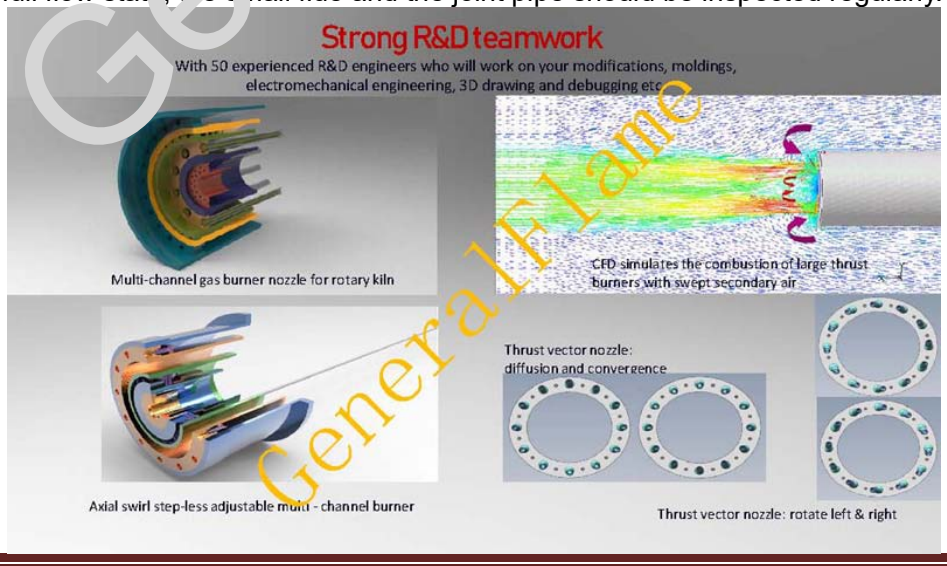


Working principle for blast furnace gas burner:

Firstly use high calorific value gas to ignite the nozzle. The flame detector detects that there is a fire in the burner, and will open the valve of the main gas pipe. The blast furnace gas sprays into the burner flame cylinder, which is ignited by the ignition gun and strongly mixed with the radial swirling wind, and then evenly mixed with the axial and tangential small wind, and sprays into the furnace in the shape of flow flame. When the flame detector find the flame is extinguished, it will send a signal to the combustion controller in time and close the gas valve to ensure the safety.

Specifications:

1. Boiler is a non-isothermal heating facilities, large heat load fluctuation, it is difficult for burner to achieve forced proportion wind, therefore, hot blast furnace gas will not mix with combustion-supporting air in advance(or only partially mix when demand for higher hot strength), but burn when mixing.
2. The blast furnace gas is with low calorific value (generally 3300 -- 4200KJ/m3). In order to improve the thermal effect of its combustion, the blast furnace gas must also be preheated in addition to air. Therefore, when using blast furnace gas for heating, half of the updraft in regenerator of the combustion system is used to preheat the air and the other half is used to preheat the gas. Gas, like air, passes through the ramp and enters the combustion chamber for combustion.
3. The CO in blast furnace gas burner is high (usually 25 to 30 percent). In daily operation, the exchange cock should be cleaned and lubricated regularly, and the water seal should be inspected regularly to maintain the full flow state, the small flue and the joint pipe should be inspected regularly.



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