Heavy oil hot-blast stove burner



Brief introduction of heavy oil hot air furnace burner:

The heavy oil hot air stove burner is an industrial burner which uses heavy oil as fuel and is used in hot air furnace industry. Include:

1. Hot air furnace monitoring system: To ensure the safe and stable operation of the hot air furnace burner, the main components includes flame monitor, pressure monitor, and temperature monitor and so on.
2. Hot air furnace fuel system: The fuel system of the heavy oil hot air furnace burner mainly includes: oil pipe and joint, oil pump, solenoid valve, nozzle and heavy oil preheater.
3. Electric control system of hot air furnace: The electric control system is the command and contact center of each system, and the main control element is the program controller. The common program controller has: LFL series, LAL series, LOA series, LGB series, its main difference between them is the setting time of each procedure.
4. Hot air furnace air supply system: the function is to send air at a certain speed and volume into the combustion chamber, the main components are: housing, fan motor, fan impeller, air pressure gun flame pipe, air door controller, air door baffle, CAM adjustment mechanism, diffusion disk.
5. Hot blast furnace ignition system: the function of the ignition system is to ignite the mixture of air and fuel, the main components are: ignition transformer, ignition electrode, electric fire high voltage cable. Flame length, cone angle and shape can be designed according to user requirements.

The heavy oil burner mainly adopts the atomization technology. The atomization principle of KMY bubble atomization burner is as follows: fuel oil and atomized medium (water vapor or compressed air) will generate a large number of oil ladle vapor bubbles through the bubble atomization generator, which will be ejected after fully mixing. Due to the high pressure difference, the blasting atomization can be realized. This is a new fuel atomization combustion technology.

Working principle:

The heavy oil enters the burner in two ways, namely, swirl oil and axial flow oil, which are similar as the internal and external wind of the burner. The swirl oil is circumferentially distributed, while axial flow oil in the middle of columnar direct flow. They gather in one way when arriving at the gun head, and enter into the furnace through atomizing nozzle. The atomization piece is divided into variety specifications according to the nozzle size. In the process of heating and feeding, need to replace different atomization pieces according to different specifications.



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