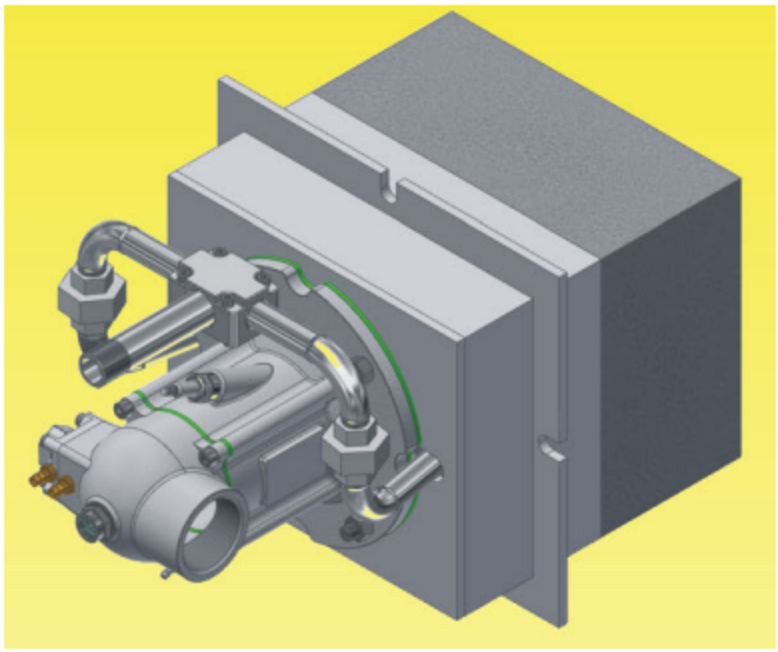
Astechnic
诺 一

A-D-MC
Burner



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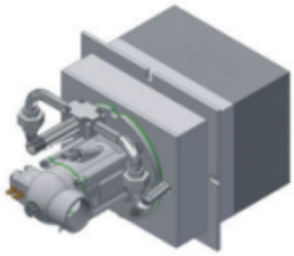
A-D-MC Aeries Burner

Ultra-low nitrogen, ultra-high speed, large regulation ratio

Product Description



- The A-D-MC dual-mode burner series adopts ultra-high speed and low ammonia mode (flame jet velocity 180m/s) at low temperature, and switches to MIDL combustion mode at high temperature. At NOX1300 °C furnace temperature, 100mg/m3 (@8%O2, @1300° C)
- A-D-MC dual-mode burner series ultra-high speed main flame is used in low temperature mode. In this mode, the ERG effect of staged combustion and high-speed flame can effectively inhibit the formation of NOx. When the furnace temperature exceeds 800C, the system automatically switches to MIDL mode.
- MIDL combustion is no longer limited by the flame stable structure of the traditional burner, and dispersion occurs in the furnace space when the high temperature flue gas circulation ratio reaches the threshold.
- Burning effect. MIDL combustion can dilute the combustion zone by increasing the flue gas recirculation rate to obtain a lower flame temperature and a larger flame volume, thus reducing the partial pressure of oxygen and greatly reducing the formation of thermal and fast NOx.
- It can reach the emission level that can not be achieved by conventional stage combustion methods.

Some key features that distinguish MIDL combustion from conventional combustion are:

1) High rate ERG effect produced by high speed jet of fuel and air.

2) there is obviously no way to promote the formation of burner flame.

3) A large amount of high temperature flue gas is recycled internally or externally.

4) eliminate the hot zone of traditional flame.

5) High efficiency, low NOx, low CO, low particulate emission

Applications

● Push Steel Heating Furnace ● Bottom Type Low Temperature Tempering Furnace ● Stainless Steel Strip Continuous Annealing Furnace ● Chamber Heating Furnace

● Walking Heating Furnace ● Annular Heating Furnace ●Trolley Type Heating Furnace

Features

● Air shell: Cast iron/45# steel
● Material of air inlet pipe: cast iron / 45# steel
● Applied maximum furnace temperature: 1300°C
● Combustion Chamber Material: Burner brick
● Combustion head: SUS 310S
● Fixed flange: Q235
● Maximum preheating air temperature: 350°C
● Power: 66~1240KW
● Fuel: NG /LNG

Product Advantages

1. Excellent low nitrogen emission performance:

A-D-MC dual-mode burner series can not only meet the stable combustion at low temperature, but also meet the requirements of ultra-low nitrogen at high temperature.

2. Higher furnace temperature uniformity:

Under the condition of MIDL combustion, the heat flux of the kiln is uniformly distributed and the reaction rate is slow, which can not only ensure the full combustion of fuel in the whole kiln, but also reduce the local high temperature area.

3. The large volume flame and high heat flux density of MIDL combustion are of great significance to improve combustion and heat transfer.

Product Model

Model	A-D-MC-108	A-D-MC-185	A-D-MC-265	A-D-MC-343	A-D-MC-425	A-D-MC-554
Maximum Power(kw)	108	185	265	343	425	554