Ultra Low NOx™ Burners for the Steel Industry
1610 and 1550 series

Burners for low and high performances
Performance range from 100 kW up to 12,000 kW

For a Clean Future.
BLOOM ENGINEERING
(EUROPA) GMBH

Services
• Basic and detail engineering for burners and peripheral devices
• Supply of burners and peripheral devices
• Upgrading of existing burners and plant components
• Supply of ignition devices
• Modification and repair of existing burner systems
• Spare parts supply
• Service and commissioning

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Product properties
• Lowest NOx emissions due to air staging
• Suitable for cold and hot air up to about 520 °C
• Big control range with directional stability flame
• Patented Low NOx air baffle protecting all metallic burner parts from flame reflections
• Rugged and low-maintenance construction
• "Flameless combustion"
• Available as cold or warm starting construction
• Converting into the Ultra Low NOx mode at 850 °C

Mode of operation
At burner start up, within the lower temperature range (< 850 °C) the central airgas nozzle supplies the burner with 80% of the needed combustion air. This guarantees a secure start performance.

As soon as the burner accelerates into the warm mode the central airgas nozzle feeds the burner just with 5% of the combustion air. This leads to the "flameless combustion" with accordingly low NOx emissions.

Burner 1610 series within a burner bridge
Low performance burner 1550 series
Rebuild of a zone of "normal burners" to an Ultra Low NOx burner 1610 series
Burner 1610 series in hot mode with "flameless combustion"