



GTS CONTROLS & ENERGY SYSTEMS PVT. LTD.

Combustion Solutions.
Built for Performance.

NOZZLE MIX BURNER

NMB SERIES

ENGINEERED FOR EFFICIENT INDUSTRIAL HEATING

Engineered for high heat release, stable flame characteristics, and efficient combustion performance. Designed for reliable operation in reheating, melting, forging, and heat treatment furnaces with Natural Gas, LPG, and other gaseous fuels.



KEY FEATURES

- ✓ Capacity Range: 30 kW to 1000 kW*
- ✓ Fuel: LPG / Propane / Natural Gas /
- ✓ Syn. Gas/Coal Gas/producer Gas/BFG / Other Low Calorific Gases
- ✓ Max. Air & Gas Pressure at Inlet: 45 mbar
- ✓ Controls: Ratio Control, Mass Flow
- ✓ Max. Preheated Air Temperature: 450°C
- ✓ Low pollutant emission
- ✓ High Flow Turn down range: 1:10
- ✓ Excellent flame stability
- ✓ No Flashback due to Separate Air & Gas Inlets
- ✓ Round/ Square/ Alloy Jacketed Block Options
- ✓ Ignition: Direct Spark Ignition / Pilot Burner

* Higher Capacity Range Available on request



HIGH FLAME
INTENSITY



NO FLASHBACK
DESIGN



MULTI FUEL
CAPABILITY



WIDE TURN
DOWN RANGE



APPLICATIONS

- Billet Reheating Furnaces
- Aluminium Melting Furnaces
- Forging Furnaces
- CGL Furnaces (Non-Ox)
- Roller Hearth Furnaces
- Bell Annealing Furnaces
- Tempering & Stress relief Furnaces
- Patenting Furnaces
- Melting furnace for Frits
- Incinerators



PRODUCT DESCRIPTION

The NMB series burners are high-capacity nozzle mix burners where combustion air and fuel gas are mixed only at the discharge point. The swirling air stream creates a vortex that rapidly entrains fuel gas, resulting in intense combustion, excellent flame stability and high heat transfer efficiency. Suitable for operation with both cold and preheated combustion air, providing energy savings and reliable furnace performance.



BURNER PARAMETERS (NATURAL GAS)*

Model	Maximum Burner Capacity (kW)	Flame Length (mm)	Air connection @burner inlet	Gas connection @burner inlet	Combustion Air Pressure @Inlet (mbar)
NMB-40	40	150-200	3/4"	3/8"	45
NMB-80	80	200-300	1-1/4"	3/4"	45
NMB-120	120	200-500	1-1/2"	1"	45
NMB-200	240	300-800	2"	1-1/4"	45
NMB-400	400	300-1000	3"	1-1/4"	45
NMB-600	600	500-1200	3"	1-1/2"	45
NMB-1000	1000	700-1500	4"	2-1/2"	45

*Based on Natural Gas with Calorific Value of 8600 Kcal/Nm³, operating in stoichiometric ratio at nominal capacity. Results may differ depending on actual site & operating conditions.



MECHANICAL CONSTRUCTION

- Burner Body* : Cast Iron
 - Gas Adjuster (Tuning Valve) : Cast Iron
 - Burner Block : Refractory (1750°C)
 - Flame Retention Nozzle Pipe : SS 304
 - Mounting Flange : Carbon Steel
 - Orifice / Orifice Plate : Carbon Steel / SS304
 - Peep Sights : Brass
- Other options available

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