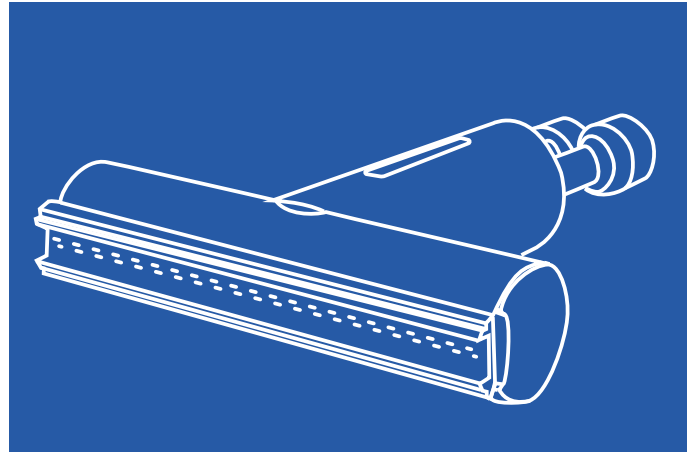


GLASS FINISHING TECHNOLOGY

- High heat transfer rates
- Easy installation
- Uncompromised safety
- Total reliability



The Concept

GLASS FINISHING TECHNOLOGY is composed of a large range of FMT gas burners with FLAMOXAL FIRE control systems, specially designed for glass, crystal and quartz.

Very often, the forming process gives rise to numerous micro-defects on the glass surface, which alters the quality and appearance of the final product.

These defects can be minimized – or even eliminated – through our FMT range of burners, which are dedicated to forming, edge melting, polishing and localized heating applications. And thanks to the wide variety of burners, your equipment is well adapted to a great many configurations, no matter what the fuel source.

FLAMOXAL FIRE equipment is a gas-distribution and regulation cabinet for the supply of the oxy-fuel burners (especially FMT type). It can manage up to eight FMT burners.

GLASS FINISHING TECHNOLOGY is particularly appropriate for the problems of flame work where quality, efficiency and profitability are essential.

Applicable Industries

GLASS FINISHING TECHNOLOGY is used in various glass industries, such as:

- Food and Beverage
- Pharmaceutical
- Beauty and Cosmetics

Special Features

GLASS FINISHING TECHNOLOGY is composed of:

- FMT burners: Designed with stainless steel, these oxy-burners offer you safe and flexible operation thanks to the external mixing of gases. You can use them with either natural gas or hydrogen, and they integrate seamlessly into your glass conveyor. Our FMT burners exist in various shapes and lengths and cover a wide power range, providing optimum flame treatment for all types of glass articles.
- FLAMOXAL FIRE: A complete control system in compliance with EU directives, this equipment includes gas-distribution systems, safety shut-off valves and ignition and flame-detection equipment. Additionally, FLAMOXAL FIRE complies with the most stringent standards and safety codes for safe operation on customer machinery and production lines.

Model Range

FMT BURNERS:

- Truly safe to use: external mixing of oxygen and gases with flame stability
- Economical and non-polluting technology: can be adapted to suit any manufacturing and finishing process
- Uniform flame: the flame is spread through multiple alternating gas and oxygen inlets
- Adjustable flame: neutral, oxidizing or reducing

1/ Cylinder

Application concerned: localized heating / forming

Burners:

- FMT-C machine model
(burner to be installed on machine)
- FMT-CM manual model
(hand-operated burner)

2/ Rectangular

Application concerned: continuous operation / edge melting / polishing

Burners:

- FMT-R machine model
(fluids supplied at the sides)
- FMT-RE machine model
(fluids supplied at burner extremity)
- FMT-RL machine model
(lips on burner face, fluids supplied from back of burner)
- Drilled model
(fluids supplied from back of burner)

| Type | GAS FLOW RATE Nm ³ /H | | FLAME DIAMETER (MM) |
|-----------|-------------------------------------|----------------|---------------------------|
| | NG | H ₂ | |
| FMT-C-15 | 0.25 | 1 | 7 |
| FMT-C-18 | 0.4 | 1.6 | 10 |
| FMT-C-25 | 1 | 4 | 15 |
| FMT-C-28 | 1.2 | 4.8 | 20 |
| FMT-C-35 | 2 | 8 | 24 |
| FMT-CM-15 | 0.25 | 1 | 7 |
| FMT-CM-18 | 0.4 | 1.6 | 10 |
| FMT-CM-25 | 1 | 4 | 15 |
| FMT-CM-35 | 2 | 8 | 24 |

| Type | GAS FLOW RATE Nm ³ /H | | NUMBER OF ROWS |
|--------------|-------------------------------------|----------------|-------------------|
| | NG | H ₂ | |
| FMT-R-40 | 0.84 | 3.04 | 3 |
| FMT-R-50 | 1.05 | 3.8 | 3 |
| FMT-R-60 | 1.6 | 6.2 | 4 |
| FMT-R-80 | 2.2 | 8.4 | 4 |
| FMT-R-100 | 2.8 | 10 | 4 |
| FMT-RE-20 | 0.42 | 1.52 | 3 |
| FMT-RE-30 | 0.63 | 2.28 | 3 |
| FMT-RE-40 | 0.84 | 3.04 | 3 |
| FMT-RL-80 | 1.1 | 4.2 | 2 |
| FMT-RL-150 | 3.15 | 11.25 | 3 |
| FMT-RL-250 | 7 | 25.4 | 4 |
| FMT 40 PP 2R | 0.56 | 2 | 2 |
| FMT 80 PP 2R | 1.1 | 4.2 | 2 |

FLAMOXAL FIRE control systems:

A fluid cabinet houses the fuel and oxygen lines, with each line ensuring the filtering, control and display of pressure delivered to the burners.

These systems include:

- An electrical cabinet with intuitive touch-screen panel for easy operation
- Oxygen and fuel manifolds equipped with solenoid valves to supply up to eight burners
- A hydrogen detector
- Ignition and flame-detection equipment (optional)

These systems are compatible with:

- Gases: natural gas, hydrogen
- Oxidant: oxygen
- Low pressure supply: a few mbar

Related Offer

GLASS FINISHING TECHNOLOGY is part of our **Nexelia for Glass Finishing** solution, which is designed and tailored to meet your specific needs. This comprehensive offer combines the best of Air Liquide's gases, application technologies and expert support. As with all solutions under the **Nexelia** label, we work closely with you to pre-define a concrete set of results, and we commit to delivering them.

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