

Beralmar ENERGIES *newsletter*

ENGINEERING IN COMBUSTION SYSTEMS AND
NEW ENERGIES FOR A SUSTAINABLE FUTURE

LEADERS IN COMBUSTION AND NEW ENERGIES

*We offer the most complete range of
combustion equipment on the market,
operating with all available fuels for drying
and firing heavy clay products.*



BERALMAR provides all types of equipment and engineering projects for drying and firing processes. All equipment is designed and manufactured in our facilities.

The offer couldn't be more complete in combustion equipment for both dryers and kilns. BERALMAR is distinguished by its will of finding solutions for any new available fuel.

BERALMAR is a supplier who creates and generates technology. Its R&D Department proves it and it enables a non-stop evolution of the equipment and projects it proposes as well as the development of new prototypes.



A BRAND OF **EQUIPGROUP**



BRAMPTON BRICK Project 1(CANADA)

Brampton Brick, one of Canada's leading brick manufacturers, has entrusted Beralmar Energies with a major modernization project aimed at upgrading its drying and firing processes. The objective was clear: to improve energy efficiency, enhance product quality, and increase overall operational performance.

The project included the supply and installation of advanced combustion and control equipment, featuring:

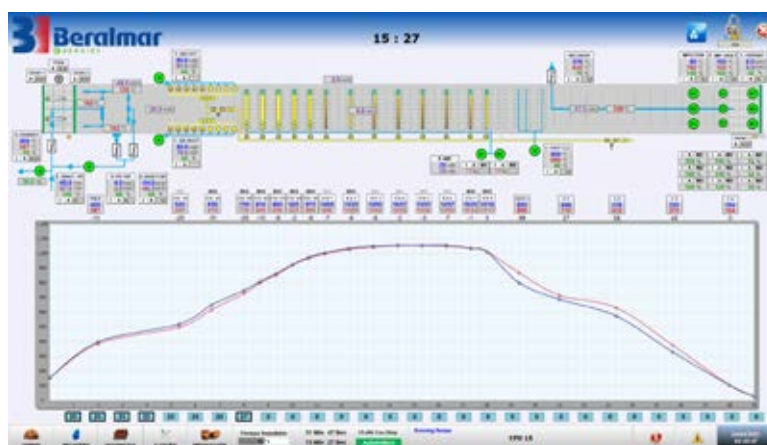
- ▶ 18 high-speed gas burners, model **FOC20/ML**
- ▶ 5 groups of high-speed gas burners, model **FOC20/MV**
- ▶ 8 impulse gas injector groups, model **ICV**
- ▶ **1 VA-10 air vein**, with a thermal capacity of 1,000,000 kcal/h

In addition, the dryer and tunnel kiln were equipped with **MICROSEC** Control and **MICROBER** Control systems respectively,

enabling continuous monitoring and precise control of the entire production process.

As a result of this modernization, Brampton Brick has achieved higher production efficiency, improved product quality, and increased operational capacity. All systems are fully operational and delivering the expected performance.

Beralmar Energies would like to thank Brampton Brick for their trust. This successful project reinforces our commitment to delivering innovative, reliable, and efficient solutions for the ceramic industry.



BRAMPTON BRICK Project 2

Following the success of the previous modernization project, Brampton Brick has once again placed its trust in Beralmar Energies, awarding a new contract to upgrade an additional tunnel kiln.

Scope of supply:

- ▶ 5 sets of 16 high-speed burners, model **FOC-20**
- ▶ 8 sets of 16 and 18 impulse burners, model **ICV**
- ▶ Complete gas ramp system, both vertical and lateral
- ▶ A new **SCADA system** designed for full process automation and control

The new SCADA system ensures precise monitoring of kiln operation, providing stable firing conditions, consistent product quality, and optimized energy consumption.

With this second modernization, Brampton

Brick further strengthens production reliability and energy efficiency, consolidating the high-quality standards achieved in previous projects. This continued collaboration highlights Beralmar's long-term commitment to its customers and to technological excellence in the ceramic sector.



IDEAL BRIQUE - Tunisia

In Tunisia, Ideal Brique has successfully completed a major modernization of its production facilities with the support of Beralmar Energies, reinforcing its industrial capacity and process reliability.

The project covered three rapid dryers and two tunnel kilns, reaching a total production capacity of 1,600 tons per day.

Dryers equipment supplied:

- ▶ 6 air vein gas burners **VA-3000** (3,000,000 kcal/h)
- ▶ 3 air vein gas burners **VA-2000** (2,000,000 kcal/h)
- ▶ Complete **MICROSEC automatic control system**

Tunnel kilns equipment supplied:

- ▶ 4 sets of 16 high-speed burners **FOC20/MV**
- ▶ 16 high-speed side burners **FOC20/ML**
- ▶ 16 sets of 16 impulse burners **ICV**
- ▶ Complete **MICROBER automatic control system**

With all systems fully operational, Ideal Brique has achieved improved production efficiency, enhanced product consistency, and highly reliable process control.

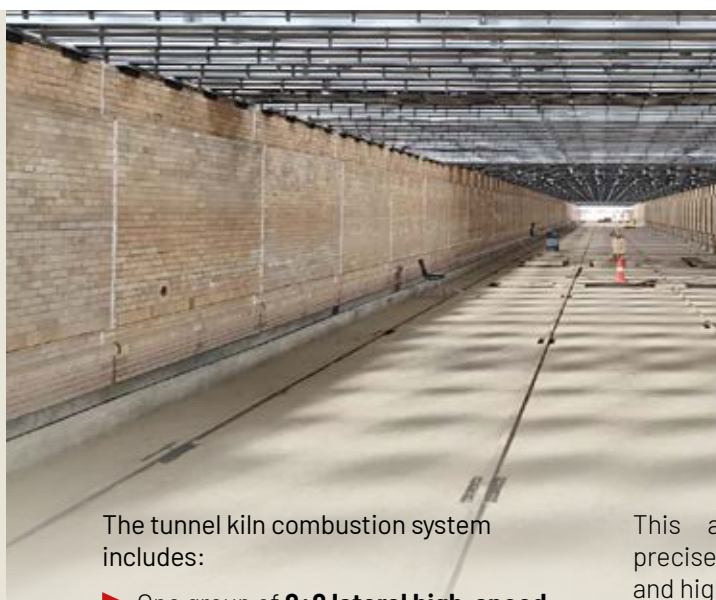
Beralmar Energies thanks Ideal Brique for their confidence and is proud to mark its first reference in Tunisia, strengthening our presence in the region and our commitment to innovative combustion solutions for the heavy clay industry.



AL SHEMAL IRAQ

BERALMAR Energies has been selected to supply the complete combustion systems for a new dryer and tunnel kiln at Al Shemal, as part of an ongoing brick factory project designed to reach a production capacity of 1,200 tons per day.

The scope of supply includes a complete and highly flexible combustion solution for both drying and firing processes. For the dryer, the installation comprises six gas line burners with thermal capacities of **2,908 kW** and **1,163 kW**, ensuring stable and efficient heat distribution.



The tunnel kiln combustion system includes:

- ▶ One group of **8+8 lateral high-speed burners**, model **FOC/ML**
- ▶ One vertical group of **22 high-speed burners**, model **FOC/MV**
- ▶ **14 groups of 22 dual-fuel injectors (GAS-HFO)**, model **ICV/GT**
- ▶ Complete **gas safety ramps** and **HFO filtration and preheating unit**

This advanced configuration guarantees precise temperature control, uniform firing, and high energy efficiency, while providing full operational flexibility between **natural gas** and **heavy fuel oil (HFO)**.

This new ongoing project once again demonstrates the confidence placed in **BERALMAR Energies** by leading brick manufacturers and reinforces its position as a global benchmark in advanced combustion technologies for the heavy clay industry.



COSENTINO - SPAIN

BERALMAR ENERGIES has successfully completed the supply of air vein gas burners for Cosentino (Spain), marking the third project carried out for this customer and further consolidating the strong collaboration between both companies.

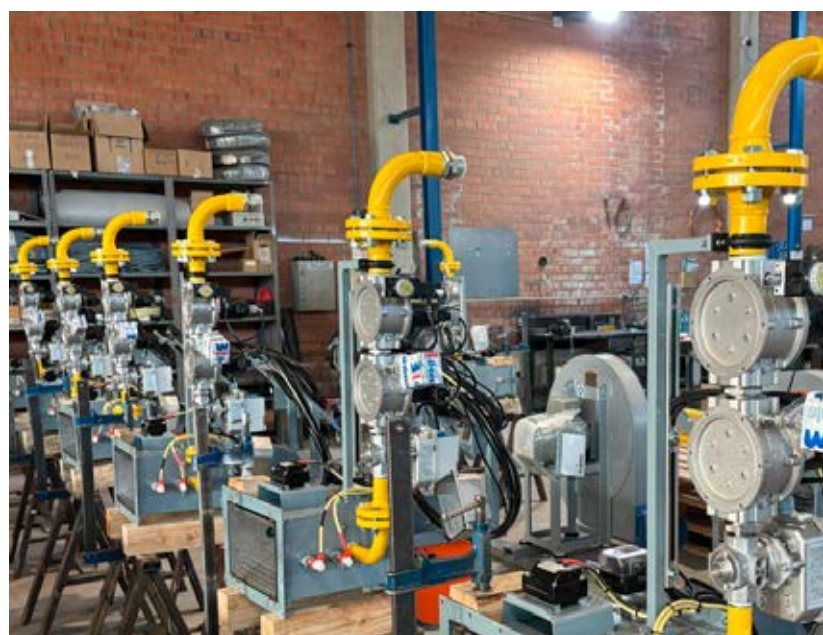
The supplied burners operate with gas feeding the flame while the air flow to be heated circulates in a parallel direction, ensuring optimal combustion through the strategic design of internal deflectors. This configuration guarantees high thermal efficiency and stable performance under demanding operating conditions.

The equipment integrates comprehensive **safety, regulation, and control systems**, along with an advanced gas flow adjustment system that automatically adapts to temperature, humidity, and other

predefined process parameters. This intelligent regulation optimizes performance in line with the specific requirements of the process.

BERALMAR's air vein burner range covers thermal capacities **from 290 kW to 17,500 kW**, providing flexible solutions for a wide range of industrial applications.

This completed project reflects the continued trust placed in **BERALMAR ENERGIES** and reaffirms its commitment to delivering reliable, efficient, and high-performance combustion solutions.



ACEITES GUADALENTÍN - SPAIN

As part of its strategy to develop high-efficiency and sustainable thermal solutions, Beralmar Energies has designed and implemented a CSG cyclonic combustion chamber specifically engineered to operate with SYNGAS (synthesis gas) as fuel.



The CSG combustion chamber is designed to operate at thermal capacities of up to **3,000,000 kcal/h (3,500 kW)**, ensuring stable and controlled combustion despite variations in SYNGAS composition and calorific value. Its cyclonic design optimizes the air-fuel mixture, improves flame stability, and guarantees high thermal performance under demanding operating conditions.

The use of SYNGAS offers significant advantages:

- ▶ Substantial reduction of CO₂ emissions
- ▶ Efficient utilization of renewable or residual gases
- ▶ High energy efficiency without compromising operational reliability

This development reflects BERALMAR's commitment to designing robust equipment adapted to new energy scenarios and evolving industrial demands. The experience gained in this project further strengthens BERALMAR's expertise in alternative fuels and reinforces its role in the transition toward a more efficient and sustainable industry.

PORTUGAL

BERALMAR Energies has successfully completed the supply of high-speed burner groups, model FOC20/MV, for Preceram (Portugal), further strengthening its presence in the Portuguese market and consolidating a solid and long-standing collaboration with the customer.

The supplied units consist of **high-speed burner groups equipped with 11 burners each**, including complete **natural gas safety ramps**, ensuring reliable and safe operation while optimizing the firing process.

The FOC20/MV model is characterized by its high thermal injection capacity of **200,000 kcal/h** and its ability to generate a turbulent flow inside the kiln. This guarantees uniform heat distribution and significantly reduces breakage during the critical preheating phase.



Thanks to its flexible design, the system allows precise regulation of operating parameters, facilitating adaptation to different kiln positions and materials, and ensuring consistent firing quality.

This completed project reinforces the mutual trust between **BERALMAR Energies** and Preceram, while consolidating BERALMAR's position in Portugal as a reference supplier of efficient, high-performance combustion solutions.



BOUTEFAHA - TUNISIA

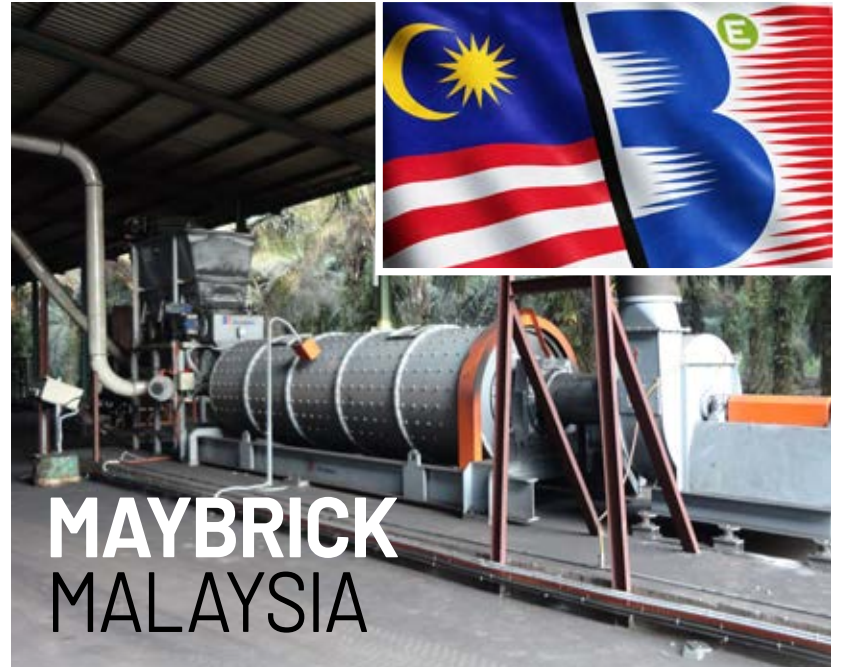
New Order of Gas line burners in Tunisia. Beralmar has received an order for two gas burners models VA/5,000 and VA/2,000, with capacities of 5,813 kW and 2,326 kW.

The equipment will be installed in a new dryer, where it will help optimize airflow and enhance the efficiency of the drying process.

Our VA models are engineered to deliver consistent, controlled airflow, ensuring uniform and efficient drying. Built with industrial-grade robustness, they

provide reliable performance even in demanding production environments.

This project strengthens Beralmar's presence in international markets and showcases its expertise in delivering tailored solutions for industrial plants.



MAYBRICK MALAYSIA

BERALMAR Energies has once again been selected to supply a solid firing system PROMATIC to a new customer in Malaysia, for a production capacity of 450 tons per day. This installation represents the fourth PROMATIC system in the country, further consolidating the trust of the Malaysian market in BERALMAR's technology and solutions.

The PROMATIC system, which integrates a fuel feeder, micronized mill, closed distribution circuit, and automatic injectors, ensures efficient and homogeneous combustion while optimizing fuel consumption. Its robust and flexible design makes it suitable for all types of production, allowing the use of cost-effective solid fuels without compromising product quality.

In addition, PROMATIC offers low maintenance requirements,

high hygiene standards, and fully automated process control, ensuring reliable and efficient operation over time.

With this new installation, **BERALMAR Energies** continues to strengthen its presence in the Malaysian market, delivering solutions that combine efficiency, sustainability, and reliability for the clay industry.

PROMATIC advances in Malaysia: efficiency and reliability for the clay industry.



GLEN-GERY USA

Order of 8 High-Speed Burners Model FOC10 for the USA

We are pleased to announce the supply of 8 High-Speed Burners Model FOC10 to a client in the United States. The FOC10, with 116 kW (~395,000 Btu/h), ensures turbulent flow and uniform temperature in the critical preheating phase, delivering consistent performance and reliability in every cycle.

Our burners are custom-designed to meet each client's specific needs, combining advanced technology with maximum adaptability. They can



also be installed on existing systems from other manufacturers, providing an efficient solution without the need to replace the entire setup.

This order highlights our commitment to innovation, customization, and international growth, bringing top-tier technology wherever our clients need it.



BERALMAR Services: Helping Customers Around the World Achieve More in 2025

In 2025, over 50 customers from around the world relied on BERALMAR ENERGIES to keep their dryers and brick kilns running at peak performance.

Our services combine thermal balance studies, data-driven analysis, and expert diagnostics to identify opportunities for improving efficiency, reducing energy consumption, and enhancing production quality. We provide tailored solutions designed to optimize each installation, helping plants operate smoothly, save costs, and maximize output.

By partnering with Beralmar, customers do not just maintain their systems, they unlock their full potential, ensuring consistent performance, higher productivity, and long-term operational excellence.



SPAIN

Beralmar Energies has been selected to modernize an existing dryer, with the goal of optimizing process control and improving the plant's energy efficiency.

The project includes upgrades to the ventilation system that enhance heat recovery, allowing more efficient use of kiln energy and improving drying uniformity. An air flow measurement system will also be installed to accurately assess heat recovery towards the dryer, ensuring a proper thermal balance.

In addition, the incorporation of pre-chambers and new doors will reduce air and heat losses during operation, increasing the stability and performance of the dryer.

These improvements will enable a more efficient, controlled, and sustainable drying process, increasing the overall performance of the plant. With this project, Beralmar Energies reaffirms its commitment to innovation and excellence in the ceramic industry.



NEXE GRUPA- Bosnia and Herzegovina

BERALMAR ENERGIES has received a new order in Europe from a long-standing customer for the supply of VA/2500 gas burners, each with a unit capacity of 2,500,000 kcal/h (2,907 kW).

Our VA range is the ideal solution for installations that require uniform, high-quality heating and robust, reliable operation, ensuring an efficient and trouble-free drying process.

This new project strengthens our customers' confidence in BERALMAR ENERGIES, reinforcing our commitment to innovative, high-performance combustion solutions.



SUNSHINE BRICK BANGLADESH

BERALMAR ENERGIES continues to expand its presence in South Asia with a new order from a customer who has already trusted our solutions in the past.

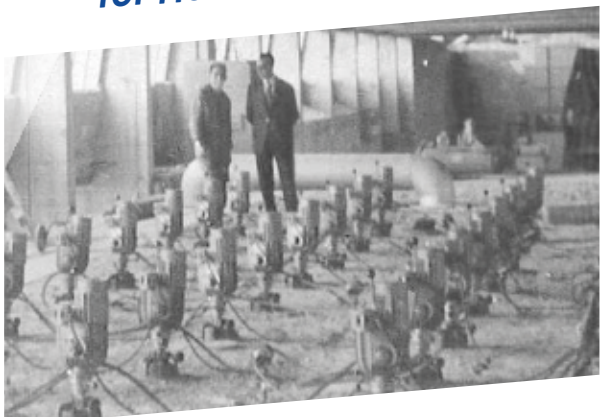
This time, we will carry out an increase in the gas firing capacity of an existing tunnel kiln, enabling them to boost production and improve energy efficiency.

To achieve this, we will supply our well-known range of FOC20 high-speed burners, configured both vertically and laterally.



Since 1964

BERALMAR is founded as a manufacturer of heavy oil burners for Hoffmann Kilns in Spain.



1970s

Gas Innovation

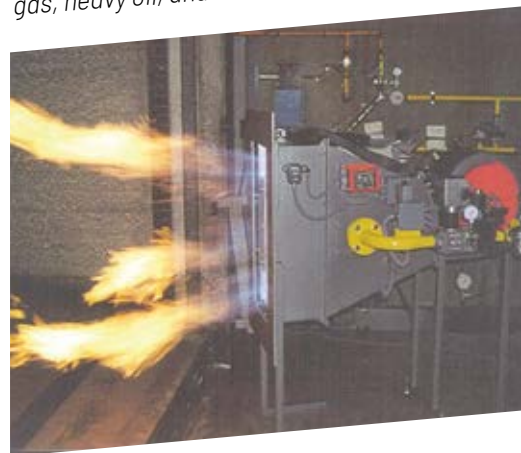
Launches the first gas burner systems for the heavy clay sector.



1980s

Drying fuel expansion

Introduces drying solutions powered by gas, heavy oil, and solid fuels.



Firing Solid Fuel Systems

Delivers the first solid fuel installations using the PROMATIC SYSTEM.

1990s



2000s

Dual BIOGAS-GAS Development

Develops dual BIOGAS-GAS groups for drying and firing solutions



2010s

Syngas Development:

Begins development of dual SYNGAS-GAS burners for Tunnel Kilns.



2020s

Hydrogen Development

BERALMAR developing the first Hydrogen burner in our Kiln test facilities.



High-Temperature Gas Burners

FOC-HT & ICV-HT burners operate with preheated air from the tunnel kiln, reducing gas consumption and emissions.

Dryer Electrification

Electric heat pump solutions for dryers enabling up to 100% emission-free drying.



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