

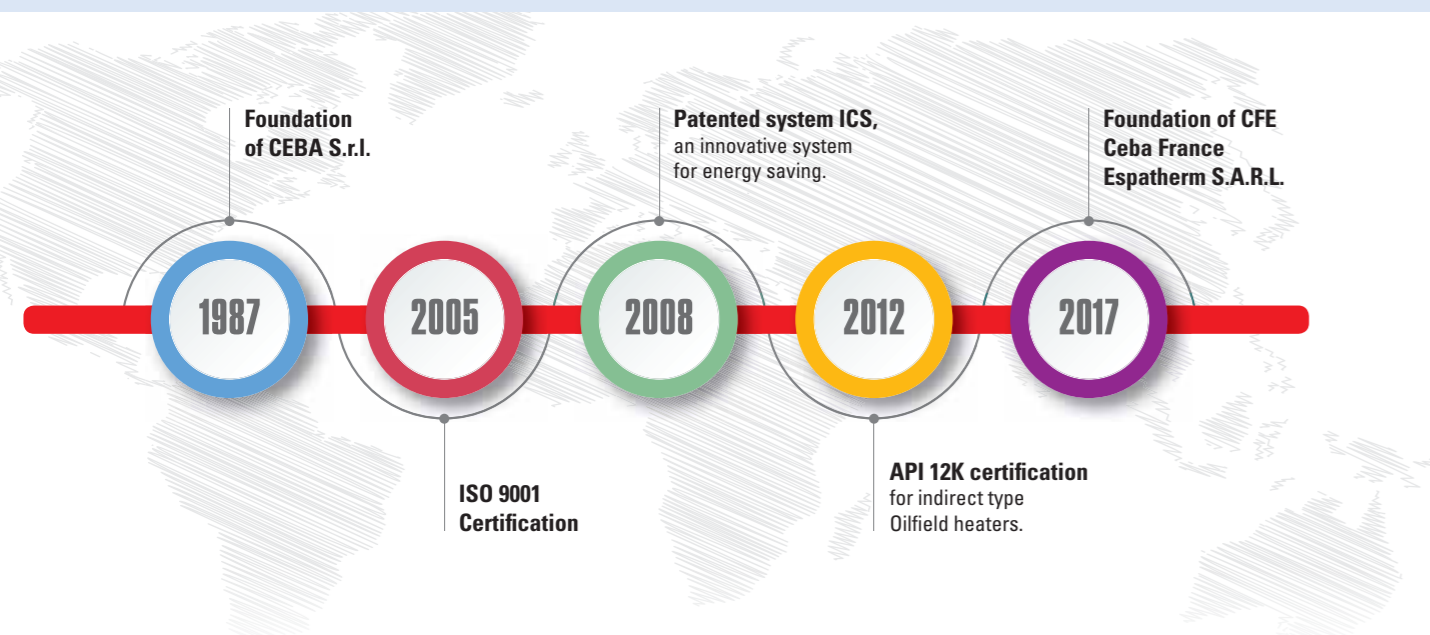
ceba

Mission: to be a world leader in combustion, offering the market innovative, customized and reliable solutions, focusing on energy saving and sustaining our development from a financial, social and environmental perspective.



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COMPANY PROFILE



RESEARCH AND DEVELOPMENT

Innovation, research and development play a key role in CEBA's policy, with the aim to keep the innovation continuously alive and supply every time the best technology to its Customers.

The investment on the research concerns not only the design and manufacturing but also the testing area included in its facilities. CEBA boasts a test rig area where two test heaters are installed for test of burners and development of new combustion solutions.

CERTIFICATIONS AND STANDARDS

CEBA is certified ISO 9001: 2015, the latest issue of the international standard for Quality Management Systems, for providing assurance about the ability to satisfy quality requirements and to enhance Customer satisfaction in supplier-Customer relationships. The highly qualified staff and the control of the goods in all the phases of the production, grants CEBA to face the market only with very high quality products. CEBA is also qualified among the world's most distinguished Engineering and Contractor companies and the whole design of each

project is realized from basic to detailed engineering according to Customers' specification and international standards and directives.

CUSTOMER CARE

CEBA's services are extended also to after sales and spare parts. Actually CEBA assists the Customer during installation, commissioning, start-up, start-in production, maintenance. Moreover CEBA is always available to supply any spare parts either finding it on the market or producing it.

ENVIRONMENT AND ENERGY EFFICIENCY

One of the main goal of CEBA's production is the achievement of environmentally friendly solutions in order to minimize emissions and wastes. In this way, CEBA can assure a low impact on the environment and economical operation by offering products that comply with current environmental regulations. This view is also reflected on its workshop, where CEBA has adopted photovoltaic systems.



PROCESS BURNER

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CEBA S.r.l.
Via Matteotti,117
24069 Trescore Balneario (BG) - Italy
Phone: +39 035 941799
Fax: +39 035 941900
www.cebasrl.com
info@cebasrl.com



PROCESS BURNER

PROCESS BURNERS

Burners are the heart of any fired heater and furnaces in the refining, petrochemical and chemical process industries.

CEBA is constantly researching & developing cutting edge solution for Oil & Gas burners to reach best performances and lowest emission in force of the world's best available technology and in terms of reliability and efficiency.

CEBA manages the whole production process, from engineering to final product manufacturing.

Burners are designed according to API 535 standards and can be customized to fit customers' request.



TEST AREA

In the CEBA test area, all the burners are tested in order to measure the performance under a wide range of real-world operating conditions. Starting from the experimental data, the R&D department focus on researching new technical solutions to set new standards in reliable performance and cleaner environmental practices.

The test area is equipped with test heater for refinery burners up and test heater vertical type for radiant burners.

Test rig's instrumentation guarantees the possibility to carry out test using fuel oil or fuel gas with different composition. The test rig is also equipped with a gas mixing station to assure a perfect combustion gases mixing and to guarantee the correct mixture's Wobbe Index, matching the characteristics of the test gas with the plant's process gas.



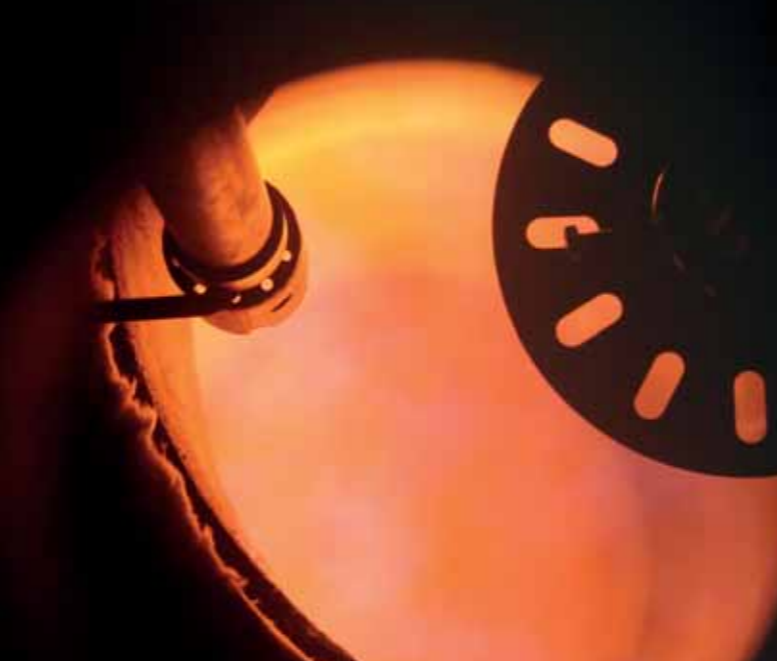
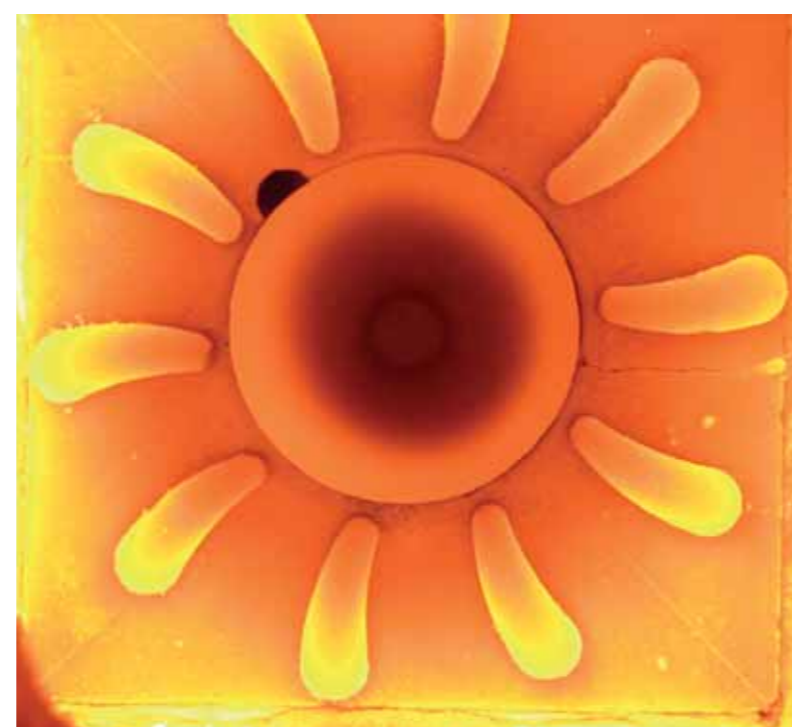
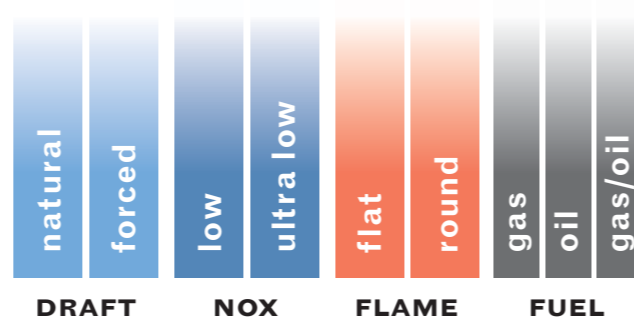
BURNERS FOR REFINERY HEATERS



CEBA design a broad range of conventional burners, low NOx and ultra low-NOx process burners.

CEBA burners' design allows the use of a wide range of fuel gases – such as natural gas, waste gas and light, medium or heavy oils – to be fired either on

their own or in combination. The combustion air can be supplied to the burner in natural draft or forced draft modes. Depending on the furnace and on the heater, different flame shape may be required to properly operate, such as flat or round.



CUSTOMER CARE AND SPARE PARTS

CEBA is the sole company entitled to produce and sell all the original spare parts of the burners provided since 1960.

CEBA can supply a wide range of spare parts including but not limited to MAC burners, round-burners and flat flame burners in the MOV series burners, gas nozzles, tips, jets and oil atomizer, complete gas gun, oil gun (SAO), burner

refractory, complete pilot, ignition system and ancillaries.

CEBA can also support the customer in the revamping of the existing plants replacing the old burners with new ones, reaching higher performances and lower NOx emissions. The burners design can be customized in order to be installed on the existing heaters reducing as much as possible the required modifications.



TYPICAL APPLICATIONS

- **Refining** (atmospheric distillation unit, coking units, hydrocrackers, hydrogen reformers, hydrotreaters, hot oil heaters, isomerization unit, visbreaker).
- **Petrochemical and fertilisers** (EDC crackers, hydrogen reformers, methanol reformers, syngas reformers, steam cracker, steam reformer, ammonia reformers).



BURNERS FOR PETROCHEMICAL

CEBA design burners which provide the heat needed for the chemical reaction in the reformer and in the Ethylene Cracking Furnaces.

CEBA is providing latest technology in the design of the following burners applied in main petrochemical application:

- **flat flame burner** (wall and floor fired)
- **down fired burners** commonly used in top-fired reformers,
- **radiant wall burners** commonly used in the radiant wall steam reformer and in the cracking heaters in Ethylene Plants.

FUEL SKID AND BURNER MANAGEMENT SYSTEMS

Fuel gas skid is a modular unit complete with piping, supports, tubing, valve assemblies, filters, instrumentation, wiring on board and junction boxes.

CEBA design and produce fuel skid for oil & gas market since more than 25 years.

Engineering department develops detailed engineering starting from basic information and technical specifications complying with the main international standards and according to any local rule requested by the customers (ASME, API, Ghost, EN, ...).

Qualified welders can work on different piping material from carbon steel to stainless steel or other special alloys. Each fuel skid is preassembled mechanically and electrically as much as possible and it inspected and tested according to the applicable codes, standards and specifications.

Burner Management Systems- BMSs- are used for the management of gas and oil burners. Panel features are fully custom-made according to customer requirements and in compliance with the international standards. Control logics are implemented by PLC and/or hardware.