

COMPANY PROFILE

BCE – Burners and Combustion Equipment – srl is a limited liability company registered in Italy since 1987, with offices in via Santa Margherita 450, 21042 Caronno Pertusella (Varese) – Italy.

BCE is manufacturing a wide range of industrial burners, combustion systems, air heaters and thermal oxidizers for the energy and petrochemical markets.

BCE has been developing combustion expertise starting since the 70's years and is producing burners for almost any combustion process; the design is based on a long and well proven tradition of excellence in combustion engineering for the main industrial applications.

The production covers burners for any type of fuel (gaseous, liquid or pulverised fuels) engineered to comply with specific client's technical requirements and emissions levels.

BCE supplies burners to all major boiler manufacturers and complete combustion systems to all major industrial clients for steam and power generation, refineries, chemical and petro-chemical plants, manufacturing industries.

BCE burners are provided to meet the maximum standards of combustion efficiency and the maximum degree of reliability under the most severe operating conditions.

The company will insure a competent and adequate technical assistance to any client everywhere for the installation, commissioning, start-up and maintenance of the equipment supplied.

MANUFACTURING PROGRAM

INDUSTRIAL BURNERS for STEAM GENERATORS

Fuel Gas / Fuel Oil Burners

Burners with single/double air register and manual/automatic drives

Burners with axial flow/impeller and manual/automatic drives

Burners for any type of gaseous and liquid fuels:

- natural gas/process gas/biogas/vent gas/refinery gas
- coke oven gas/blast furnace gas
- diesel oil, kerosene, light/heavy oil, tars

Pulverised Fuel Burners

Burners with double air register with manual/automatic drives and pulverised fuel scroll for coal and solid fuels

Low NO_x and Ultra Low NO_x Burners

Burners with staged combustion air, with/without FGR to wind box for fuel gas/fuel oil firing

INDUSTRIAL BURNERS for HEAT RECOVERY STEAM GENERATORS

Duct Burners

Duct Burners Systems for post firing of fuel gas with exhaust gas from Gas Turbines to HRSGs

Register Burners

Register Burners for post firing of fuel oil and fuel gas with exhaust gas from Gas Turbines to HRSGs

INDUSTRIAL BURNERS for WASTE TO ENERGY SYSTEMS

Start-up and Post Combustion Burners

Burners for start up, support and post-combustion systems for solid waste/bio mass grate fired incinerators and fluidised bed incinerators. Very Low Calorific Value Vent Gas Burners and adiabatic combustion chambers for heat recovery steam generators

INDUSTRIAL BURNERS for HEATERS and FURNACES

Fuel gas / Fuel oil Burners

Natural Draft / Forced Draft Burners for vertical and cabin fired heaters in refineries and petrochemical plants

LOW NO_x Burners

Natural Draft / Forced Draft Burners with tangential vanes air register for efficient and low emissions combustion of fuel gases and heavy oils



COMBUSTION EQUIPMENT

Ignitors

High Energy/High Tension fuel gas electric ignitors
High Energy light oil electric ignitors
Electric ignitors

Flame Detectors

UV/IR Flame detectors

Gas / Oil / Atomising fluid valve & instrumentation trains to burners

Prefabricated skid mounted fuel gas/fuel oil/atomising fluid valve trains & field instrumentation for burners

Fuel gas pressure reducing units

Prefabricated skid mounted fuel gas pressure reducing system designed to specific fuel gas characteristics and inlet/outlet design conditions

Fuel oil pumping and heating units

Prefabricated skid mounted fuel oil pumping and heating unit designed to specific fuel oil characteristics and conditions

COMBUSTION SYSTEMS

Combustion Systems

Complete combustion systems including burners, valve & instrumentation trains, combustion air fans and ducting, flue gas recirculation, flame failure and safety system for boilers and heaters, automatic control systems both for new and old steam generators and heaters.

Full site survey and project evaluation for revamping and gas conversion of existing units in utilities, thermal power station, heaters, furnaces, heating and drying processes in the energy, chemical, food and mineral industries.

BMS - BURNER MANAGEMENT SYSTEMS

Burner Management Systems

BMS with Programmable Logic Circuits designed with failsafe/redundant CPUs, fully programmed and tested to meet the any required international code.

DCS - DISTRIBUTED CONTROL SYSTEMS for BOILERS and HEATERS

Distributed Control Systems

Combustion control systems based on processors or programmable electronic controllers for steam generators, furnaces, heating and drying processes, with PC based Operators Workstations linked with BMS providing full performances guarantee to Clients.

SNCR DENO_x SYSTEMS

SNCR Systems

Selective Non-Catalytic Reduction systems to remove harmful nitrogen oxides from hot flue gases by reaction with urea or ammonia solutions. Supply of complete SNCR systems including storage vessels, pumping sets and injection lances.

THERMAL OXIDIZERS FOR GAS and LIQUID STREAMS

Thermal Oxidizers

Thermal oxidizers for vent gases, biogas from landfills, solvents from industrial drying processes with heat recovery systems

Thermal Oxidisers for Gaseous / Liquid / Waste Waters Streams

Thermal oxidation plants for gaseous/liquid/waste waters streams from chemical/ petrochemical/pharmaceutical processes with heat recovery and flue gas treatment

AIR HEATERS

Direct Fired Air Heaters

Fuel gas/fuel oil direct fired air heaters with/without flue gas recirculation

Hot Gas Generators

Fuel gas/fuel oil direct fired air heaters with hot air/exhaust gas heat exchangers

ORGANISATION

BCE burners know-how is based on long and excellent experiences in combustion engineering. BCE commitment is to secure to Clients full satisfaction providing efficient and reliable design and equipment. Burners and combustion equipment are engineered on job by job basis employing a team of specialized engineers.

BCE is close to Client's requirements and provides full support, detailed and complete technical documentation for the installation of the equipment supplied.

Quality Control Plans are implemented to insure adequate project management, workmanship and materials quality. The company holds a Quality Management System certification ISO 9001:2000.

BCE provides full technical assistance and services from qualified engineers for installation supervision, commissioning and start-up.



For any further information please contact:

BCE S.r.l.

Via S. Margherita, 450

21042 - Caronno Pertusella (VA) - Italy

Phone: +39 02 9657788

Fax: +39 02 9657303

E-mail: info@bceitalia.com

Web site: www.bceitalia.com