



CIB UNIGAS

Let's light up tomorrow



SPECIAL BURNER & EQUIPMENT

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CIB UNIGAS discloses the future with Special Burner & Equipment



If the time is what is able to measure the success of a company, for Special Burner & Equipment and CIB UNIGAS it has always represented the never-ending movement of their talent. The lighting before the flame. The ability to renew and change, according to a market that always asks more and more details, without forgetting the most important values.

A story made of IDEAS, PEOPLE AND VALUES

“ Everything is an exchange of fire, and the fire is an exchange of everything.” Eraclito



What is an intuition, if not being able to see where other people cannot? The idea to refine a burner, for example, when oil was the most available fuel on the market. It was in 1972 when Claudio Pancolini, young and very talented engineer, started to imagine a different future, fueled by natural gas. He managed to make his dream true, building CIB UNIGAS, the first company completely dedicated to the realization of high-elevated standard quality burners. The intuition was right and the company successfully managed to grow through the years, evolving to a joint stock company, passing through the 80s and the 90s with innovative products and a growing trend.

However it is the new millenium that marks the time of different kind of changes: new requests of the emergent markets ask for more flexibility and very fast strategic choices.

On one side, at CIB UNIGAS headquarter, Filippo and Riccardo, Claudio Pancolini's sons, follow their father's footsteps as general director and technical director, while on the other side there is another

important change.

SPECIAL BURNER & EQUIPMENT, with more than twenty years of experience and consciousness in burners department, was born from CIB UNIGAS in order to give a new value to the special burners section, considering also all the values where everything was born.

Special Burner & Equipment develops special burners, starting from their project to their delivery, taking care of every little detail with precision and responsibility.

Responsibility towards clients and suppliers, but also towards the environment in a perspective of saving energy and reducing pollution.

Our focus is TAYLOR **Made** In Italy.

COMBUSTION SYSTEMS apparently im made **POSSIBLE**

Experience and competence never stop

Special Burner & Equipment is an engineering company that realizes combustion systems for the industrial process. Unlike our competitors, able to sell burners for all the applications, we are specialized in technological process plants for the heavy industry and this offers us the advantage of knowing all the dynamics and requests of the field, leading us to realize ideal combustion systems.

Respect IN AND FOR EVERY DETAIL

Respect and responsibility towards other people and towards the environment are imaginary hinges able to guide us in every step of our activities.

COMPANY PHILOSOPHY

"Logic will take you from A to B. Imagination will take you everywhere".

Albert Einstein

If logic and rationality are our pillars, we cannot leave out to talk about imagination and passion that are part of every element of our team.

With our managing directors, engineers, designers and technicians, SPECIAL BURNER & EQUIPMENT has been able to build a strong net of activities that allow the company to interface with a very changing market where the productive circle remains one of the most complex.

Special Burner & Equipment is made of people that believe in what they are creating.



GREEN PHILOSOPHY

The real technology respects the environment.

With the Leaf system and the installation of Inverter, SBE works for a massive saving of energy.

Before every project, the respect for what is around us is always our line of ideal horizon.

The world is not ours, we are just its keepers.

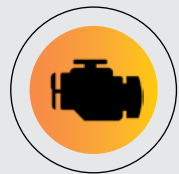
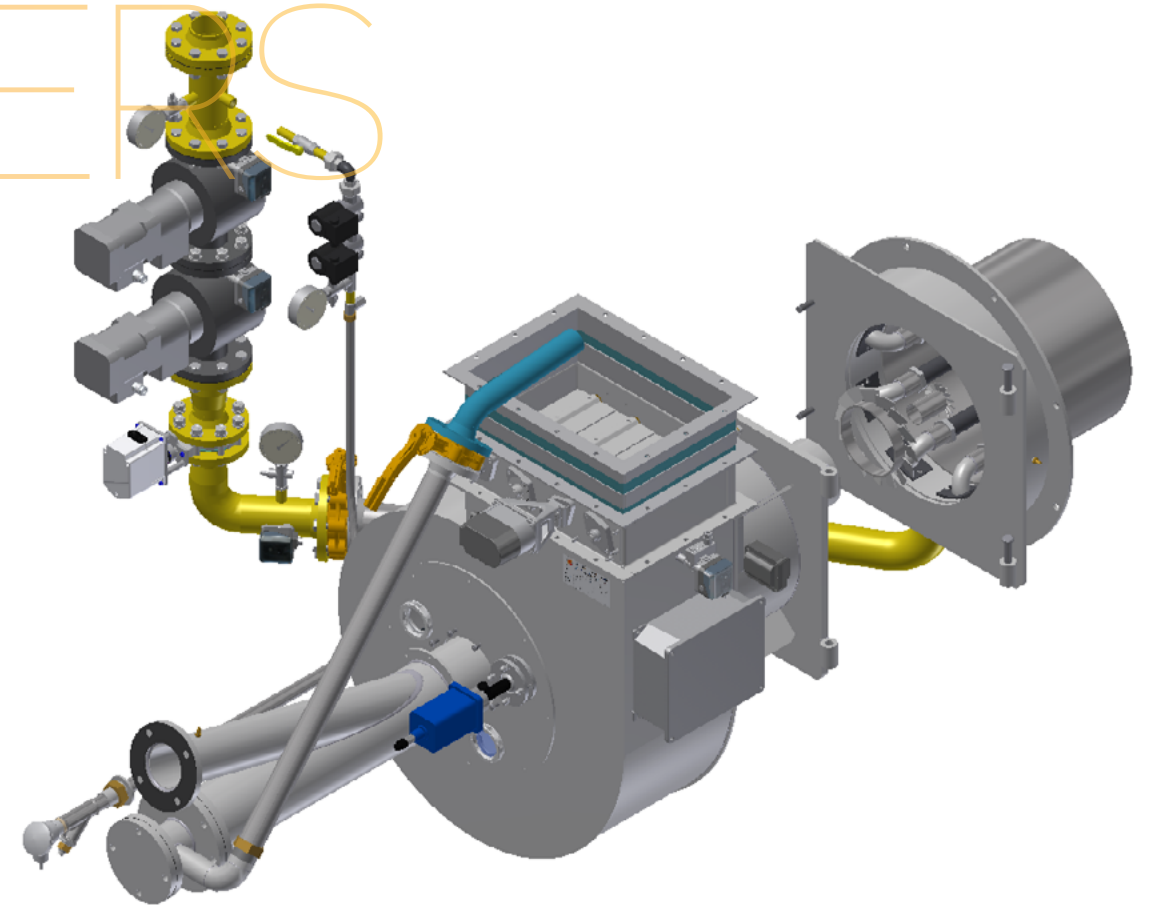
Part of
CIB UNIGAS

SPECIAL BURNERS

Combustion systems FOR EVERY NEED

In different industrial departments, where the standard application is not sufficient, it is necessary to design combustion systems able to satisfy different request, as below:

Mechanical installation interface
Special pressures and temperatures of the fuels
Number of fuels to be used
Special pressures and temperature of combustion air
Combustion chamber typology, screened or adiabatic
Process type (oil & gas, smelting furnaces, dryers , incinerators , etc.).



CONSTRUCTIVE CHOICE

Specific technical and sizing features characterize every plant. Indeed, our burners are designed in order to use new combustion technology on every chamber. From scratch for every type of client.

SERIE

- TI industrial burner
- TM monoblock burner
- T(x)D vacuum burner
- TVT Duct burner
- TV industrial burner in duct
- TUR Register burner
- TSF Solid fuel burner
- TP Plate burner



FUEL CHOICE

With the conscious idea of revalue every industrial waste, every single burner is designed in order to incinerate alternative fuels, often obtained from industrial process waste. In this way, it is immediately possible to save energy thanks to the reduction of fossil fuels consumption and reduction of disposal cost of waste while contributing to a higher quality of our environment.

GASEOUS

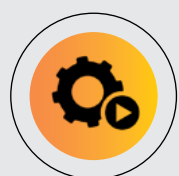
- Natural gas
- GPL
- AFO gas (blast furnace)
- Coal bed methane (CBM)
- Pour gas

LIQUID

- Diesel fuel
- Heavy fuel oil
- Waste oil
- Liquid animal fat
- Chemical waste
- Gasoline
- Paints

SOLID

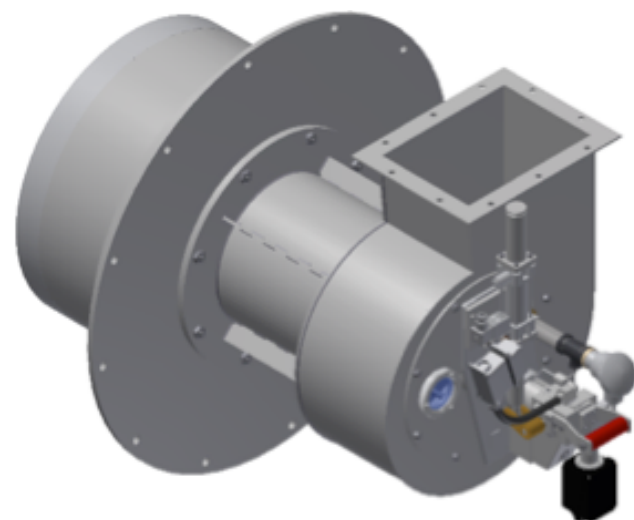
- Coal dust
- Pet coke
- Wood dust
- Sansa
- Animal meal



BMS

It will be easy to command and control the new system with the best management of combustion and safety of the plant. When the application will be fully completed, it will be possible to obtain the best from the plant.

- Electronic ratio
- PLC
- Safety PLC



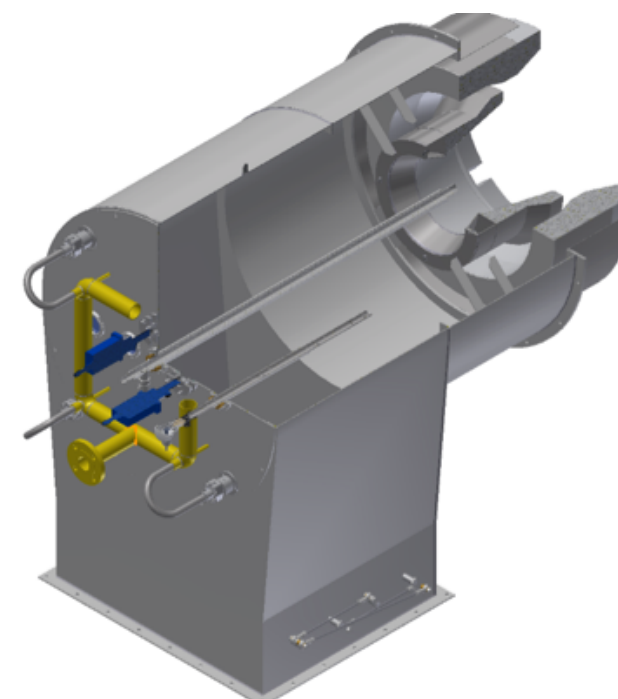
TI INDUSTRIAL BURNER

Industrial burner with dual block fan, designed for every industrial applications and suitable to incinerate every fuel.

Best technics and constructive materials in order to guarantee a higher endurance through the time and a better resistance in the industrial environment.

Sidewall, floor and roof installation of the combustion chamber.

Capacity: 1-40 MW.



T(x)D VACUUM BURNER

Industrial head for application where the combustion air is taken from a natural draft (TND) or forced draft (TFD).

It is built with flame intensifiers made of refractory material in order to generate an effect able to help the draft of the combustion rate.

Ideal for refineries and incinerators.

Capacity: 1.5-16 MW.

TM MONOBLOCK BURNER

Industrial burner with incorporated fan.

Ideal for applications where the traditional fuel is useful to incinerate waste or where the characteristics of the combustion chamber flame needs a customized head structure, while maintaining a simple structure.

Capacity: 200-10.000 kW.



TVT DUCT BURNER

Duct burner, designed in order to work with or without fan.

In this second case, the flow from the plant is useful as combustion air.

This flow can have the same amount of oxygen as in the air, or less.

It is built with an internal structure of AISI in order to resist at the high temperature around.

Capacity: 200-18.00 kW.



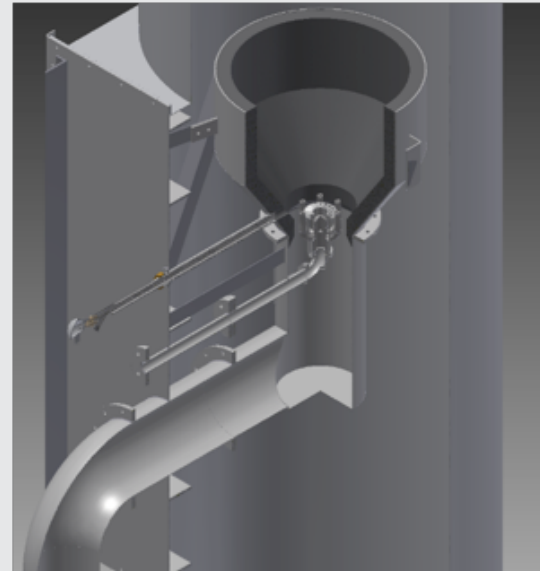
TV INDUSTRIAL BURNER IN DUCT

Industrial burner in duct where one industrial head is installed in one duct.

The fan, externally placed, is able to guarantee the right flow and the right speed of the air at the head of combustion.

This solution allows the combustion of many fuels, that seemed not appropriate for duct applications.

Capacity: 1-10 MW.



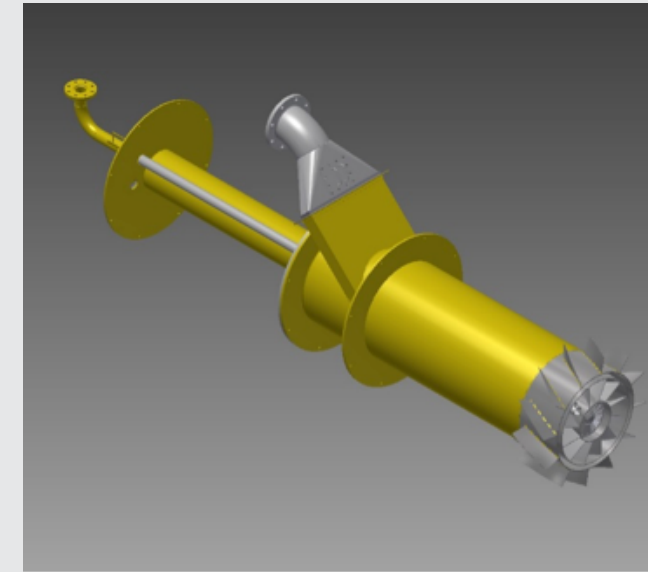
TSF INDUSTRIAL SOLID FUEL

Dual block industrial burner for the combustion of pulverized solid fuel.

It can be useful with every fuel as a support, liquid or gaseous, and it can regulate the flame structure.

The head structure is designed in order to modify the flame shape in a pneumatic way, using the combustion air, with or without the recirculation gas.

Capacity: 1.5-60 MW.



TUR REGISTERED HEAD

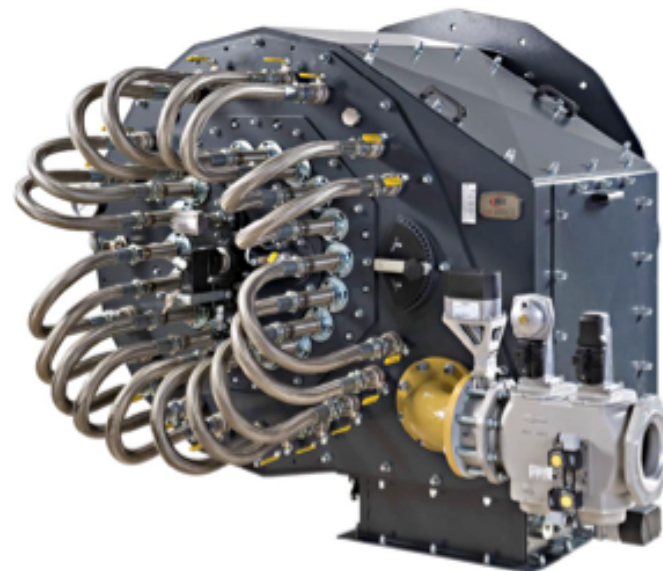
Registered industrial burner for the regulation of the flame. This kind of burner can be designed with or without windbox.

In the second case, the burner is installed in a window, common to the other burners fed by one fan.

The register can be manually or automatically controlled according to every clients' need and it can also be useful in order to isolate the burner in one boiler with different head of combustion.

This kind of burner is projected for medium and high power plants and it can be installed on screened or adiabatic chamber.

Capacity: 10-80 MW.



TP PLATE BURNER

Burner designed in order to be installed on plant where the air flow is managed by the process and the head has to control the combustion.

It can be supplied in order to be removed very easily and re-utilized as a plant start up.

Capacity: 2-20 MW.



Possible APPLICATIONS

ENERGY
CONVERSION

POWER
PLANT

PETROCHEMICAL

CEMENT PLANT

OIL & GAS

INCINERATION

RENDERING

WOOD
INDUSTRY

REFINERY

As many combustion systems we are able to create, as many applications are possible.



"Change is the process by which the future invades our lives".

Alvin Toffler



Our SERVICES

"Everything you can imagine is real." Pablo Picasso

The realization, performed for every job, contemplates a design and a planning able to take care of every detail requested by the client from the project of our combustion systems till their completion.

Thanks to this approach, below what we are able to offer you:



PROCESS ANALISYS

Feasibility study of required plant with related technical tips.



DESIGN

Project drafting and realization of layout, construction drawings and electrical diagrams.



RESEARCH AND DEVELOPMENT

Research of new technologies, materials and component for the continuous product improvement.



POST-SALE

SPARE PART

Burner and plant commissioning, technical support and after-sale service.

Realization and supply of spare parts and third parts components.



START UP

Burner and plant commissioning, technical support and after-sales service.



DOCUMENTATION

Documentation building according to internal standards and to customer specifications.



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Contact us, We will value together your needs!