



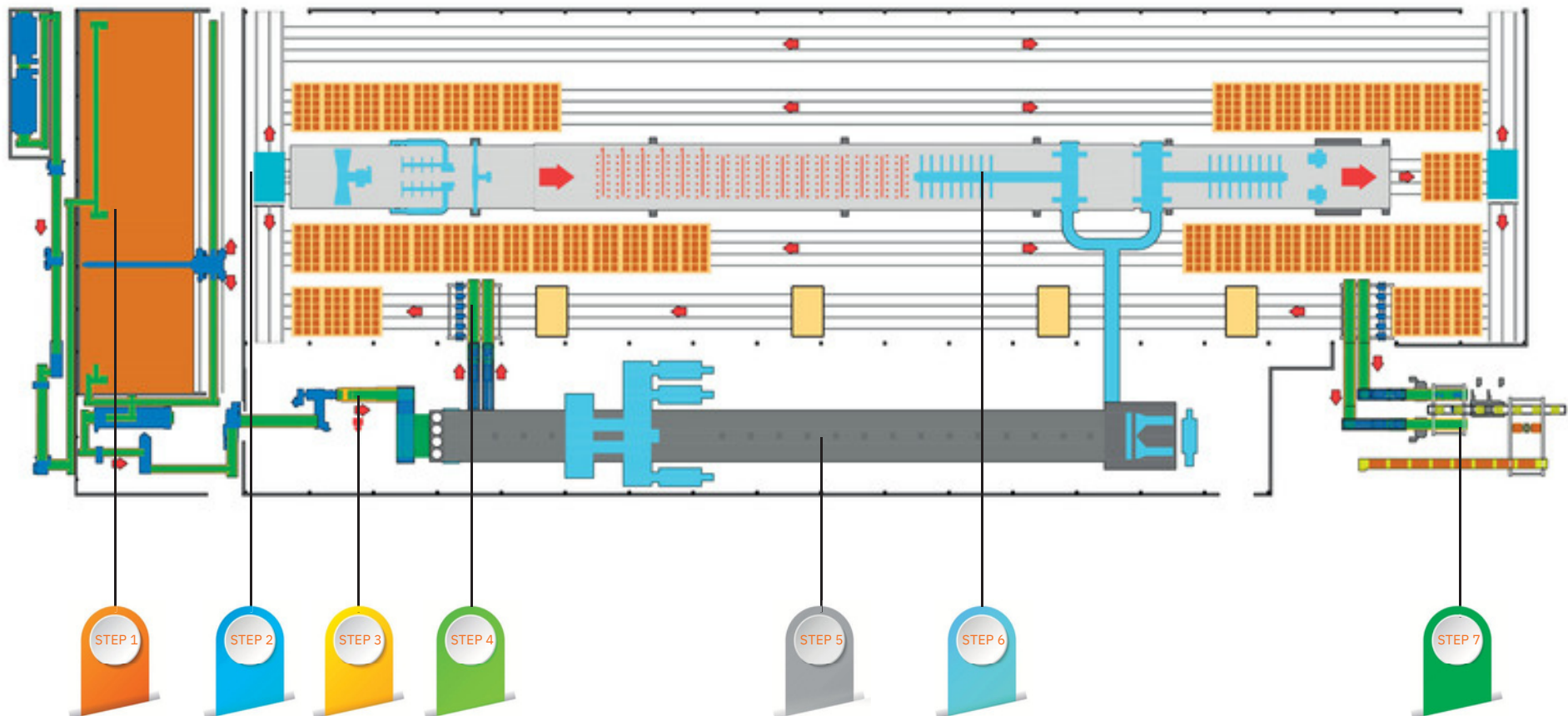


New Frac

New Frac is specialized in the design, construction, and supply of plants for brick industry. The company was born from the merger of Cosmetec's twenty-year experience – in the branch of automatisms – and the sixty-year experience of Frac Bruciatori – leader in the production of burners. This allows to offer the customer the utmost competence and knowledge for the construction of its bricks production plants. Customers are supported in every step, from the design to the start-up of the factory. The technical staff offers consultancy and support in the choice of the best solutions for the type of product they want to make with a particular focus on reducing energy consumption. Quality and innovation are NEWFRAC's strengths and the components used are essentially MADE IN ITALY. Customer satisfaction remains the final goal and the human relationship that is established between the parties is the proof of this. There is no better advertisement than a satisfied customer!

Products of COSMETEC AUTOMATION:

- 1) Preparation plants and clay transport system
- 2) Kiln cars handling systems
- 3) Cutting lines and dryer loadings
- 4) Unloading dryer lines and loading of kiln car
- 5) Rapid dryer or tunnel dryer
- 6) Static or tunnel kilns
- 7) Fired product unloading lines by pack or by layers with packs reforming



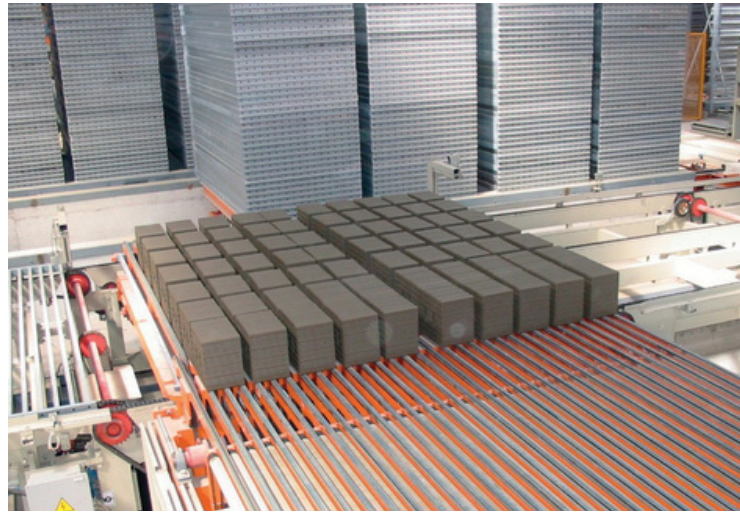
CUTTING LINES

In cutting line accuracy plays a crucial part to maintain high production levels, that's why in our cutting unit careful attention has paid to every last detail. They can be of various type: PASS CUTTERS for blocks or hollow-bricks MULTI-WIRE OR MULTIPLE CUTTERS

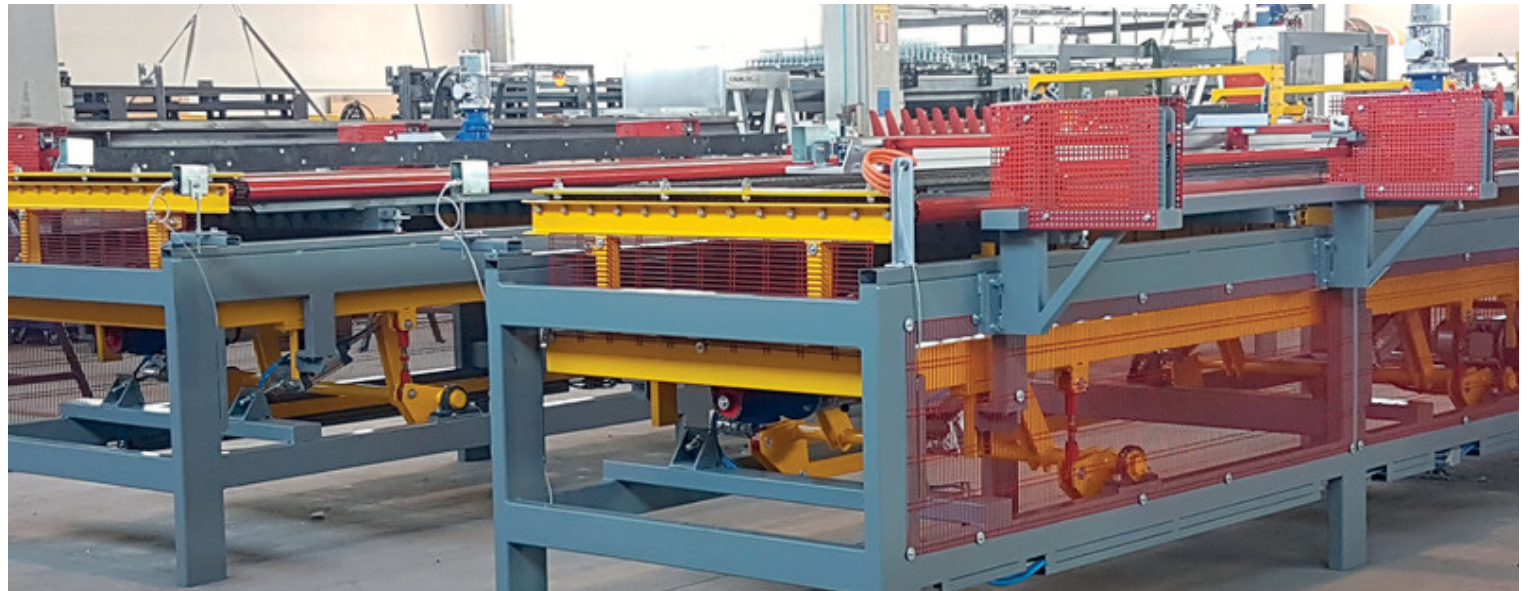
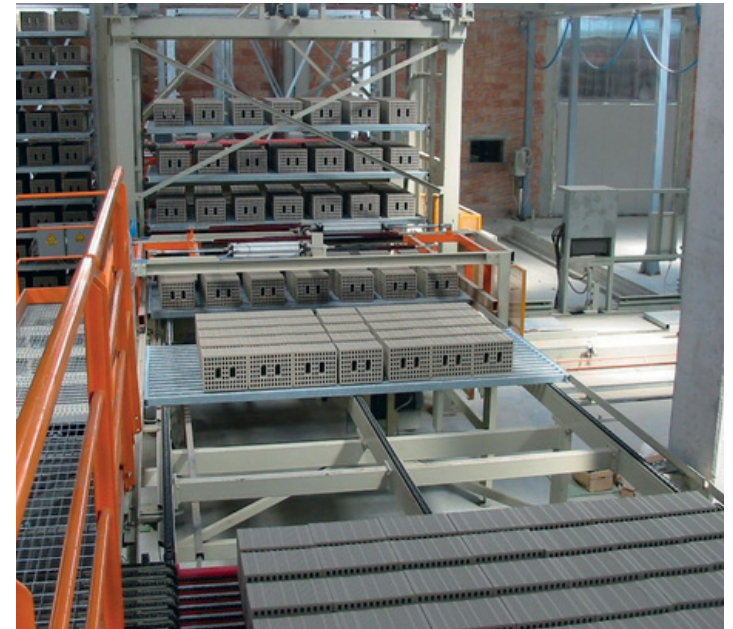




SETTING MACHINES



Loading system carefully studied to exploit the space and ensure continuity and rapidity to the production cycle, with or without robots.





DRYERS



We can supply different type of dryers:

- Chamber dryer
- Tunnel dryer
- Semi rapid dryer
- Rapid dryer

Our staff can guide the customer in choosing the best solution for his needs, based on the type of clay and products that he wants to realize. Great importance is also given to limiting energy consumption.





KILNS



THE KILN is the real beating heart of the furnace, and the quality of the final product depends a lot on its good functioning. Our staff also pays attention to minimizing energy consumption.

There are different types:

- Shuttle kilns
- Tunnel kilns
- Kilns U or H cassettes
- Mono-layer kilns



AUTOMATIC CLEANING AND HANDLING SYSTEM



COSMETEC AUTOMATION plans and realizes kiln cars handling systems and cars automatic cleaning and greasing systems.





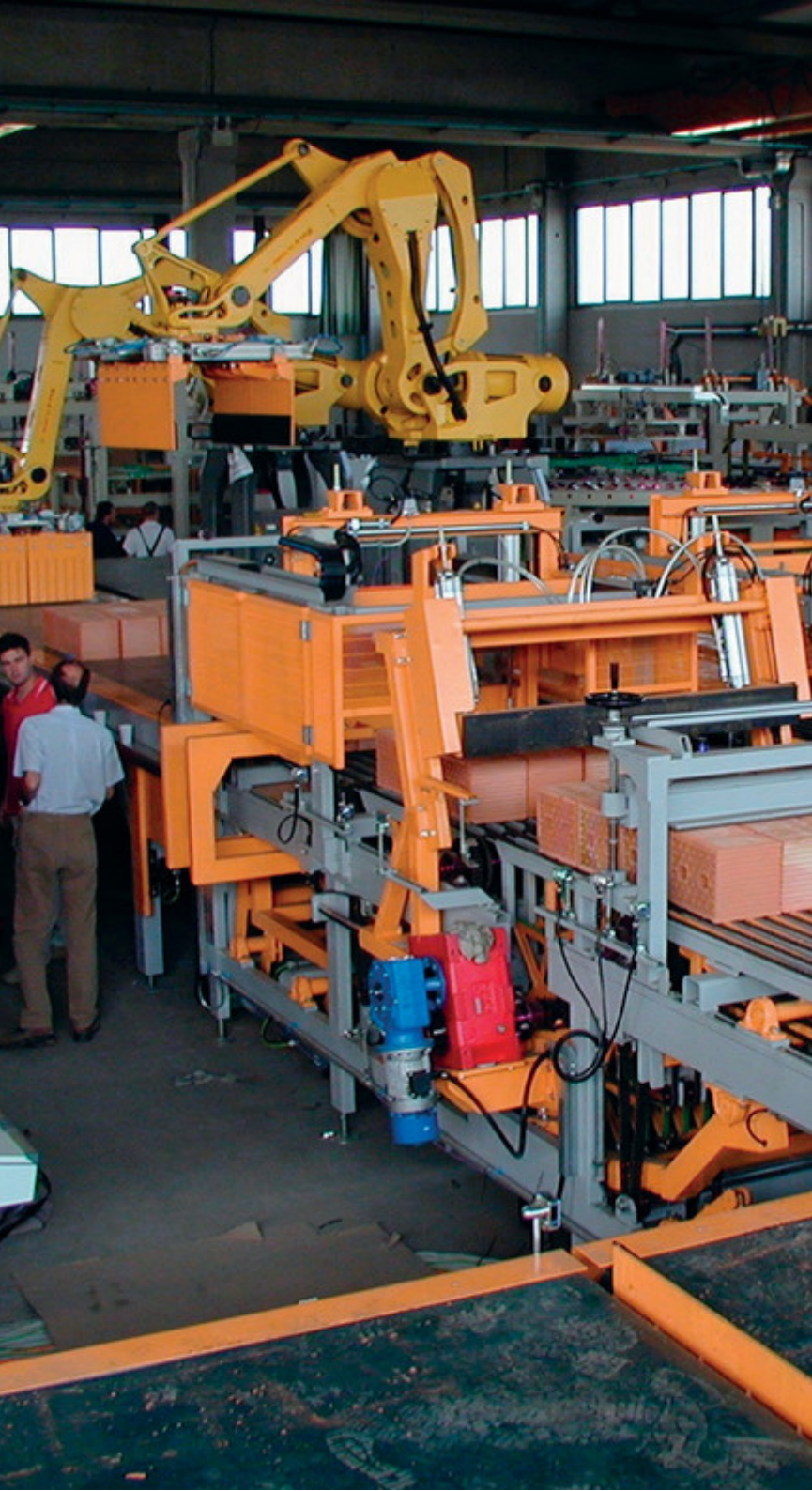
FIRED PRODUCT UNLOADING LINE, AUTOMATIC STORAGE, PACKAGING



Experience and deep knowledge of the production cycle allows us to design unloading fired product systems that have high precision, rapidity and synchronism. They can be both robotized or orthogonal and of high versatility in order to manage any type of product.

Packaging systems are perfectly integrated to existing lines and furthermore, the automatic storage system allows the customer to make the most of its spaces, and never interrupt the production cycle.





JOLLY GAS BURNER



FEATURES

Jolly Gas is a medium to high speed burner with automatic ignition and flame control, designed to be assembled in the front firing rows. It is very powerful, making it especially suitable for preparation of the fire and can work at any temperature. It is also normally used for the ignition of kilns.

INTERNATIONAL PATENT
PROTECTED PRODUCTS
REGISTERED DESIGN



PLUS

Thanks to the technical and safety characteristics of Jolly Gas, it offers automatic flame ignition at any kiln temperature with relative electronic control. The safety devices have been further enhanced and in particular each firing point has been made independent from the others. Jolly Gas also helps to eliminate unburned gas from the front firing rows, increasing performance and reducing consumption.

Each machine is equipped with an electrical panel capable of independently managing all of the control functions, the operating temperature and the flame controls. It can be interfaced with any of the latest management systems.



ASG 5T – AG/5 BURNER

FEATURES

The ASG/5 and AG/5 models are respectively blown air and sucked air burners, purposely designed to fire facing “bricks” and roof tiles and are particularly suitable for kilns with reduced load height. They have a double cone capable of creating the best mix of fuel and combustion air supplied by the fan (in the case of ASG/5) or exploiting (in the case of AG/5) the Venturi effect created by the specific section of the cone, which combined with the gas pressure, sucks in combustion air. In this version the air is not supplied by the fan and can be adjusted using a butterfly valve fitted directly on the diffuser. In both cases the flame length is reduced for excellent firing even in reduced height kilns.

PLUS

The ASG/5 – AG/5 burners offer the same reliability and durability as the ASG/1 and ASG/2 models, reducing both planned and unplanned maintenance work and costs to a minimum.

INTERNATIONAL PATENT PROTECTED
PRODUCTS REGISTERED DESIGN



ASG/1T – ASG/2T BURNER

FEATURES

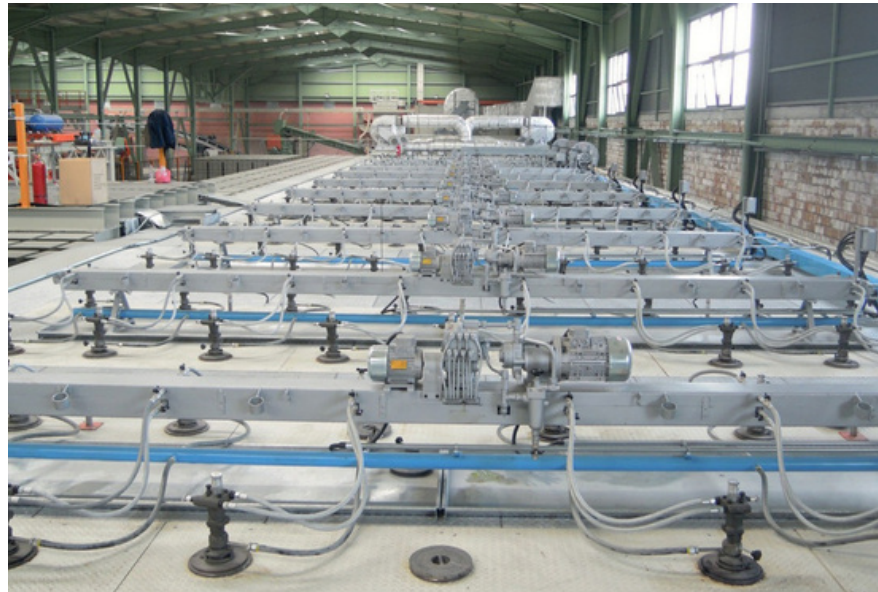
The ASG models are burners operating with a mixture of gas and blown air, suitably calculated with the fan and nozzles sized accordingly, but equipped with valves for final manual adjustment depending on the needs of the different types of materials to be fired. Both work by self-combustion and are therefore not equipped with flame control. The two models differ in the type of operation: the first, ASG/1T offers ON OFF operation, whilst ASG/2 is a pulsed burner. Both can be supplied with an electrical panel, but the ASG/2T in particular is equipped with a panel capable of controlling the opening times for every single solenoid valve (one for every firing point) and the cycle frequencies.

PLUS

The ASG models are extremely reliable, easy to manage burners. All of the parts in contact with the fire or gas are made of stainless steel; in particular, the tip of the diffusers most exposed to the fire is made of a thick casting in a stainless steel alloy. With a few adjustments, the ASG/1T can be used as a FLASHING* machine in a reducing environment. The ASG can also be mounted on wheels so that it can be used with Hoffman kilns.



ASN AND NIR FUEL BURNERS



The ASN/6 burner works with gasified fuel oil by air coming from an electroblowing fan and thanks to the principle of gasification it fits particularly for the preparation of fire. All gasification burners have a predisposition to be controlled by inverter through a switchboard assembled on board of the machine; all feeders are equipped of oil heater and pressure switch for the forced air, as well as of an automatic compressed air cleaning system for the diffusers (in case of electric current shutdown).
INTERNATIONAL PATENT PROTECTED
PRODUCTS
REGISTERED DESIGN



The NIR/4 burner works with atomized fuel impulses and every group can feed a maximum number of 16 firing points; the impulses frequency and power is managed by an inverter controlled motor. All feeders are equipped with fuel heater. The NIR/4 burners can be supplied complete with switchboard and, on demand, they can be completed by a blowing manifold for the nozzles cooling, in case they would be used on kilns working in pressure.





ASNG/2 ("DUPLO") BURNER

FEATURES

"DUPLO" ASNG/2 is the only burner that can be operated with either heavy oil or gas. It boasts the same features as the conventional ASN/7 gasifier, that is to say:

- strictly volumetric control of the amount of fuel oil
- automatic adjustment by Inverter
- device for automatic purging of the fuel oil supply pipes (every time the electric power supply fails).

This prevents coking and therefore blockage of the diffusers) the switch from fuel oil combustion to gas combustion and vice versa is reduced to two simple steps:

1. switch from fuel oil to methane gas or vice versa on the electrical panel
2. move the individual flexible hoses from the fuel oil duct (N) to the gas duct (G) or vice versa

The air pressure will need adjusting after these operations have been performed as gas combustion requires a lower air pressure than fuel oil combustion.



INTERNATIONAL PATENT PROTECTED PRODUCTS
REGISTERED DESIGN



FLASHING BURNERS



This kind of burner working with gas has been conceived to obtain the colouring and shading of “facebricks” that, contrarily to the normal firing, won't be perfectly flat and with an only colour shade anymore but they will assume the most varied colourings according to the several market demands.

However the “FLASHING” is able to work as a normal feeder therefore it will be enough to set it up in the last firing zone; in this way during the firing it will work like all the other feeders and only during the specific phase it will assume the complete “FLASHING” functions.

INTERNATIONAL PATENT PROTECTED PRODUCTS
REGISTERED DESIGN



LATERAL BURNERS, SERVICE TANK AND PUMPING UNIT

SERVICE TANK

New Frac can also supply a service tank together with the firing system (or separately), which is usually positioned on the kiln.

PUMPING UNIT

The circulation units are pumping stations positioned on the kiln and connected to the service tank; they are needed for pressurising and supplying the kiln distribution ring.



THE BLG/1 BURNER can be supplied with combustion air fan for each firing point.



BIOMASS BURNERS

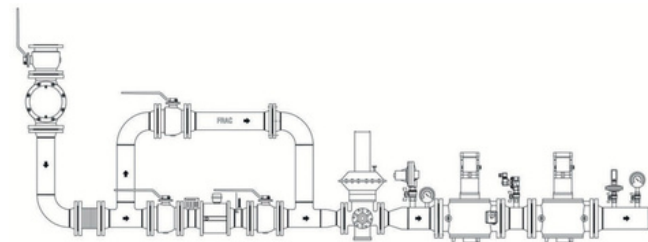


BIOMASS BURNERS

Biomass burners represent an alternative to fuel and gas burners. This is the right choice for the environment: recycling all biomaterials that would otherwise be lost and turning them into energy

GAS RAMP

FRAC can supply gas ramps to cut off the fuel supply, or custom make ramps in accordance with customer needs complete with pressure reducers and by-passes for assembly of a volume meter.



HOT AIR GENERATORS HEAT EXCHANGERS





NEW FRAC IN THE WORLD



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