

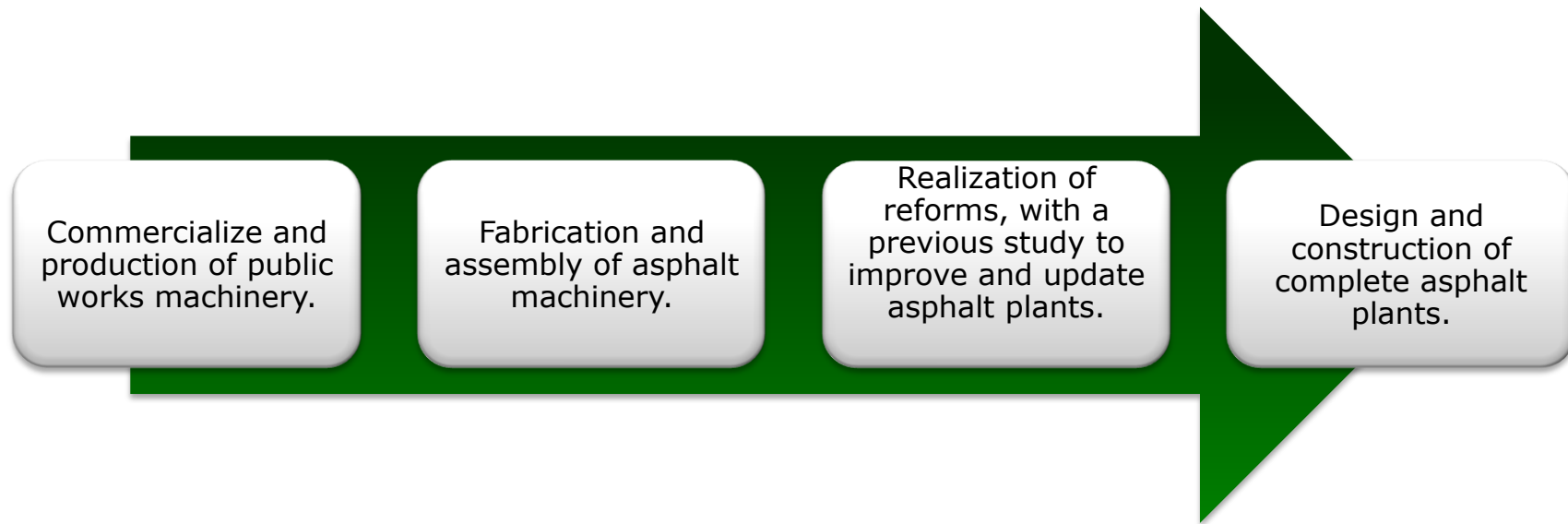


Direct collaboration with engineering and construction companies has allowed us to develop our **own technology**.

In order to ensure the **best service**, pre-sales and after-sales to our customers.

Our mission is to develop the best technology and engineering design for your Company and **to ensure your success**.



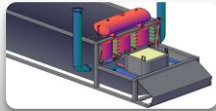


We have many years experience in this field and we offer a broad range of products, service and support.





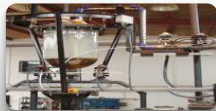
Modified Bitumen Production



Big-Bags Bitumen Smelter



Thermal Fluid Boiler

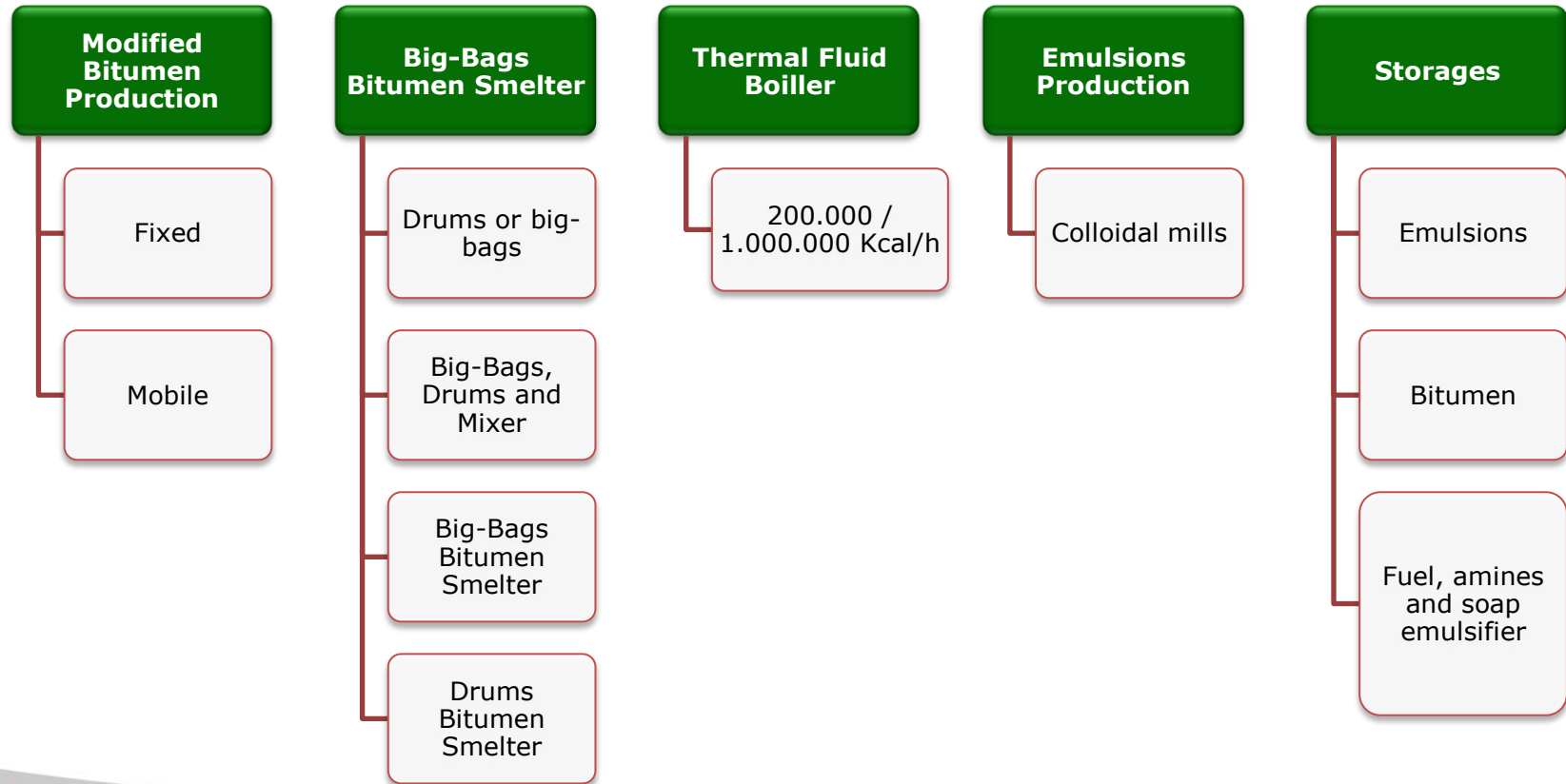


Emulsions Production

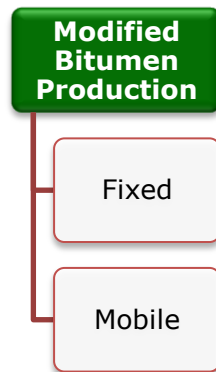


Storages

► Main TPA Areas

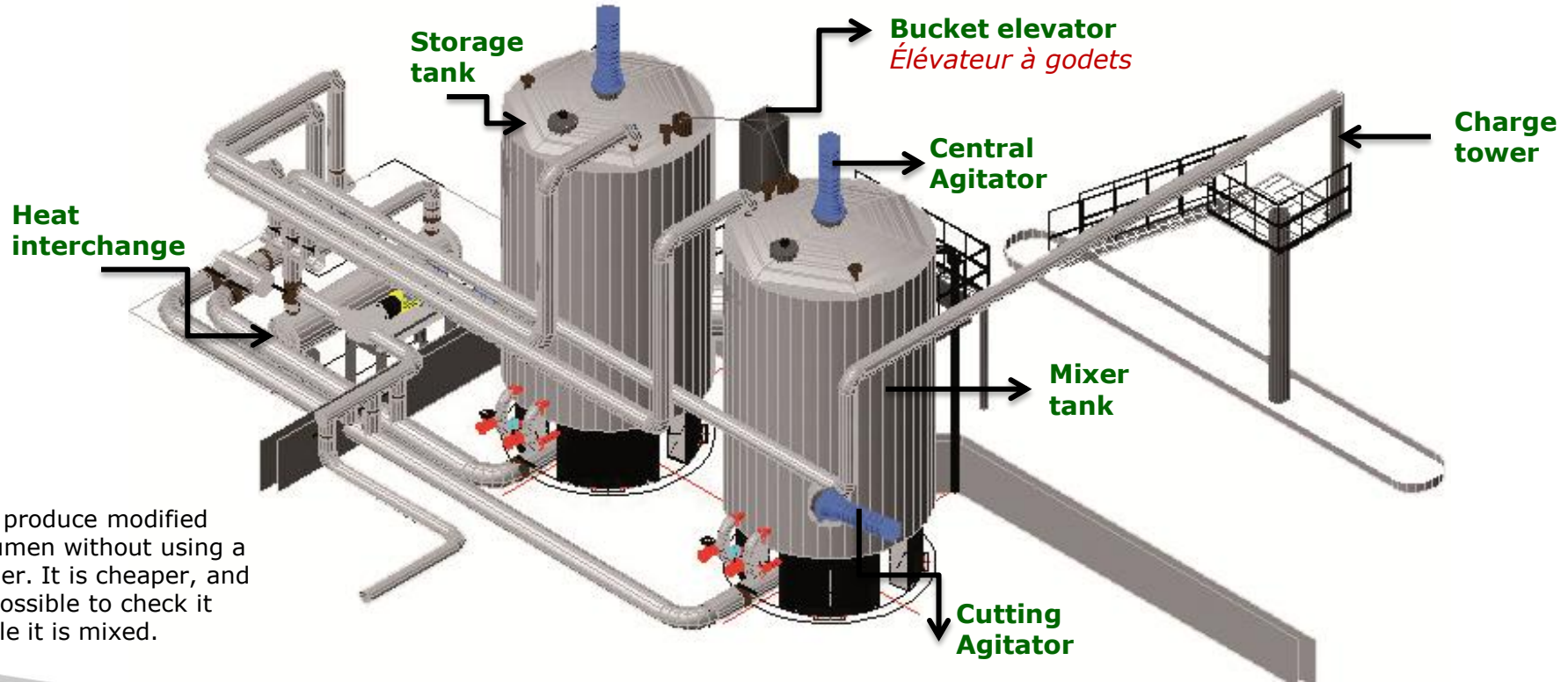


Modified Bitumen Production



► Modified Bitumen Production. Static/Fixed.

Structure for a plant for modified bitumen production



We produce modified bitumen without using a miller. It is cheaper, and is possible to check it while it is mixed.

► Modified Bitumen Production. Static/Fixed.

Set for lifting and handling of big-bags
Capacity: 2.000 Kg.



The process is controlled by a main computer.

► Modified Bitumen Production. Mobile.

The production process is the same that in the fixed .

The difference between mobile and fixed plants or instalations is that the mobile machine is smaller because the size is according of transport measures. So, we need **two mixer tank** to produce a enough quantity of bitumen.



► Modified Bitumen Production. Mobile.



Big-Bags Bitumen Smelter

**Big-Bags
Bitumen
Smelter**

Drums or
big-bags

Big-Bags,
Drums and
Mixer

Big-Bags
Bitumen
Smelter

Drums
Bitumen
Smelter

► Melter of bitumen. Drums or big-bags

- **Easy handling.**
- **Easy transportable.**



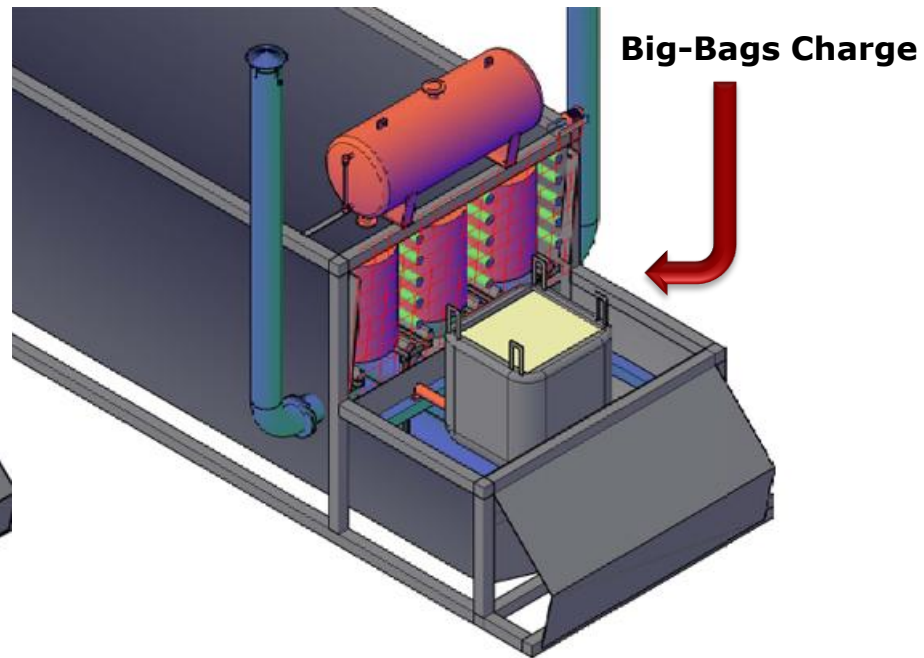
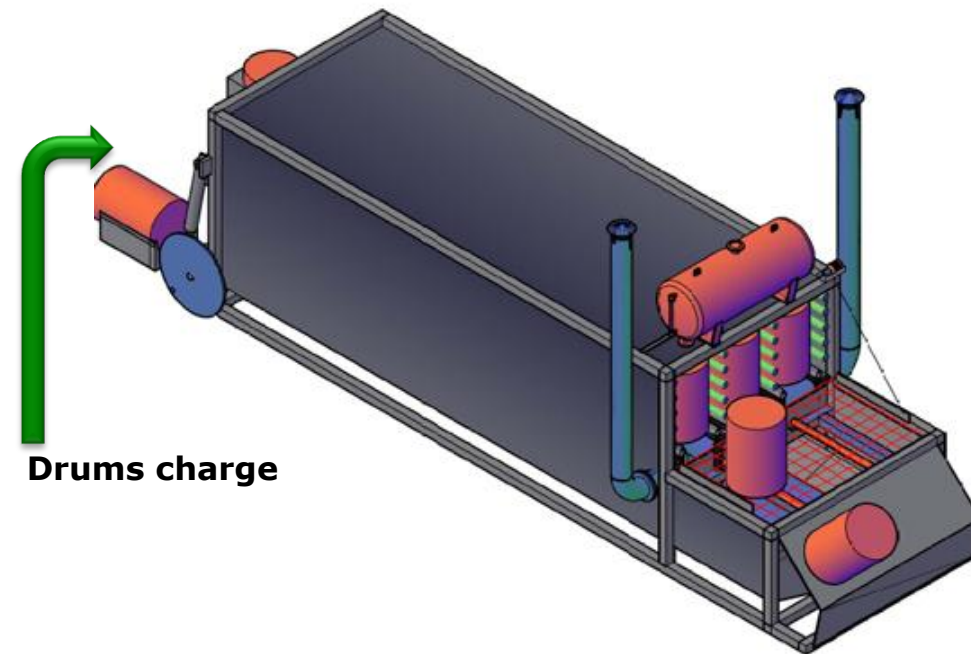
Main elements:

- Top area with a heating coils (serpentins de chauffage) to melt the bitumen drums. These are introduced by hydraulic arms.
- Bottom area where is the melted bitumen deposit.
- Heating System.
- Set of handing and lifting of drums.



**Produced and
designed ad hoc for
Sogea Satom**

► Melter of bitumen. Drums or big-bags



► Smelter bitumen: Big-Bags, Drums and also Mixer.

Smelter bitumen drums and big-bags FBB-8/7



MEDIA PRODUCTION MELTING DRUMS

7 to 8 t/h.



MEDIA PRODUCTION MELTING BIG-BAGS

7 t/h.



MODIFIED BITUMEN PRODUCTION:

MELTING DRUMS

8 t/h.

MELTING BIG-BAGS

6 t/h.

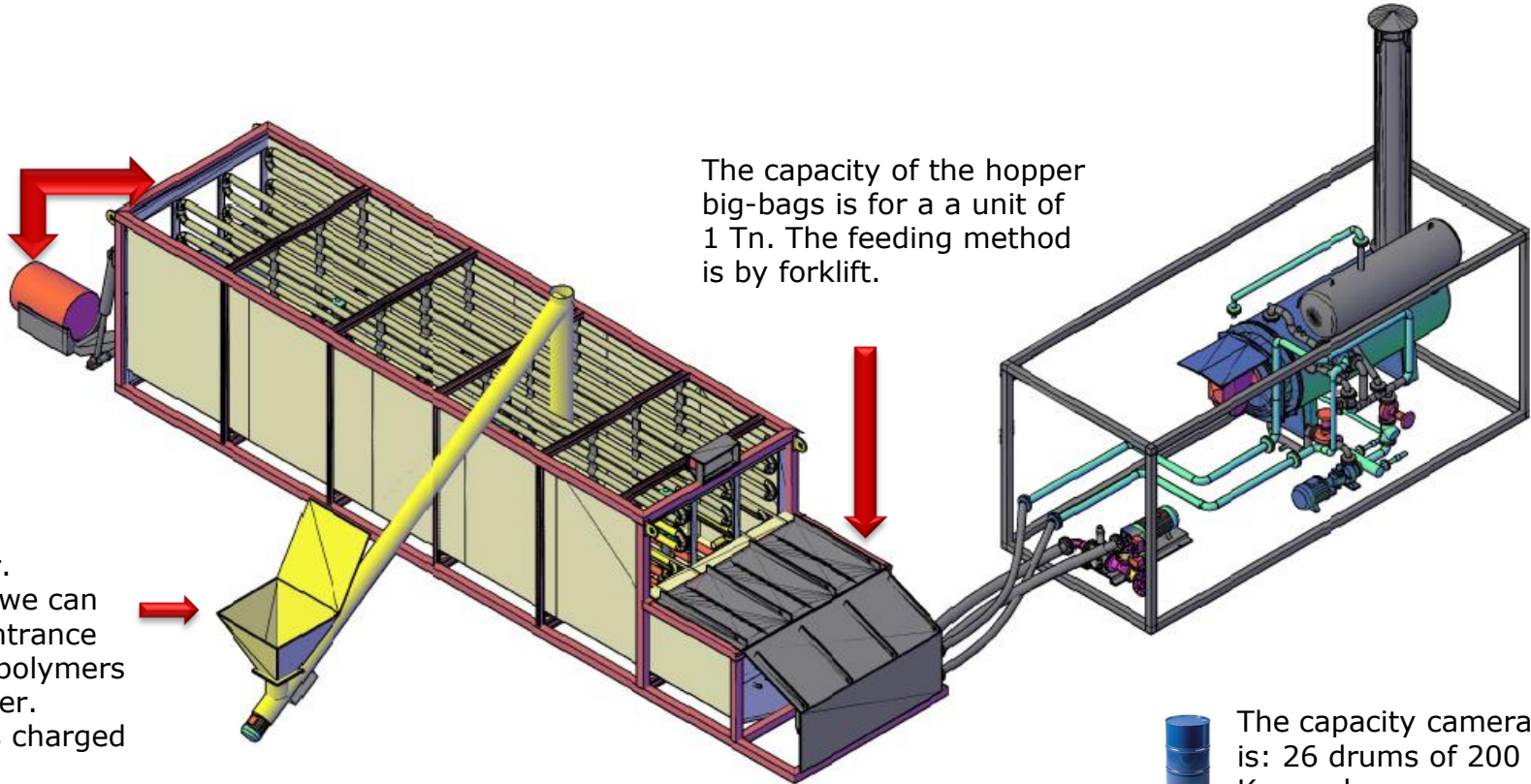
► Smelter bitumen: Big-Bags, Drums and also Mixer.

Hydraulically operated ramps. These introduce one by one the drums into the melting camera.

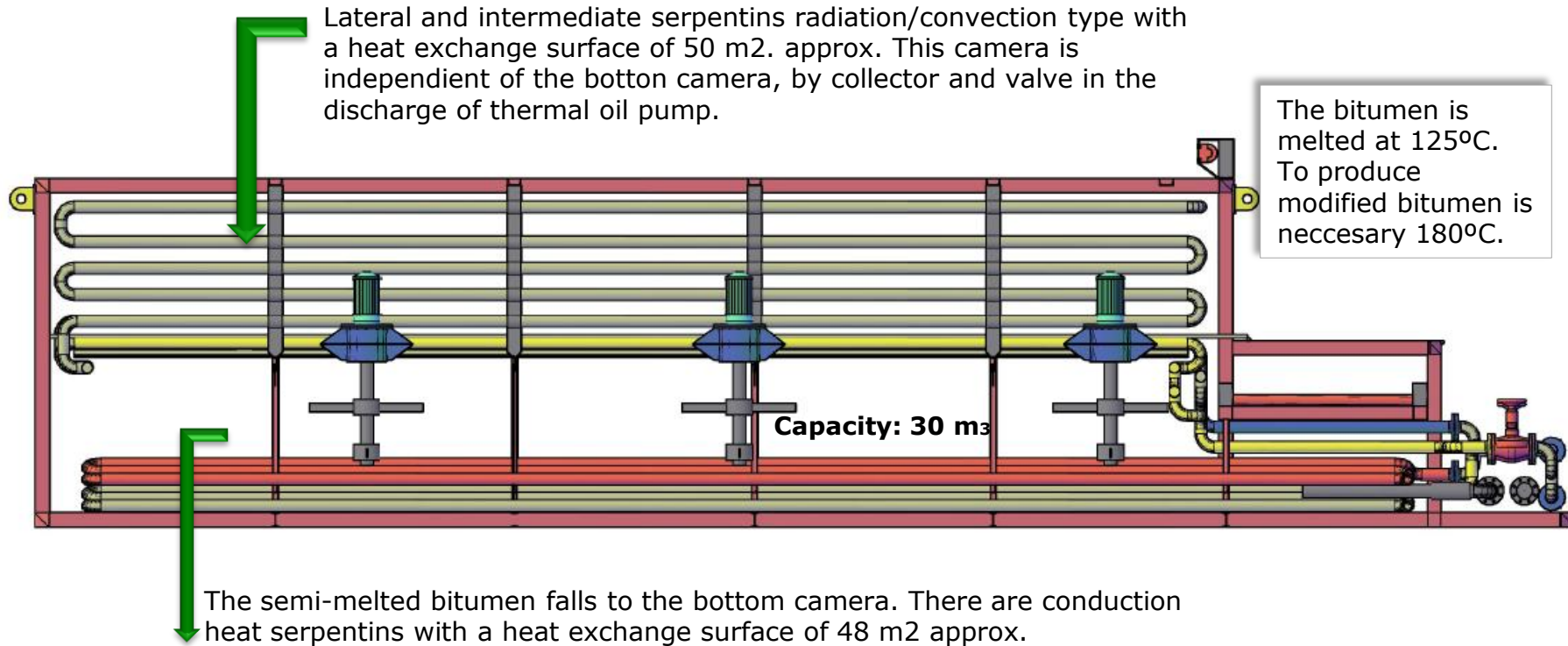
Feed polymer. Mechanically we can control the entrance speed of the polymers into the hopper. The hopper is charged manually.

The capacity of the hopper big-bags is for a unit of 1 Tn. The feeding method is by forklift.

The capacity camera is: 26 drums of 200 Kg. each one.



▶ Smelter bitumen: Big-Bags, Drums and also Mixer.



► Big-Bags Bitumen Smelter

- **Capacity Storage: 22 m³**
- **Easy transportable**
- Bitumen heating system: gas tubes with double wall DN200/DN300.
- The thermal oil circulates between both with this thermal system:
GAS > THERMAL OIL > BITUMEN.



- **We get a indirect heating and very easy controllable.**



► Big-Bags Bitumen Smelter

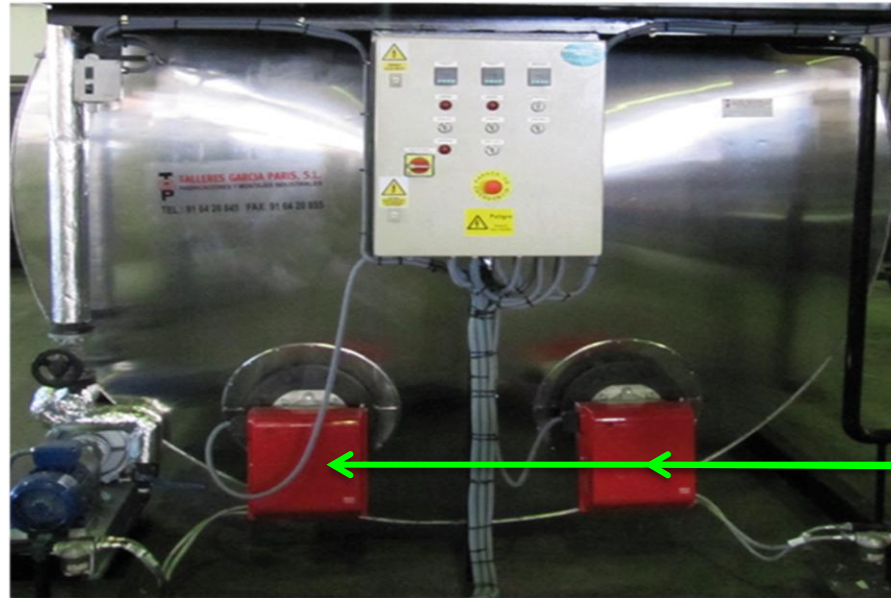
Discharge hopper with adjustable tubes to controlling the bitumen block fall.



Hoist structure, it can raise 2000 Kg. and it is removable.

Expansion tank for thermal oil to 500 liters.

ELECTRICAL CONTROL PANEL



Thermal oil pump

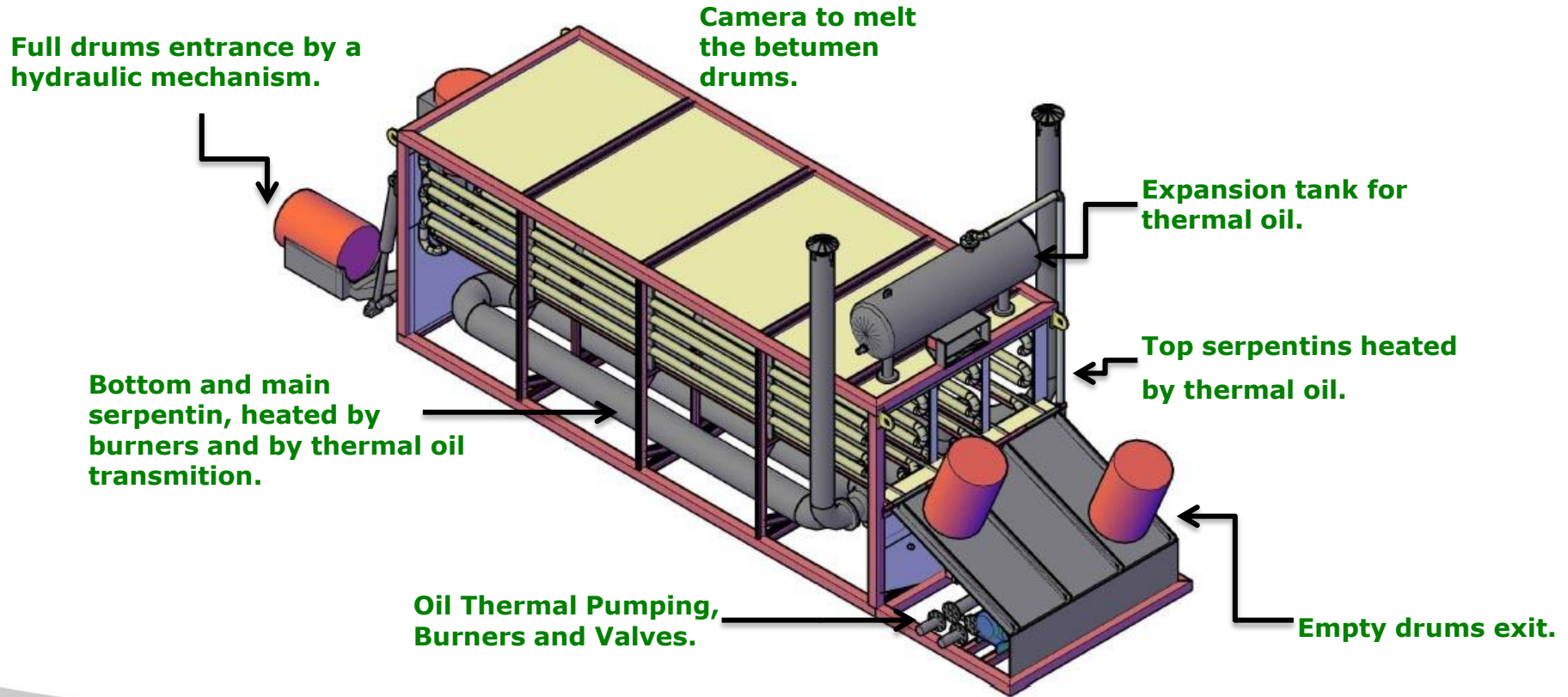


2 oil burners of 150.000 kcal/h.
Shirt at the entrance to the burners built in AISI 310 refractory.

► Big-Bags Bitumen Smelter

This smelter can also fabricate on a 20 feet container.





Thermal Fluid Boiller

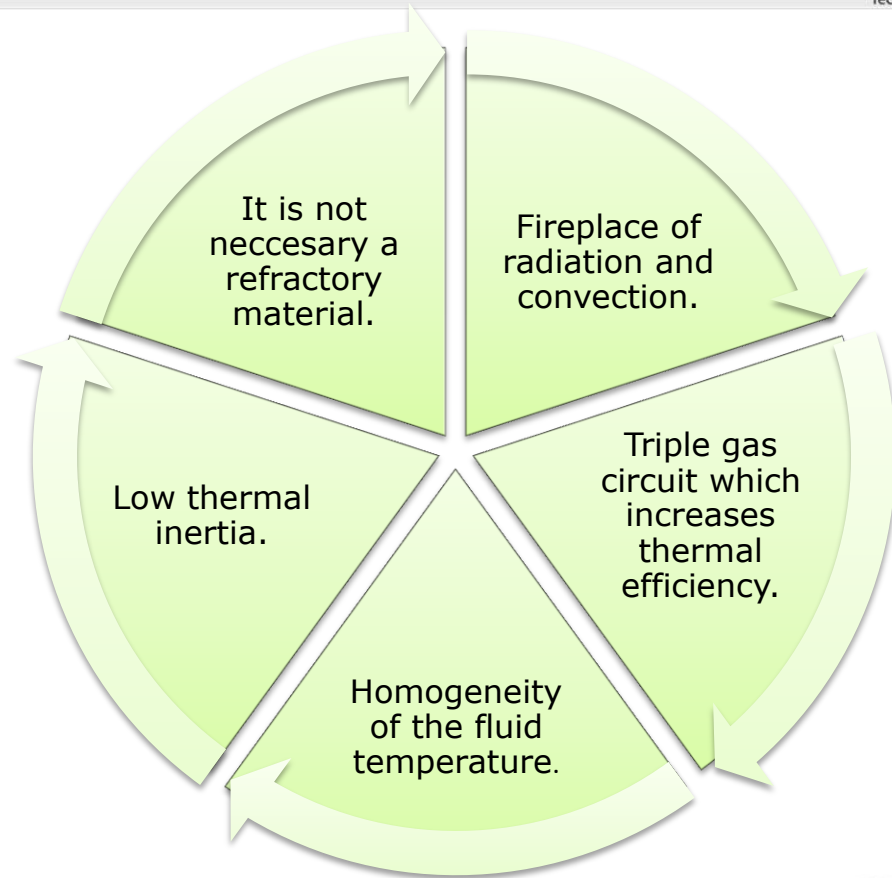
**Thermal Fluid
Boiller**

200.000 /
1.000.000
Kcal/h

► Thermal Fluid Boiler

The thermal fluid boiler TH model with a power of 200,000 Kcal/h. to 1,000,000 is monobloc.

Suitable for liquid and gaseous fuels.



▶ Thermal Fluid Boiler



Boilers designed and produced according to CE Standards.

Emulsions Production

**Emulsions
Production**

Colloidal
mills

► Emulsion Production

Main elements:

- Platform structure
- Saponification tanks
- Measuring cup: for soap emulsifier or melted amine and hydrochloric acid
- Heat interchange
- Hot Water Pump
- Acid pump
- Bitumen metering pump
- Water emulsifier metering pump
- Motor-Mill Group





Emulsion Production




Soap and amine Storage



Main Electrical Panel

COLLOIDAL MILLS

PRODUCTION PER HOUR  **12 to 25 T/H FOR BITUMEN EMULSION AT 50%**

It works like a centrifugal pump. The products come into by the center at one speed and come out by the sides to a larger one.

With the emulsion mill we get a higher pressure to be able to divide the bitumen into smaller particles (micelles) and like these are surrounded of emulsifier water, avoid that join again, resulting in final, what we know as **emulsion**.

Depending on the amount of bitumen, we can make various types of emulsions. And depending on the type of emulsifier water we can get **anionic or cationic emulsions**.

Our mills can produce from 12 to 25 t/h.

► **We repair our own mills and also the mills which are made by other companies, anywhere in the world.**

► **We can replace the damaged mill for other one while we fix it, because we have several mills in stock.**



Storages

Storages

Emulsions

Bitumen

Fuel,
amines
and soap
emulsifier

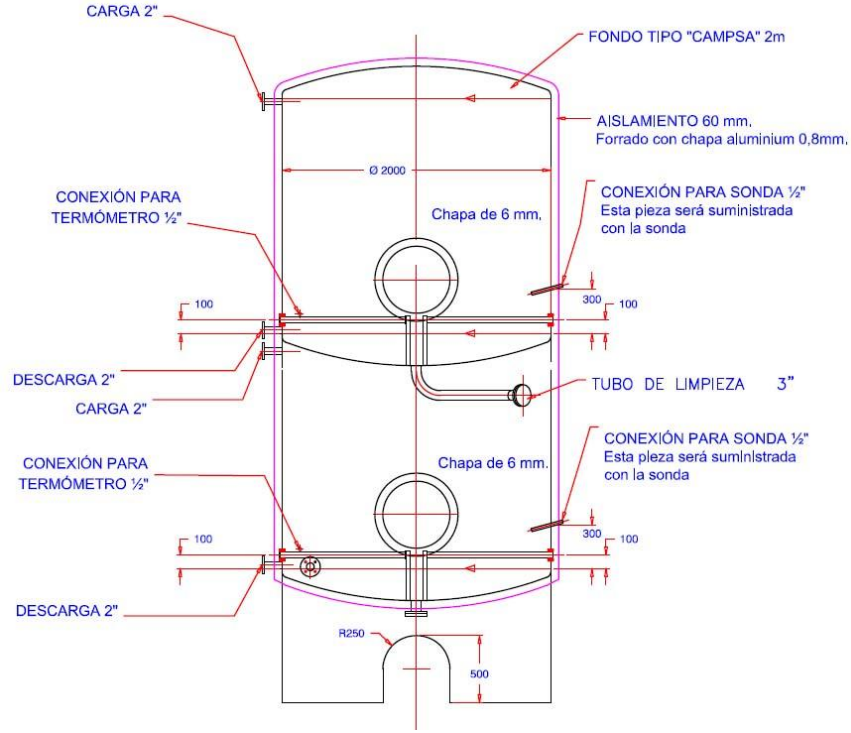
▶ Emulsion Storage



▶ Bitumen Storage



► Fuel, aminas and emulsifier soap



Amine Storage



Fuel Storage

Our Customers

▶ Our main customers



Awards

“Power Awards 2009”
Premios Potencia 2009

The purpose of these awards is to recognize quality and innovation of the machinery used in public works.

Award given to our company in 2009 for a mobile modified bitumen machinery.





TPA - Technology for Asphalt

C/ Castaño, 19.
28210 Valdemorillo :: Madrid:: España
Tel./Fax: + 34.91.897.71.81

www.tpasfaltos.com

Roberto García

Mobile: +34.679.16.27.12
roberto@tpasfaltos.com

Patricia Matesanz

Mobile: +34.699.30.00.32
comercial@tpasfaltos.com