

## **SMELTER FOR BITUMEN IN BIG BAGS**

### **EQUIPMENT SPECIFICATIONS**



## 1. Melting Capacity

- 4 tons / hour
- 5 hours for melting 20 tons, which is faster than most of the other existing solutions that need about 1 hour to melt 2.5 tons.

## 2. Regular Specifications

### 2.1. BIGBAG'S SMELTER – ISO20

Steel welded construction in S235JRG2 steel plate with a 20' container dimensions

#### → Specifications

- Dimensions of a 20' container (C.5890 x L.2415 x A.2580)
- Weight: about 6.2 tons + mounting parts about 1.3 tons
- Shells material: S235JRG2
- Thermal insulation: Rock wool of 80mm thickness with a density of 100kg/ mm3 and 1mm thickness aluminium plate for finishing
- Exterior of the container in metal plate crenelated

#### → Characteristics

- 2 Independent heating pipe coils
- 1 Superior feeding entry
- Upper access ladder
- Upper walkway
- Product output lines
- Venting lines
- Removable structure for lifting system
- Electric winch with car

### 2.2. Heating System

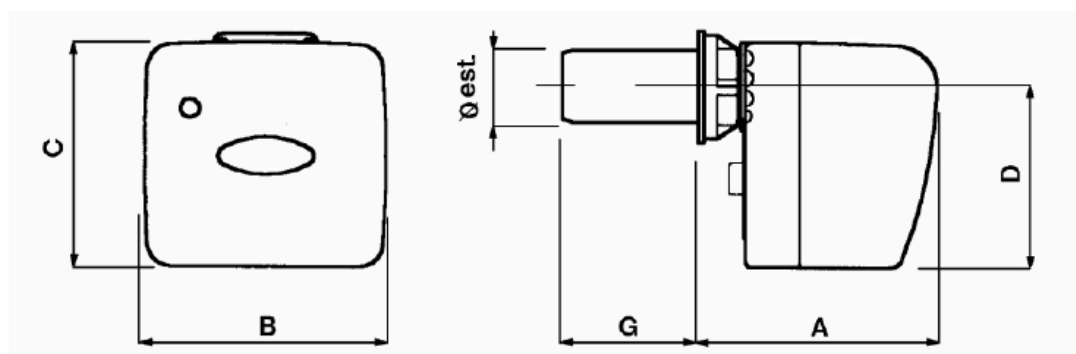
It is composed of **2 Automatic burners** monobloc (one-piece) with power flame control, with:

- Electric motor
- Combustion head
- Metal carcass
- Fan
- Flame ionization detector
- Ignition system
- Mobile standard collar
- Burner command scheduler
- Reduced boot
- Moto-fan control

## → Burners Technical Specifications

Power	Min.	Kw	130
	Max.		265
Operation		One Flame	
Working temp.		°C	10÷60
Electric power		~230V – 50Hz	
Engine		Rpm/1’ W	2800 180
Engine condenser		µF/V	5/450
Ignition transformer		V1 – V2 I1 – I2	230V – 1 x 15 kV 45 VA – 25 mA
Electric power installed		W max	0,24
Protection		IP	20
Sound level		dB(A)	62
Fuel		Diesel	
Fuel Consumption	Min.	Lts/h	11
	Max.		22
Fuel viscosity		1,4ºE at 20ºC	

## → Burners Dimensions



A		B	C	D	G		Est Ø	LW Ø	M Ø	N Ø
Min	Max				Min	Max				
339	419	335	345	295	170	250	144	155	200	M10

### 2.3. Security System

Before the equipment is put into operation it is necessary to fill it with 2.000 liters of bitumen. This is necessary so that the heat exchange pipe coils are submerged and make the heat transfer.

### 2.4. Work Capacity

- 4 to 6 tons / hour
- The equipment has been subject to testing with bitumen in Big Bags for a period that proven the ability to work (melting)

### 3. General Information

- Manufacturing delay  
40 days after order confirmation
- Assembly / Start-up of the equipment
  - Included in the price: machine start-up, for 4 days by technician on the working site.
  - Not included in the price: cost of travel, accommodation, food and visa
- Mounting parts
  - The mounting parts (about 1.3 tons) will be shipped in a separate 20' container.

### 4. Options (not included in the price)

#### 4.1. Electrical Pumping Group

- Electric motor of 11kW at 750rpm, of 8 electrical poles, 380/415V and 50/60Hz
- Volumetric pump, equipped with double heating chamber and protection by-pass
- Coupling
- Lines of the pumping group prepared for thermal fluid heating (the thermal fluid boiler is not included)
- Skid
- Pumping capacity: 39m<sup>3</sup>/h

#### 4.2. Lines of the pumping group

- Lines of the pumping group prepared for thermal fluid heating, including
  - 4x Thermal oil stainless steel hoses
  - 1x Bitumen stainless steel hose with internal thermal oil heating

#### 4.3. Spare Parts Box

- 1x Burner programmer
- 1x Burner ignition transformer
- 1x Burner photoelectric cell
- 1x 3" Guilhotine valve
- 6,3mts winch load chain 9x27
- 1x winch complete brake
- 1x winch suspension pin
- 1x winch safety lever ST30

#### 4.4. Bruner - replacement

- Diesel monobloc (one-piece) burner, JTL25 of 130-265kw, with power flame control, with
  - Metal carcass
  - Combustion head
  - Electric motor
  - Fan
  - Flame ionization detector
  - Ignition system
  - Mobile standard collar
  - Burner command scheduler
  - Reduced boot
  - Moto-fan control

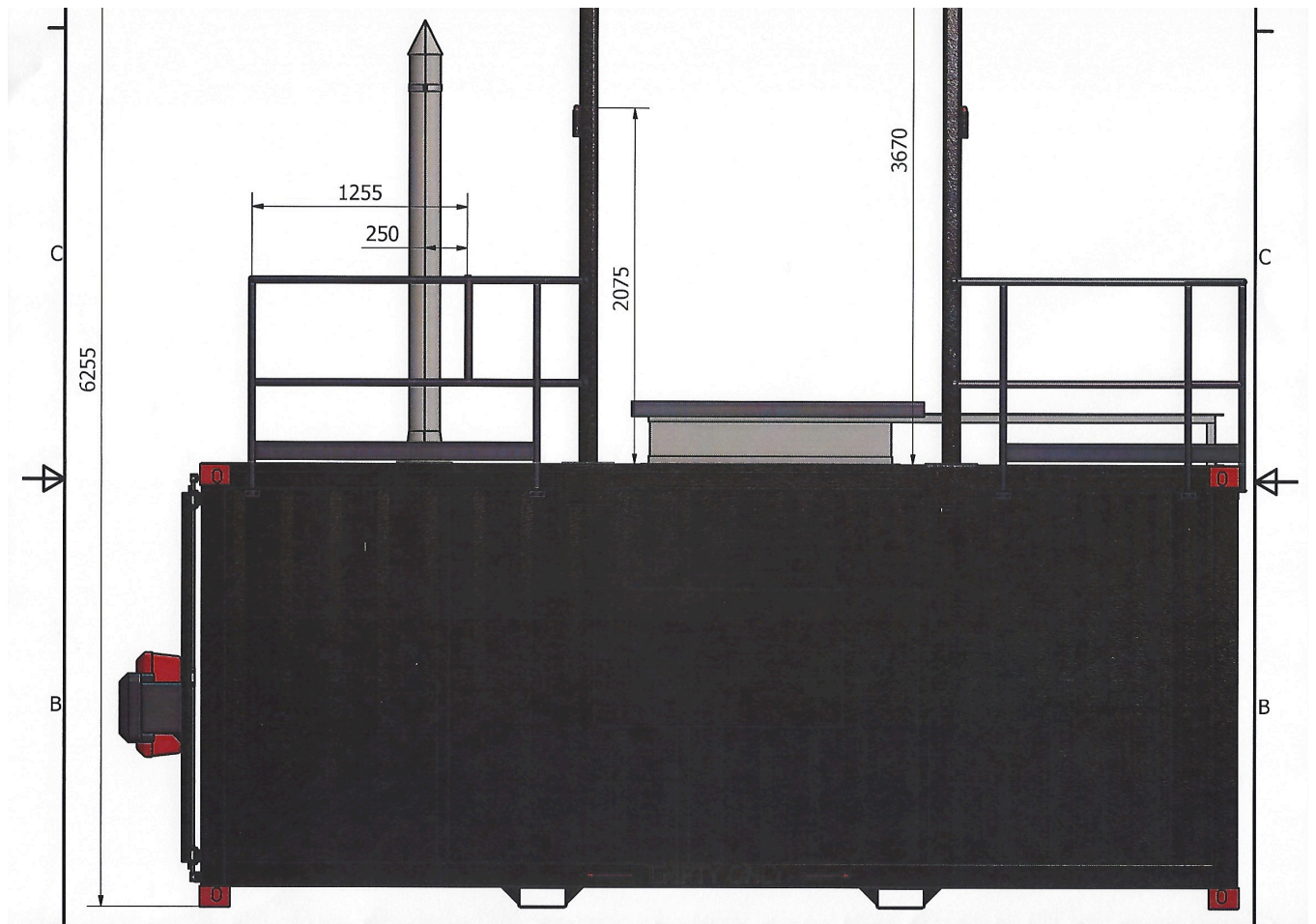
#### 4.5. Diesel Tank (empty), composed of

- Diesel tank of 920lts
- Lines for burners connections, including
  - 1x Supply collector with hoses connections
  - 1x Return collector with hoses connections;
  - 2x Supply stainless steel hoses;
  - 2x Return stainless steel hoses.

#### 5. WARRANTY

The equipment proposed are guaranteed against manufacturing defects or poor quality of materials, for a period of 12 months from the date of receipt, provided that it is functioning and conservation follows manufacturer's instructions.







# Tokras Trading SA

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