



# Elevator



## **Hot Elevator Unit :**

The hot aggregate bucket elevator is a totally enclosed chain driven system. Bucket tips are double reinforced for maximum durability. The elevator unit is electrically driven from the head shaft via a chain system.

Electromotor Gearbox : 160 TPH 15 K.w 80 RPM  
120 TPH 11 K.w 80 RPM

## **Filler Elevator Unit :**

The bucket filler elevator is standard to all plants. The warm reclaimed filler obtained from the drying process via the cyclone is collected and fed to the mixing tower. Warm filler is covered better and more quickly by the bitumen and as an incidental benefit; the specific energy consumption is reduced. As an option, a second mineral filler elevator can be supplied and located parallel to the reclaimed filler elevator.

Electromotor Gearbox : 5.5 K.w 30 RPM

# Automation technology



# Wet Filter



Filter:	Water Filter , Spray tower cyclone design
Diameter of Main Tank:	2.4 meters
Height:	6 Meters
Body:	5mm Thickness, Steel
Exhaust Diameter:	1.3 Meters
Exhaust Height:	6 Meters
Exhaust Body:	5 mm Thickness, Steel
Stand Height:	3 Meters
Water Pump:	50-160 11 K.w Electromotor 3000 Rpm
Water Nozzles:	75 Units



# Oil heater

## 2 Models available

### 500,000 K. cal model

Capacity: 500,000 K. cal per hour

Length: 3.7 meters

Width: 1.8 meters

Height: 2.2 meters

Heating Coils: 7.5cm Diameter piping

Tank metal thickness: 3-4 mm

Insulation: Glass wool covered with 2mm of steel

Burner: 500,000 K. cal per hour capacity

Pump: 3" Oil pump 7.5 K.w electromotor 3000 rpm

### 300,000 K. cal model

Capacity: 300,000 K. cal per hour

Length: 3.5 meters

Width: 1.7 meters

Height: 2 meters

Heating Coils: 5cm Diameter piping

Tank metal thickness: 3-4 mm

Insulation: Glass wool covered with 2mm of steel

Burner: 300,000 K. cal per hour

Pump: 2" Oil Pump 5.5 K.w electromotor 3000 rpm

Full automatic control panel.



### **Safety features :**

1. Two thermometer system. One controls the burner; the other is the back up that completely turns off the burner if the first thermostat is not functioning.
2. Pressure switch controls the pressure of the pump. If the pump is not working and the pressure drops the pressure switch turns off the burner.

# Turbo Jet Burner

Reliable proven Turbo Jet burner giving high energy outputs with low fuel consumption. Fully automatic temperature control process, the burner self adjusts the temperature according to the load using jumo microprocessors.

Greater efficiency is achieved by using servo motors to adjust the air/fuel ratio.



<b>Blower Motor :</b>	160 TPH 22 Kw 2900 rpm
	120 TPH 18.5 kw 2900 rpm
<b>Fuel Pump :</b>	160 TPH 4 kw
	120 TPH 3 kw
	single nozzle design

**Capacity :** 10,000,000 to 12,000,000 Kcal

**Fuel :** gas-oil, heavy oil

**Temperature control :** Fully automatic self adjusting controls.

## **Heavy Duty vibrating screen**

Aggregates from the bucket elevator is discharged over an anti-abrasion lining and then sprayed over the entire screening area. Totally enclosed dust sealed housing, discharge chute, with inspection doors, giving access for inspection, maintenance and mesh changing.



Unit	160 TPH	120 TPH
Total screen area	4m x 1.40	3.5m x 1.40 M
Screen Drive	11 K.w electromotor	7.5 K.w electromotor

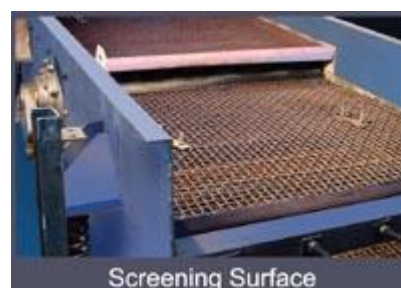
**Screening Method :** Fully enclosed counter weight vibration

**Screen Material :** High resistance stainless steel alloy

**Output :** 4 product sizes plus over size



Screening unit



Screening Surface

## Mixing and weighing Unit

The mixing unit contains Twin shaft high capacity paddles with high wear resistance liners. The mixing blades feature optimized shapes and materials to ensure a long service lifespan and easy maintenance. Using load cell technology the fully automatic weighing unit is designed to individually weigh the aggregate, filler and bitumen to provide consistent recipes. The filler dispatch bin is designed to cover the entire span of the mixing unit in order to provide uniform filler distribution. Pneumatic system controls the opening and closing of the storage bin outlet. Constant air pressure is achieved through the over sized compressor and receiver



Dimensions	160 TPH	120 TPH
Height	105 cm	98 cm
Width	168 cm	130 cm
Length	170 cm	170 cm

**Outlets :** Pneumatic load cell technology

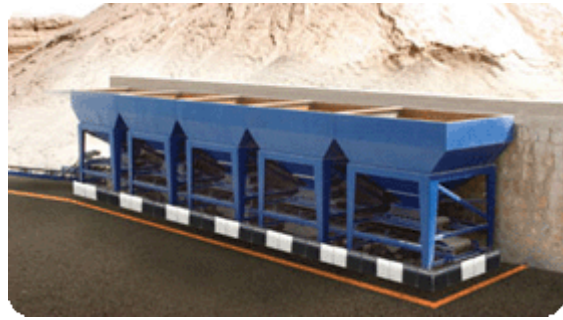
**Cycle weighing time :** 15 Sec

**Cycle mixing time :** 30 Sec



# Cold Feed Unit

Four individual feeder bins each with a 15 ton capacity. Each bin top and mid-section is reinforced for added rigidity. Bin bottom is designed with tapered opening to minimize bridging. Each bin is fitted with independent invertors linked to the control room, allowing accurate adjustment of the aggregate proportions on the go.



## **Feed Units :**

Bin Opening :	230cm x 330cm
Heaped Capacity :	15 tons per bin
Thickness of bins :	5-6 mm

## **Cold Feed Conveyor :**

Belt Length :	160 TPH (50cm x 165cm 3ply 10mm)
	120 TPH (50cm x 165cm 3ply 10mm)
Feeder Drive :	2.2 K.w Electromotor and gearbox

## **Collecting Conveyor :**

Belt Length :	160 TPH (60cm x 13 meters 3 ply 10mm)
	120 TPH (50cm x 13 meters 3 ply 10mm)
Belt Drive :	4 K.w Electromotor gearbox

## **Conveyor to the Dryer :**

Belt Length :	160 TPH(60cm x 11 meters 3ply 10mm)
	120 TPH (50cm x 11 meters 3 ply 10mm)
Belt Drive :	4 K.w Electromotor Gearbox

## **Bitumen tank**

**Capacity :** 45,000 liters

**Length :** 9.5 meters

**Height :** 2.40 meters

**Width :** 2.40 meters

**Heating Coils :** 4 Layers, 5 cm diameter

**Tank metal thickness :** 5-6 mm

**Insulation :** 5 cm of Glass wool covered by 2mm of steel lining.

**Temperature indicator :** analog gauge installed in the frame.

**Pump :** 3" bitumen pump with 11 K.w electromotor 1500 rpm.

The bitumen tank is supplied with a floating device that allows the pump to draw the bitumen from the highest point.



