Talvar asphalt mixing plant 120 t/h – bag filter

Technical specification

* **Cold feed system**
* **cold silos**

5silos(2+2 silos)

Matrial flow control with warning signal

2 remote control vibrator each 0.45 kw

Dimension (LWH) 3.6×2.4×3.55 m

Capacity 12 m3

* **feeder belts controlled from control cabin**

number of belts 4

dimension 1.5×0.6 m

drive unit 1.2 kw

inverter 2.2 kw

* **Dryer cold feed conveyor belts**

Conveyor drum 320 mm diameter and 730 mm length

Main rollicks 90 mm diameter and 250 mm length

Guiding rollicks 65 mm diameter and 95,120 and 740 mm length

Emergency line belt no.1 belt no.2

Width (3 layers) 70cm 70cm

Drive unit 5.5 kw 4 kw

* **Drying and heating system**

**2-1 Dryer**

Isolated with 5 cm rock wool & Aluminium cladding to reduce the fuel Consumption

Temperature is conslantly checked by sensor

Optimized heat transfer stages

Drum fixer to prevent linear movement of the drum

Negative pressure inside the drum tube prevents extracting of filler of the environment

* Length 10.5 m
* Diameter 2.2 m
* Declination of dryer tube 3 degrees
* Drive unit 4×11 kw

**2-2 Burner**

Equipped with silencer

Fuel type ( dual burner) diesel and heavy oil

Oil multi-fuel as option

Fuel viscosity( max) 10 c.st (200 c)

Fuel consumption 1560 kg/h

Capacity (max) 10 mil kcal/h

Air fan 18 kw,2000 rpm

Pump pressure (max) 40 bar

Pump output (max) 47 liter/min

Heavy oil temperature (max) 100 – 1200 c

Pump motor output 5 kw – 150 rpm

Voltage 400/230 v , 50 Hz

**2-3 Hot mineral elevator**

Closed and dust-tight structure

Chain type elevator with wear-resistant steel buckets

Weighted chain tensioner

16 mm heavy-duty chains according to amrican standards

Transfer unit from elevator to screens has wear-resistant ribs

Shaft length 21 m

Drive output 18 kw

* **Dust collecting system**

**3-1 Cyclone filter**

Adjustable to collect fillers(from 0 up 60%) equipped with a 4kw

screw conveyor

**3-2 Exhaust fan**

Backward type with 75 kw drive

SPB belt with guard

Shaft and fan inspection door

Motorized damper,controlled from control cabin

**3-3 Bag filter**

Hi-tech Euro2007standard filler/dust collecting system from dryer tube

Isolated with 5 cm rock wool and galvanized cage

Temperature sensor PT-100 to prevent filter bags from burning

Filtration area 450 m2

Max dust burden onto plant 250 g/m3

Max emission of dry particulate 20 mg/m3

Filter type Nomex

2 screws drive output 4 kw

Temperature 1200C – Max 1600C

**3-4 Filler alavator**

Twin elevator (separate shafts)for conveying filler from cyclone to silo

No. 1 and filler from bag filter to silo no. 2 ( option)

Drive output 11 kw

**3-5 Filler silo**

Bottom loading pipe and ladder to access the top of the silo

Capacity 5 tons

* **Mixing tower**

**4-1 Vibrating screening**

Separates aggregates to 5 grades (0-6) (6-12) (12-18) (18-25)

Dust-removal fan from screen and mixer

2 vibrating electromotor each 5 kw made by ital vibras

Ralling system for easy access and replacing the screens

Articulated chutes from screens

Screens inspection doors

Maximum temperature 2000 C

Total screen area 20 m2

**4-2 Hot mineral and filler silos**

Isolated with 5 cm rock wool and equipped with current level control system

No. of hot mineral silos 4

Capacity of hot mineral silos 30 tons

Capacity of filler silo 2 tons

Filler screws drive output 2 × 2 kw

**4-3 Weighing system**

High precision (0.0003) strain gauge load cells

Option to assign the discharge priority of the materials

Option to assign the mixing time

Hot mineral weighing load cells 4

Bitumen weighing load cells 3

Filler weighing load cells 3

Capacity of bitumen scale 250 liter

**4-4 Mixer unit**

2 layer mixer ,inner layer made from wear resistant cast iron plates

Cast iron paddles based on ASTM A532

Drive gearbox 2 × 22kw

Mixer capacity (1 batch) 1.5 tons

**4-5 Asphalt storage silo**

2 layer silo, isolated with 5 cm rock wool

Total capacity of silo30tons

Discharging doors electrically heated

Overflow alarming system

* **Compressed air supply**

screw type air comprasor

capacity 3 m3/min

2 containers 2000 and 500 liter

* **Control cabin**

**6-1 Monitoring**

Computerized control of the operation , control and display of the complete

Scope of delivery.

Storage of recipes, plant parameters and production and operational data.

Daily production report separately for every batch will be saved on a

file with Excel format and can be copied to flash memory. Running

the invertors will be done through the computer.

**6-2 Switch panels**

All the electric parts such as contactors and thermal contacts German brand.

* **Bitumen pump package**

Bitumen pump 2 inch/ made in turkey

Drive output 11 kw

Valves 1.2 and 3 inches

3-ways valve 1

Collector 1

Separator 1

* **Additional equipment**

**8-1 Oil heater**

Length 3.5 m

Diameter 1.7 m

Height 2 m

Burner thermal capacit 500000 kcal

Oil pump 2 inch

Drive unit 11 kw

**8-2 Bitumen flask**

Insolated with rock wool and galvanized steel

Length 9m

Diameter 2.5 m

Height 2.7 m

Capacity 50000 liter

Required power 620 KwA which will be supplied by Buyer