

Asphalt 140-160



Asphalt Plant Technical Characteristics with 120-160 t/h Capacity;

- Capacity 140-160 ton/hour on the basis of 3% material's moisture.
- Control system: full automatic, half automatic and manual.
- Dryer Output: materials temperature from 150-180 centigrade degree.
- Plant capacity could change up to 15% with respect to grain size, special weight, special temperature and

Material's moisture (sand and ballast), type of asphalt and also environmental conditions (pressure and

Temperature) and fuel's type.

1. Cold Silo:

- 4 cold silo systems with dimension of 3*3 m and capacity of 15 tons each,
- The body of silo is made of 5 mm steel sheets.
- Stands made of 8 mm Steel sheet bended to 30 *30 cm L- Cuts.
- Silo's Cross bands and wind catchers are made of 6 - 8 mm steel sheet.
- Four 2.2 KW electro-gearboxes equipped with inventor system for controlling the rotations from the control

Room.

2. Feeding Belt Conveyor:

- dimension of 600*12000 mm .
- related stands made of No12 pipes .
- equipped with electro-motor gearbox 4kw , VEM design for feeding the

cold materials into the dryer.

3.Cyclone Unit :

- the dust catching systems is made of 5mm steel sheet .
- Suction and connection channels between the dust catcher system and the dryer.
- Hot gasses expansion box.
- 6 mono-unit cyclone with 90cm diameter in cylinders and makes the total height of 3m.
- Chassis made of carriage No 14.
- Screw conveyor for transmitting filler from the dust catcher to the filler's elevator.
- Connection channel between the cyclone and the fan

4. Dryer:

- Dryer made of Spiral pipes with 1800 mm diameter and 8 m height , equipped with 2 radioactive heating areas and convection.
- radioactive section are formed and bended with 8mm steel sheet.
- Snappers of convention section are formed and bended with 6mm steel sheet.
- Chassis made of H-Bar , No 25.
- Steel gear wheels.
- Thermometer to control dryer's output.
- 2 idlers for stopping dryer's linear movement.
- Electro-motor 37 KW equipped with hydraulic clutch(electric starter).
- Covered Feeding box connected to the dust catcher made of 4mm steel sheet .
- Material's discharge box in front part of the dryer made of 4mm steel sheet.
- Material's discharge chute and control hatch .
- Idler rollicks with 550 mm diameter and 210 mm width, designed for transmitting power .

Steel rings with 2000mm diameter and 180 mm width are connected to the dryer body via adjusting stands.

Dryer's torch with 5,000,000 kcal/hour heating capacity ,adjustable from the control cabin.

5. Exhaust Fan;

Fan's diameter is 1000mm and 40 mm width.

Fan is made of anti-rubbing sheet with 4 mm thickness.

Shaft's diameter is 100mm and equipped with two ball bearings.

Electro-motor with 45 KW power , equipped with soft starter.

Hatch for controlling suction pressure.

6.Filler Storing Silo;

Filler storing silo with 150*110*185 cm dimensions.

A spiral system for transmitting the filler to the scale with 1.5k.w electro-motor gearbox.

Overflow chute to control the filler's surface.

7.Hot Materials' Elevator;

Snapper elevator installed between the dryer's output chute and the vibration screen.

Body's dimension is 130x 60 m , made of 4mm and 5mm steel sheet .

Equipped with skein from spout No6 and 1.5 m away from each other for an appropriate

body firmness.

Snappers with 26*30*45 cm dimensions.

American oval Shape chains made of round bars No16.

15 kw Electro-motor gearbox .

Lower part equipped with spring traction control system.

Upper part equipped with output chute and covered with anti-rubbing sheet.

8.Filler's Elevator;

- Body's dimension is 105*43 cm, made of 3mm steel sheet.
- Equipped with skein from spout.
- Snapper with 15*26*30 cm dimensions.
- Almond shape chain made from No12 round bar.
- 7.5 K.w Electro-motor gear box.

9. Vibratory Screen:

- Covered anti-dust screen with 1.40*1.55 m dimensions.
- 11 k.w Electro-motor .
- Dust suction using the plant suction's system.
- 2 decks with 4 grain size (oversize).

10. Hot silo:

- set of for 4 units which is made of 5 mm steel sheet and 200*190*370 cm dimensions and 10 m² capacity.
- Set of overflow and large grain chutes.
- 4 discharge hatches for transmitting the fill to the scale with pneumatic motor and roll bearing.

11..Materials' weighting unit:

- an amplifier and digital display to adjust different weights.
- weighting silo with pneumatic discharge hatch made of 5 mm steel sheet with thickness and 170*140*140 cm dimensions.
- 4 load-cells.
- Digital display in control cabin.

12. Filler Weighing Unit:

- Weighing silo with 70*140*60 cm dimensions made of 5mm steel sheet and equipped with pneumatic discharge hatch.
- Digital display in the control room.
- Equipped with 2 load-cells systems.

13..Weighing and Injecting Bitumen Into Mixer:

Weighing Reservoir with 74*45*80 cm dimensions made of 5 mm steel sheet and 2 walls equipped with hot oil coil to keep the

bitumen warm.

Digital display in the control cabin.

One load-cell.

3-way valve with secondary wall and hot oil transmission channels equipped with pneumatic motors.

3 inches Bitumen pump with 7.5KW electro-motor 900 rpm for injecting bitumen into the mixer.

2-ply pipes to transmit bitumen from the weighting unit into the mixer.

16 pipes to add the bitumen to mixer.

14. Mixer:

Mixer's body made of steel sheet 15mm.

Anti-rubbing wall made of tiles with 30*30 cm dimensions which is easily replaceable.

Two main axles from four sides 120*120 mm.

32 anti-rubbing fistulas and arms.

Anti-dust cover system.

55KW Electro-motor .

Pneumatic hatch for discharging materials with two jacks.

Asphalt Plant 140-160 ton Attachment

Water filter model 2400 - Marini Design:

Main tank diameter 2400mm and 6m height made from 5 mm steel sheets.

Chimney with 1300mm diameter and 6m height made from 5 mm steel sheets

Stands : 3m height made from 8 inch pipes.

One water pump with 11KW electro-motor and 3000 rpm.

Equipped with 75 nozzle water sprinkler.

Fender cap.

- Joint pipes and valves used in water recycle pool.
 - Connector channels between the filter and exhaust fan.
 - Flask for bitumen storage with 50,000 lit capacity, Marini design:
 - Dimension :9500*2400 mm.
 - Interior coiled in 4 layers made of Mansman pipe with 2inch diameter .
 - Main body made of 5 and 6 mm steel sheets .
 - Outer wall sheet made of 2mm steel sheets .
 - Fiberglass isolation with 50mm thickness.
 - Equipped with float for discharging bitumen variably(in different heights).
 - Gate valve for bitumen's entrée and egress.
 - Thermometer to display bitumen's temperature.
 - 3inch pump for transmitting bitumen from the flask into the bascule with 11 kw electromotor and 900 rpm.
 - 2-ply plumbery with 3 inch outer ply and 3 inch inner ply for bitumen's transmission.
 - 1 inch Oil pump to keep the 2 plies lines warm.
 - Hot oil furnace with 300,000 k/cal capacity, Marini design:
 - 350*170*200 cm.
 - Inner coating made of 5mm steel sheet .
 - Isolation by rock-wool 100mm.
 - Coating made of 2mm steel sheet .
 - Torch with calorific capacity 300,000 k/cal per hour.
 - 2 inch Oil pump with 7.5 kw electro-motor and 900 rpm.
 - One full automatic tableau system equipped with 2 thermostats, one pressure switch and related contactors.
 - Gate valve related to oil entrée and egress.
 - Expansion reservoir with 500lit capacity and related stands.
- Asphalt Storage Silo with 20ton Capacity;

- 200*200*400 dimensions with 20ton capacity.
- Made of steel sheet 5mm.
- Pneumatic discharge hatch.