

Vishvakarma

Drum Mix Plant – 60 (90/120 TPH)



Vishvakarma is the plant of choice for contractors all over the india, who demand affordable large-scale production, long-terms performance and lowest operating costs per tones of asphalt. Plant focused on delivering a simple, dependable easy-to operate and maintain. Truly plant with a durable design that lets contactors be competitive on both large and small projects.

Drum Mix Plant's Connected Equipments

- Four Bin Feeder Unit
- Slinger Conveyer Unit
- Load-Out Conveyer Unit
- Bitumen Tank
- Electric Control Panel
- Mineral / Lime Feeler Unit
- Vibrating Screen Unit
- Thermo-Drum & Mixing Unit
- Pollution Control Unit
- Insulated Control Cabine
- Fuel Tank
- Fuel Service Tank

Four Bin Feeder (COLD)



Four bin feeder unit is having four bins and each bin is driven by individual Dc motor drive so as to accurately conveyor, flow of aggregate from each bin. Vibrating arrangement of bin, low level & no flow warning device of bins. four bin feeds aggregate to gathering conveyer which is driven by motor drive. it is fitted with electronic weighting system material is form gathering conveyer flow to vibrating screen for removing over size material.



Vibrating screen removes oversize materials and feeds the remaining materials to charging conveyer. Separate size of screen can be provided for removing oversize material is form different kind of mix.



Slinger conveyor is provide for transferring the aggregates received from gathering conveyer as well as from vibrating screen after removing the oversize aggregates and discharging, it into dryer drum under combustion zone.



Thermo-drum & mixing unit of the drum mix asphalt plant is the heart of the plant. As called the aggregate is heated with automatic burner to require temperature and bitumen is added in the drum at suitable stage and bitumen is coated evenly to the aggregate in this drum. There are various stages in the drum like heating, mixing zone. That helps the aggregate and bitumen to heat and mix uniformly. The fins in the dryer unit are specially designed to get maximum heat efficiency that is to say minimum heat loss.

Dust collector unit is fitted at the rear end of the plant, that is at the output end of the plant. It is having an efficient dust collecting system and fitted with shutter, which can be varied as required. An exhaust fan having sufficient capacity to ensure an effective airflow through the dryer and through the dust-collecting unit.

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Load-out conveyer elevates the mix aggregate to such height that the mix material can be directly loaded in the dumper. It is fitted with a hydraulically operated hopper which helps the material to fall without segregation.



Pollution Control Unit, nozzles and water-bearing plates are made of stainless steel to resist corrosion. The sludge pond requires to be cleaned once a week based on normal site conditions. As a safety measure, always surround / cover the sludge pond with a wire fence since, working temperature of water may be above 80 degrees. It is also necessary to have the drain pipe submerged in the pond.

Bitumen Tank an insulated storage tank is designed with a heating system. It is insulated to prevent heat losses. The tank is equipped with a separate automatic electric burner for heating the asphalt. An automatic burner makes a hot gas stream through a pipe for heating. 25 mm thick external insulation with steel sheet covering. A temperature gauge is provided for examining the status leading to uniform quality. It is fabricated by using M.S. sections and plates. It has a capacity of 10, 15 up to 30 tons in various shapes like round and U shape.

Control Cabine is insulated cabin is provided with electric panel to operate the entire plant , the cabin may not have air conditioning system as per client requirements.

Electric control panel is fabricated from 16 SWG CRC sheet and processed with painting, the panel has in –feed master control, Aggregate flow measurement system, which controls asphalt flow, individual bin, asphalt flow indicator, automatic synchronization of aggregate with asphalt, aggregate and asphalt with totalizer printer for print -out record of all parameters for an instant verify of formula, automatic temp controls with indication, metering for aggregate, asphalt, input voltage, moisture and motor load.



Fuel tank is also supplied with the plant, having 10000 lts capacity with 2000 lts service tank.

Mineral / Lime feeler unit is also fitted at the output end of the plant, this unit into lime / cement /dust feeding rotary pump with fitted motor drive and air blower quantity of filler material to be added in the mix.



Manufacturer of :-

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