



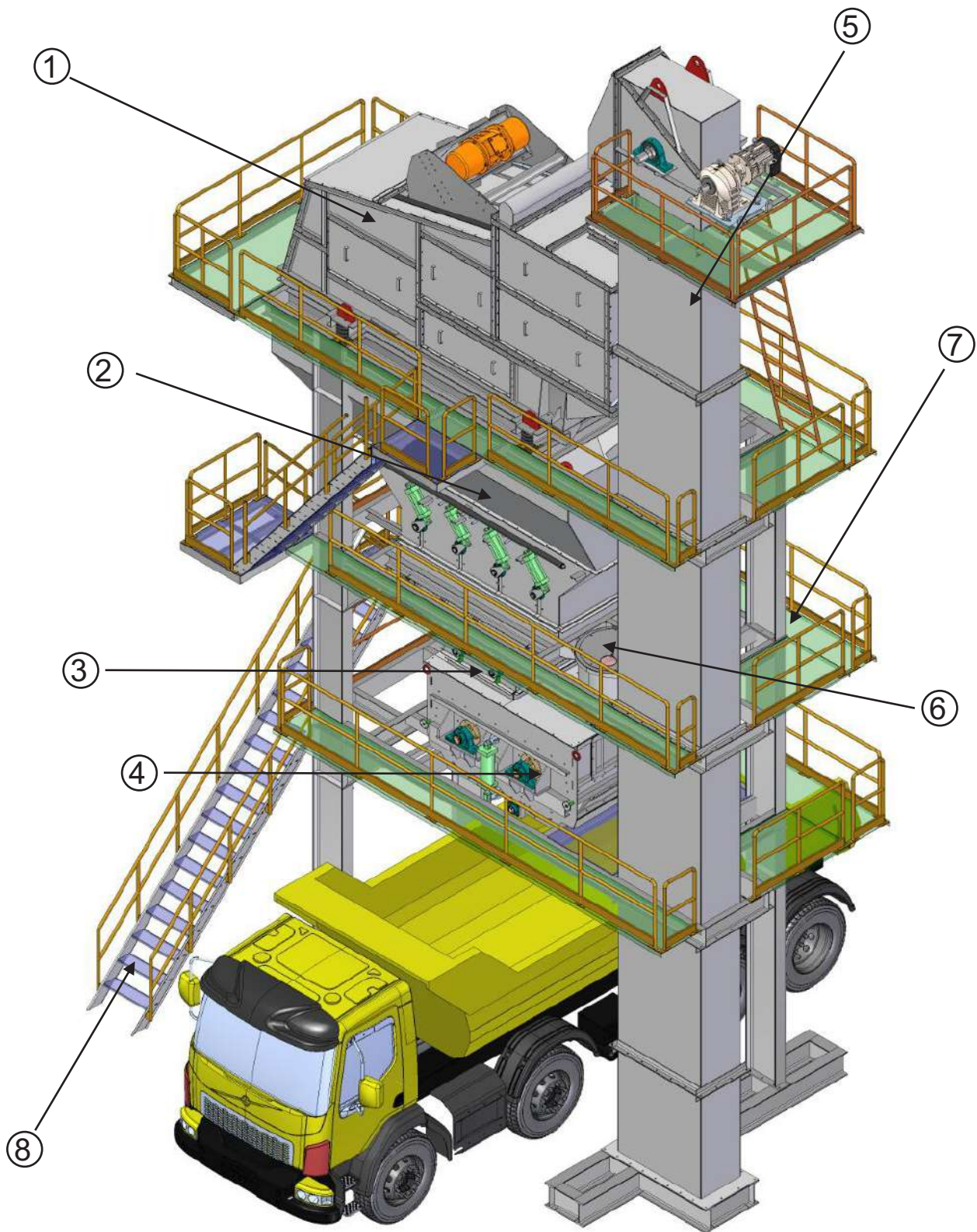
Superior Technology & Best Quality at Cost Effective Price



ASPHALT BATCH MIX PLANT Capacity 80 - 300 TPH



We are committed to our clients to provide cost effective products. With large years of experience we are leading in industry as we provide best service and support to our customers at one stop. We have best infrastructure and environment to manufacture best quality Road Construction Equipments. We are a team of people having rich experience and professionalism



- (1) Vibrating Screen Unit
- (3) Aggregate Weighing Hopper
- (5) Hot Bucket Elevator
- (7) Platform

- (2) Aggregate Hot Bin
- (4) Pugmill (Mixture Unit)
- (6) Bitumen and Addmixture Weighing Hopper
- (8) Staircase

BATCH MIX TOWER :-

Mainly in Batch mix Tower, Four deck Screening unit with vibro motors, Hot bins with surge storage, weigh section for aggregates, filler and Bitumen & Heart is Mixer with Large and quick mixing capacity. The free-floating screen design prevents any vibration from being transferred to the weighing scales. A wider platform with easy access eases the maintenance of the screens. Highly reliable weighing system with low maintenance load cells and an easy calibration system makes our Batch Mix Plant highly popular with the site engineers and plant operators. The Standard sampling tray for hot stone Bin and the paddles, arms and tips are made of Hardened alloy steel. The mixer unit is fully hot oil jacketed and supplied to the chain drive.



MAIN COMPONENTS IN BATCH MIX TOWER :-

Vibrating Screen



Vibrating Screen Unit is one of the important Component in the Batching Tower.

Vibrating Screen Unit Contains multiple Screens on the decks and provide good amount of continues vibration with unbalanced rotors in the vibrating motor.

The spring of the vibrating unit is made up of high Quality EN-47 Grade material to resist high vibrations of vibrating screen unit. Screen separate different sizes of aggregates in feathery good manner.

Aggregate Hot Bin

The Four Separating Compartments are provided to store aggregates of different sizes from the screen unit.

Aggregate Hot Bin is having four holes for Bitumen Input from the Bitumen Pump. Hot Bin Keeps all the aggregate hot & it works as storage of aggregates



Aggregate Weighing Hopper

Aggregate Weighing Hopper Basically Weighs different sizes of aggregate which comes from the hot bin.

It has four load sales and receives aggregate one by one. As total set quantity is complete in the weighing hopper, the aggregates are discharged to mixing unit of asphalt mixer.



Pug Mill (Mixing Unit)

Twin shaft type mixing is a powerful, robust, dynamic and designed for high precision, smooth & trouble free operation. The mixing system allow homogenous and fast mixing. The liners and tips are designed to resist high wear and tear & easily replaceable. This mixing unit is jacketed & provided with full length discharge gate.

Hot Bucket Elevator

Modular design for easy installation and transportation. Bucket are designed for taking huge amount of aggregates and easy transportation to vibrating screen. Anti Slip Feature



Asphalt Weighing Hopper

Helps in uninterrupted supply of bitumen into the mixer at uniform temp provided with spray pump.

COLD AGGREGATE BIN FEEDERS



Cold Aggregate four bins are welded with each other in easy addition of bins to meet their growing needs.

Bin walls allow free flow of aggregates from the feeders & minimizing hold-up of materials in the corners and bridging with sticky aggregates. The bins supplied with adjustable calibrated gate offer a total proportional control, greater flexibility and accuracy of operations.

THERMO DRUM UNIT :-

The thermo drum unit of asphalt plants are made and developed by the last 15 years of experience in the Construction field. Thermo drum unit is properly designed and renowned for maximum efficiency and at low maintenance level.

We have specially designed its flights to transfer the heat by convection, radiation and conduction, transforming uniform heat to all sizes of aggregates.

The Aggregate transferring to dryer drum by means of a charging conveyor. Seal Flange arrangement on dryer drum to reduce suction of cold air. Drum is Resting on four wheels & covered dome shape with air preheat arrangement for suction of hot air. Due to that it reduces heat loss / Power saving thermal stress on dryer drum.

KDI supply fully modulating Automatic controlled burner which is suitable for LDO, HSD and FO with Blower. High pressure pump and complete piping with flow meter and controls.



POLLUTION CONTROL UNIT

The KDI Batch Mix Plants are supplied with a standard pollution Control System, comprising of a twin cyclonic separators and a secondary bag house filter.

All KDI Batch Mix Plants are supplied with “Freedom”, a state of the art free air flow type bag house filter unit. Freedom Bag house filters are envied in the industry for their guaranteed savings on power, lower maintenance, trouble free service and strict conformance to stringent environmental norms.

HIGHLIGHTS

- Emission less than 50 mg / Nm³
- Lower Dust loads on bag house filter
- Longer bag filter life, due to reduced dust loads
- Zero Maintenance design
- Power Savings
- Filler recycling.



CONTROL PANEL UNIT WITH CONTROL CABIN

Fully computerized air conditioned control cabin, with on board electrical power control console, distribution switch board, fully automatic process, interlocks and sequence controls are our standard.

User friendly software on computer with a parallel PLC man machine interface gives you total reliability with top notch performance.

- Fail Proof interlocks and auto process controls.
- Online fault detection with remote connectivity and solution.
- Docket printing and inventory management.
- Provisions to print & store production details, mix proportions etc.
- Automatic cold aggregate feeder controls linked with mix design and hot bin levels.
- Automatic free fall compensation.



- PLC Diagnostics system allows for quick trouble location and trouble shooting in the plant.
- SCADA Controls an extension to PLC allow for access & charging system calibration from remote locations as well as production data storage for future references.
- Mix Temperature Automatic Controls.

The control is equipped with easy to operate function keys and numeric keys. The operator can monitor the complete process control, motor status and pneumatic controls through the color CRT display.

HOT MIX STORAGE SILO*

Multiple options and wide range of Hot Mix Material Storage silos available from 20 TONS to 320 TONS to meet plant Requirements. It will be provided as per client Requirement. Inline surge silo to skip winch assisted hot mix storage silos. It is offered with options to store different type of mix designs to meet different site demand. Advantages of Hot Mix Storage silo.

- (1) To achieve higher efficiency through longer continuous production Run.
- (2) Fuel Saving.
- (3) Help to deal with different mix design requirements.
- (4) Reduce the number of mix transporting tracks.



BITUMEN STORAGE TANKS

We are providing Bitumen Heating & Storage solutions.

Here customer have choice for Direct heating type storage Tanks or Indirect Heating type storage tanks with Hot oil circulation heater. Storage Tanks available from 15 to 50 TONS.

The Direct heating Bitumen Tanks are supplied with fully Automatic High Pressure Auto Jet Imported Burner.

The Indirect heating Bitumen Tanks are supplied with a high quality Thermic oil Heater As a standard of All Tanks with Auto Thermostatic controls and level gauge option.



FILLER FEEDING / STORAGE*

Foreign Filler silo can offer from 4 - 50 TONS capacity. The filler from silo is transported into the filler elevator on the batching tower, which weighed & mixed in pugmill unit.

As a Standard filler silo are supplied with level indicator and process interlocks.



TECHNICAL SPECIFICATIONS

Plant Model			1500	2000	2500	3000
	Plant Capacity @3% Moisture Content	tph	128	160	200	240
	Batch Size	kg	1600	2000	2500	3000
	Cycle Time	sec	45	45	45	45
Units						
Cold Feed Bins	No. of Bins*/ Capacity	nos / m ³	4 / 29.2	4 / 37.2	5 / 46.5	5 / 46.5
Charging Conveyor	Capacity	tph	140	180	220	260
Thermo Drum	Dryer (L x D)	mtrs	8 x 2.1	8 x 2.1	9 x 2.3	9 x 2.3
	Drive Type		4W Friction Drive			
Burner	Type		High Pressure, Fully Automatic, Modulating			
	Fuel		Diesel / Furnace Oil			
	Capacity	MW / hr	14.1	14.1	17.3	17.3
Hot Elevator	Capacity	tph	140	180	220	260
Tower Unit						
Filler Elevator	Capacity	tph	21	21	21	21
Screening Unit	Screening Method		Inclined Circular Vibration			
	No. of Deck		4	4	5	5
	Screening Capacity	tph	140	180	220	260
Hot Aggregate Bin Unit	No. of Bins		4	4	5	5
Weighing Unit	Aggregate Hopper Capacity	kg	1600	2000	2500	3000
	Filler Hopper Capacity	kg	300	300	400	400
	Bitumen Hopper Capacity	kg	225	225	300	300
Mixer Unit	Type		Twin shaft hot oil jacketed			
	Mixer Capacity	kg	1600	2000	2500	3000
	Bitumen Pump	lpm	800	800	1000	1000
Pollution Control Unit						
Primary	Type		Centrifugal Double Cyclone		Knock Out Box	
Secondary	Type		Bag House Filter			
	Bag House Filter		Reverse Air flow*			
	Filter Area	m ²	330	330	590	590
Control Panel	Type		Fully Computerized with manual over-ride			

* Options available

ACCESSORIES

Filler Silo	Capacity Range	m ³	3 / 7 / 11 / 18 / 28			
Bitumen Tanks	Capacity Range	m ³	15 / 25 / 30 / 50			
	Heating System		Direct heating / Thermic oil heating			
Thermic Oil Heater	Hot Oil Heater Capacity	kcal / hr	300000 / 500000			
Hot Mix Storage Silo	Capacity Range	m ³	12 - 200			

Offer for capacities under 128 tph on request.

Open Land Requirement 55 m x 55 m

*Due to KDI Policy of continuous improvement / development, the technical data mentioned in this entire sheet is not binding and subject to change without notice.



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