

WILSON ENGINEERING INDUSTRIES PVT LTD



Batch Mix Plant

Experience
the **road**
to **progress**

Batch Mix Plant

Wilson Make Asphalt Batch Mix Plant with PLC based computerized panel and bag house type pollution control unit available in various capacities.



Cold Aggregate Hopper

Four Nos. Cold aggregates hopper with a heaped capacity of approx. 40 T. Wide opening bin width to accommodate different loader capacities. Anti Bridging bin design to ensure smooth and easy

material flow, irrespective of the material level.

Sturdy and proven structural design having an installed base

Dryer Drum Unit

Counter flow, Cylindrical, inclined type Dryer Drum unit with field proven internal flights designed to give bonus drying capacity with change in moisture content.

Internal dryer flights are specifically designed and arranged in the dryer drum to obtain higher heating efficiency and homogeneous heating of different grain size aggregates.

Hot aggregates temperature measuring thermocouple type probe for measurement of hot aggregates at the dryer outlet.

Dryer drum supports comprising of four heavy duty trunion rollers and two thrust rollers on a rigid frame, and equipped with two trunion rings.

Burner Unit

S series - Fully Automatic, Proportioning, High Pressure, Fuel atomising type low noise Burner capacity: 300 - 1150 Ltrs/hr suitable for Light diesel fuel oil or ASTM D396 No.4 Fuel oil with a wide turn down ratio. Fully integrated low noise turbo blower Powered by a 15 KW, 4 pole motor.

Remote operating and control station, high pressure fuel oil pump together with flame monitoring system, and with an electric igniter, interconnections, controls, safety devices and interlocks, fuel line piping with necessary control valves, filters, structural base, supports and complete internal wiring and connections into the control cabin. Unique dome type Air pre-heater that collects radiation heat around the dryer drum.

Control Cabin with PLC Based Fully Automatic Control Panel

Fully computerized air-conditioned control cabin with PLC based panel

Bitumen Storage And Heating System

2 nos. Cylindrical, horizontal Asphalt storage tank, capacity 30 000 Ltrs. each. Fully insulated and clad with internal heat transfer coils and temperature indicator.

Thermic oil heating system with fully automatic light oil burner, hot oil transfer pump, necessary controls and safety interlocks.

Bag House Filter Unit

The two stage dry dust collection system has a bag house filter with around 380 m² of filtering area.

Batching Tower

Batching Tower comprising of Hot Elevator, Completely enclosed four deck vibrating screen, Hot Aggregates Bin, highly reliable Automatic accumulating, weighing type Aggregate weigh hopper, with four point suspension hopper and load cell transducer, Pugmill type Mixer Unit.



Technical Specification of Asphalt Batch Mix Plants

Plant Model			WBP 120	WBP 160
	Plant Capacity @ 3% Moisture Content	TPH	120	160
	Batch Size	Kgs	1500	2000
	Cycle Time	Sec	45	45
Units				
Cold Aggregate Feeder	No. of Bins	nos	4	4
	Storage Capacity	MT	65	65
	Auxlary Drive Motor	KW	1.5X 1500RPM X 4 Nos.	1.5X 1500RPM X 4 Nos.
	Auxlary Conveyor Belt		450mm X 2.5 m X 4 Ply	450mm X 2.5 m X 4 Ply
	Auxlary Conveyor Gear Box		SMSR X 4 Nos.	SMSR X 4 Nos.
	Gathering Conveyor Drive Motor	KW	5.62 X 1500 RPM	5.62 X 1500 RPM
	Gathering Conveyor Gear Box		SMSR	SMSR
	Gathering Conveyor Belt		600mm X 21.0 m X 4 Ply	600mm X 21.0 m X 4 Ply
	Bin Vibrator	KW	0.75 X 1500 RPM	0.75 X 1500 RPM
	Feeding Capacity	TPH	200	200
Over all Dimension	Mtr.	12.1 X 2.53 X 3.1	12.1 X 2.53 X 3.1	
Over Size removal Screen	Drive Motor	KW	0.75 X 1000 RPM	0.75 X 1000 RPM
	Wire Mesh	mm	53 X 53	53 X 53
Slinger Conveyor	Conveyor Drive Motor	KW	5.62 X 1500 RPM	5.62 X 1500 RPM
	Conveyor Drive Gear Box		SMSR	SMSR
	Conveyor Belt		600mm X 15.0 m X 4 Ply	600mm X 15.0 m X 4 Ply
Thermo Drum Unit	Dimension	Mtr.	Ø1.8 X 7.0 Long	Ø2.1 X 8.0 Long
	Drive Motor	KW	30 X 1500 RPM	30 X 1500 RPM
	Drive Gear Box		Heavy Duty Worm Gear	
	Drive Mechanism		3.075" Chain Drive/4 W Friction Drive	
Burner	Type		High Pressure, Fuel Atomising, Fully Automatic	
	Connected Power	KW	15 X 1500 RPM	18.75 X 1500 RPM
	Fuel		Disel/ASTM D396 No.4 Fuel Oil	
	Capacity Range	LPH	300 - 1150	300 - 1150
Hot Elevator	Capacity	TPH	120	160
	Drive Motor	KW	11.25 X 1500 RPM	11.25 X 1500 RPM
Main Tower				
Filler Screw	Capacity	TPH	21	21
Screening Unit	Screening Method		Inclined Circular Vibration	
	No. of Deck	Nos.	4	4
	Screening Capacity	TPH	120	160
	Connected Power	KW	4 X 1500 RPM X 2 Nos.	4 X 1500 RPM X 2 Nos.
Hot Aggregate Bin Unit	No. of Bins	Nos.	4	4
	Capacity	Cu m	13	13
Weighing Unit	Aggregate Hopper Capacity	Kgs	1500	2000
	Filler Hopper Capacity	Kgs	300	300
	Bitumen Hopper Capacity	Kgs	225	225
Mixer Unit	Type		Twin Shaft Jacketed Pug Mill	
	Mixer Capacity	Kgs	1500	2000
	Bitumen Transffer Pump	LPM	450	450
	Connected Power	KW	5.625 X 1500 RPM	5.625 X 1500 RPM
Pollution Control Unit :-				
Primary	Type		Cascade type Pre Seperator	
Secondary	Type		Bag House Filter	
	Bag House Filter		Reverse Air Flow	
	Filtering Area	Sq.m	380	380
	Exhaust Drive Motor	KW	90 X 1500 RPM	90 X 1500 RPM
Fuel Tank	Capacity	Ltr	15000	18000
	Fuel PumpConnected Power	KW	5.625 X 1500 RPM	5.625 X 1500 RPM
Control Panel	Type		Fully Automatic PLC Based with Manual Over-Ride	
Optional Accessories				
Filler Silo	Capacity Range	Cum	3/5	
Bitumen Tank	Capacity Range	MT	10/15/20/25/30/40	
	Heating System		Direct Heating/Thirmic Oil Heating	
Thermic Oil Heater	Heating Capacity	Kcal/H	50000	

* Due to continuous improvement being made from time to time, all the specifications are subject to change without prior notice.



Works at

Sandhipur, J54, Dasnagar D11B, Eldeco
Sankrail, Howrah Industrial Estate, Howrah SIDCUL Industrial Park, Phase II,
T: 91 33 26617002 T: 91 33 26538565 Sitarganj, Dist: Udhamasinghnagar, Uttarakhand T: 91 0 9810599028

Office at
C2A/235B, Janakpuri,
New Delhi 100058
T: 91 0 9810599028

Head Office: 7B Anuj Chambers, 24 Park Street, Kolkata 700016, India.
T: 91 33 22262960 / 1 / 2 / 3, F: 91 33 2226 4045. E: info@wilson.co.in W: www.wilson.co.in