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ASPHALT DRUM MIX PLANT



WET MIX MACADAM PLANT



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ISO 9001 : 2008

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ASPHALT DRUM MIX PLANT

Primax Manufactures high quality asphalt drum mix plant which is engineered with genuine quality spare parts and components using most advanced technology.

Our aim is to produce asphalt mixing plant that enhances the efficiency of contractors at work and enables them to complete the construction of roads ahead of schedule with better quality. Capacity of our Drum Mix Asphalt Plant varies from 20 TPH to 120 TPH.



DRYER DRUM

The dryer is accurately fabricated to ensure proper heating of aggregates with minimum heat loss. It is supported on steel rollers through steel tyres with idlers and guide rollers and is provided with segmented driving sprocket.



MULTI CYCLONE EXHAUST

The Primary dust collecting system consists of enclosed multiple cyclones, exhaust fan and chimney.

FOUR BIN FEEDER

It is of single and double chassis construction. At each Bin, a radial gate is provided which can be opened in any position to regulate the aggregate flow. Individual endless belts fitted with variable speed motors discharges material onto the gathering conveyor as per the mix design.



VIBRATING SCREEN

A single-deck vibrating screen is provided below the discharge point of Gathering Conveyor to separate the over size materials from the aggregate.



CONVEYORS

A slinger conveyor is provided which receives aggregate from the four bin feeder and feeds it to the dryer drum.

Load out conveyor fitted with hydraulically operated hopper is provided at the discharge end of the dryer drum which feeds the hot mix material into Tippers/Dumper.



DRYER BURNER

A fully automatic, high pressure, auto jet burner is mounted at one end of the drum.

ASPHALT (BITUMEN) TANK

Tank of 15/20 MT capacity is provided, fabricated from steel plates with 50 mm glasswool insulation, manhole, thermocouples, etc. Bitumen is pumped to the dryer drum through hot oil jacketed pipelines. Tanks are fitted with independent on-off type burners.



FUEL TANK

One Tank of 2500 / 5000 Ltrs. Capacity is provided with each plant.



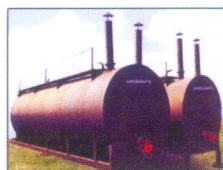
Dryer Burner



Flight Design inside Dryer Drum



Mineral Filler



Asphalt (Bitumen) Tank



Control Panel



Pollution Control Unit

MINERAL FILLER

Mineral Filler is fabricated from steel plates & Sections. Filler material is fed to the Mixing zone in a controlled way by high performance Blower / Air Compressor through the rotary Valve.

CONTROL CABIN

A fully automatic control panel with push button control is provided for controlling the quality and quantity of production with operator sitting inside the Control Cabin. Control Cabin is so designed to provide proper visualization of the operator in 360° angle. Air Conditioned system is optional with the Control Cabin. The total system is completely synchronized with automatic / manual control of burners, load cells, mix temperature, cold feed / mineral / bitumen proportions, etc. Manual control is possible through over-ride system. Adequate safety measures are adopted to avoid overloading, short-circuit etc.

POLLUTION CONTROL UNIT

POLLUTION CONTROL DEVICE SECONDARY WET DUST COLLECTOR WATER BROWSER (SCRUBBER) DESIGN

Consisting of Ducked for passing draft, Water Spraying chamber with special spraying nozzle, wet dust outlet and residue water overflow connection dipped into sludge tank, Monoblock pump.

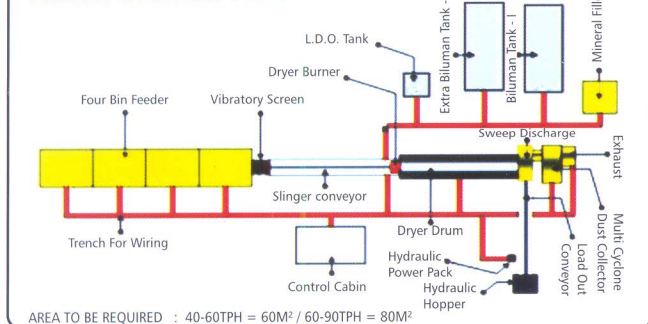
Existing Chimney shall be utilized. Sludge collection tank in purchaser's scope.

ADVANTAGES

- Components which are used of Original and best quality.
- The Components are so designed by which it can be easily dismantled for repair and maintenance work.
- Easy to lubricate in the matching parts and thus increases the long trouble free life of the Equipments.
- Fabricated parts are thoroughly cleaned and treated before painting.
- Manufacturing is done with advanced, internationally recognised techniques.

ASPHALT DRUM MIX PLANT

Plan for Drum Mix Plant



Model	Capacity (TPH)
PDM-25	20 - 30
PDM-35	30 - 45
PDM-45	40 - 60
PDM-50	60 - 90
PDM-60	90 - 120

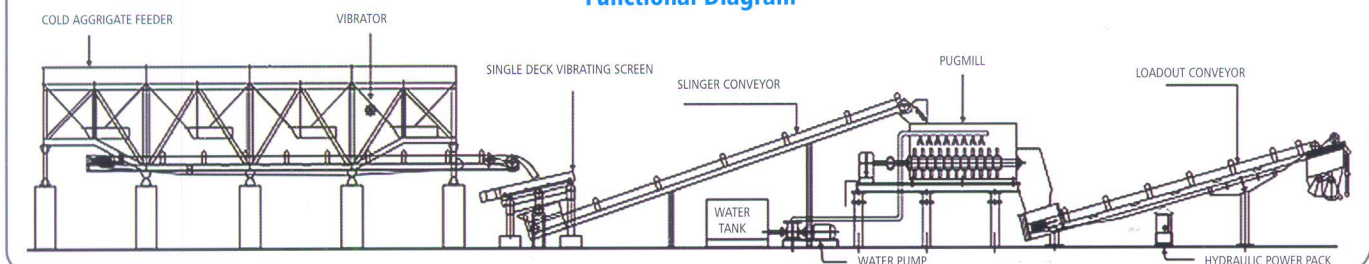
WET MIX MACADAM PLANTS

In continuing the tradition of providing automation excellence in Road Construction Machinery, PRIMAX has engineered their Wet Mix Macadam Plant for achieving homogenous mix material to prepare base and sub base in Road Construction Projects. Designed to confront the toughest job site requirements and maximum reliability and uptime. PRIMAX WMM Plants have robust structure and quality precision.

Motivated to meet specific customer requirements, PRIMAX WMM Plants ranging from 100 to 300 TPH can be tailored as needed. Cement stabilization (CTAB) system and other optional accessories can be provided as per requirement.

WET MIX MACADAM PLANT

Functional Diagram



ASPHALT DRUM MIX PLANT TECHNICAL SPECIFICATION

MODEL	PDM-25	PDM-35	PDM-45	PDM-50	PDM-60
CAPACITY RANGE (TPH)*	20-30	30 to 45	40 to 60	60 to 90	90 to 120
DRYER					
Length (m)	5	6.2	6.2	6.75	6.75
Diameter (m)	1.05	1.13	1.22	1.5	1.82
Insulation (Cerawool in mm)	25	25	25	25	25
Exhauster (CFM)	5500	7500	10500	14500	18500
Burner Rating (Ltrs./Hr)	150	150	250	350	550
BIN FEEDER					
No. Of Bins	4	4	4	4	4
Bin Capacity (MT)	8	8	11	11	13
Belt Feeder Width (mm)	500	500	500	500	500
Gathering Conveyor Width (mm)	600	600	600	600	600
SLINGER CONVEYOR					
Conveyor Width (mm)	600	600	600	600	600
LOADOUT CONVEYOR					
Conveyor Width (mm)	600	600	600	600	600
Loadout Height (m)	3.2	3.2	3.2	3.2	3.2
Hopper Capacity (kg)	800	800	800	1000	1000
POWER REQUIREMENTS					
Drum Drive (HP)	10	15	20	30	40
Exhauster (HP)	10	15	20	25	50
Bin Feeder hopper (HP)	4 x 2	4 x 2	4 x 2	4 x 2	4 x 3
Gathering Conveyor (HP)	3	5	5	5	7.5
Slinger Conveyor (HP)	3	5	5	5	7.5
Vibratory Screen (HP)	1	1	1	1	2
Loadout Conveyor (HP)	3	5	5	5	7.5
Hydraulic Powerpack (HP)	2	2	2	2	5
Bitumen (Asphalt) Pump (HP)	3	3	3	3	3
Filler Unit					
Rotary Valve (HP)	1.5	1.5	2	2	5
Blower (HP)	5	5	5	5	5
Dryer Automatic Burner					
Fuel Pump (HP)	2	2	2	2	3
Blower (HP)	3	3	5	10	15
Hot Oil Pump (HP)	0.5	0.5	0.5	0.5	0.5
BITUMEN TANK					
Capacity (MT)	15	15	15	20	20
Insulation (Glasswool in mm)	50	50	50	50	50
FUEL TANK					
Capacity (MT)	2500	2500	5000	5000	5000
TOTAL CONNECTED LOAD					
Load (KVA)	80	100	120	135	220

*Capacity @ 3% moisture content

WET MIX MACADAM PLANT TECHNICAL SPECIFICATION

DESCRIPTION	PWM - 100 TPH	PWM - 160 TPH	PWM - 200 TPH.
Four Bin Feeder	4 Bin	4 Bin	4 Bin
Storage Capacity	40 TON	52 TON	52 TON
Gear Box	SMSR x 4 Nos.	SMSR x 4 Nos.	SMSR x 4 Nos.
Auxiliary Drive Motor	2 HP DC x 4 Nos.	2 HP DC x 4 Nos.	3 HP DC x 4 Nos.
Con.belt	450 mm x 2.2 mtr. - 3 Ply	500 mm x 2.5 mtr. - 3 Ply	550 mm x 2.7 mtr. - 3 Ply
Gathering Drive Motor	5 HP	7.5 HP	10 HP
Gear Box	SMSR x 1 Nos.	SMSR x 1 Nos.	SMSR x 1 Nos.
Con.belt	600 mm x 21 mtr. - 3 Ply	600 mm x 21 mtr. - 3 Ply	650 mm x 22 mtr. - 3 Ply
Bin Vibrator	1 HP	1 HP	1HP
SLINGER CONVEYOR			
Drive Motor	5 HP	7.5 HP	10 HP
Gear Box	SMSR x 1 Nos.	SMSR x 1 Nos.	SMSR x 1 Nos.
Conveyor Belt	500 mm x 12.3 mtr. 3 Ply	500 mm x 15.7 mtr. 3 Ply	600 mm x 16.7 mtr. 3 Ply
AGGREGATE MIXING EQUIPMENT (PUG MILL TYPE)			
Drive Motor	20 HP	20 HP	25 HP
Gear Box Nu Type	8 NU	8 NU	9 NU
Shaft	Twin Shaft	Twin Shaft	Twin Shaft
Paddle Arm's	20	22	24
WATER TANK			
Capacity	10,000 Ltr.	12,000 Ltr.	15,000 Ltr.
Water Pump	2 HP	2 HP	3 HP
LOAD OUT CONVEYOR			
Motor	5 HP	7.5 HP	10 HP
Gear Box	SMSR x 1 Nos.	SMSR x 1 Nos.	SMSR x 1 Nos.
Conveyor Belt	600 mm x 13.5 mtr. 3 Ply	650 mm x 16.7 mtr. 3 Ply	700 mm x 19 mtr. 3 Ply
Gob Hopper Capacity	1.5 TON	2 TON	2.5 TON
Hyd. Power Pack	2 HP	2 HP	3 HP

*Actual physical size may vary.

Exports PRIMAX ASPHALT MIXER SUPPLIED TO OVERSEAS BUYER



Specifications may change at our sole discretion without notice

An ISO 9001 : 2008 Company

Our Others Product



Combined Drying & Mixing Unit



Mobile Hot Mix Plant



Mobile Hot Mix Plant



Oil Fired Tar (Bitumen) Boiler



Mastic Asphalt Cooker



Road Cleaning Machine