

Aptec Drum Mix Plant

DMP
45/50/60

www.aptecequipment.com

Technical Specifications

Model	DMP 45	DMP 50	DMP 60
Rated output at 3% moisture content	40-60 Ton	60-90 Ton	90-120 Ton
Four Bin Feeder			
No. of Bins	4	4	4
Storage Capacity (Ton)	32	42	47
Auxiliary Drive Motor	2 HP x 4 Nos.	2 HP x 4 Nos.	2 HP x 4 Nos.
Auxiliary Conveyor belt	450 mm x 2.55 mtr	450 mm x 2.55 mtr	450 mm x 2.92 mtr
Gathering Drive Motor	5 HP	5 HP	5 HP
Gathering Belt Width (mm)	600	600	600
Bin Vibratory Motor	0.25 HP	0.25HP	0.25 HP
Vibrating Screen			
Screen Size	45 x 45 mm	45 x 45 mm	45 x 45 mm
Vibrating Motor	0.75 HP / 750 RPM	0.75 HP/ 750 RPM	0.75 HP/ 750 RPM
Slinger Conveyor			
Drive Motor	5 HP	5 HP	5 HP
Conveyor Belt	600 mm	600 mm	600 mm
Thermodrum			
Dryer (Drum) Unit	1.23 x 6.4 mtr	1.54 x 6.7 mtr	1.85 x 7.31 mtr
Drive Motor	20 HP	25HP	40 HP
Drive Gear Box	Heavy Duty Worm Gear	Heavy Duty Worm Gear	Heavy Duty Worm Gear
Drive Chain Pitch	3.075" pitch	3.075" pitch	3.075" pitch
Main Burner type	Pressure Jet (High/Low)	Pressure Jet (High/Low)	Modulating
Main Burner Connected Power	13 HP	20 HP	27.5 HP
Exhauster	10,500 CFM	14,500 CFM	18,500 CFM
Exhaust Drive Motor	20 HP	25HP	40 HP
Multi Cone Dust Collector			
No. of Cones	20	15	21
Dust Screw Drive Motor	2 HP	2 HP	2 HP
Mineral Filler			
Mineral Filler (capacity)	1.5m ³	1.5m ³	1.5m ³
Drive Gear Box	Worm type Gear	Worm type Gear	Worm type Gear
Drive Motor	2 HP	2 HP	2 HP
Air Blower	7.5 HP	7.5 HP	15 HP
Fuel Tank Capacity			
Fuel Tank (ltr.)	2000	5000	5000
Fuel Oil Pump	1 HP	1 HP	1 HP
Load Out Conveyor			
Conveyor Drive Motor	5 HP	7.5 HP	7.5 HP
Conveyor Belt HR Grade (width)	600 mm	600 mm	600 mm
GOB Hoper Capacity	1500 kg	1500 kg	2000 kg
Hyd. Power Pack	3 HP	3 HP	5 HP
Bitumen Tank			
Bitumen Heating Burner	Electronic Burner	Electronic Burner	Electronic Burner
Capacity	15 ton	25 ton	25 ton
Bitumen Drive Motor	5 HP	5 HP	5 HP
Bitumen Pump (Jacketed)	2" x 2"	2" x 2"	2" x 2"
Control Cabin and Control Panel	AC Drive	AC Drive	AC Drive
Connected Power	91 KVA	108 KVA	160 KVA
Open Land Requirement	35 x 35 mtr	35 x 35 mtr	40 x 40 mtr

- With Aptec's policy of constant up gradation of products, specifications are subject to change without prior notice.
- Accessories shown here are optional and not the part of standard supply.



Aptec Equipment Pvt. Ltd.

Nr. Hotel Repose, On Chhatral-Mehsana Highway, at Bileshwarpura, Kalol - 389 320 [Gujarat] INDIA.
E-mail: info@aptecequipment.com | www.aptecequipment.com
Tel: +91 99104 02464, 90991 44644

ifma1996@gmail.com_DMP_02_22

ROAD TO SUCCESS



Drum Mix Plant
DMP 45/50/60

Asphalt Road Construction Equipment



Aptec Drum Mix Plant

DMP 45/50/60



Aptec automatic Asphalt Stationary Drum Mix plants, compliant to the latest M.O.R.T.H. specifications, are designed and engineered to give trouble-free performance with superior fuel efficiency. Our pursuance to offer our customers the best and constant up-gradation of products; today showcases exceptional and unmatched product refinement in our asphalt mixing plants.



Cold Aggregate Four-bin Feeder

This is the very first step. Different sized aggregates are fed into the different feeder bins. This helps in getting proper proportion of each size as per the need.

- Each bin will have individual gear and variable speed drive motor. It is possible to control the speed of each bin to get proper proportion of each item.



Bitumen Tank

Bitumen tanks act as storage point for bitumen used in the asphalt plant. These tank storage and heat Bitumen so that it can be used in the drum mixer for mixing with hot aggregate. Bitumen tank comes in different sizes starting from 15 tons to 30 tons as per the customers requirement.

- The bitumen inside the tank is heated by burner. It helps to achieve higher thermal ratings, reduce emissions.

Aptec Drum Mix Plant

DMP 45/50/60



Pressure Jet Oil Burner

This is a simplest system where the burner has two firing rates. The burner operates first at the lower firing rate and then switches to full firing as needed. The burner can also revert to the low fire position at reduced loads, again limiting thermal stresses within the system.

- It does not consist of any complex parts or electronic components and is very easy to replace.



Control Cabin & Panel

Control cabin with on board electric power console, distribution, switch board, fully automatic processes are a standard on Aptec DMP plants. It displays the entire process control parameters while panel enables the plant to run in auto & manual mode.

- Separate temperature controller and GOB hopper timer from totalizer reduces maintenance cost.
- User friendly software ensures top notch performance.
- Provision to store, edit production details, mix proportions, etc is possible.

Standard Configurations

- Drying and Mixing Unit
- Slinger Conveyor
- Single Deck Vibrating Screen
- Four Bin Feeder
- Bitumen tank
- Load out Conveyor with GOB Hopper
- LDO Tank / Fuel Tank
- Fully automatic control panel with Fully furnished Cabin



Drying and Mixing Unit

The Drum does two operations: Drying and mixing. Rotating Drum is equipped with flights which help in drying the aggregates in first half of the drum and in the second half of the drum, the aggregates are mixed with bitumen filler material.

- Parallel flow drying & mixing unit allows more mixing time to ensure uniform mixture.



Pollution Control Unit [Optional]

VENTURI type wet dust collectors are highly efficient and are known to maintain required environmental standards. The extreme turbulence leads to superb entrapping of dust laden exhaust gas. Large size stainless steel nozzles provide a clog-free operation to ensure optimum cleaning efficiency.

Optional Accessories

- Storage Silo for Mix Material
- Additional Bitumen Tank
- Mineral Filler Unit
- PLC Control panel with computer & SCADA
- Pollution Control Unit