



ASPHALT DRUM MIX PLANT

Capacity DM : 35/45/50/60

“FOR THE ROADS TO BE REMEMBERED FOREVER”

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MISSION & VALUES

- To establish best turnkey based projects for providing Fab Privilege to our clients nationally and globally
- To transform from a mid size manufacturer company to a leading manufacturing company.
- To provide most comprehensive construction and waste recycling plants for achieving our motto of building a bright future.



VISION

- To become a renowned build technology in the world of fabrication through our best perseverance efforts & advancement for the development and progress of our clients.

TECHNICAL DETAIL

	DM-45 (40-60 TPH)	DM-50 (60-90 TPH)	DM-60 (90-120 TPH)
Cold Feed Bins			
Capacity @ 3% moisture content	45 tph	60 tph-90 TPH	90 tph -120 TPH
No.of Bins*/Total Storage	4/20 m3	4/20 m3	4/25 m3
Auxiliary Conveyor Belt	450 mm x 2.2 m	450 mm x 2.2 m	450 mm x 2.9 m
Charging Width Gathering	2.55 m	2.55 m	3.05 m
Conveyor Belt Feeding	500 mm x 22.4 m	500 mm x 22.4 m	600 mm x 25.6 m
Capacity	80 tph	100 tph	120 tph
Slinger Conveyor			
Conveyor Drive capacity	80 TPH	100 TPH	140 TPH
Drum			
Dryer Length x Diameter	1.23 m x 6.02m	1.54 m x 6.40m	1.54 m x 6.7 m
Drive Type*	Cradle type chain drive	Cradle type chain drive	Cradle type chain drive
Drive Gear Box	Heavy Duty Worm Gear	Heavy Duty Worm Gear	Heavy Duty Worm Gear
Burner Capacity	250 lph/3 MW	350 lph/4 MW	550 lph/6.5 MW
High Pressure Burner Type	Fully automatic dual stage	Fully automatic dual stage	Fully automatic dual stage
Fuel Type*	diesel	diesel	diesel
Burner Capacity	60 lpm	80 lpm	120 lpm
Drive Type	AC variable speed drive	AC variable speed drive	AC variable speed drive
Load out Conveyor Belt	80 TPH	100 TPH	140 TPH
Gob Hopper Capacity	1.0 ton	1.0 ton	1.5 ton

POLLUTION CONTROL UNIT (OPTIONAL*)

Wet dust type collector	
Type	Extreme turbulence Venturi
Dust emission	Less than 150 mg/m ³

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FOUR BIN FEEDER

Aggregate feeding bins are equipped with variable speed drive motors and gear boxes on each bin.

These variable speed drive motors control and regulate the flow of aggregate individually thus allowing addition of required proportion of individual aggregates as per mix design.



DRYER DRUM

Drying and mixing drum of hot mix plant is the most important component. As the name suggests, it does the task of drying the aggregates as they enter the drum and at a later stage, the aggregates are mixed effectively with bitumen and other minerals. This drum is with specially designed flights which treat each type of aggregate thoroughly for drying and also help in uniform mixing with bitumen and other minerals.

The burner is efficient low noise burner capable of drying the aggregates faster



SLINGER CONVEYOR

The charging conveyor used to feeding of mixed aggregate into drum unit for mixing of asphalt. It is equipped with 10 HP cell for weighing. This conveyor helps to put the aggregates from below the vibrating screen into the drying and mixing drum for further process.

Not only this, the conveyor is fitted with a load cell for weighing of aggregates when they are being charged into the drying and mixing drum.

Charging conveyor is driven by variable speed drive.



DRYER BURNER

Asphalt drum mix plant with low noise and efficient burner is capable to work with diesel, LDO and furnace oil (optional). Maintenance free burner is with strong flame capable of heating the aggregates to the maximum. Burner works endlessly to reduce the aggregate moisture content to minimum.

The plant is fitted with thermometric instruments at different places so as to indicate the temperature of exhaust gases, bitumen and mixture.



MINERAL FILLING UNIT

This unit is for addition of dust or mineral to the mix material in the mixing zone of the drying and mixing unit. It is provided with a rotary valve driven by variable speed drive motor.

Filler material is conveyed to the drum through the drum through a pipe by a twin lobe air compressor. Air compressor is advantageous over blower used for pushing the minerals in the drum. There is a vibrating screen to allow free flow of material.

You would not like to get the fine material getting stuck in the filler unit, RIGHT?



LOAD OUT CONVEYOR

Load out conveyor is used to discharge the hot mix material into truck. The other end is equipped with a GOB hopper.

GOB hopper helps in controlling segregating of the mixed asphalt. It is useful to come with hydraulically operated gates.



POLLUTION CONTROL UNIT

Wet dust collectors work in combination with dry dust collectors to trap the dust which may have escaped from the dry dust collector. Wet dust collector settles the dust using water in the form of a sludge. This water can be used in the plant.

Wet dust collectors are provided with stainless steel nozzles for efficient spraying. The turbulence effect allows quick settlement of dust.

Bag house filters can also be made available



BITUMEN TANK (DIRECT HEATING)

It is meant for bitumen storage purpose, which is fully jacketed by higher density glass wool to avoid heat loss. The storage capacity compares from 15mt. to 50 mt. It is equipped with bitumen level gauge, temp. sensor, valves & jacketed pipe. Liners stored bitumen is heated up by means of HSD fuel fine burner which is mounted on three of 16" pipe coil.



COMPUTERISED PANEL WITH DIGITAL DISPLAY

Our equipment comes with pre-loaded easy to use software which ensures top notch performance.

An optional PLC based panel can also be supplied for better efficiency and low maintenance.

Microprocessor panel



PLC panel



HOT MIX STORAGE SILO (OPTIONAL)

ATLAS offers complete standard solution for safety storage of hot mix material.

Silos are supplied with standard safety controls.

Hot mix asphalt storage Silo's are supplied in capacities 5 Tons, 10 Tons, 15 Tons, 20 Tons, 25 Tons and up to 50 Tons.



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