



Asphalt Drum Mix Plant

Rhino Road Equipments Pvt. Ltd. produces 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 of road. Capacity of our drum mix asphalt plant varies from 20 TPH to 120 TPH.

YouTube: <http://youtu.be/yBOMArshJTM>

RHINO

ROAD EQUIPMENTS PVT. LTD.

Manufacturer of Road Construction Machineries

www.rhinoroadequipments.com

Model	Capacity (TPH)
DM-25	20 - 30
DM-35	30 - 45
DM-45	40 - 60
DM-50	60 - 90
DM-60	100 - 120



ISO 9001:2008

AN ISO 9001:2008 CERTIFIED COMPANY





Our asphalt drum mix plants are designed and developed in compliance of international and Indian standards and have been appreciated by all users both in domestic and International market. Asphalt drum mix plant (also called asphalt mixing plant) made by us are unmatched in quality and highly demanded by private contractors, state government road departments and industries etc.

The various components of the plant are as under:

FOUR BIN FEEDER

Modular constructed bins fabricated in a single chassis. Steep walls of bin and Valley angles help the aggregates free flow from the Feeder. It also minimizes hold up materials in the corners and bridging with sticky materials. The individual bins are incorporated with adjustable calibrated radial gate opening, endless belting, variable speed feeder drive system, by which Operator can control the flow of material accurately as per requirement.

VIBRATING SCREEN

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

SLINGER CONVEYOR

An inclined conveyor mounted on Troughing Idlers receives aggregate from the gathering conveyor and feeds it to the Thermo Drum.

DRIER DRUM

The Drier is accurately fabricated to ensure proper heating of aggregates with minimum heat loss. Specially designed flights lift and cascade the aggregate to reduce the final moisture content to 0.5% (by weight). The auto lubrication system ensures proper and adequate lubrication on the chain drive thereby ensuring long years of trouble free service. Specially treated sprockets, thrust wheels, trunion rings and trunion rollers, engineered precisely for flawless and trouble free drier drum rotation, ensures unlimited productivity. A fully automatic high-pressure atomized auto jet fuel efficient burner is mounted at one end of the drum. The discharge chute is preciously designed to discharges the heated mix aggregate directly onto the load out conveyor.

BITUMEN TANK

One Bitumen Tank of 15/20/25 M. Ton capacity is provided with Asphalt Drum Mix Plant. Bitumen Tanks are fabricated from steel plates and sections with 50 mm thick glass wool Thermal insulation, manhole, thermocouples, Hot Oil Circulation System etc. A high capacity hot oil jacketed geared pump which is controlled by an AC variable speed System feeds the metered amount of bitumen into the mixing section of the Thermo Drum unit through pipe lines. Tanks are supplied with individual automatic imported pressure jet burner.

MULTI CYCLONE EXHAUST

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



WORK IN PROGRESS



DESPATCH IN PROGRESS





Load Out Conveyor

LOAD OUT CONVEYOR

Mixed aggregate from the mixing unit is discharged on an inclined conveyor provided with a hydraulically operated hopper at delivery end for feeding the Mix into Tippers.

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 controls is provided for controlling the quality and quantity of production with operator sitting inside the Control Cabin. Control Cabin is so designed to proper visualization of the operator in 360o 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.

FUEL TANK

One Fuel Tank of 3000 / 5000 Liters Capacity is provided with each plant according to the type of Plant.

MISCELLANEOUS

- 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.
- Proper precautions are taken before Painting work.
- Manufacturing is done by skilled professionals using advanced technology.



Control Cabin



Control Panel



Mineral Filler

OPTIONAL

- Wet type air pollution control system.
- Hot mix storage silo (as per requirement).
- Agitator for CRMB Tank.
- Air Conditioner System for Control Cabin

Our Other Products

Mobile Drum Mix Plant

consisting of:

- One Single Chassis consisting Drying & Mixing Unit, Cold Aggregate Four Bin Feeder, Conveyors, Gob Hopper & L.D.O./Fuel Tank
- Bitumen Tank with towing system
- Fully Furnished Cabin with Electrical Control Panel on towing system

Wet Mix Plant

consisting of:

- Pug mill Mixing Unit
- Cold Aggregate Four Bin Feeder
- Oversize Removal Vibrating Screen
- Conveyors-Load out & Slinger
- Gob Hopper
- Electrical Control Panel with Fully Furnished Cabin

Bitumen Sprayer Bitumen Pressure Distributor

salient features:

- Fully - Insulated Tank with High Efficiency Heating System
- Air Cooled Diesel Engine & Positive Displacement Gear Pump
- Designed to Stuff Standard Truck Chassis
- Safe & Easy in Operation
- Hand Spray System
- Unique Pressure Cleaning System
- Totally Factory Tested, Arrives Ready to Launch



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Asphalt Drum Mix Plant Technical Specifications

	DM-45 (40-60 TPH)	DM-50 (60-90 TPH)	DM-60 (90-120 TPH)
Four Bin Feeder			
No. of Bins	4	4	4
Storage Capacity	45 tons	55 tons	65 tons
Auxiliary Drive Motor	1.125 KW x 4 Nos.	1.125 KW x 4 Nos.	2.25 KW x 4 Nos.
Auxiliary Conveyor Bolt	500 mm x 2.5 mtrs. x 4 ply	500 mm x 2.5 mtrs. x 4 ply	500 mm x 2.9 mtrs x 4 ply
Auxiliary Conveyor Gear Box	SMSR x 4 Nos.	SMSR x 4 Nos.	SMSR x 4 Nos.
Gathering Drive Motor	3.75 KW	3.75 KW	5.5 KW
Gathering Gear Box	SMSR	SMSR	SMSR
Gathering Conveyor Bolt	600 mm x 21 mtrs. x 4 ply	600 mm x 24 mtrs. x 4 ply	600 mm x 25 mtrs x 4 ply
Bin Vibrator (1 No.)	0.75 KW	0.75 KW	0.75 KW
Feeding Capacity	100 tph	140 tph	200 tph
Overall Dimension (Approx.)	12 mtrs x 2.50 mtrs x 2.2 mtrs	12 mtrs x 2.50 mtrs x 2.55 mtrs	12 mtrs x 2.50 mtrs x 2.55 mtrs
Total Connected Load	9.0 KW	9.0 KW	15.25 KW
Over Size Removal Screen			
Drive Motor	0.75 KW x 1500 rpm	0.75 KW x 1500 rpm	0.75 KW x 1500 rpm
Wire Mesh	53 mm x 53 mm	53 mm x 53 mm	75 mm x 75 mm
Slinger Conveyor			
Conveyor Drive Motor	3.75 KW	3.75 KW	3.75 KW
Conveyor Drive Gear Box	SMSR	SMSR	SMSR
Conveyor Belt	600 mm x 15 mtrs x 4 ply	600 mm x 15 mtrs x 4 ply	600 mm x 15 mtrs x 4 ply
Thermo Drum Unit			
Drive Motor	15.00 KW	18.75 KW	30.00 KW
Drive Gear Box	Heavy Duty Worm gear	Heavy Duty Worm gear	Heavy Duty Worm gear
Drive Chain Pitch	3.075"	3.075"	3.075"
Main Burner Connected Power	250 lph / 3.75 KW	350 lph / 5.625 KW	550 lph / 11.25 KW
Exhauster	10500 cfm	14500 cfm	17500 cfm
Exhauster Drive Motor	15.00 KW	18.75 KW	30.00 KW
Multicone Dust Collector			
No. of Cones	19	19	21
Fuel Tank Capacity			
L/o Conveyor Belt Drive Motor	3.75 KW	5.625 KW	5.625 KW
L/o Conveyor Belt SHR Grade	600 mm x 17.8 mtrs x 4 ply	600 mm x 17.8 mtrs x 4 ply	600 mm x 20 mtrs x 4 ply
Gob Hopper Capacity	1.2 ton	1.2 ton	1.5 ton
Hyd. Power Pack	2.25 KW	2.25 KW	3.75 KW
Bitumen Tank			
Capacity & Shape	15 ton (U shape)	20 ton (U shape)	25 ton (U shape)
Bitumen Drive Motor	3.75 KW	3.75 KW	3.75 KW
Bitumen Gear Box	Heavy Duty Worm gear	Heavy Duty Worm gear	Heavy Duty Worm gear
Bitumen Pump (Jacketed)	2" x 2"	2" x 2"	2" x 2"
Hot Oil Drive Motor	0.375 KW	0.375 KW	0.375 KW
Hot Oil Pump	1/2" X 1/2" Gear Pump	1/2" X 1/2" Gear Pump	1/2" X 1/2" Gear Pump
Mineral Filler Unit			
Drive Motor	1.5 KW	1.5 KW	2.25 KW
Drive Gear Box	Heavy Duty Worm gear	Heavy Duty Worm gear	Heavy Duty Worm gear
Rotary Valve	150 mm	150 mm	150 mm
Capacity	0.8 m ³	1 m ³	1.5 m ³
High Speed Blower	1.5 KW	1.5 KW	1.5 KW
Total Connected Load	60.375 KW	71.625 KW	108.25 KW
Open Land Requirement	35 mtrs x 35 mtrs	35 mtrs x 35 mtrs	40 mtrs x 40 mtrs

Optional

Bitumen Tank	Capacity	15/20/25/30/50 tons
	Heating type	Direct Heating Type
Hot Oil Heater	Type	Normal Pressure horizontal Tubular
	Capacity	500 000 kcal/hr
Hot Mix Storage Silo	Capacity	10/15/25/50 tons
CV Series Wet Dust Collector	Type	Ventury
	Exhaust Power	15/18.75/30kw
	Water Pump	3.75 kw
	Dust Emission	<150mg / Nm ³
	Overall Dimension (without ducts)	4500mm(L)x1800mm(W)x2300mm(H)

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