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LAL'S
ASPHALT & CONCRETE EQUIPMENT

LAL'S EXPORTERS (INDIA) PVT LTD

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LAL'S
ASPHALT & CONCRETE EQUIPMENT



ASPHALT DRUM MIX PLANT
LDMX Series : 15 - 150 TPH Capacity



LAL'S Exporters (India) Pvt. Ltd. is a leading supplier and exporter of Road & Building Construction Equipment, operating from various locations worldwide. We have been providing our products and services on a global scale, meeting international quality standards for over a decade. Being stationed across the globe, through our liaison offices, we encourage our clients to reach out to us freely as per their need.

We have covered a long journey to become one of the leading exporters of state-of-the-art Road & Building Construction Equipment like Asphalt Plants (Batch and Continuous Drum type), Wet Mix Macadam Plants (Soil Stabilization Plants) Paver Finishers (Sensor & Mechanical - Dual Application), Concrete Batching Plants (Stationary, Mobile & Compact), Bitumen Sprayers, Road Sweepers, Road Marking Machines, Stone Crushers, Brick / Block Making Machines, Concrete Mixers etc. in wide range of models to meet the customers' requirement. For more details, you may visit our company website - www.lalsexporters.com / www.lalsequipment.com

We take all the necessary initiative at every level of production process to ensure that top notch quality remains an inherent part of our affairs. The company endeavors to maintain competitive price and stick to prompt delivery norms. Being a customer centric company, we are deeply committed to offer quality products and services that provide true value to our customers. Thus, timely delivery of the products at cost effective price remains our foremost aim when it comes to nurturing the trust that our customers have placed on us.

ASPHALT DRUM MIX PLANT

LAL'S Asphalt drum mixing plant is a parallel / counter flow continuous plant used for the manufacture of asphalt, macadam and other forms of coated road stone, sometimes collectively known as blacktop, hot mix or asphalt concrete.

It is modern design having all essential features of a latest generation Hot Mix Plant for obtaining Hot Mix of designed quality for Road Construction works as well as in road repair and maintenance works undertaken for improving road surfaces. The plant offered is simple for erection, operation & maintenance with complete indigenous sophisticated and effective controls for efficient processing. The plant will meet all engineering specifications in construction and factor of safety provided as per norms.



MODEL	CAPACITY
LDMX - 30	25 - 30 TPH CAPACITY
LDMX - 45	30 - 45 TPH CAPACITY
LDMX - 60	45 - 60 TPH CAPACITY
LDMX - 90	60 - 90 TPH CAPACITY
LDMX - 120	90 - 120 TPH CAPACITY
LDMX - 150	120 - 150 TPH CAPACITY

**Stationary and mobile plants of higher capacity are available as per specific requirement.



Quality Components make a Reliable Equipment

LAL'S asphalt drum mix plant is mainly composed of cold aggregate bin feeders, oversize removal vibratory screen, slinger conveyor, thermo dryer drum cum mixing unit with automatic burner, fuel tank, pollution control system, load out conveyor with discharge gob hopper, filler unit, bitumen tank & control panel fitted in weather proof cabin. Most of these main components are built in house to meet the international standards. While bought out items are from Internationally recognized Brands.



COLD AGGREGATE BIN FEEDERS



Four bin feeder are constructed of 5 mm thick steel plates and supported on a rigid steel frame. Each bin will be provided with a belt feeder under the bin driven by a variable speed motor for feeding the aggregate at a uniform and predetermined rate through a precision adjustable bin quadrant gate. Each bin deposits its aggregate on a gathering conveyor belt driven by an electric motor.

BITUMEN TANK

Bitumen tank of 15 / 20 / 25 / 30 / 40 MT capacities are provided. The tanks are constructed of 5 mm thick steel plates and supported on rigid steel frames. The tank is glass wool insulated and GI sheet cladded to retain the heat. Tanks are equipped with a burner for proper heating of the bitumen.



OVERSIZE REMOVAL VIBRATORY SCREEN



Single deck vibratory screen is provided at the discharge end of the gathering conveyor to enable rejection of any oversize material above the permissible limit before loaded on the slinger conveyor and to the dryer.

THERMO DRYER DRUM CUM MIXING UNIT



The dryer cum mixing unit will be of a dual zone THERMO DRUM design and will consist of a rotating cylindrical drum mounted on a sturdy and robust steel structure. The drum is supported on four-machine trunnion equipped with heavy-duty roller

bearings. It's rotated by a cradle type chain drive, powered by an electric motor coupled to a precision gearbox.

Fabricated from high quality plates upto 12 mm thick, having flights exclusively & uniquely designed to assure a quality and homogenous mix. The exterior is ceramic wool insulated and stainless steel / GI sheet cladded to retain heat.

The THERMO DRUM will be

divided into two energy zones - a Radiation Zone and a Convection / Coating Zone. The greatest concentration of heating energy will be in the Radiation Zone where it will be applied to the cold, wet aggregate and most of the heating and drying will take place therein. Bitumen will be injected in the Convection / Coating Zone (protected from the direct flame of the burner by the radiate heat shield) where mixing with dried and heated aggregate will be completed.

The dryer and mixing drum will have a sweep discharge chute for giving an even and positive discharge from the side of the mixer.

A slinger conveyor belt will be provided for transferring the aggregate received from the gathering conveyor and discharging it into dryer under combustion zone. A continuous electronic weigh-bridge with load cells will be mounting on the slinger conveyor for weighing accurately the aggregate.



DRYER BURNER



The dryer drum is equipped with burner packages which include a fuel efficient fully automatic high-pressure jet burner with fan motor & fuel oil pump with auto on / off control.

FUEL TANK

The storage tank of appropriate capacity (2,500 ltrs. / 5,000 ltrs. / 10,000 ltrs.) is provided for fuel supply to burners.



MIX LOAD OUT CONVEYOR



Truck loading will be by an inclined load out conveyor (heat resistant belt) equipped with a surge (Gob) hopper with hydraulically operated clamshell gate, to provide surge capacity when changing trucks and to control segregation in the mix.

FILLER UNIT

A dust and filler conveying system will include a rotary valve with AC motor and with fines piping back to drum mixer.



CONTROL CABIN & PANEL

The entire working of the plant will be fully automatic with provision for manual operation. A fully automatic centralized control panel with on / off push buttons, indication lights / gauges will be provided inside an insulated cabin for switching on and off any of the drive motors of the plant independently and with interlocking relays.

Fully computerised control cabin fitted with on board control panel will have:

- A user friendly power control to operate the whole plant with ease.
- Provision to print, store and edit production details, mix proportions etc.
- Auto / Manual over ride facility.
- Displays all process control parameters.



POLLUTION CONTROL SYSTEM (WET SCRUBBER)

A highly efficient wet type pollution control system is provided. It is designed to achieve an effective control for air pollution. The wet collector will be working on the principle of wetting the dust particles entered in the exhaust gases and trapping them in water droplets, which are drained from the system in the form of water sludge.

The dust laden exhaust gas will be drawn from the drum mixer and into the Venturi by the exhaust fan. Exhaust gas will pass through a water spray (water mist) introduced by multiple nozzles. As the exhaust gas enters the separator, the dust-laden water will be removed by centrifugal action and skimmer blade to a settling pond. The final dust free exhaust is discharged through chimney.

In our wet scrubber - large & wide spray nozzles are provided for clog free operation and to assure minimum water requirements. An exhaust fan with sufficient capacity will be fitted to produce high pressure air flow through the dryer to assure more efficient operation of wet type collector with less maintenance.



BAG HOUSE FILTER UNIT (OPTIONAL)

Bag house filter unit fitted with filter bags made from high temperature resistant (200°C) Aramid Fibers. Having low maintenance design keeps emissions at less than 50 mg / Nm³, meeting International pollution control norms.



OTHER KEY PRODUCTS :



ASPHALT BATCH PLANT



WET MIX PLANT



PAVER FINISHER



CONCRETE BATCHING PLANT



BITUMEN / EMULSION SPRAYER



CHIP SPREADER



STONE CRUSHER



CONCRETE MIXER



ROAD MARKING MACHINE



ROAD BROOMER



BRICK / BLOCK MAKING MACHINE

***For detailed technical specifications, please ask for Techno Commercial Offer.*

TECHNICAL SPECIFICATION

Description / Model	LDMX - 30 (25 - 30 TPH)	LDMX - 45 (30 - 45 TPH)	LDMX - 60 (45 - 60 TPH)	LDMX - 90 (60 - 90 TPH)	LDMX - 120 (90 - 120 TPH)
BIN FEEDER					
No. of Bins	2	4	4	4	4
Wall Thickness	5 mm	5 mm	5 mm	5 mm	5 mm
Total Storage Capacity	15 Ton	30 Ton	40 Ton	50 Ton	60 Ton
Bin Feeder Drive	2 HP x 2 Nos.	2 HP x 4 Nos.	2 HP x 4 Nos.	2 HP x 4 Nos.	3 HP x 4 Nos.
Bin Feeder Belt	500 mm	500 mm	500 mm	500 mm	500 mm
Gathering Conveyor Drive	3 HP	5 HP	5 HP	5 HP	7.5 HP
Gathering Conveyor Width	500 mm	500 mm	600 mm	600 mm	600 mm
Bin Vibrator (1 No.)	0.25 HP	0.25 HP	0.25 HP	0.5 HP	0.5 HP
VIBRATING SCREEN					
Motor	N/A	1 HP	1 HP	1 HP	2 HP
Wire Mesh	N/A	40 mm x 40 mm	40 mm x 40 mm	40 mm x 40 mm	40 mm x 40 mm
SLINGER CONVEYOR					
Drive Motor	3 HP	3 HP	5 HP	5 HP	7.5 HP
Conveyor Width	500 mm	500 mm	500 mm	500 mm	600 mm
THERMO DRYER DRUM CUM MIXING UNIT					
Drum (Dia & Length)	1020 mm x 6560 mm	1230 mm x 5300 mm	1230 mm x 6300 mm	1520 mm x 7100 mm	1820 mm x 8000 mm
Cerawool Insulation	25 mm	25 mm	35 mm	35 mm	35 mm
Plate Thickness & Type	8 mm HR Plate	10 mm HR Plate	10 mm HR Plate	10 mm HR Plate	12 mm HR Plate
Drum Unit Chassis	200 mm I Beam	200 mm I Beam	250 mm I Beam	300 mm I Beam	350 mm I Beam
Drum Drive Motor	10 HP	15 HP	20 HP	30 HP	40 HP
Drive Chain (Cradle Type)	2.0" Pitch	2.5" Pitch	2.5" Pitch	3.0" Pitch	3.0" Pitch
DRYER BURNER					
Burner Type	Auto On / Off Control	2 Stage (High - Low)	2 Stage (High - Low)	2 Stage (High - Low)	Modulating
Blower Power	3 HP	5 HP	5 HP	10 HP	15 HP
Burner Rating	150 Ltrs / hr.	180 Ltrs / hr.	250 Ltrs / hr.	350 Ltrs / hr.	550 Ltrs / hr.
Exhauster	5,500 CFM	10,500 CFM	12,500 CFM	14,500 CFM	18,500 CFM
Exhaust Drive Motor	10 HP	15 HP	20 HP	25 HP	50 HP
INCLINED LOAD OUT CONVEYOR					
Conveyor Drive Motor	3 HP	3 HP	5 HP	5 HP	7.5 HP
Conveyor Width (HR type)	500 mm	500 mm	600 mm	600 mm	600 mm
GOB HOPPER					
Gob Hopper Capacity	0.8 Ton	0.8 Ton	0.8 Ton	1.5 Ton	1.5 Ton
Hyd. Power Pack	2 HP	2 HP	2 HP	5 HP	5 HP
BITUMEN TANK					
Capacity	15 MT	15 MT	20 MT	20 MT	25 MT
Plate Thickness & Type	5 mm & M.S. Plate	5 mm & M.S. Plate	5 mm & M.S. Plate	5 mm & M.S. Plate	5 mm & M.S. Plate
Glasswool Insulation	50 mm	50 mm	50 mm	50 mm	50 mm
Bitumen pump	3 HP	3 HP	3 HP	3 HP	3 HP
MINERAL FILLER					
Filler Unit Capacity	n/a	1.5 Ton	1.5 Ton	1.5 Ton	2 Ton
Rotary Valve	n/a	1 HP	1 HP	1 HP	1 HP
Mineral Filler Blower	n/a	1.5 HP	1.5 HP	1.5 HP	1.5 HP
FUEL TANK					
Capacity	2,500 Liters	5,000 Liters	5,000 Liters	5,000 Liters	10,000 Liters
Fuel Tank Drive Motor	2 HP	2 HP	2 HP	2 HP	5 HP
Total Connected Load	62.5 KVA	82 KVA	100 KVA	125 KVA	200 KVA
Open Land Requirement	40 x 40 METERS				