

# ASPHALT PLANT



Available as stationary and mobile.

**STATIONARY VARIANTS:** DM 45 (40-60 tph), DM 50 (60-90 tph), DM 60 (90-120 tph)

**MOBILE VARIANTS:** MDM 45 (40-60 tph), MDM 50 (60-90 tph), MDM 60 (90-120 tph)

Capacities above 120 tph are tailor made.



# ATLAS INDUSTRIES

ATLAS is one of INDIA'S leading manufacturers of road and civil construction machinery. We specialize in delivering professional-grade solutions for customers.

ATLAS INDUSTRIES is an ISO 9001 : 2008 company engaged in design, development, manufacturing, marketing and servicing a complete line of Asphalt Drum Mix Plants, Wet Mix Macadam Plants, Concrete Batch Mix Plants, Bitumen Pressure Distributors and Mechanical Brooms.

## **WHEN YOU WORK WITH US, YOU CAN EXPECT:**

**PROFESSIONALISM:** We're dedicated to providing exceptional service to our clients by being responsive, effective, and reliable.

**PERSISTENCE:** We do things the right way, even when it's the hard way. We'll always seek to do what's best for you and your company.

**PRECISION:** We're proud of every job we do.

**EXPERIENCE:** With 30+ years of experience in manufacturing road construction equipments we know exactly what we're doing.

**QUALITY:** The best quality products in the business.



# AGGREGATE FEEDER

In our stationary and mobile asphalt drum mix plant all the four bins are fitted with individual A. C./ D. C. motors and gear box to control and regulate the flow of aggregate from each bin.

Gathering conveyor is equipped with scrapper and driven by A. C. motor. Aggregate from the gathering is fed to the drum with a slinger conveyor after removing oversized materials.

\* - Supplied with mobile plants.



INDIVIDUAL FEEDER GATES



VIBRATORY MOTOR



GATHERING & SLINGER BELT



\*WIRING TRAY



NO FLOW INDICATOR SWITCH



\*JUNCTION BOX



# VIBRATING SCREEN

In the stationary as well as mobile drum mix plants, a rugged single deck vibratory screen is placed at the end of cold aggregate feeder. Its job is to remove the oversized materials.

[www.atlasindustries.in](http://www.atlasindustries.in)

# SLINGER CONVEYOR

The slinger conveyor belt is an important component in a stationary or mobile drum mix plant. Driven by A. C. motor, aggregates are transferred to drying and mixing unit of the hot mix plant. It is equipped with weigh bridge (Load Cell) for continuous monitoring of weight (tons/hour)

Its job is to weigh aggregate and transfer it to the mixing and drying unit .

\*\* - Supplied with export quality plants.



\*\*FULLY COVERED SLINGER TO REDUCE DUST



# DRYING AND MIXING UNIT

The drying and mixing unit is the most important part of an Asphalt plant. The dryer assures outstanding efficiency in uniformly heating and drying the aggregates because of the specially designed and arranged lifting flights. Rotary cylinder drum is mounted on sturdy platform driven by AC motor with sprocket and chain equipped with high pressure jet burner, flights, bitumen and fines piping, frame mounted exhauster fan with high efficiency dust collector fitted with discharge dust screw conveyor.

\* - Supplied with mobile plants.; \*\* - Supplied with export quality plants.



SPRING SUPPORT



FLIGHTS



\*\*STAINLESS STEEL COATING



\*INTERNAL CABLING



DRUM SPOKES



THRUST & TRUNION ROLLERS



\*JUNCTION BOX



# MULTI FUEL BURNER

High pressure jet burner is capable of heating the aggregate to the required temperature without any un burnt fuel or carbon residue on the aggregate and to reduce the moisture content of the aggregate to minimum. The unit is also with suitable type of thermometric instrument fitted at proper places so as to indicate the temperature of exhaust gases, bitumen and mixture. For pressure Jet burner a suitable Fuel storage tank with fuel transfer pump is provided. The low noise burner has sufficient capacity to cover the entire range of thermal energy required for drying the aggregates with various type of fuel.





# LOAD OUT CONVEYOR

The aggregate discharged from the drying drum is collected into a heat resistant belt supported by inclined load out conveyor equipped with GOB hopper with hydraulically operated cam shell gate to provide surge capacity when changing trucks and to control segregation in the hot mix.

Hydraulic Power Pack is for hydraulic opening and closing of the hopper gates. The storage capacity of GOB hopper ranges from 1 to 1.5 T depending on the model of plant.

\*\* - Supplied with export quality plants. Hot mix SILOS and bucket elevator can be supplied.



**\*\*FULLY COVERED LOAD OUT CONVEYOR TO REDUCE HEAT LOSS FROM HOT MIX**

# LIME / ADDITIVE FILLER

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 A. C. /D. C. motor. Filler material is conveyed to the drum through the drum through a pipe by suitable twin lobe compressor. The inlet of mineral is adjacent to the bitumen line in the Drying drum.

[www.atlasindustries.in](http://www.atlasindustries.in)



TWIN LUBE AIR COMPRESSOR

# FUEL TANK FOR DRYER BURNER

The dryer burner supplied is FO, Diesel and LDO compatible. There is a standard fuel tank supplied with the plant to store and supply the desired amount of fuel to the dryer burner. This tank also comes with its pumping station.



PUMPING STATION



# BITUMEN STORAGE AND SUPPLY TANK

Our storage tanks are mounted on a sturdy FULL chassis. Storage tanks are cylindrical or U shaped. The tank is insulated with glass wool to avoid heat loss and reduce fuel consumption.

Automatic pressure Jet oil burner (diesel), bitumen pump with jacketed oil body, bitumen metering system with variable speed motor and hot oil circulation motor is provided.

Available in 10 to 50 T capacities

\* - Supplied with mobile plants.



"U" SHAPED BITUMEN TANK



BITUMEN TANK BURNER



\* INTERNAL WIRING WITH JUNCTION BOX & BITUMEN TANK WITH LIME FILLER + LDO TANK



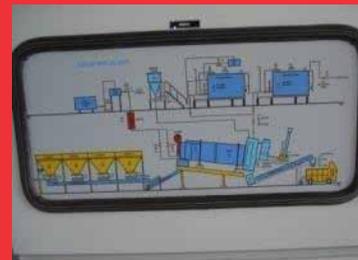
# CONTROL CABIN AND MICROPROCESSOR BASED PANEL

Fully computerized cabin with on board electric power console, distribution, switch board, fully automatic processes are a standard on ATLAS DM Series plants. User friendly software ensures top notch performance.

Display of the entire process control parameters.

Provision to store, edit production details, mix proportions, etc is possible.

Panel enables the plant to run in Auto & manual mode.



FAULT INDICATION SYSTEM



MICROPROCESSOR BASED PANEL BOARD



# PLC PANEL

PLC panel is compact compared to the microprocessor based panel. The PLC panel is also very low on maintenance.

Programming can be customized which is not possible on Microprocessor based panel. Programming can be changed from the manufacturers end as per customers requirement and can be easily incorporated by the client at his site.

\*\*\* - Optional.



\*\*\* TOUCH SCREEN DISPLAY



PLC PANEL BOARD



# POLLUTION CONTROL

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.

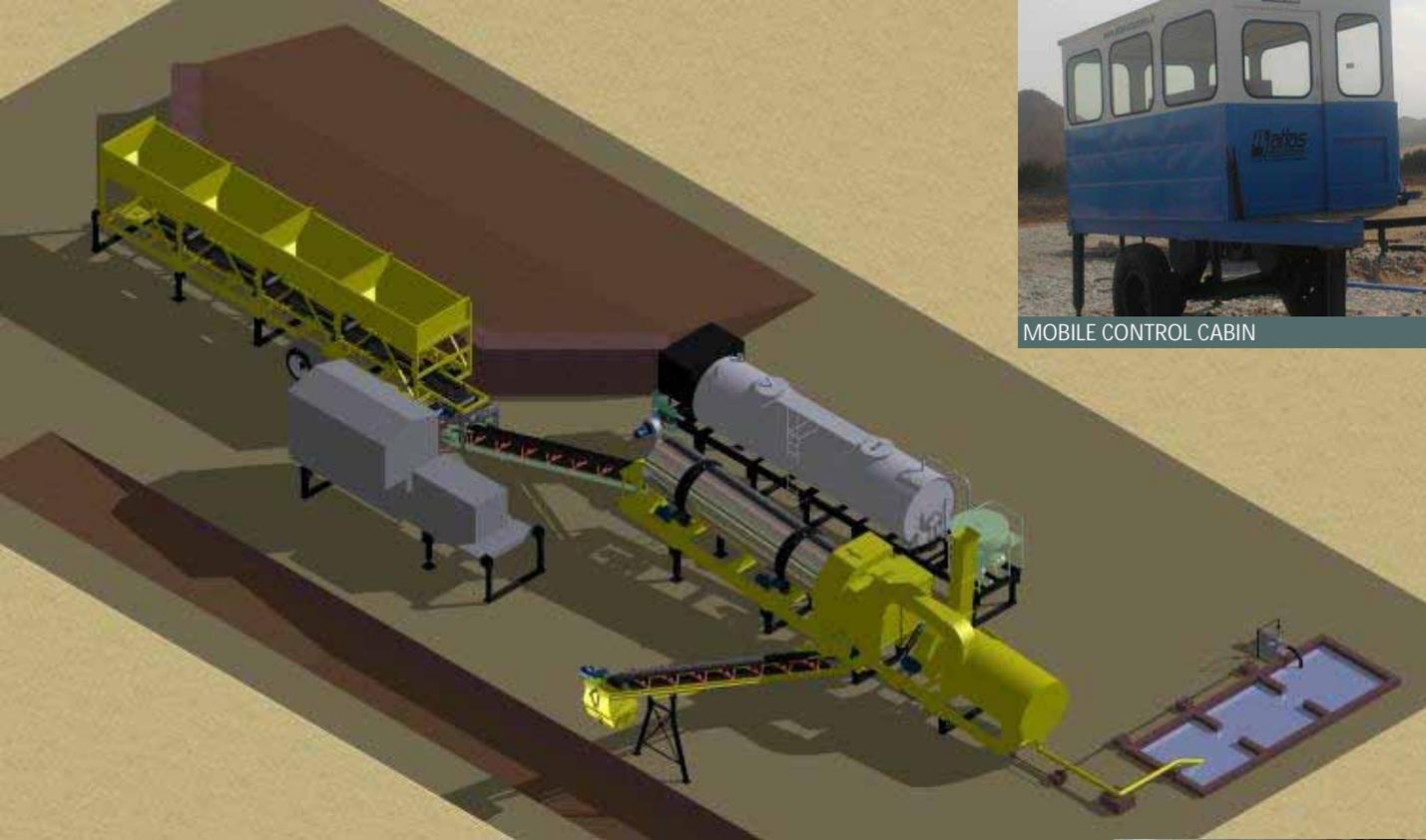
Large size stainless steel nozzles provide clog free operation to ensure optimum cleaning efficiency.

- - Supplied with mobile plants.  
Bag house filter can be supplied instead of wet dust collector for more pollution control efficiency.



WET DUST COLLECTOR POLLUTION CONTROL UNIT WITH CHIMNEY

\* VENTURI WITH DRYER



MOBILE CONTROL CABIN



MOBILE AGGREGATE FEEDER



DRYER WITH WET DUST COLLECTOR

# MOBILE PLANT

A mobile is similar to stationary plant except for its layout.

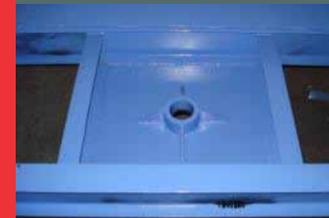
Mobile plant comes with-

- Aggregate feeder on a chassis with an axle
- Dryer drum with pollution control device on a double axle chassis.
- LDO + Bitumen tank + Lime filler on one chassis with single axles.
- Cabin with open space is a chassis with single axle.

Built on rugged structure, a mobile plant comes with pneumatic braking system and king pin attachment feature. The plant also comes with internal cabling and junction box on each chassis so that wiring is quick and simple.



AXLE WITH PNEUMATIC BRAKING



KING PIN



MOBILE BITUMEN TANK

# ATLAS INDUSTRIES

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