

## ASPHALT BATCH MIX PLANT HBM Series 80-240 TPH



WHERE TECHNOLOGY MOVES WITH TIME





"Our Asphalt Batch Mix Plant is a state-of-the-art solution designed to deliver high-quality asphalt with precision, efficiency, and reliability. Engineered for modern road construction, it ensures uniform mixing, excellent fuel efficiency, and low maintenance.

Key Highlights:

- Advanced technology for consistent mix quality
- Fully automated control system for ease of operation
- Robust design with long-lasting components
- Environment-friendly with efficient dust collection system
- Available in various capacities to suit project needs

Perfect for contractors and infrastructure developers, our batch mix plants are built to meet international standards and ensure smooth performance for highways, airports, and large-scale road projects.

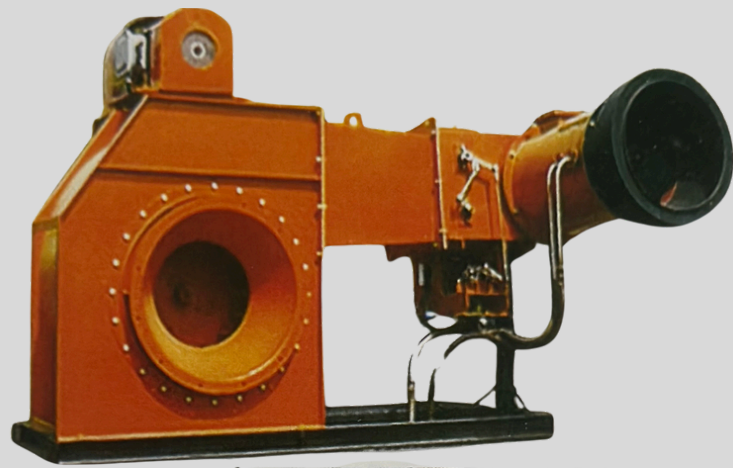
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## AGGREGATES DRYER WITH BURNER

The dryer drum, with a series of flights inside, which have the function of lifting the virgin material and heating it through contact with the hot gas produced by a modulating type burner with maximum fuel combustion efficiency. A burner is mounted at the discharge end of the drum for higher heating efficiency by counter flow heating

The heat of the flame inside the dryer is conveyed to the aggregates via thermal radiation, by conduction & convection due to close thorough contact of aggregates with hot gases produced by burning of fuel.

It is natural that combustion exhaust gases, fine dust and water vapor are produced inside the dryer, and these are then passed through a bag filter via primary dust collectors before being released into the atmosphere.



## THE BAG FILTER

Due to increasingly restrictive limits  $150\text{mg/Nm}^3$  for atmospheric emissions, together with new technologies for greater filter efficiency, problems related to environmental impact have now been greatly simplified.

Filler materials collected in the bottom hopper of RA type

bag-filter with a number of fabric filter bags, then conveyed by a screw conveyor and bucket elevator into a surge hopper, ready to be weighed and re-fed into the mixer in the correct quantity.

The filler plays a fundamental role in regulating the asphalt adhesion and improving the bitumen binding to the aggregates.

So, bag filter with proper filtering efficiency play major role in asphalt batch plant.



## BATCH TOWER

Fully enclosed inclined linear vibrating screen with high quality vibrating screen cloths, contribute to top notch performance. The inclined linear vibrating screen is provided with duplex spring absorbers, and is powered with two numbers of six-pole maintenance free vibro motors. The free-floating design prevents any vibration from being transferred to the weighing scales. A wider platform with easy access eases the maintenance of the screen.

Highly reliable weighing system load cells and an easy calibration system makes the HBM series highly popular with site engineers and plant operators.

The 3D mixer unit is the heart of the HBM plants and has a large live zone, realizing a quick and even mixing of asphalt.

The mixer unit is hot oil jacketed and supplied with a low-maintenance oil-bath type chain drive. The paddles, arms and tips are made of wear resistant high nickel hardened cast alloy steel. The reversible design of the paddle tips ensures a lower operating cost.

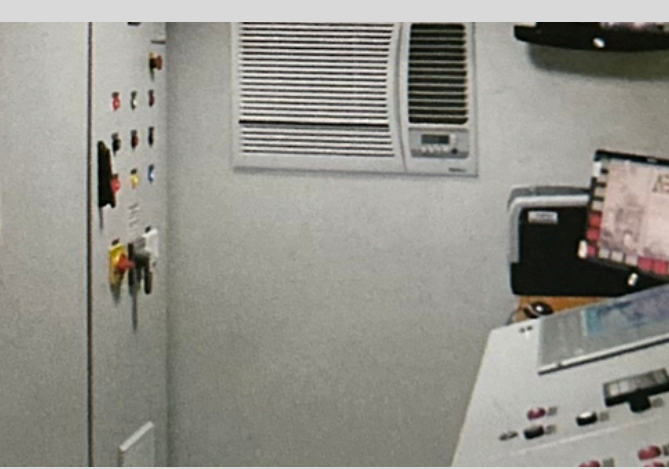
## COLD AGGREGATE BIN FEEDERS



25 Years of experience in this industry units means design expertise or top performance even under the toughest of operating conditions. The Bins are all-welded and modular in construction, permitting easy addition of bins to meet growing needs. Steep bin walls and valley angles allow free flow of aggregates from the feeders minimizing hold-up of materials in the corners and bridging with sticky aggregates.

The bins supplied with adjustable calibrated gate openings and variable speed feeder drives together offer a total proportional control, greater flexibility and accuracy of operations.





## CONTROL SYSTEM

Fully computerized air-conditioned control cabin with onboard electrical power control console, distribution switch board, fully automatic process and sequence control are a standard on all HBM series plants.

User-friendly software on the computer with a parallel PLC main machine interface gives you total reliability and ensures top notch performance.

- Automatic free fall compensation
- Fail proof power interlocks and process controls
- Automatic cold aggregate feeder controls linked with mix design and hot bin levels

The control is equipped with function keys and numeric keys, and does not require skills for operation.

The operator can monitor the complete process control, motor status and pneumatic controls through the color CRT display.

SCADA features:

- Docket printing and inventory management
- Provisions to print, store and email production details, mix properties, etc.
- Online fault detection with remote connectivity and solution

## HOT MIX STORAGE SILO

Himalaya offers a complete range of Hot mix storage solution 51 to 80 t, to meet plant requirements. Hot mix storage silos can be offered with options to store different types of mix designs to meet varied site demands.

All HBM series are supplied with state of the art fully automatic controls together with automated safety and un - interrupted productivity. By opting for a hot mix silo customers gain large benefits. achieve increase efficiencies through longer continuous production runs. Fuel savings - thanks to the uninterrupted and constant dryer drum burner operations. Helps cater to clients with different mix design requirements. Reduce the number of transporting trucks.

## THERMIC OIL HEATER

The HBM series plants are supplied with hot oil jacketing on bitumen pipe line, asphalt pumps, bitumen weigh hopper section and Pug mill body; Opting for hot oil heating reduces asphalt pump binding, asphalt pipe line blocking, smoother bitumen weigh batcher and pug mill operations.

The Thermic oil heater is supplied with independent automatic control panel including oil temperature indicator controller, low level switch, low circulation pressure switch over temperature cut of thermostat burner operating circuits. Capacity range up to 500 000 kcal/hr

## **BITUMEN HEATING AND STORAGE SOLLUTION**

The indirect heating tanks are supplied with a high efficient thermic oil heater. All tanks are supplied with auto thermostatic controls and level indicators.



## **FEELER FEEDING AND STORAGE SOLLUTION**

Himalaya offers a wide range (4-40 Tons) of foreign fier storage solutions. The filler from the silo is transported into the filler elevator on the batching tower, which then is weighed and mixed in the pug mill unit.

The filler silos can optionally be supplied with filler feeding bucket elevator to suit bagged filler feeding. As a option the filler silos are supplied with level indicators and process interlocks.



# TECHNICAL SPECIFICATIONS

Specification	HBM 1000	HBM 1200	HBM 1500	HBM 2000	HBM 2500
Cap.@3%moistu	80 tph	100 tph	128 tph	160 tph	200 tph
No. Feeders /Cap	4 / 25 m³	4 / 31.25 m³	4 / 37.5 m³	4 / 43.75 m³	5 / 46.50 m³
Charging Conveyor	100 tph	120 tph	140 tph	180 tph	220 tph
Drum (Dia. x L)	1.8 m x 7 m	1.8 m x 7 m	2.1 m x 8 m	2.1 m x 8 m	2.3 m x 9 m
Drive Type	Saddle type chain drive			Four wheeled Friction drive	
Burner Capacity	6.5 MW	9 MW	11.8 MW	13.6 MW	17.3 MW
Fuel	Diesel	Diesel	Diesel	Diesel	Diesel
Primary Pollution	Centrifugal Double Cyclone (1.4 m x 3 m)				
Secondary Pollution	Wet Dust Type/Bag House Filter				
Filtering Area	285 m²	325 m²	390 m²	435 m²	590 m²
Hot elevator	100 tph	120 tph	140 tph	180 tph	220 tph
Screening Unit	Four deck vibrating				
Screening	100 tph	120 tph	140 tph	180 tph	220 tph
Aggregates Bin	1000 kgs	1250 kgs	1500 kgs	2000 kgs	2500 kgs
Filler Bin Cap.	200 kgs	200 kgs	300 kgs	300 kgs	400 kgs
Bitumen Bin	150 kgs	150 kgs	225 kgs	225 kgs	300 kgs
Filler Feeding System Capacity	14 tph	14 tph	21 tph	21 tph	21 tph
Filler Storage Bin Capacity	0.4 m³	0.4 m³	0.6 m³	0.6 m³	0.6 m³
Asphalt Feeding Pump Capacity	240 lpm	240 lpm	450 lpm	450 lpm	450 lpm
Asphalt Spray Pump Capacity	460 lpm	460 lpm	800 lpm	1000 lpm	1000 lpm
Mixing Unit	Twin shaft hot oil jacketed pugmill unit				
Mixing Unit	1000 kg / batch*	1250 kg / batch*	1600 kg / batch*	2000 kg / batch*	2500 kg /
Cycle Time	45 Secs.	45 Secs.	45 Secs.	45 Secs.	45 Secs.
Control Panel	Fully computerized with manual over-ride				



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