



INNOVATIVE

ROAD & CIVIL CONSTRUCTION

EQUIPMENT BACKED BY
EXPERIENCE AND TRUST



Asphalt
Batch Mix Plant
HBM Series
80-240 TPH



Bag Filter System >>



To meet stringent dust emission norms of 150 mg/Nm³, an advanced bag filter system is provided for high filtration efficiency and reduced environmental impact.

The fabric-type bag filter collects dust and filler material in a bottom hopper, which is then conveyed via screw conveyor and bucket elevator to a surge hopper. The material is accurately weighed and re-fed into the mixer in the required quantity.

Filler material is essential for controlling asphalt gradation and improving bitumen–aggregate bonding. Hence, an efficient bag filter system plays a vital role in ensuring consistent mix quality and environmentally compliant operation of the Asphalt Batch Mix Plant.

Burner >>

The asphalt batch mix plant burner delivers consistent, high-efficiency heat for uniform aggregate drying and optimal fuel usage. Designed for reliability and precise temperature control, it ensures smooth plant operation and superior asphalt quality.



Cold Aggregate Feeding Bins >>

With 29 years of industry experience, the feeding bins are engineered for proven design expertise and reliable performance, even under the toughest operating conditions. The bins feature a fully welded, modular construction, allowing easy addition of bins as production requirements increase.

Steep bin walls and optimized valley angles ensure smooth and uninterrupted aggregate flow, minimizing material hold-up and preventing bridging, even with sticky aggregates. Adjustable calibrated gate openings combined with variable-speed feeder drives provide precise proportional control, operational flexibility, and accurate aggregate feeding.



Control Cabin & Automation System >>



All HBM series plants are provided with a fully computerized, air-conditioned control cabin featuring an onboard electrical power control console and distribution switchboard. Fully automatic process and sequence control comes as a standard offering. User-friendly software integrated with a PLC-based main machine interface ensures high reliability and consistent top-level performance.

SCADA Features:

- ✦ Docket printing and inventory management.
- ✦ Printing, storage, and email of production and mix data.
- ✦ Online fault detection with remote connectivity and support.

Key Features:

- ✦ Automatic free-fall compensation.
- ✦ Fail-safe power interlocks and process controls.
- ✦ Automatic cold aggregate feeder control linked with mix design and hot bin levels.
- ✦ The control system is equipped with function and numeric keys, making operation simple without specialized skills.
- ✦ Operators can monitor complete process control, motor status, and pneumatic functions through a color display.

Aggregate Dryer >>

The aggregate dryer consists of a rotating drum fitted with specially designed internal flights that lift and shower the virgin aggregates through the hot gases generated by a high-efficiency modulating burner. This ensures uniform heating with optimum fuel consumption.

The burner is mounted at the discharge end of the drum, enabling counter-flow heating for higher thermal efficiency. Heat transfer to the aggregates takes place through radiation, conduction, and convection, ensuring thorough and consistent drying.



During the drying process, combustion exhaust gases, fine dust, and water vapour are generated. These gases are routed through primary dust collectors and a bag filter system before being safely released into the atmosphere, ensuring environmentally compliant operation.

Batch Tower >>



The batch tower is equipped with a fully enclosed inclined liner vibrating screen fitted with high-quality screen meshes to ensure efficient and reliable screening performance. The screen is supported on a duplex spring system and driven by two six-pole, maintenance-free vibratory motors, providing smooth and consistent operation.

A free-floating screen design prevents vibration transfer to the weighing scales, ensuring accurate measurement. The wider platform allows easy access for inspection and maintenance. Combined with a highly reliable load-cell based weighing system and an easy calibration process, the HBM series batch tower is widely preferred by site engineers and plant operators.

Bitumen Heating & Storage Solution >>



The indirect heating bitumen tanks are supplied with a high-efficiency thermic oil heater to ensure uniform and safe heating. All tanks are equipped with automatic thermostatic controls and level indicators, providing precise temperature control and reliable operation.

Thermic Oil Heating System >>

HBM series plants are equipped with hot oil jacketing for the bitumen pipeline, asphalt pumps, bitumen weigh hopper, and pug mill body. This system minimizes asphalt pump jamming, prevents pipeline blockages, and ensures smooth operation of the bitumen weigh batcher and pug mill. The thermic oil heater is supplied with an independent automatic control panel, including oil temperature indication and control, low oil level switch, low circulation pressure switch, over-temperature cut-off thermostat, and burner control circuits. The system is available in capacities of up to 500,000 kcal/hr.



Batch Mix RAP System >>

The Batch Mix RAP System is designed for efficient handling, controlled heating, and precise dosing of Reclaimed Asphalt Pavement (RAP) in batch type asphalt plants. The system enables up to 25–30% RAP utilization while maintaining consistent asphalt mix quality. Its robust design ensures reliable performance and long service life.

Key Features:

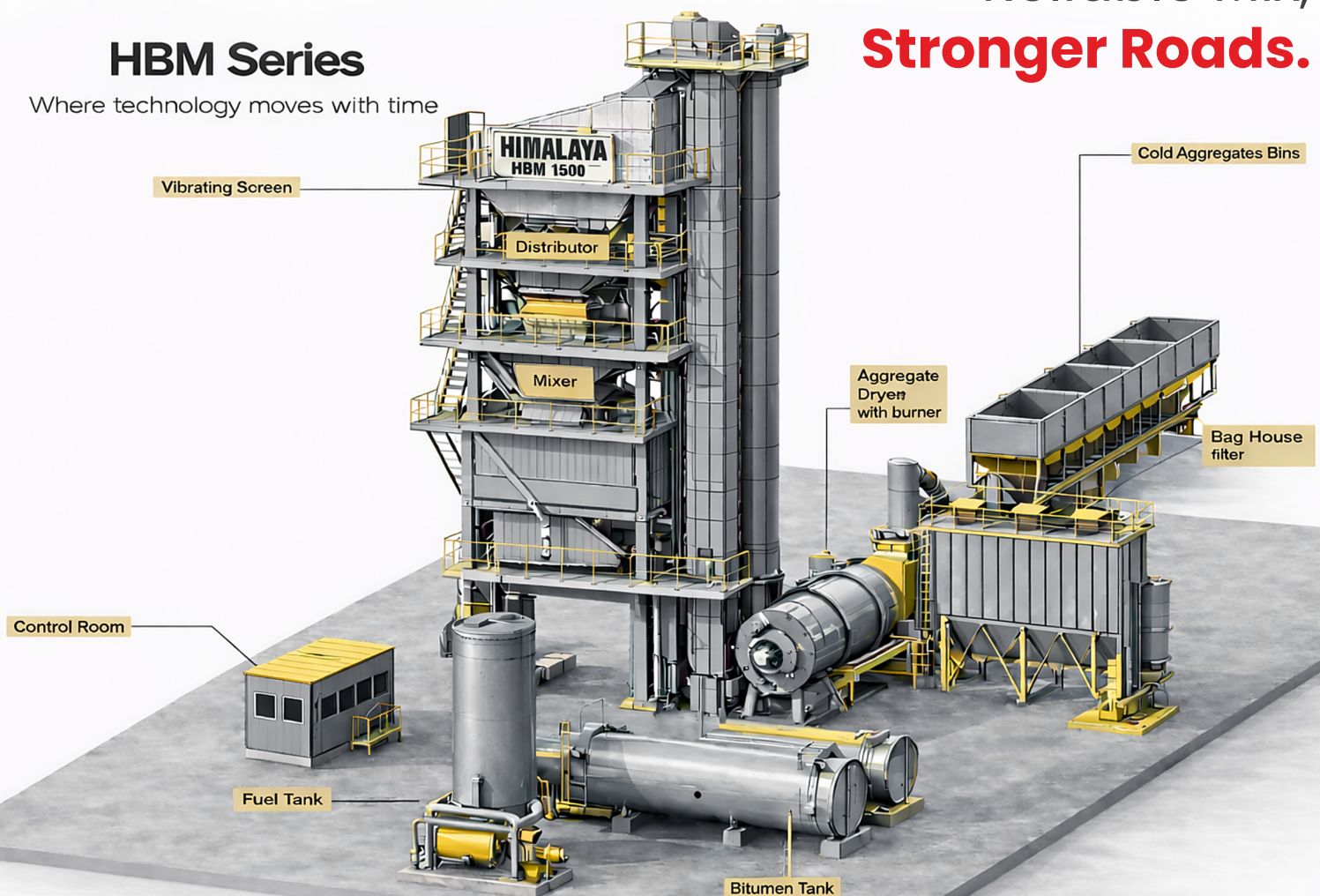
- ✦ RAP Feeding Hopper
- ✦ RAP Conveyor System
- ✦ RAP Bucket Elevator
- ✦ RAP Weighing Hopper with Load Cells
- ✦ PLC-Based Control Panel
- ✦ Discharge Chute & Mixer Integration Unit



HBM Series

Where technology moves with time

Reliable Mix,
Stronger Roads.



Technical Specification >>

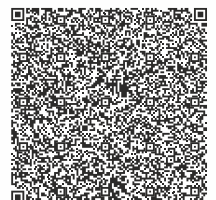
Specification	HBM 1000	HBM 1200	HBM 1500	HBM 2000	HBM 2500	HBM 3000
Plant capacity @ 3% moisture content	80 tph	100 tph	120 tph	160 tph	200 tph	240 tph
Cold Feed Bins – No. of Feeders / Total Cap	4/25 m ³	4/31.25 m ³	4/37.5 m ³	4/43.75 m ³	5/46.5 m ³	5/55.8 m ³
Charging Conveyor Capacity	100 tph	120 tph	140 tph	180 tph	220 tph	260 tph
Dryer Drum – Diameter Length	1.5m x 6m	1.5m x 6m	1.8m x 7m	1.8m x 7m	2m x 8m	2.1 x 8m
Dryer Drive Type	Saddle type chain drives			Four wheeled friction drive		
Burner Capacity	6.5 MW	9 MW	11.8 MW	13.6 MW	17.3 MW	18 MW
Burner Type	High pressure, fully automatic, modulating					
Fuel	Diesel /LDO/ Furnace Oil	Diesel /LDO/ Furnace Oil	Diesel /LDO/ Furnace Oil	Diesel /LDO/ Furnace Oil	Diesel /LDO/ Furnace Oil	Diesel /LDO/ Furnace Oil
Pollution Control Unit – Primary	Centrifugal Double Cyclone (1.4m x 3m)					
Pollution Control Unit – Secondary	Wet Dust Type / Bag House Filter					
Bag House Filter Type	Reverse air flow type with emission level 150mg / Nm ³					
Filtering Area	285 m ²	325 m ²	390 m ²	435 m ²	590 m ²	880 m ²
Hot Elevator Capacity	100 tph	120 tph	140 tph	180 tph	220 tph	260 tph
Screening Unit Type	Four deck vibrating			Up to 6 Deck		
Screening Unit Capacity	100 tph	120 tph	140 tph	180 tph	220 tph	260 tph
Hot Aggregates Bin – No. of Bins	4	4	4	4	5	5
Aggregates Weigh Bin Capacity	1250 kgs	1250 kgs	2000 kgs	2000 kgs	2500 kgs	3300 kgs
Filler Weigh Bin Capacity	200 kgs	200 kgs	300 kgs	300 kgs	400 kgs	500 kgs
Bitumen Weigh Bin Capacity	150 kgs	150 kgs	225 kgs	225 kgs	300 kgs	600 kgs
Filler Feeding System – Elevator Capacity	14 tph	14 tph	21 tph	21 tph	21 tph	21 tph
Filler Storage Bin Capacity	0.4 m ³	0.4 m ³	0.6 m ³	0.6 m ³	0.6 m ³	0.6 m ³
Asphalt Feeding Pump Capacity	240 lpm	240 lpm	450 lpm	450 lpm	450 lpm	600 lpm
Asphalt Spray Pump Capacity	460 lpm	460 lpm	800 lpm	1000 lpm	1000 lpm	1250 lpm
Mixing Unit Type	Twin shaft hot oil jacketed pugmill unit					
Mixing Capacity	1000 kg/ batch*	1250 kg/ batch*	1600 kg/ batch*	2000 kg/ batch*	2500 kg/ batch*	3300 kg/ batch*
Cycle Time	45 Secs	45 Secs	45 Secs	45 Secs	45 Secs	45 Secs
Control Panel Type	Fully computerized with manual over-ride					

Accessory	Specification
Filler Silo Capacity	4/10/15/25/40 tons
Bitumen Tanks Capacity	15/25/30/50 tons
Heating Type	Direct/Hot Oil heating type
Hot Oil Heater Type	Normal Pressure horizontal tubular boiler with oil fired burner
Hot Oil Heater Capacity	3/4/5 Lac Kcal/hr
Hot Mix Storage Silo Capacity	(25/50) / 25 * 2 / 80 tons

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