



# Asphalt Batch Mix Plant

**UNIBLACK** | Premium Series  
Capacity Range : **160 - 180 TPH**



**RUGGED | ROBUST | RELIABLE**

[www.alltech-group.com](http://www.alltech-group.com)





**Most  
Fuel Efficient**

**LOW MAINTENANCE**



**DON'T GET FRAMED  
BY COMPETITION  
JUST TRUST  
OUR SOLID DESIGN**

## RUGGED

BUILT TO LAST

Alltech asphalt plants are built to withstand the toughest conditions. Our rugged designs ensure that the equipment can handle the most challenging environments, providing consistent performance regardless of the circumstances.

## ROBUST

ENGINEERED FOR STRENGTH AND DURABILITY

Our asphalt plants are engineered with robustness in mind. This means that every component is designed for maximum strength and durability, ensuring long-term reliability and minimal maintenance requirements. Alltech's robust machinery supports the production of high-quality asphalt mixes that meet the rigorous demands of road construction projects.

## RELIABLE

SUPPORT YOU CAN COUNT ON

At Alltech, exceptional service is our cornerstone. We offer asphalt plants with unwavering support, including dedicated operation and maintenance teams and expert assistance with plant installation. Our advanced technology and precise manufacturing processes ensure outstanding results every time, making Alltech the trusted choice for road contractors.

Established in 2007, Alltech Industries India Pvt. Ltd. is a distinguished manufacturer of road and civil construction machinery. Since our founding, we have been dedicated to producing high-quality, reliable equipment designed to meet the exacting standards of our customers. Our commitment to innovation and meticulous attention to detail ensures that our machinery consistently performs well under demanding conditions.



**Customer-First Mind-Set**



**Quality and Attention to Detail**



**Innovative and Creative**



**Proactive about Problem-Solving**

### Our Mission:

**100% Customer Satisfaction**

Nation building by providing & developing new products for road Construction & maintenance.

### Our Vision:

**Building the Roads that Connect Us**

To be India's most prominent trusted brand for road construction & maintenance machinery



**Designed By Experience,  
Manufactured With Excellence.**



## UNIBLACK PREMIUM SERIES



**Models:**  
UNIBLACK2000  
UNIBLACK2250

**Production Capacity:**

160 TPH | 180 TPH

**Daily Output:**

Upto 2000 MT

**Reclaimed Asphalt Pavement (RAP) use:**

Upto 50% with RAC & RAH50

Productive. Performing. Profitable.

### Advanced Control Systems

Uniblack2000: Features HMI/SCADA technology for intuitive operation and precise control.

Uniblack2250: Equipped with Cybermix software, offering advanced automation and enhanced operational efficiency.

### Sustainable & Cost-Effective:

Utilizes up to 50% Reclaimed Asphalt Pavement (RAP) with RAC & RAH50 attachments, promoting environmental sustainability and significant cost savings.

### Flexible Fuel Options:

Liquid Fuels: Diesel, LDO, FO  
Gas Fuels: LPG, CNG  
Solid Fuels: Coal & Solid Fuels

### Optimized Aggregate Handling:

Includes up to five aggregate feeders, four to five screens, and extensive hot bin storage, ensuring effective management of materials and superior performance.

### Engineered for Major Projects:

Ideal for National Highway Authority of India (NHAI) & (NHIDCL) projects and large-scale infrastructure developments, delivering reliability and high-quality output.

## PRIVILEGE TO WORK WITH



## EXPLORE OUR VERSATILE PLANT RANGE

Adaptable Design for Diverse Project Needs.



Innovation in Motion, Durability in Every Mix







CHATTISGARH



DELHI-NCR



MAHARASHTRA



KERALA



MADHYA PRADESH



SAUDI ARABIA



HARYANA



GUJARAT



ASSAM



BIHAR



RAJASTHAN



UTTAR PRADESH



## UNIBLACK Series

A Product of Experience, A Product of Excellence

### Multi-Deck Vibrating Screen

- Wider screening area with dual high-capacity motors for increased productivity.
- Easy mesh replacement design and high-stiffness springs for accurate weighing.

### Hot Aggregate Bins

- Zero-maintenance radial discharge gates with capacitance level switches to prevent overflow.

### Weighing Section

- Larger weigh-bin suspended on load cells for accuracy.
- Hot-oil jacketed bitumen weigh hopper maintains temperature.

### Mixing Unit

- Mixing paddles made from abrasion-resistant Ni-Hard steel.
- Direct shaft-mounted gear motors with leak-proof discharge gate.

### Hot Aggregate Silo\*

### RAC Hopper with Elevator\*

### Central Control Cabin

- Advanced automation system for manual/automatic control.
- Remote access for support, real-time monitoring of plant status and parameters.
- Simple graphics and one-click control for ease of operation.

### Fuel Tank

### Thermic Heater

### Overhead Winch

### RAC Elevator

### Hot Elevator

- Heavy-duty chain with a teetted top wheel mounted on an EN-19 shaft to prevent slippage.
- Efficient gear motor with back-stop control.

### Duplex Filler Silo\*

### UNIFLAME Modulating Burner

### Cold Aggregates Bins

- Modular design for easy bin addition
- Electrical control drives for auxiliary feeders
- Motor vibrator to prevent dust buildup
- Standard conveyor belts with specified Ply X grades
- Wide collecting belt and single deck scalping screen for efficient aggregate handling
- High-speed conveyor for moving aggregates to the dryer
- Dust-free bushings on all rollers

### Pollution Control Bag House

- Pre-separator collects coarse dust; bag filter captures finer dust with high filtration efficiency.
- Features include a VFD motor for energy efficiency and an emergency cold air injection valve for safety.

### Dryer Drum

- Features a high-pressure modulating burner for fuel efficiency. (diesel/light diesel/furnace oil).
- Insulated drum reduces heat loss; specially designed lifting flights ensure optimal heat transfer.
- Durable trunnion rings and rollers for longevity.

### Bitumen Tank\* (Direct / Indirect Heating System)



## UNIBLACK Optional Accessories

### BITUMEN STORAGE & HEATING SYSTEM:



**BITUMEN TANKS**  
30, 50 MT Capacities.

**PMB & CRMB STORAGE TANKS**  
30, 50 MT Capacities,  
with Agitators.

- **Customizable Insulated Tanks:** We offer indirect and direct heated bitumen tanks, fully insulated and cladded, tailored to meet specific customer requirements.
- **Advanced Heating System:** Our system includes a 4 lakh kcal/hr thermic fluid heater with a burner, hot-oil pump, and safety valves for efficient and safe heating.
- **Efficient Bitumen Pumping:** A heavy-duty 3" diameter positive displacement bitumen gear pump, mounted on a skid, ensures reliable and efficient bitumen circulation.
- **Protective Filtration Mechanism:** An integrated bitumen filter protects the pump from metal contaminants, enhancing durability and performance.

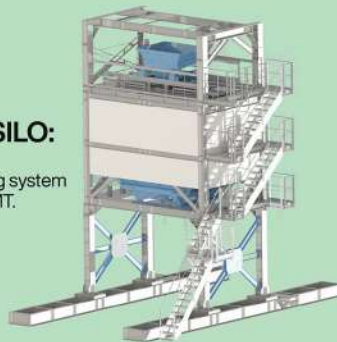
### FOREIGN FILLER SILO:

- Capacities: 7, 10, 15 & 20 M<sup>3</sup>.
- Includes specially designed screw conveyor for efficient handling.



### HOT-MIX STORAGE SILO:

- Continuous oil-heating system
- Capacities: 40, & 80 MT.



## UNIBLACK Smart Retrofitting

### RAP SYSTEM

**RAP (Reclaimed Asphalt Pavement):** Mix of old asphalt binder and aggregates, often comparable to virgin materials. Milled, crushed, and screened for reuse in new asphalt.

### RAC (RECLAIMED ASPHALT PAVEMENT - COLD ADDITION) SYSTEM:

- Allows up to 30% cold RAP material.
- Features a mixer feed dosing system with a RAP elevator also steam evacuation system.
- Efficient, space-saving, and maintenance-free alternative to conveyors.

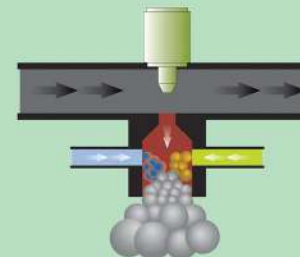


### RAH DRUM (RECLAIMED ASPHALT PAVEMENT - HOT ADDITION) + FEEDING SYSTEM:

- Allows up to 15 to 20% hot RAP material.
- Uses a dryer RAP ring for gentle heating and quality preservation.

### FIBER DOSING SYSTEM:

- Advanced Fiber Dosing System for asphalt batch mix plants.
- Ensures precise and consistent fiber addition.
- Supports fibers like cellulose, glass, or synthetic materials.
- Enhances asphalt performance and durability.



### UNIFOAM SYSTEM (WARM MIX TECHNOLOGY):

- Lowers mix preparation and placement temperatures.
- Maintains low viscosity of liquid bitumen at reduced temperatures.
- Uses steam bubbles from water injection to reduce bitumen viscosity.

## UNIBLACK Cost Savings Options

Our innovative products, including the Coal Fire Burner and the Organic (Solid Fuel) Fire Thermic Fluid Heater, are designed to reduce costs, increase fuel flexibility, and minimize environmental impact. With a focus on quality, reliability, and customer satisfaction, we strive to be the leading provider of cost-saving attachments for the asphalt industry.

### ORGANIC (SOLID FUEL) FIRE THERMIC FLUID HEATER:

- **Fully Packaged Design:** Our system is designed for complete installation without requiring any site work.

- **Cycloidal Air Injection:** This innovative feature enhances residence time, minimizes excess air, and significantly reduces incomplete combustion losses.

- **High-Efficiency Design:** The system includes two concentric coils that create three flue passes, delivering exceptional efficiency.

- **Cost-Effective Erection:** Our design achieves a substantial reduction in erection costs, with a 50% decrease in the footprint area.

- **Minimized Radiation Losses:** The system's design leads to less exposed surface area, resulting in a 60% reduction in refractory costs (including both materials and labor).

- **Minimized Radiation Losses:** The thermic fluid circulating pump integrated into our system is a modern air-cooled type, eliminating the need for water cooling. It features a mechanical seal for maintenance-free operation and ensures zero leakage of thermic fluid.



SAVE  
UP TO **50% ON FUEL**



### COAL-FIRED BURNER & PULVERIZING PLANT:

- Delivers up to 50% savings, making it a cost-effective upgrade for asphalt plants.
- Ensures seamless switch from liquid fuel to coal with an on-rail platform.
- Enhances combustion, reduces costs, and increases fuel flexibility.
- Robust design minimizes upkeep, offering a sustainable, long-term solution.

## TECHNICAL SPECIFICATIONS:

### PLANT CAPACITY AND PERFORMANCE

Plant Model	UNIBLACK 2000	UNIBLACK 2250
Plant Cap. @ 3% Moisture Content (t/h)	160	180
Batch Size (KG)	2000	2250
Cycle Time (sec)	45	45

### FEEDING AND DRYING SYSTEM

Cold Feed Bins	No. of Bins	4/5	
	Capacity (M <sup>3</sup> )	8.5	12
Charging Conveyor	Capacity	180	200
Dryer Drum	Model (L x D in m)	8 X 2	8.5 X 2
	Drive Type	4W Friction Drive	
UNIFLAME Modulating Burner	Type	Modulating Multi Fuel	
Coal Fired Burner (Optional)	Fuel Options	Liquid Fuels: LDO/FO/Diesel Liquid/Gas Fuel: LDO/FO/Diesel & LPG/PNG/CNG Solid Fuel: Coal	
	Capacity (MW/Hr.)	12	14

### TOWER UNIT

Hot Elevator	Max. Capacity	180	200
Screening Unit	Screening Method	Angular - Linear Vibration	
	No. of Deck	4/5	
	Screening Capacity (t/h)	180	200
Hot Aggregate Bin	No. of Bins	4/5	
	Aggregate Hopper Capacity (KG)	2300	3000
Weighing Unit (Max)	Filler Hopper Capacity (KG)	250	300
	Bitumen Hopper Capacity (KG)	250	300
Mixer Unit	Type	Twin Contra-Rotating Mixer	
	Batch Capacity	2000	2250
Pollution Control Bag House	Primary (Air Flow)	Cascade Type Pre-Separator	
	Secondary (Air Flow)	Bag-House Filter	
	Filter Area (M <sup>2</sup> )	380	490
Control Panel	Type	Fully Computerised with Manual Over Ride	

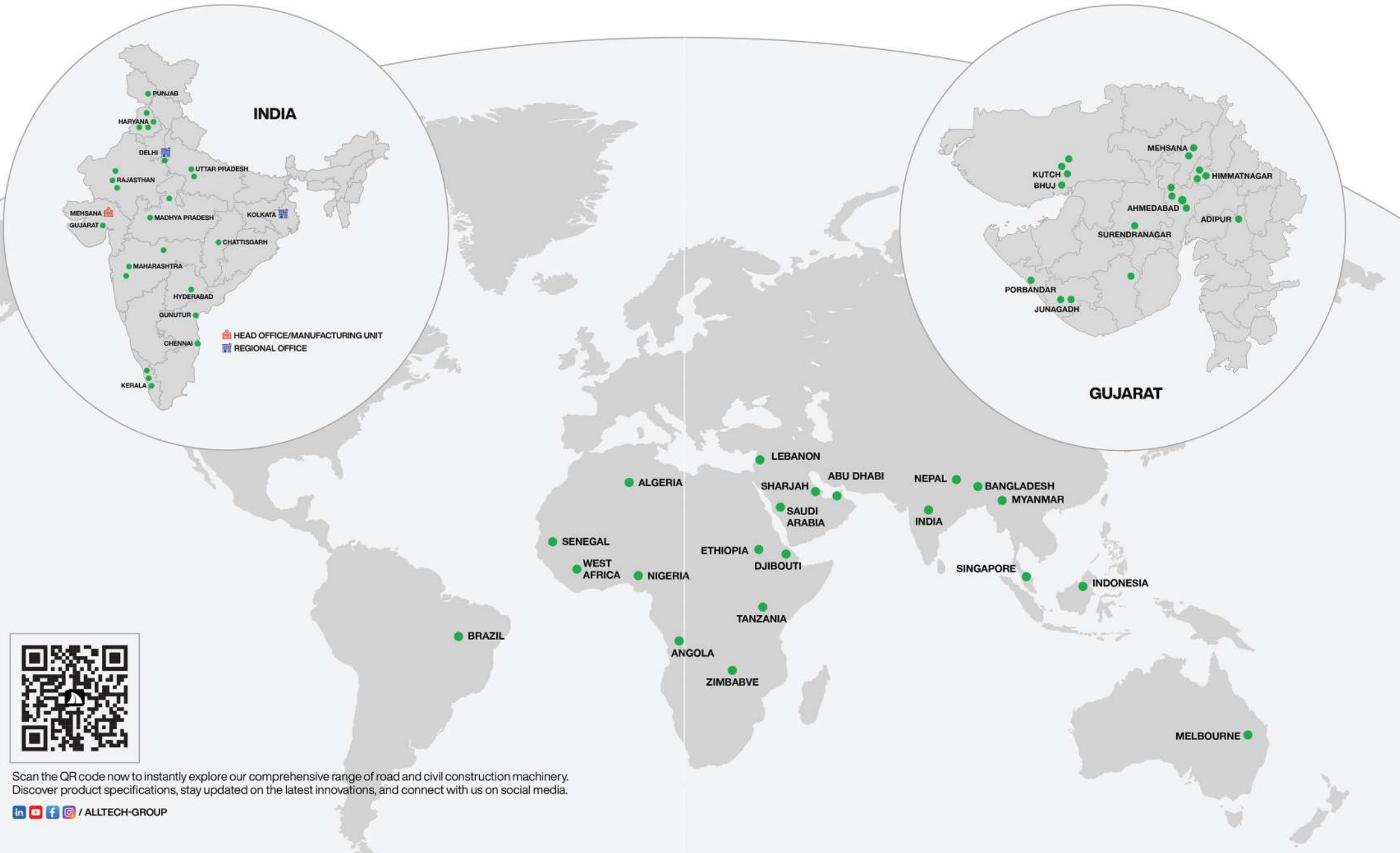
### OPTIONAL ACCESSORIES

Bitumen Tank	Capacity Range (MT)	30 & 50 (Cylindrical)   44 (Cuboidal for Export)	
	Type	Direct & Indirect	
Thermic Heater (Diesel Fired)	Capacity Range (Kcal/Hr)	400000   500000   600000   1000000	
Thermic Heater (Organic Fired)	Capacity Range (Kcal/Hr)	500000   600000   800000   1000000	
Filler Silos	Capacity Range (M <sup>3</sup> )	7   10   15   20	
Hot Mix Silo	Capacity Range (MT)	40   80   120	

As per Alltech's policy of continuous product upgrades, specifications are subject to change without prior notice. Output is based on standard ideal conditions.



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# Committed to Excellence Through Rugged, Robust & Reliable Solutions.



Asphalt Batch Mix Plant (80-320 TPH)



Counter Flow Drum Mix Plant (60-120 TPH)



Bitumen Drum Decanter (2-8 TPH)



Emulsion, CRMB, PMB Plants



Microsurfacing Machine



Bitumen Bag Decanter (4-6 TPH)



RDSO Steel Girders (Heavy Engineering)



## ALLTECH INDIA LIMITED

(Formerly known as Alltech Industries India Private Limited & Alltech India Private Limited)

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