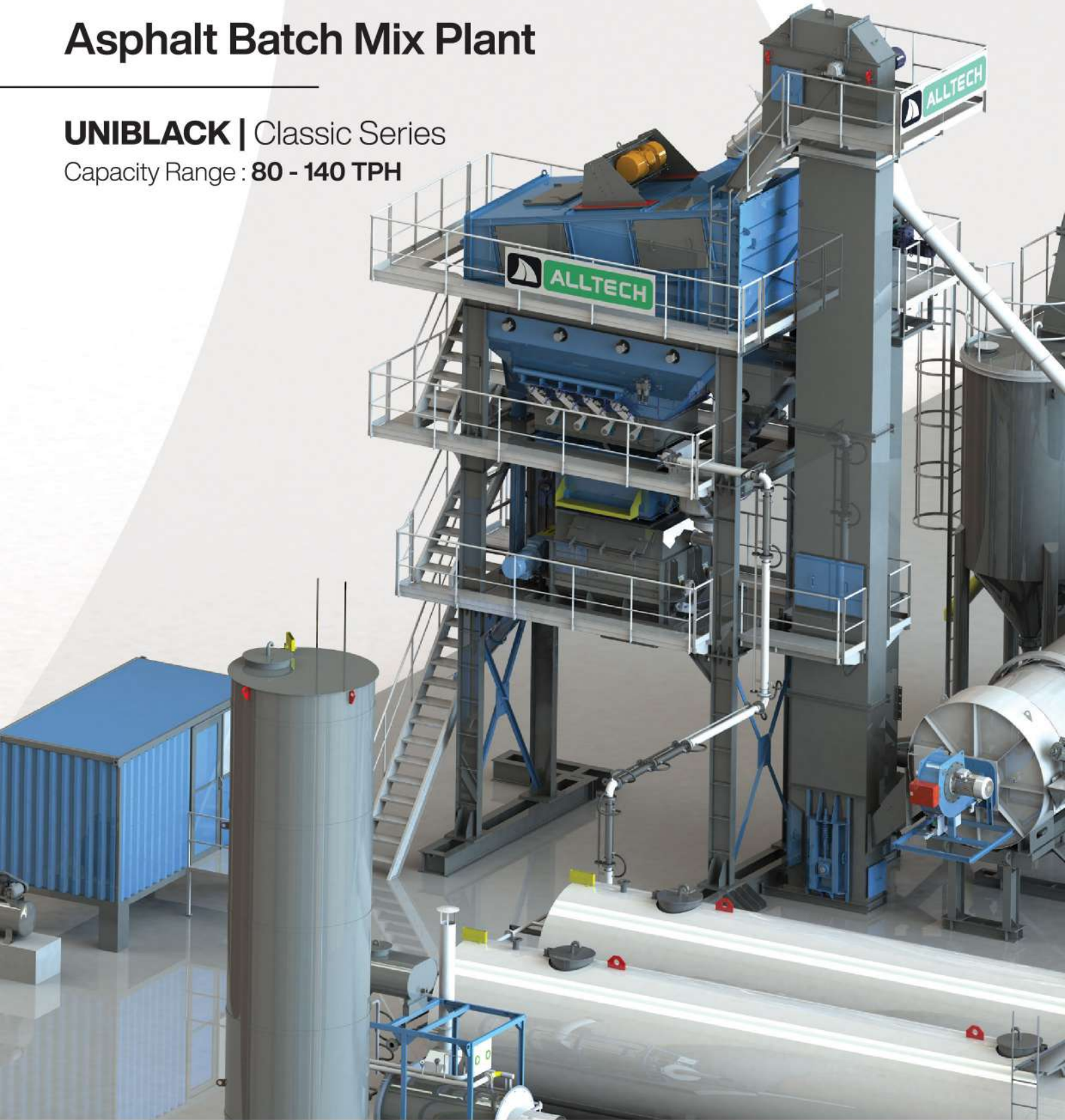




Asphalt Batch Mix Plant

UNIBLACK | Classic Series

Capacity Range : **80 - 140 TPH**



RUGGED | ROBUST | RELIABLE

www.alltech-group.com



Connecting Nation, Through Better Roads.

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.



**Most
Fuel Efficient**

LOW MAINTENANCE



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



Our Manufacturing Facility:

Located in Mehsana, Gujarat, spans over 75,000 square meters and serves as the heart of our operations. Our skilled engineers meticulously craft each product in-house, ensuring top-notch quality and performance. With rigorous testing and professional oversight, we guarantee the durability and reliability of our machinery, embodying excellence and innovation in every aspect.

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

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.

Our Core Values:

- Customer-First Mind-Set**
- Quality and Attention to Detail**
- Innovative and Creative**
- Proactive about Problem-Solving**



Modular Design with Precision Engineering.

UNIBLACK
CLASSIC SERIES



Variants

UNIBLACK1000 | UNIBLACK1250 | UNIBLACK1500 | UNIBLACK1750

Production Capacity:
80 TPH | 100 TPH | 120 TPH | 140 TPH

Daily Output:
800-1200 MT

Reclaimed Asphalt
Pavement use: Upto 25 to 30%

Excellence in Performance

The Classic Series exemplify engineering prowess, offering exceptional performance and efficiency with capacities from 80 to 140 tph. These plants are designed for precision and reliability. The Classic Series meets even the most demanding requirements with ease.

Flexible Fuel Options:

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

Versatile Applications:

Ideal for a wide range of infrastructure projects, including those undertaken by the Public Works Department, Border Roads Organization, National Highways and Infrastructure Development Corporation Limited, and Pradhan Mantri Gram Sadak Yojana, the Classic Series adheres to stringent quality standards, ensuring superior performance across diverse applications.

Coal: Optional retrofitting coal fire burner reduces fuel consumption by up to 50%.
Organic Solids: Cost-effective for melting bitumen, offering savings of up to 40-50% compared to diesel and LDO.



PRIVILEGE TO WORK WITH



EXPLORE OUR VERSATILE PLANT RANGE

Adaptable Design for Diverse Project Needs.



UNIROAD Mobile Asphalt Batch Mix Plant



Innovation in Motion, Durability in Every Mix

Counter Flow Drum Mix Plant



OMAN



GUJARAT



MAHARASHTRA



KERALA



ASSAM



BANGLADESH



WEST BENGAL



ANDHRA P.



BIHAR



TELANGANA



HIMACHAL P.



MADHYA PRADESH



UTTAR PRADESH



KARNATAKA



PUNJAB



RAJASTHAN

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.

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.

Hot Elevator

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

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.

Fuel Tank

Thermic Heater

UNIFLAME Modulating Burner

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.

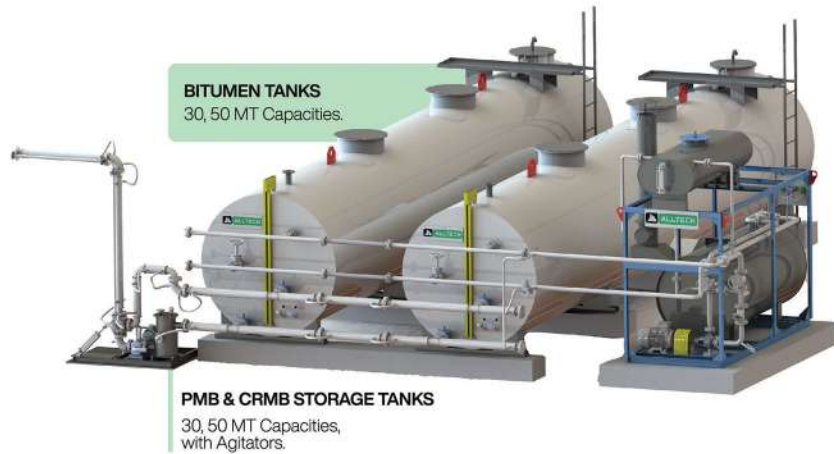
Bitumen Tank (Direct / Indirect Heating System)

UNIBLACK Series

A Product of Experience, A Product of Excellence

UNIBLACK Optional Accessories

BITUMEN STORAGE & HEATING SYSTEM:



- **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.

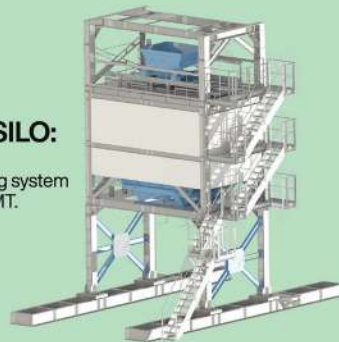
FOREIGN FILLER SILO:

- Capacities: 1, 7 & 10 M³.
- 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.

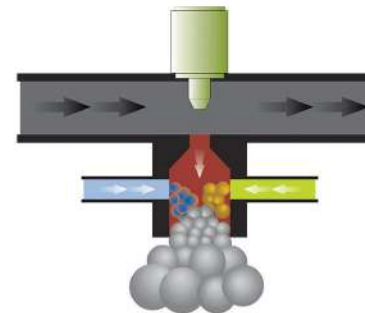
RAC (RECLAIMED ASPHALT PAVEMENT - COLD ADDITION) SYSTEM:

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



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 UPTO **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 1000 | UNIBLACK 1250 | UNIBLACK 1500 | UNIBLACK 1750 |
| Plant Cap. @ 3% Moisture Content (t/h) | 80 | 100 | 120 | 140 |
| Batch Size (KG) | 1000 | 1250 | 1500 | 1750 |
| Cycle Time (sec) | 45 | 45 | 45 | 45 |

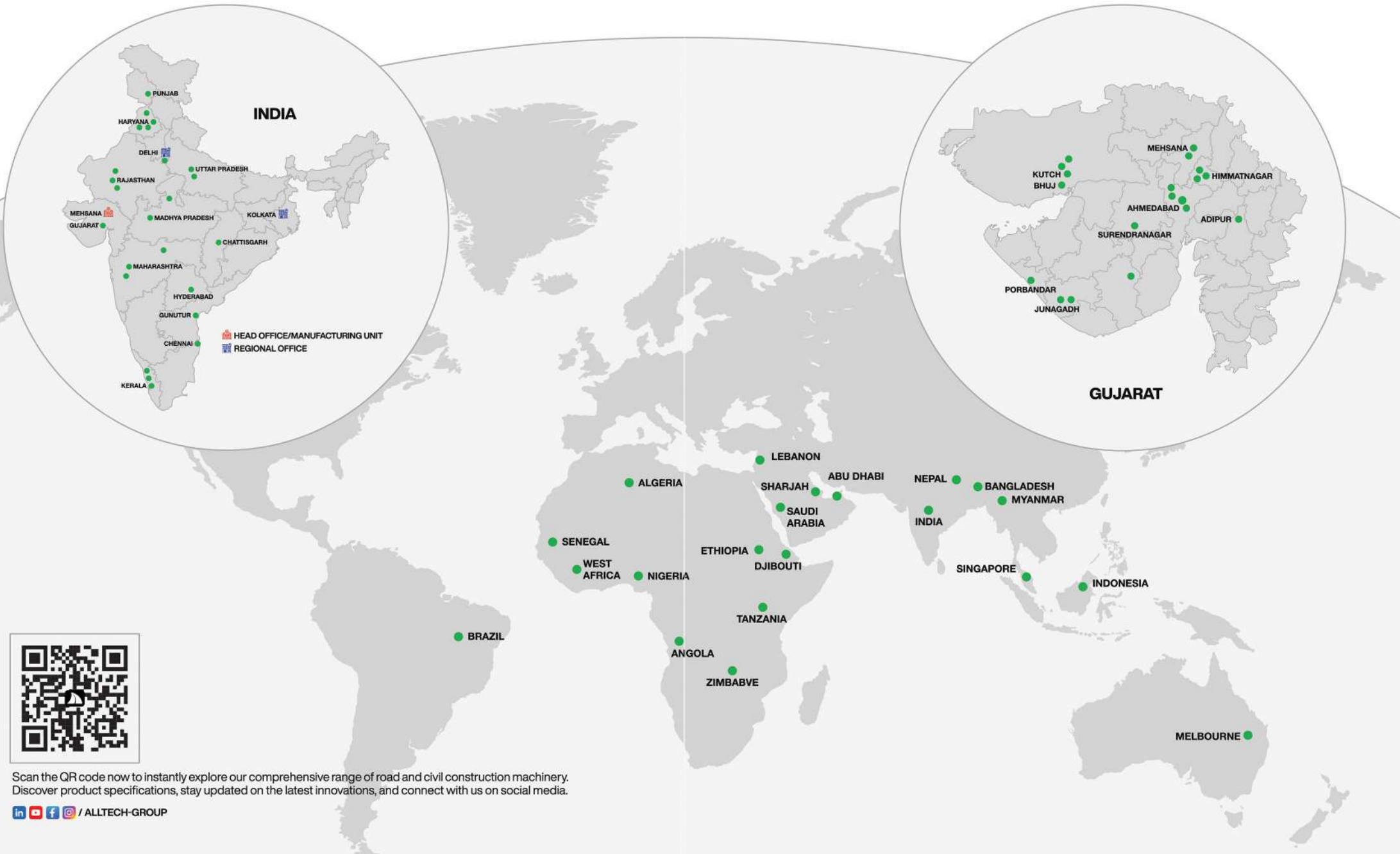
| FEEDING AND DRYING SYSTEM | | | | | |
|------------------------------|--------------------|--|-----------|-----------|-----------|
| Cold Feed Bins | No. of Bins | 4 | 4 | 4 | 4 |
| | Capacity (M³) | 7 | 7 | 7.5 | 7.5 |
| Charging Conveyor | Capacity | 100 | 120 | 140 | 160 |
| | Model (L x D in m) | 7.0 X 1.8 | 7.0 X 1.8 | 7.5 X 1.8 | 7.5 X 1.8 |
| Dryer Drum | Drive Type | 4W FRICTION DRIVE | | | |
| | Type | UNIFLAME, Modulating Multi Fuel | | | |
| UNIFLAME Modulating Burner | Fuel Options | Liquid/Gas Fuel: LDO/FO/Diesel & LPG/PNG/CNG, Solid Fuel: Coal | | | |
| Coal Fired Burner (Optional) | Capacity (MW/Hr) | 10 | 10 | 12 | 12 |

| TOWER UNIT | | | | | |
|-------------------|--------------------------------|---|------|------|------|
| Hot Elevator | Max. Capacity | 100 | 120 | 140 | 160 |
| | Screening Method | Two Decks, Inclined Circular Vibration Type | | | |
| Screening Unit | No. of Deck | 2 | 2 | 2 | 2 |
| | Screening Capacity (t/h) | 100 | 120 | 140 | 160 |
| Hot Aggregate Bin | No. of Bins | 4 | 4 | 4 | 4 |
| | Aggregate Hopper Capacity (KG) | 1500 | 1500 | 2000 | 2000 |
| Weighing Unit | Filler Hopper Capacity (KG) | 200 | 200 | 250 | 250 |
| | Bitumen Hopper Capacity (KG) | 200 | 200 | 250 | 250 |
| Mixer Unit | Type | Twin Contra-Rotating Mixer | | | |
| | Batch Capacity | 1000 | 1250 | 1500 | 1750 |

| | | | | |
|-----------------------------|----------------------|---|-----|-----|
| Pollution Control Bag House | Primary (Air Flow) | Cascade Type Pre-Separator (>75 Microns) | | |
| | Secondary (Air Flow) | Bag-House Filter | | |
| | Filter Area (M²) | 225 | 225 | 290 |
| Control Panel | Type | PLC Based, 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 (M³) | 1 7 10 | | |
| Hot Mix Silo | Capacity Range (MT) | 40 80 120 | | |

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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 Mix Decanter (2-8 TPH)



Emulsion, CRMB, PMB Plants



Microsurfacing Machine



Bitumen Bag Decanter (4-6 TPH)



RDSO Steel Girders (Heavy Engineering)



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Mfg. of Road & Civil Construction Equipment

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