



# Mobile Asphalt Batch Mix Plant

## UNIROAD

Capacity Range : 120 - 160 TPH



# RUGGED | ROBUST | RELIABLE

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



## About Us

Alltech Industries India Pvt. Ltd. is a trusted leader in road and civil construction machinery, consistently addressing the dynamic needs of infrastructure development since 2007. Located in Mehsana, the center of India's construction equipment industry, we focus on delivering dependable solutions tailored to support modern infrastructure projects with efficiency and precision.

With a clear vision for growth and innovation, Alltech combines technical expertise with a customer-first approach to meet global standards. Our expanding presence across international markets reflects our dedication to advancing infrastructure, offering solutions that are both reliable and sustainable for the future.



## Rugged, Robust, Reliable Engineered for Endurance

The UNIROAD Series Mobile Asphalt Batch Mix Plant is a reliable and durable solution for the challenges of road construction and maintenance. Built with robust construction and high-quality components, it is designed to perform seamlessly across varied terrains, including rugged and demanding conditions. The plant's intelligent design ensures consistent performance, reduces downtime, and simplifies maintenance with easily accessible components. Tested rigorously under extreme conditions, the UNIROAD Series guarantees long-lasting performance and dependable operation, making it a trusted choice for enduring and efficient project execution.



### Energy Saving

Smart dryer coupled with automatic fuel modulating burner technology in combination with variable frequency drive for bag house ensure frugal use of fuel for maximum heat conversion.



### On Board Hot Elevator

A fully equipped and pre-assembled hot elevator on the chassis, designed for effortless assembly and maintenance.



### Self-Erecting Tower

Rapid chassis elevation with our intelligent hydraulic lifting system, effortlessly lifting without the need for cranes or hydras.



### Recycling

RAP attachments helps you deliver high quality recycled hot mixes.



### Low Foundation Cost, Quick Setup

Uniroad is a strategic solution that minimises the cost of transferring & commissioning an asphalt plant, and maximises operational efficiency through effective setting up techniques. This helps you save massive amount of time, eliminates the need extensive civil works or cranes, and brings down your fitment time.



# | Key Mobility Units



## ■ Mobile Cold Bin Unit

- Road-towable cold aggregate storage solution.
- Direct-drive AC motor with VFD ensuring precise feed rate.
- Built-in collecting/dryer feed conveyor.
- Durable chassis enabling smooth shifting and quick setup.



## ■ Mobile Thermo Drum Unit

- Insulated drum equipped with a multi-fuel burner.
- Superior-grade steel construction ensuring long life.
- 4-wheel direct drive gear motor delivering reliable performance.
- Engineered to maximize RAP utilization.



## ■ Mobile Bag House Unit

- Pre-separator removing coarse particles effectively.
- Integrated chassis legs allowing foundation-free setup.
- Energy-efficient operations with Variable Frequency Drive.
- High-efficiency bag filters ensuring minimal dust emissions.



## ■ Mobile Batch Mix Tower

- Foldable hot stone elevator simplifying transport.
- Synchronized twin-shaft paddle mixer providing precision.
- Integrated hot bins with efficient screening system.
- Built-in hydraulic power pack enabling swift self-erection.

## Lift Effortlessly!

The UNIROAD incorporates a self-lifting system for its batch mix tower, powered by an in-built hydraulic lifting mechanism. This allows the tower to be raised within just **10 minutes**, significantly reducing setup time and enabling rapid mobilization for any project.



Step - 1



Step - 2



Step - 3



# UNIROAD

Asphalt Production On-Wheels

Upto  
**160 TPH**  
Capacity

Less than  
**10 Days**  
Erection &  
Commissioning Time

Upto  
**30%**  
Cold RAP Addition



## Mobility:

- Quick set-up and relocation capabilities make UNIROAD & ideal solution for faster road repairs.
- UNIROAD streamlines the process of Hot Mix and RAP transportation, offering a seamless plant relocation solution that significantly cuts down on material transportation costs.
- UNIROAD expedites the setup process by incorporating prewired modules, reducing installation time and translating into significant cost savings.



## Efficient Road Maintenance:

- Uniroad is a perfect solution for medium-scale construction projects; it is also the perfect solution for efficient and cost-effective road maintenance
- Upgrade road surfaces efficiently with the ability to produce a variety of asphalt mixes suitable for different layers.
- Whether you're repairing potholes, resurfacing worn-out sections, or enhancing road safety, UNIROAD delivers unmatched performance.



## Economic:

- UNIROAD ensures optimal cost efficiency with its low maintenance costs and reliable performance.
- Efficiently save costs by significantly reducing plant erection time to just a quarter with UNIROAD, ensuring a quicker and more economical setup for your operations.
- UNIROAD guarantees low fuel consumption for genset with its integrated variable frequency drive for bag house unit, optimizing energy efficiency.



## Sustainable:

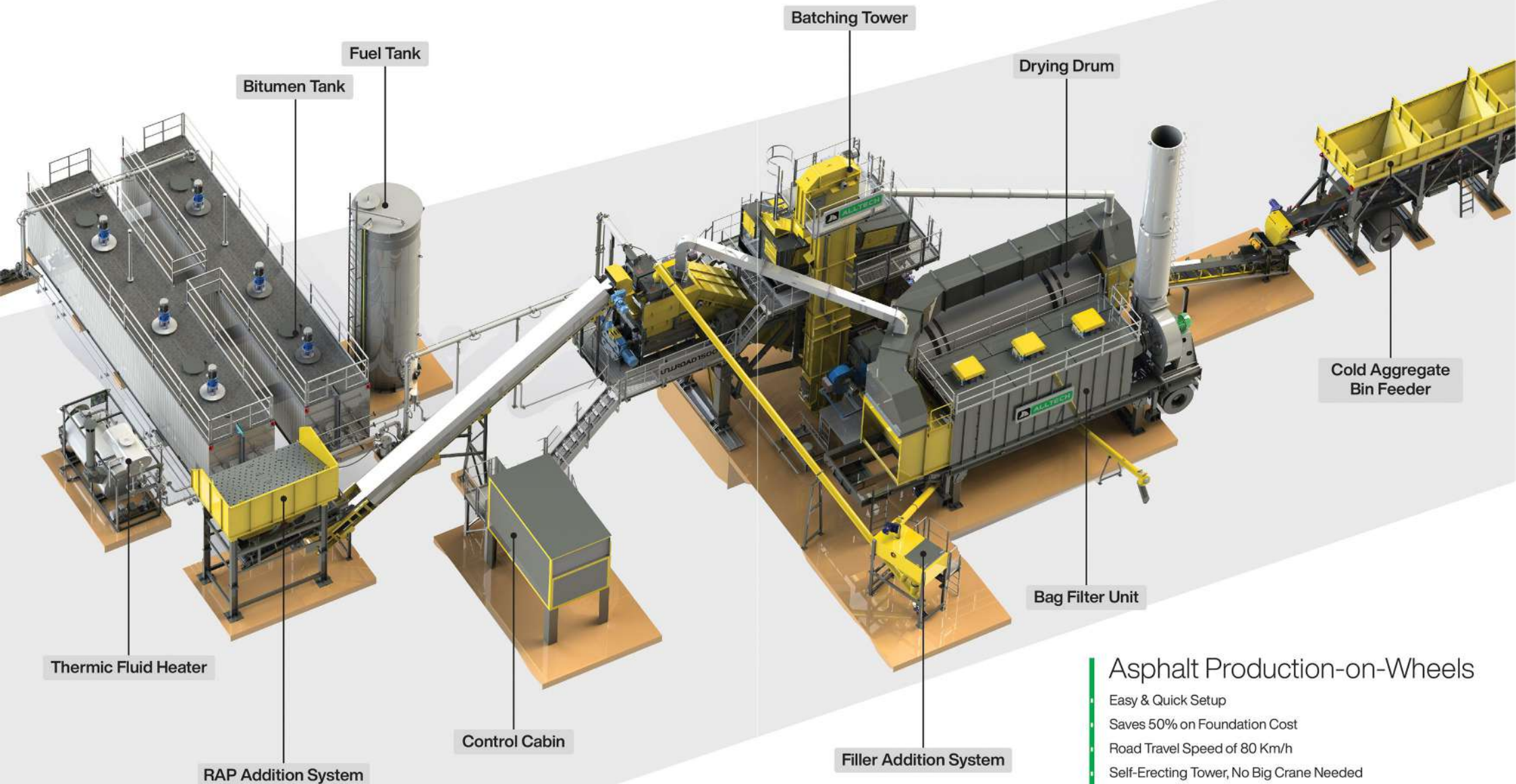
- Engineered for Reclaimed Asphalt Pavement (RAP) material usage upto 30%.
- Coupled with high quality bag filters to minimise dust emission levels.
- Enhance sustainability in asphalt production with UNIROAD by optimizing material transportation distances by strategically positioning the plant, thereby reducing carbon emissions.





# General Arrangement: Mobile Asphalt Batch Mix Plant

# ULIROAD



## Asphalt Production-on-Wheels

- Easy & Quick Setup
- Saves 50% on Foundation Cost
- Road Travel Speed of 80 Km/h
- Self-Erecting Tower, No Big Crane Needed
- Pre-Wired Components with Individual Junction Boxes.

# Cybermix 1.2

Cybermix is a software program that is designed to provide real-time remote monitoring of plant processes. It can also generate all of the parameters that you need to run your plant efficiently. It is modular & expandable, so it can be easily adapted to the specific needs of your plant.

- Generates Detailed Production Reports with all Parameters for Efficient Plant Operation
- Crafted for Simplified Plant Operations, Providing Ease of Use and Enhanced Efficiency.
- Modular and Expandable
- Remote Access and Diagnostics



## Optional Customization

### Mobile Bitumen Tank:



Optional mobile bitumen tank for effortless transportation & eliminating the need for extensive foundation work.

### Foreign Filler Silo:

Integrate foreign filler silo, with a capacity of upto 15 cu.m., for a continuous supply of foreign filler, ensuring uninterrupted plant operation.



### Fiber Dozing Unit:



Enhancing high temperature resistance, crack resistance, and overall toughness of the asphalt mixture for superior performance.

### RAC:



Enhance cost-efficiency with RAC attachment, enabling the recycling of existing pavements up to 30%, leading to reduce asphalt production cost.

# Specification Sheet

Performance Ratings	UNIROAD 1500	UNIROAD 2000
Plant output @ 3% moisture	120 TPH	160 TPH
Batch Cycle(Cycles/Hour)	Max. 80	Max. 80
Batch Size	1500 Kg/Batch	2000 Kg/Batch

## Cold Bins

No. of Bins	4/5	4/5
Individual Bin Capacity	8M <sup>3</sup>	12M <sup>3</sup>
Dump Height	3200 mm	3600 mm
Bins Discharge Belt (Auxiliary belt)	4/5	4/5
Belt Width	600 mm	650 mm
Belt Quality	NN 300/3	NN 300/3
Monoblock Motor Reducer (Bins Discharge Belt)	1.5 kW	1.5 kW
Monoblock Motor Reducer for Collection Belt (Gathering belt)	3.75 KW	5.5 KW
Bin Extensions Plates	11 nos	11 nos

## OSR

OSR Screen Spacing	80 mm	80 mm
Replaceable Grizzly Bar Deck	1	1

## Slinger Conveyor

Unit Output Capacity	140 TPH	180 TPH
Endless Belt Length	14600 mm	14600 mm

Driven by 3.75KW Geared Motor from Rubberized Driving Roller

## Dryer Drum

Dryer Diameter	1800 mm	2000 mm
Dryer Length (Rotary Elevator Included)	8000 mm	8000 mm
Drum Slope	5°	5°
Geared Motor Power	4 X 7.5 KW	4 x 11 KW

## Burner

Fuel Type	Diesel/Gas	Diesel/Gas
Heat Output	12	14

## Bag House Filter

	UNIROAD 1500	UNIROAD 2000
Mechanism Type	Reverse Air Flow	
No. of Cleaning Mechanism	3	4
No. of Bags	216 No.	336 No.
Filter Area	364 m <sup>2</sup>	566 m <sup>2</sup>
Bags Fabric Density	400 GSM	400 GSM
Max. Operating Temp.	160° C	180° C
Exhaust Fan Drive Motor	55 KW	90 KW
Exhaust Fan Power, Output	33500 m <sup>3</sup> /h	55000 m <sup>3</sup> /h
Bag Cleaning Rotors	1.1KW x 3 Nos.	1.1KW x 4 Nos.

## Hot Elevator

Maximum Capacity	140 TPH	180 TPH
Mono-Block Motor Reducer Power	11 KW	11 KW

## Vibrating Screen

Maximum Capacity	140 TPH	180 TPH
Screen Surface	12.6 M2	17.9 M2
Vibro Engine	6.7 KW x 2	7.1 KW x 2
Screen Mesh	As per Requirements	

## Hot Bins

Bins (Compartments)	4/5	4/5
Hot Bin Capacity	12m <sup>3</sup>	15.5m <sup>3</sup>

## Mixer

Mixing Capacity	1500 KG	2000 KG
Average Batch Cycle time	45 Sec.	45 Sec.
Mono-Block Reducer Motor	15KW x 02 No.	22KW x 02 No.

## Bitumen & Fuel Storage

Bitumen Tank Capacity	30/45/50 Ton
Fuel Tank Capacity	12/20/25 Kl
Heating Type	Direct / Indirect
Thermic Heater Capacity	0.4 - 1.0 Million kcal/hr





# 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)



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

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