



## **PREMIUM ASPHALT MIXING PLANTS**



- WIDE RANGE TO MEET EVERY ROAD CONTRACTOR'S NEEDS
- MODELS FROM 35 TPH TO 500 TPH PRODUCTION CAPACITY
- STATIONARY, SKID MOUNTED & MOBILE VERSIONS
- OVER 1,000 ALMIX PLANT INSTALLATIONS WORLDWIDE



# SUPERIOR QUALITY



## THE COMPANY

**ALMIX ASIA**, an affiliate of **ALMIX USA**, a well-known name in the Asphalt Industry, designs and manufactures a complete line of Asphalt Plant Equipment. The ALmix brand has established itself as a reliable producer of The Highest Quality Asphalt Plants and has in excess of 1,000 installations in over 60 countries. ALmix has its manufacturing facilities located in both United States and Malaysia.

**ALMIX ASIA** offers a wide range of batch mix and drum mix asphalt plant models to meet every road contractor's requirement in mobile, skid mounted & stationary type plants.

When considering a new Asphalt Plant facility, every client has certain requirements that need to be met. Here are some good reasons why one would consider an ALmix Asphalt Plant....



## BUILT FOR MAXIMUM PERFORMANCE

- ALmix offers Asphalt Plants with advanced technology that work year after year producing quality mix.
- ALmix has perfected its designs and plant technologies over a period of 5 decades.
- ALmix provides the same proven American technology for each and every customer.
- ALmix plants are manufactured with superior materials and built for years of high production and operational life in the harshest environment.



# HIGH PERFORMANCE



## THE BENEFITS OF ALMIX ASPHALT PLANTS

ALMIX is a leading manufacturer of premium quality asphalt plants with proven backup services.

With its innovative technology, ALmix is dedicated to producing high quality Asphalt Plants, serving the industry worldwide.

ALmix supplies the asphalt industry with a complete range of asphalt plants and auxiliary equipment to allow an individual contractor to customize his plant to meet his particular needs.

ALmix stationary asphalt plants have gained wide recognition for achieving high production rates while maintaining the strictest standards of mix quality. High production stationary asphalt plants combined with bulk storage facilities in a fixed location empowers the contractor to produce different types of asphalt mixes to store in multiple silos.

ALmix Travel Pack asphalt plants are our fastest selling mobile plants in the market. They have become the first choice among contractors who are looking for a high performance plant with the ability to move and be set-up fast for many years of operation. Because the ALmix Travel Pack is designed with the option to use RAP these portable plants fill a significant niche in the asphalt industry.



# TRAVEL PACK MOBILE ASPHALT PLANTS



## Wide Range To Meet Every Customer's Need

ALmix's Travel Pack range of fully mobile Asphalt Mixing Plants feature a production capacity ranging from 25 to 250 TPH. It is ideal for job sites requiring 2,000 to 200,000 tons of hot mix. The Travel Pack comprises of essential equipment that may be configured into Mobile Batch Mix Plants or Mobile Continuous Mix Plants as per the individual contractor's requirements.





# TRAVEL PACK MOBILE ASPHALT PLANTS



## High Mobility & Fast Set Up

The Travel Pack can be towed in and set up within a few days, thus providing flexibility to move between sites. All the units have been made 'container-friendly' to reduce shipping cost. Assuming adequate grade conditions prevail, no concrete foundation is required to set up the plant. The Travel Pack uses the 'Plug & Play' concept for each module to facilitate quick and easy set-up anywhere and anytime when it is needed.



## TRAVEL PACK SERIES - MOBILE BATCH MIX PLANT

Model	TP750	TP1000	TP1500	TP2000	TP2500	TP3000
Capacity TPH	50-70	60-100	80-120	120-160	140-180	180-220
Mixing TPH at ~55 Sec	60 (45sec)	80 (45sec)	100	130	160	200
Drying TPH at 5% H <sub>2</sub> O	60	80	100	130	160	200



# BATCH MIX ASPHALT PLANTS



## ALB TRANSPORTABLE SERIES - STATIONARY / SKID MOUNTED

Model	ALB750	ALB1000	ALB1500	ALB2000	ALB2500	ALB3000
Plant Capacity TPH	50-70	60-100	100-140	140-180	180-220	220-260
Mixing TPH at 45 Sec	60	80	120	160	200	240
Drying TPH 5% H <sub>2</sub> O	60	80	120	160	200	240

### ALMIX ALB & ALBH SERIES

Batch mix asphalt plants are well engineered to meet customer needs for high consistency mix quality & long term production requirements. They are readily containerized and easily transportable. Our ALB Series offers the very latest batch mix plant features. They are well built and highly dependable. The ALBH Series includes many advanced features exclusively offered for high volume producers.

**Cold Feed System** Built Tough to withstand the constant abrasion of aggregates and occasional front-end loader contact. Each system includes a Quick release gate and a “No Flow” warning to the operator. All belt feeders are powered by direct coupled gear motors driven by flux vector drives to provide 100% torque at all speed.

**Drying System** Consisting of a counter-flow dryer with four-trunnion friction drive. One piece forged steel tires with case harden trunnions are provided. Herringbone veiling flights enable a highly efficient drying process. Efficient ALmix fully modulating burner with mechanical atomization provides complete combustion with excellent fuel economy and good turn down ratio.

**Screening-Weighing System** Consisting of an effective inclined vibrating screen for higher aggregate grading accuracy and adjustable vibrators mounted outside hot and dusty enclosure for long life and easy maintenance. A High Resolution Digital weighing system with fast response for fast and accurate weighing of asphalt, aggregates and filler.



# BATCH MIX ASPHALT PLANTS



**High Speed Mixer** Synchronizing gearboxes eliminate wear and tear of conventional timing gears. 50% live zone rating achieves homogenous mix in shorter mixing cycle time. Reversible paddle tips increase life of wear parts.

**Dust Collection System** Uses bag filters with built-in pre-separator and reverse air cleaning mechanism for longer filter bag life while meeting stringent pollution control requirements.

**Advanced Control System** with user-friendly computerized controls running on Windows platform for easy support. Manual override & remote support via modem/internet are provided.

**DRATCH PLANTS (HYBRID)** The best of both worlds. A perfectly synchronized masterpiece is the only way to describe the 'Dratch' plant. The ALmix Dratch Plant is a counterflow dryer with both a batch tower and a mixing drum with hot mix silos. When you have the ability to take care of both your large single mix projects and the everyday walk-in customers, you are in complete control of both your profits and your market. There is no limit to what you can do with the ALmix Dratch Plant.



## ALBH HIGH CAPACITY SERIES - STATIONARY

Model	ALBH4000	ALBH5000	ALBH6000
Plant Capacity TPH	260-320	320-400	400-480
Mixing TPH at 50 Sec	300 (48 sec)	360	430
Drying TPH at 5% H <sub>2</sub> O	300	360	430





# COUNTER FLOW DRUM MIX PLANTS – UNI FLOW SERIES



## UNI FLOW SERIES

ALmix Uni-Flow Series Drum Mixer is a highly innovative concept for drum mix plants. It boasts counter flow technology as its core principle of design.

The elongated drum mixer and carefully placed flights provide excellent material curtain veiling the moment the cold aggregates enter the drum. This allows the aggregates to preheat as it flows towards the burner. This is maximum heat transfer at its best whilst lowering stack temperatures for emission control.

Uni-Flow Drum Mixers are equipped with bag filters as standard equipment. The filter bags are used to recover dust and sand from the exhaust gas for proper mix throughput. Indeed, excess dust may be removed from the mix design and transferred and stored in a silo for later use or disposal.

Uni-Flow Drum Mixers are perfectly adapted for use with Recycled Asphalt Pavements, RAP. The long nose burner combined with the well positioned RAP collar provides a unified heating system that allows RAP to mix with super-heated virgin aggregates prior to enter mixing section. The process allows usage of higher percentages of RAP in the final mix. Any hydrocarbons generated in the mixing process are drawn through the combustion chamber and consumed by the intense flame. Thus, the strictest emission standards are achieved without bothersome blue smoke emissions.



# COUNTER FLOW DRUM MIX PLANTS – UNI FLOW SERIES



## COUNTER FLOW - UNI FLOW SERIES

MOBILE PLANT MODEL	TP60UF	TP66UF	TP72UF	TP80UF	TP88UF	TP100UF	TP108UF	TP114UF
STATIONARY MODEL	60UF	66UF	72UF	80UF	88UF	100UF	108UF	114UF
CAPACITY @ 5% H <sub>2</sub> O	100 TPH	120 TPH	150 TPH	200 TPH	250 TPH	300 TPH	350 TPH	400 TPH

Ultimately each Uni-Flow Drum is engineered carefully to allow precise material veiling patterns and rap entry zones. The drum is constructed using boiler quality steel plate for increased resistance to high temperature. Leaf Spring trunnion ring support allows expansion and contraction of the drum without constraining the joints. The drum drive system features rugged oversized components to meet the rigors of the job.

### FEATURES

- 100 to 400 TPH Capacities
- Rugged Design Throughout
- Bag Filters as Standard
- New Generation Long Nose Burner
- High Percentage RAP Capability
- SMA & Warm Mix Capability
- Total Control Automation
- Single & Multi-Silo System as Option
- Environmentally Friendly





# COUNTER FLOW DRUM MIX PLANTS – DUO DRUM SERIES



## DUO DRUM SERIES

Since 1990, we have been building and perfecting Duo Drum technology with great success. We think you will find it comforting to know that this is a proven technology, rooted in time tested engineering principles and knowledge available to help tackle today's mix design and mixing challenges.

A Duo Drum starts with a counter-flow dryer. That is because you get maximum heat transfer efficiency and a correspondingly low stack temperature with a counter-flow dryer. This low stack temperature allows one to superheat the virgin aggregate to allow a higher percentage of Recycle to be used. As the super-heated virgin material travel towards the burner end, it blends with recycle material as it passes under the burner. This process allows a positive charging of the mixing drum through the high lift side discharge.

A second drum that functions as a rotary mixer is used to allow the superheated virgin material and the RAP material to continue to blend and seek uniform temperature. This process occurs in the first section of the drum mixer. Next, the return dust from the bag filter and any other filler products are added. Finally, liquid asphalt and any liquid additives are added without being subjected to temperature extremes. With no naked flame present, mixing of the various materials can take place more appropriately. Duo Drums are perfectly amenable to Warm Mix Systems. Specially engineered flights and rotational speeds ensure the drum will produce "Super-pave" quality mix.



# COUNTER FLOW DRUM MIX PLANTS – DUO DRUM SERIES



## COUNTER FLOW - DUO DRUM SERIES

MOBILE PLANT MODEL	TP76CF	TP88CF	TP100CF	TP114CF	-	-
STATIONARY PLANT MODEL	76CF	88CF	100CF	114CF	120CF	132CF
CAPACITY @ 5% MOISTURE	150 TPH	200 TPH	275 TPH	350 TPH	400 TPH	500 TPH

A small fan pulls off any hydrocarbons and delivers them to a manifold encircling the burner where they are consumed by the intense flame. This sequential mixing process can only occur in the Duo Drum Design. The end result is the production of unparalleled mix quality.

### FEATURES

- 150 to 500 TPH Production Capacities
- Mobile and Stationary Duo Drum Plants
- Proven Counter-Flow Technology
- New Generation Burner System
- Rugged Design Throughout
- Easy to Operate and Maintain
- Separated Drying and Mixing Drum
- Variable Speed Dryer
- Efficient Drying of Aggregates
- High RAP Percentages
- Warm Mix Capability
- Total Control Automation
- Single & Multi-Silo System as Option
- Environmentally Friendly





# PARALLEL-FLOW DRUM MIX PLANTS



## PARALLEL FLOW - COMPACT SERIES

MOBILE PLANT MODEL	TP40	TP48	TP54	TP60	TP66	TP72	TP80
STATIONARY PLANT MODEL	4020	4822	5424	6025	6626	7230	8032
CAPACITY @ 5% MOISTURE	30 TPH	50 TPH	70 TPH	100 TPH	120 TPH	150 TPH	200 TPH

### COMPACT SERIES

The Compact Series Drum Mix Asphalt Plants are a line of small and highly portable plants. They are designed with simplicity in mind and are easy to move from one site to another. These plants are equipped with a wet scrubber as a standard pollution control system.

The Compact Series provides the contractor with the ability to regulate production through mix storage silos or direct discharge to truck while Weigh-Bridge, Weigh-pod and Mass flow technologies are employed to produce high quality mix with tight tolerances. Advanced computing and data logging systems are employed for visual monitoring of the plant. Additional liquid or dry additives can be added to make high specification mix designs.





# COLD FEED BINS



## FEATURES

- Mobile and Stationary Types
- 3 to 12 Cold Feed Bins Available
- 9, 12, 20, 30, 50 Ton Capacity
- Large Bins with Bin Extensions
- Heavy Duty Steel Foundations
- Built-in Steel Retaining Wall for Mobile Types
- All Welded Heavy Construction
- Steep Sidewalls Prevent Bridging
- Tapered Self-Relieving Opening
- Adjustable Radial Gates
- Direct Shaft Mounted Drives
- Variable Speed Inverter Controls
- Bin Vibrator on Sand Bins as Standard
- No-flow Sensor on Each Cold Feeder
- All Units are Pre-Wired at Factory



# HOT MIX SILOS



## FEATURES

- Stationary Silos at 30, 50, 75, 100, 150 and 200 Tons Capacity
- Mobile & Self-Erecting Silos Available
- Multiple Silo Systems up to 3200 Tons Total Storage Capacity
- Silo Insulation on Side Walls, Top Deck and Discharge Cone.
- High Level Sensor on Silos and Batcher
- Cylindrical and Rectangular Silo Systems Available
- Radar Continuous Level Sensor & Silo Back Weighing System as Options





# PLANT CONTROLS



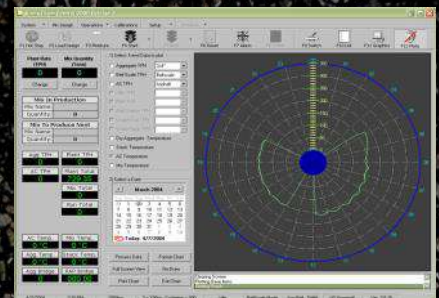
## TOTAL PLANT CONTROL SYSTEM

The ALmix Total Plant Control System automates the blending process of the asphalt mixture. It automatically batches and blends aggregates, liquid asphalt, mineral filler and RAP accurately throughout the full range of production. The Controls are operator friendly and yet extremely reliable and highly accurate. Batching and blending controls run on the latest user-friendly Microsoft Windows operating system. It has superior program logics that optimize the plant's production, provides precise process control and consistent product quality.

Liquid Asphalt is the most expensive raw material in the asphaltic mix. Every asphalt producer wants to avoid any wastage of liquid asphalt. The ALmix continuous mixing process control uses Mass Flow Meter technology to accurately meter the exact quantity of liquid asphalt that is needed in the asphaltic mixture. The ALmix Total Plant Control System adds liquid asphalt according to the real time weight of aggregates measured on the Virgin and Rap belt scales.

## BLENDING & BATCHING CONTROLS

- Blend Aggregates, Liquid Asphalt, RAP, Mineral Fillers and Additives
- Store Unlimited Number of Mix Designs
- Computerized Cold Feed Blending Controls
- Graphical User Interface Provides for Intuitive Plant Control
- Printing Facility for Daily Reports and tickets.
- Remote Support via Internet
- Computerized Total Plant Control System as Standard





# AUXILIARY EQUIPMENT



## MULTI-FUEL BURNERS

- Compact Mono Frame Design
- Open Air, Total Air & Long Nose Burners Available
- 12 to 150 MBtu/Hr Capacity
- High Turn Down Ratio
- Swirl Air Design Ensures Maximum Flame Stability
- Fuel Efficiency & Low Emission
- Multi-Fuel Capability
- Honeywell Flame Safety
- Fuel Trains Meet Regulations
- Factory Tested
- Easy to Maintain



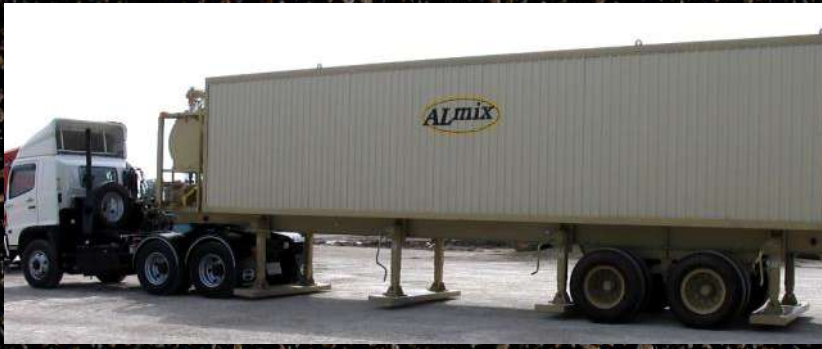
## POLLUTION CONTROL SYSTEMS

- Meets Emission Norms
- Highly Efficient Exhaust Fan
- Dryer Negative Pressure Indication
- Dust Collection & Transfer System
- High Temp. Safety Cut Off Protection
- Air Damper Control with Feedback
- Bag Filter
  - Nomex/ Aramid Filter Bags
  - Durable Aluminum Cages
  - Reverse Air Cleaning
  - Inlet/Outlet Temp. Indication
  - Differential Pressure Indication
- Wet Scrubber
  - Easy to Operate & Maintain
  - Waste Dust Conditioner as Standard
  - Economical to Setup





# AUXILIARY EQUIPMENT



## ASPHALT TANKS

- Mobile and Stationary Asphalt Storage Tanks
- 30, 50, 80 m3 Insulated Tanks Available as Options
- Heavily Reinforced Steel Tank Construction
- Direct Fired, Hot Oil and Electric Heating Available
- High Density Rock Wool Insulation
- Continuous Asphalt Level Monitoring System
- Hot Oil Scavenger Available For Direct Heating System
- Unloading Jacketed Pumps with Strainer as Option
- Proven Jacketed Gear Pump Provides Long Service Life
- Vent Condenser as Option
- Liquid Asphalt Calibration Tank as Option



## MINERAL FILLER SILOS

- Mobile, Self-erecting and Stationary Filler Silos as Options
- Silos are Offered in 30, 40, 60 or 80 m3 Capacity as Standard
- Larger Silos are Available Upon Request
- Uses Reverse Metering Weigh Pod for Accurate Filler Dosing.
- Accurate Weighted Automatic Dosing According to Process TPH
- Inverter Driven Air-Lock Vane Valves for Consistent Feeding
- Pneumatic Flow-Aid as Standard Accessories





# AUXILIARY EQUIPMENT

## ASPHALT DRUM MELTER

- Mobile and Stationary Drum Melter
- 4 TPH Drum Melting Capacity
- 16 Drums Loading in Two Compartments
- 5 Ton Holding Tank Capacity
- Twin Oil Burners
- Asphalt Transfer Pump with Strainer
- Optional Hoisting Frame



## RAP USAGE SYSTEM

- Mobile and Stationary RAP Equipment
- 20 & 30 Ton RAP Bin Feeder Unit with Grizzly
- 1 to 3 RAP Bins Configuration
- Inverter Driven Variable Speed Feeder Drive
- RAP Belt Scale as Option
- Twin Vibrators on Each RAP Bin
- No-flow Sensor on Each RAP Feeder
- RAP Breaker as Option



## HOT RECYCLING SYSTEM

Hot recycling dryer for mix producers using 50% Rap or greater

- Drying capacity of 90 TPH, 120 TPH & 150 TPH
- Burner flame shape and length are matched to dryer without overheating of RAP
- Long and large volume drum design to allow gradual heating by hot gases
- Well insulated buffer silo and RAP scale with steep cones





# AUXILIARY EQUIPMENT



## PMB BLENDING SYSTEM

- Twin Mixing Tanks with Precise Weighing System
- 10-15 TPH & 20-25 TPH Capacity
- Single-Pass Milling Process
- Reputable German 3-Stage PMB Mill
- Polymer Dosing Hopper with Transfer Screw Conveyors
- PMB Holding Tanks and Hot Oil Heater as Options
- Computer Controls with Touch Screen Interface

## THERMAL OIL HEATER

- 1, 1.5, 2, 3 & 4 MBtu/Hr Heating Capacity
- Built-in Expansion Tank
- Light Oil Burner as Standard
- Optional Gas & Heavy Oil Burners
- Heli-Coil Pipe Heater Design Ensures Long Oil Service Life
- Reliable German Pump for Hot Oil Circulation
- Automatic Temperature Control with High Temp Safety Lockout



## CONTROL HOUSE

- Mobile and Stationary Control Houses
- Split Unit Air Conditioner
- Slanted Windows for Clear View
- Tinted Glass & Venetian Blinds
- Walls and Ceiling are Insulated
- Vinyl Flooring
- Fluorescent and Night Lightings
- Mobile Control House with Quick Connectors







## OUR PRODUCTS

Batch Mix Asphalt Plants	- 50 to 500 TPH
Uni Flow & Duo Drum Asphalt Plants	- 100 to 500 TPH
Parallel Flow Drum Mix Asphalt Plants	- 30 to 500 TPH
Travel Pack Mobile Asphalt Plants	- 50 to 220 TPH
Hot Recycling Asphalt Plants	- 90 to 150 TPH
Soil Stabilization Plants	- 150 to 500 TPH
Polymer Modified Bitumen Plants	- 15 to 50 TPH
Cold Feed Bins	- 10 to 80 Ton
Dust Collection Systems	- Dry / Wet / Bag Filter
Hot Mix Storage Silos	- 30 to 200 Ton
Asphalt Storage Tanks	- 20 to 80 m <sup>3</sup>
Filler Silos	- 20 to 100 m <sup>3</sup>
Burner Systems	- 12 to 150 MBtu/Hr
Thermal Oil Heaters	- 0.5 to 4.0 MBtu/Hr
Computerized Plant Control & Monitoring Systems	

### ALmix Asia / Asphalt Equipment Pte Ltd

An Affiliate of ALMIX USA

2 Leng Kee Road #02-01, Singapore 159086

Phone: +65-64735277 Fax: +65-64735597

E-mail: [enquiry@almixasia.com.sg](mailto:enquiry@almixasia.com.sg)

[www.almixasia.com.sg](http://www.almixasia.com.sg)

