

RELOCATABLE M-PACK™ ASPHALT MIXING FACILITY



The M-Pack[®] Asphalt Mixing Facility

The innovative Astec M-Pack™ Asphalt Plant sets up much faster and for much less money than stationary plants. When you don't need to move often, but still want to reap the benefits of faster and more economical setup, the Astec M-Pack is engineered as a set of modules that are transported by truck and bolted up at the site. Astec tests each component before shipping it to your site to ensure a hassle-free setup. Plus, the M-Pack asphalt mixing plant has full-size control rooms, large silos, high production capacity, and excellent maintenance access.



High production, large storage capacity and high-quality components make the modular M-Pack asphalt mixing plant highly functional. This reliable and durable HMA/WMA plant is outfitted with the latest technology and proven Astec performance. Plus, with any Astec product you get unbeatable customer service and support.

There are a wide range of options on these robust, versatile plants. With a team of experienced engineers and in-house technicians, Astec has the knowledge and the expertise to help you make the appropriate selections to meet your requirements.



M-Pack™ SETUP

Quick setup of durable equipment makes the Astec relocatable facility an excellent value. An M-Pack plant has the capacity and size of a permanent facility with reduced setup costs. That's a big advantage. Each M-Pack asphalt mixing plant ships in separate loads. Level and pave your site, then lift the pre-piped, pre-wired modules off the trailer. Sturdy steel construction ensures that setup proceeds quickly and without difficulty.

UP AND RUNNING IN SIX WEEKS

Set up an M-Pack plant on a prepared site in about six weeks, at less than the cost of erecting a stationary plant of comparable size. Each Astec M-Pack plant ships in ready to set up loads when it leaves the manufacturing facility.





PEACE-OF-MIND

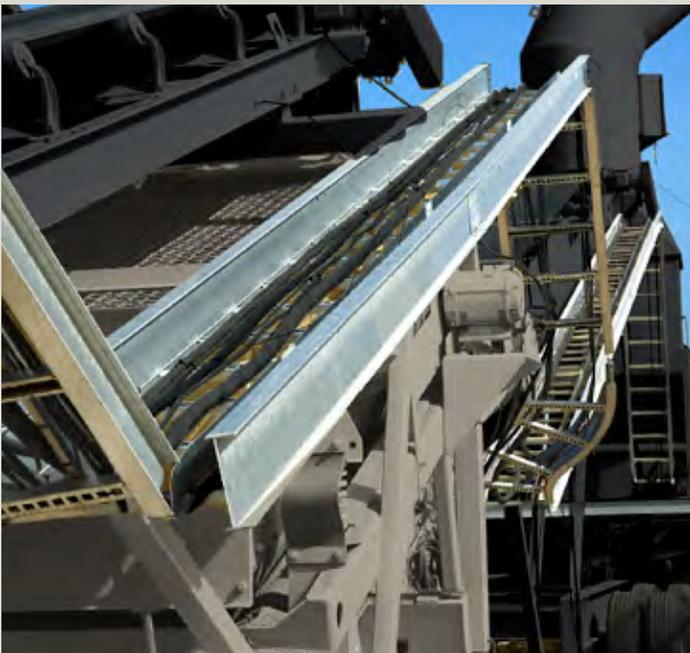
No one knows Astec equipment better than the folks at Astec. Choose the Astec construction team for plant set-up. These trained personnel have the equipment knowledge and field experience to ensure plant setup proceeds quickly and with minimal stress.

FOUNDATIONS

The M-Pack foundations are heavy-duty. They provide plenty of load-bearing surface to support the facility components.

The cold feed unit, recycle bins, drum mixer and baghouse have thick structural tubes under each module leg. Steel skid foundations are used under the exhaust stack end of the baghouse. The scalping screen is supported by skid-type foundations.

If you ever have to move to another site, most loads fit on lowboy type trailers, and the built-in foundations go with them.



PRE-WIRING AND PRE-PIPING

Astec mounts, pre-wires and pre-pipes all related components. For easy access, power panels are located in either a separate power room or in the control center. Tray-rated cables with UV rating* connect motors and power panels. Cable trays hold the cables and keep them organized and off the ground.

Pre-assembly of parts and components saves setup time. Bags are pre-installed in the baghouse to save time and money. Fully pre-wired and equipped control houses minimize start-up problems because plant controls have been tested at the factory. These are just some of the ways in which Astec makes sure setup and start-up of your new M-Pack goes smoothly.

*NEC approved

Drum CHOICES

Astec supplies a complete line of high-performance drying and mixing equipment to fill the varying needs of producers worldwide. Each drum efficiently incorporates RAP into high quality mixes while meeting emissions requirements. Heavy-duty construction and proven wear materials ensure consistent performance year after year.

An M-Pack drum includes solid-built steel foundations that eliminate the need for concrete foundations, making setup faster and easier.



THE DOUBLE BARREL[®] DRUM MIXER

- Can process mix with up to 50% RAP*
*at 5% moisture content
- The Double Barrel's unique design uses the entire outer drum for processing RAP
- Capacities from 200 to 600 TPH
- Patented V-Flights
- Self-cleaning drum reduces buildup in the mixing chamber
- Optional Astec warm mix and V-Pac[™] systems

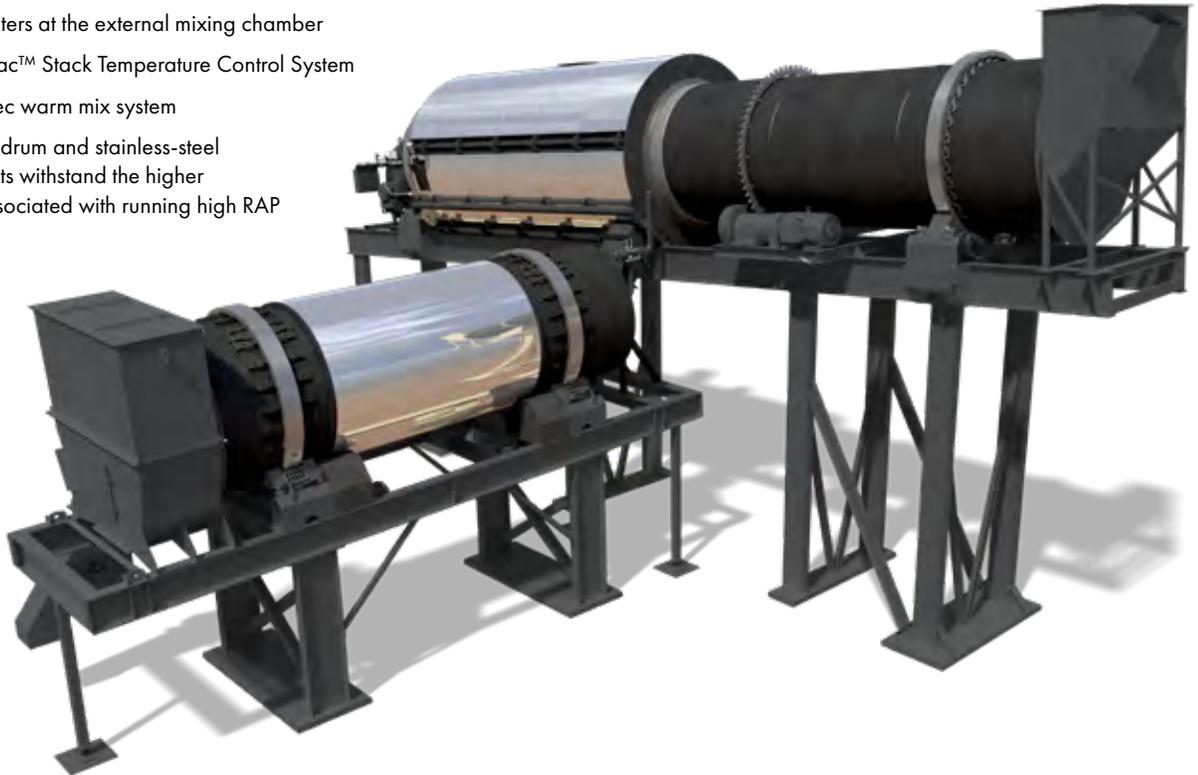
THE DOUBLE BARREL[®] X[™] DRYER/MIXER

- Can process asphalt mixes with up to 50% RAP* while maintaining zero opacity at the stack.
*at 5% moisture content
- Capacities from 200 to 600 TPH
- Employs preconditioning outer chamber on the drum and an external mixer
- Liquid AC enters at the external mixing chamber
- Optional Astec warm mix and V-Pac[™] systems



THE DOUBLE BARREL® XHR™ DRYER/MIXER

- Can process asphalt mixes with up to 65% RAP* while maintaining zero opacity at the stack.*
*at 5% moisture content
- Capacities from 200 to 600 TPH
- Employs two mixing technologies, an outer chamber on the drum and an external mixer
- The liquid AC enters at the external mixing chamber
- Includes the V-Pac™ Stack Temperature Control System
- Includes the Astec warm mix system
- A stainless-steel drum and stainless-steel combustion flights withstand the higher temperatures associated with running high RAP



THE UNIDRUM DRYER/MIXER

- Can process mix with up to 50% RAP* with the patented V-Pac™ systems
*at 5% moisture content
- Counterflow style drum
- Capacities from 300 to 600 TPH
- Patented V-Flights
- Single-point trunnion alignment saves time and ensures proper equipment operation
- Optional Astec warm mix and V-Pac™ systems



ASTEC BURNERS

Astec offers the most technologically advanced burners in the industry. The Astec burner group engineers the burners to customer specification and manufactures each in a state-of-the-art facility. Long and short-nose configurations available.



PHOENIX® TALON II™

- Total-Air Burner
- Oil, Natural Gas, or Propane Compatible
- 200 to 600 TPH
Nominal Aggregate Drying Capacity
- Lean burn premix
- Multiple, parallel, turbulent, tube mixer



PHOENIX® PHANTOM™

- Total-Air Burner
- Natural gas, or propane compatible
- 300 to 600 TPH
Nominal aggregate drying capacity
- Lean burn premix
- Multiple, parallel, turbulent, tube mixer
- Ultra low NOx



WHISPER JET®

- Total-Air Burner
- Oil, Natural Gas, or Propane Compatible
- 200 to 600 TPH
Nominal Aggregate Drying Capacity
- Patented castellated nose, ring and nozzle



FURY™

- Open-Fired Burner
- Oil or Natural Gas Compatible
- 100 to 400 TPH
Nominal Aggregate Drying Capacity



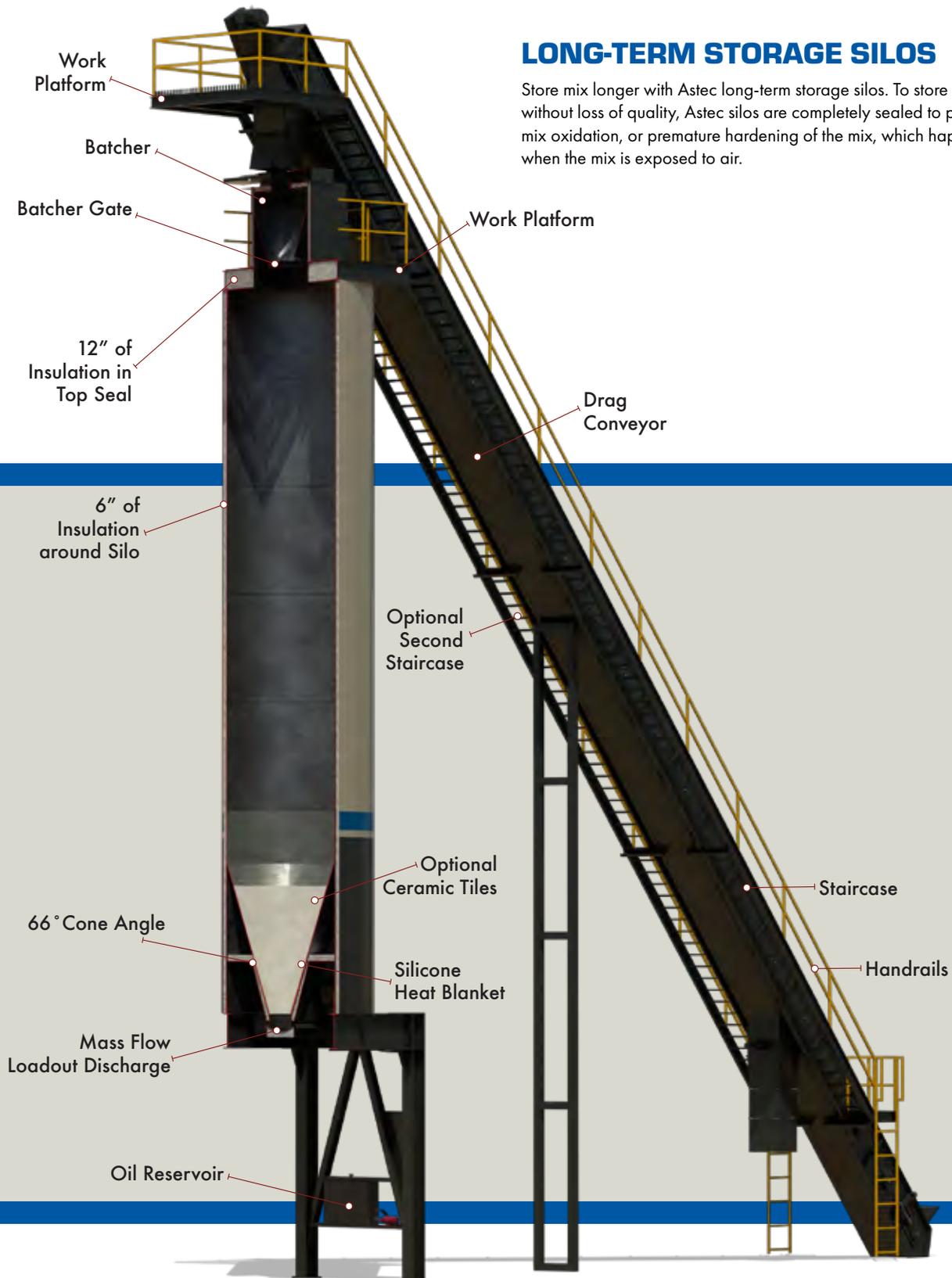


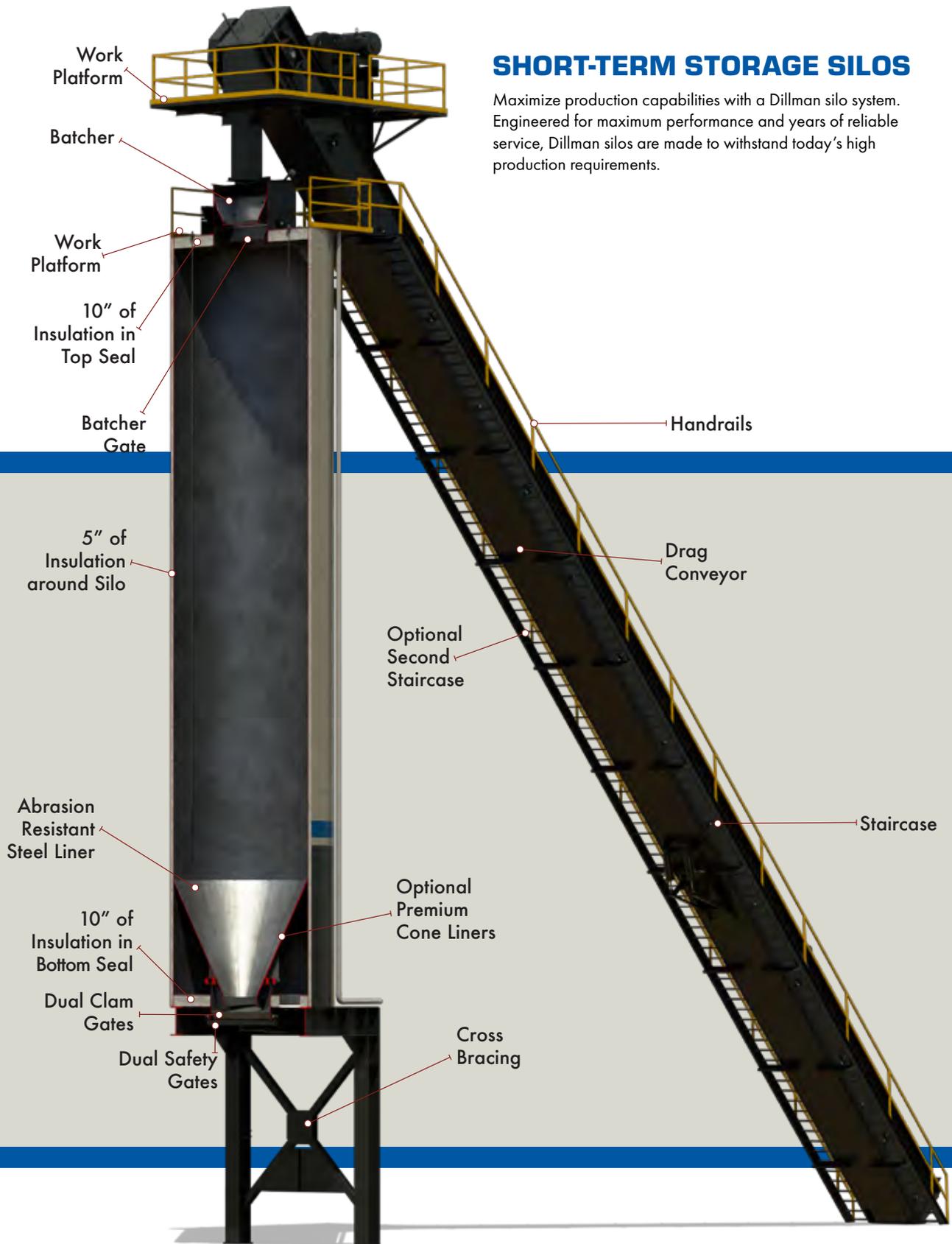
Silo CHOICES

After asphalt paving mix has been produced it is transported to a silo or silos to be batched into waiting trucks or stored for sale at a later time. Silo storage brings the economies of long production runs to the asphalt mixing industry. Both long-term and short-term storage options are available depending on requirements at your plant. Guaranteed four-day storage for unmodified mix.

LONG-TERM STORAGE SILOS

Store mix longer with Astec long-term storage silos. To store mix without loss of quality, Astec silos are completely sealed to prevent mix oxidation, or premature hardening of the mix, which happens when the mix is exposed to air.





SHORT-TERM STORAGE SILOS

Maximize production capabilities with a Dillman silo system. Engineered for maximum performance and years of reliable service, Dillman silos are made to withstand today's high production requirements.

Work Platform

Batcher

Work Platform

10" of Insulation in Top Seal

Batcher Gate

5" of Insulation around Silo

Handrails

Drag Conveyor

Optional Second Staircase

Abrasion Resistant Steel Liner

Staircase

10" of Insulation in Bottom Seal

Optional Premium Cone Liners

Dual Clam Gates

Cross Bracing

Dual Safety Gates

Baghouse CHOICES

Only Astec provides a choice of two distinct baghouse styles. Modular construction and built-in supports eliminate the need for concrete foundations, making setup of the relocatable baghouse fast and easy.



PULSE JET BAGHOUSE

With pulse jet cleaning, no bags have to be taken out of service for cleaning. During cleaning mode, blowpipes direct bursts of compressed air into two rows of bags at a time. The shock and momentary back-flow produced by the compressed air pulse causes the bags in the section to expand and expel the collected dust from the surface, allowing it to drop into the hopper.

The relocatable pulse jet baghouse, with primary collector modules, is delivered on steel plate foundations. At the site, the top weldment bolts to the hopper section. Filter bag modules are installed on top, and an airtight seal is created between top and bottom sections. Epoxy coating of the interior stops corrosion. Exhaust fan inlet duct, fan base and stack are pre-assembled and fitted to the baghouse. Constructed with AR-400 abrasion resistant steel at elbows. Pulse valves are mounted internally to promote consistent performance by preventing freeze-up. Capacities start at 34,000 cfm, depending on the plant.

REVERSE PULSE BAGHOUSE

Reverse pulse baghouses utilize a damper and a rotating turret to force air directly into the bag filters opposite the normal flow direction. Cleaning is accomplished by isolating a single section of filter bags then reversing the flow of air through them causing a gentle expansion. Accumulated dust dislodges from the bag filters and drops into the hopper beneath. Cleaning sequence and timing is adjustable from the control house.

Modular in design, the relocatable reverse pulse baghouse can be fitted to your exact size requirements. The relocatable reverse pulse baghouse is available in a range of sizes from 5,000 to over 100,000 ACFM. It is a ruggedly constructed system featuring massive, weight distributing, pyramid style supports that provide a solid foundation. The interior is coated with epoxy paint to stop corrosion. The reverse pulse baghouse is insulated to help reduce condensation inside and to maintain temperature during a hot stop.



M-Pack COMPONENTS

Sturdy steel component construction contributes to setup that proceeds quickly and without difficulty. Robust construction ensures years of reliable service.

INCLINED CONVEYOR

The inclined conveyor ships with load cell, weigh idlers, and the gravity take-up tensioner in place as a single load.

BELT SCALES

A load cell in the belt scale accurately indicates the weight of a section of belt running over a weigh idler. All Astec belt scales come with wind guards to maximize accuracy.



VULCANIZED BELTS



CONTROL CENTER

A built-in ticket window is standard. Provides an excellent facility control environment and surveillance capabilities with convenience and comfort.



CONTROL SYSTEMS

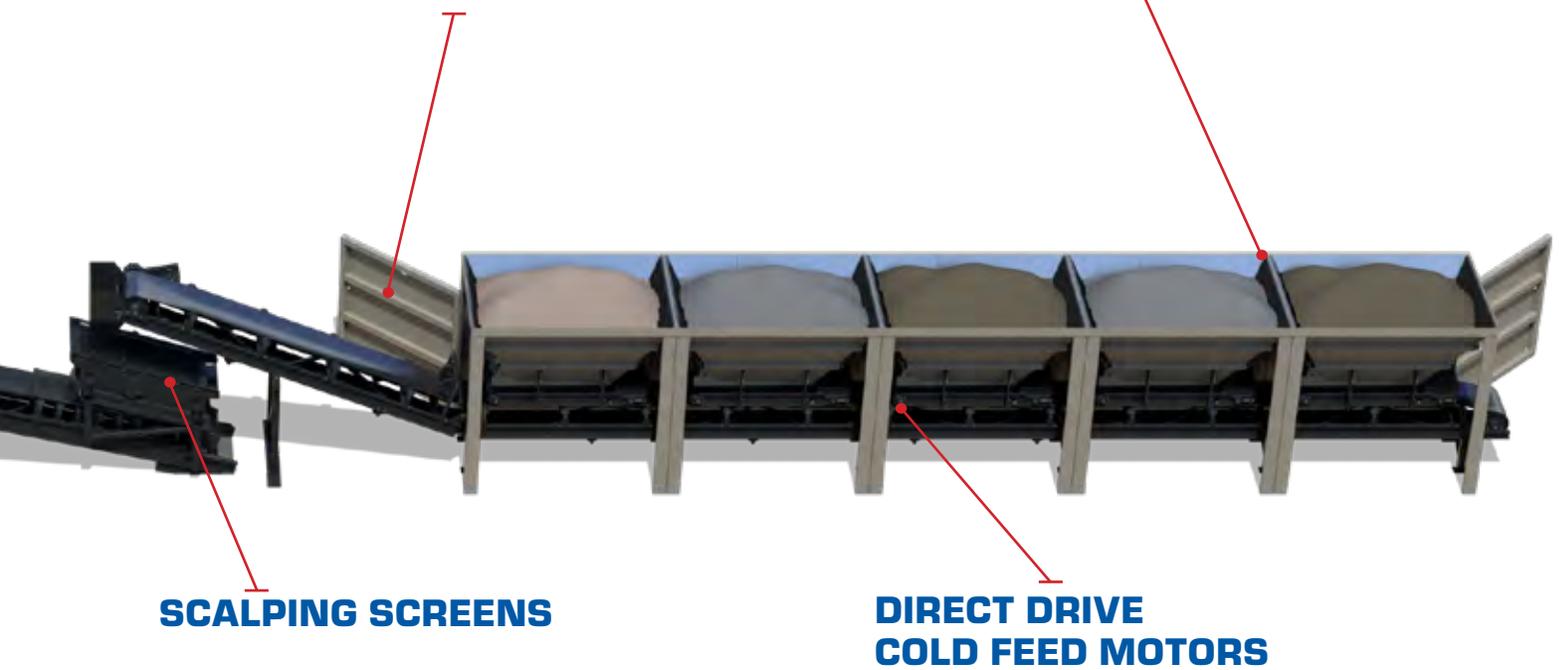
Astec provides the software and hardware required to control and manage asphalt mixing facilities. Astec control systems run through Microsoft Windows and efficiently control all material flows, processes, weighing and ticketing.

BULKHEADS & WING WALLS

Save the expense of constructing retaining walls for loader ramps. The cold feed bin and the recycle bin both come with full-length bulkheads and wing walls.

COLD FEED UNIT

Cold feed bin modules ship in two or three bin sections. Additional bins can easily be added for plant expansion.



LADDERS, HANDRAILS & PLATFORMS

Astec supplies OSHA compliant stairs, caged ladders and hand-rails.



RAP/RAS BINS & CONVEYOR

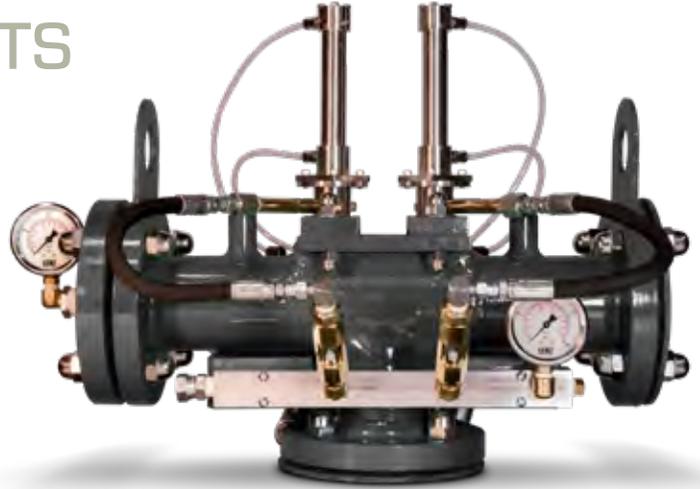
The RAP/RAS bins ship as a single module including a skid foundation. The standard system comes with one bin, with additional bins offered as an option.

M-Pack™

OPTIONAL COMPONENTS

WARM MIX SYSTEM

The patented Astec warm mix system saves energy, eliminates smoke and emissions, and improves compaction without compromising mix quality.



BLUE SMOKE PACKAGE

Powerful fans route hydrocarbon emissions either to the drum burner for incineration or to a fiberbed filter type collection unit. Silo top and loadout area systems are available.

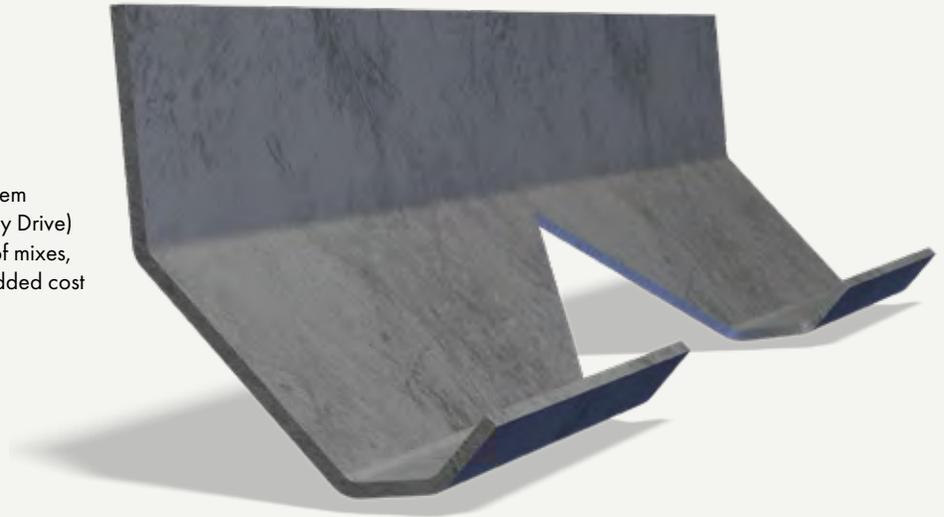
DUST RUN-AROUND

Weighs all the fine dust, then meters it back into the mix using an automatically controlled VFD air lock. The dust run-around system accounts for all the dust to automatically calculate required AC content.

V-PAC™

STACK TEMPERATURE CONTROL SYSTEM

The patented V-Pac stack temperature control system uses v-flights and a drum VFD (Variable Frequency Drive) to help facilitate producing many different types of mixes, while controlling stack temperature, without the added cost and time of drum flight changes.



ADDITIVE SYSTEM & FINES SILO

Filler silo legs are attached to customer supplied plates embedded in concrete to stabilize these tall structures.



ASTEC[™]

www.astecindustries.com