The innovative Astec M-Pack asphalt facility sets up much faster and for much less money than other plants.

Big, stationary plants operating in a fixed location create a permanent work environment. But, the time and expense it takes to prepare the site and erect a stationary facility takes a big bite out of the budget.

Portable plant setup is faster and less costly, however, limited storage capacity and compact components may limit production capacity.

Astec designed a facility for customers who don’t need to move often and still want to reap the benefits of faster and more economical setup. The M-Pack is engineered as a set of modules, which 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 gives you full-size control rooms, large silos, high production capacity, and excellent maintenance access.

High production, large storage capacity and massively constructed components make the modular M-Pack super functional. Since its introduction in the mid-1980s, the M-Pack has been refined and updated. This reliable and durable HMA facility is outfitted with the latest technology and proven Astec performance. Plus, with any Astec product you get our unbeatable customer service and support. You cannot go wrong with an M-Pack – the most advanced relocatable HMA facility on the market today.

All specifications subject to change with or without notice.
UP AND RUNNING IN SIX WEEKS
You can set up an M-Pack facility on a prepared site in about six weeks, at less than half the cost of erecting a stationary plant of comparable size. Each Astec M-Pack facility ships in complete, ready to set up loads when it leaves the manufacturing facility.

PRESERVE VALUE
Astec equipment costs less to run and maintain than other plants because we use substantial components that stand up to heavy use. That is also the reason for Astec’s consistently high resale value. Even for plants that are 10 to 15 years old average residual value is 68% of your original investment. Plus, Astec sets up every facility before shipping to ensure setup ease at your site.

GET A HANDLE ON SETUP COSTS
For complete setup cost control, Astec can erect your new facility for you. You will know up front what all costs will be and won’t have to concern yourself with estimates from electricians, welders, fitters, etc.

CHOICE OF TONNAGE CAPACITIES
M-Pack facilities come in a range of capacities from 200 to 600 tons-per-hour (182 to 545 tonnes). Choose the production capacity you need and we will help you design, construct, and start up your new M-Pack facility.

DIRECT DRIVE COLD FEED MOTORS
Astec uses variable frequency direct drive motors on the cold feed system. You will have less maintenance to worry about since a gear box runs the belt feed drive without the need for more belts or sheaves.

OPTIONAL - CERAMIC SILO LINERS
Ceramic liners are available for the cone, spool and batcher. Ceramic protects vulnerable parts of the silo against excessive wear from the abrasive asphalt mix.
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 lower level of the control center. CT-Rated cable with UV rating* connects 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. Pre-installed baghouse components are a huge time saver. 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 erection and start-up of your new M-Pack goes smoothly.

BULKHEADS AND WING WALLS
Save yourself the expense of constructing retaining walls for your loader ramps.

The cold feed bin and the recycle bin both come with full length bulkheads that extend all the way from the top edge of the bin to the ground. Wing walls swing out to retain the sides of loader ramps.

Our bulkheads are 3/16” thick and braced with structural tubing to protect your equipment from damage by loaders. They also keep dirt and debris out of cold feed and recycle bin mechanisms. A walkway in-between the bulkhead and collecting conveyors gives you access to the back of the bins and conveyors for maintenance.

LADDERS, HANDBRAILS AND PLATFORMS
Astec supplies the stairs and caged ladders required to access components for inspection or maintenance. OSHA compliant hand-rails around platforms and along drag conveyor stairs help keep workers safe.

VULCANIZED BELTS
Astec only uses vulcanized rubber belts. Vulcanized belts not only last longer, but also run quicker, smoother and cleaner by eliminating the metal splice.

*CNE Approved
COLD FEED UNIT, SCALPING SCREENS AND INCLINED CONVEYOR
Cold feed bin modules ship in two or three bin sections. Modules are positioned; then the collecting conveyor, extension to the scalping screen, bin wall extensions and optional items are installed. Steel cables anchor the bins to the loader ramp. Standard bin size is 10 x 14 feet.

The inclined conveyor ships with load cell, weigh idlers, and the gravity take-up tensioner in place as a single load. It is set in place and then the scalping screen is installed.

PHOENIX® BURNERS
Astec offers the most technologically advanced burners in the industry with the Phoenix burner line. The Phoenix Talon burner sets the standard for power and efficiency. The Phoenix Phantom leads the pack with the lowest available combustion and noise emissions. The Phoenix Coal utilizes multiple fuel technology to lower energy costs.

DOUBLE BARREL® DRUM MIXER
Two main modules make up the relocatable Double Barrel: the foundation frame, which includes the bottom of the mixing chamber, and the inner drying drum. The foundation frame is set off, then the drying drum is positioned. The top of the mixing chamber is raised into place and connected to the lower section. Attaching the full length access door completes the mixing chamber. Last, the burner is installed, along with the virgin inlet breaching and the fines and recycle inlets.

OPTIONAL DOUBLE BARREL® GREEN SYSTEM
The latest innovation from Astec saves energy and eliminates smoke and emissions without compromising mix quality. The optional Double Barrel Green System uses water to produce a foamed warm mix asphalt that is odorless, smokeless and longer lasting.

Keeping your operating costs low helps you stay ahead of the competition. Maximize fuel efficiency with the Double Barrel® Green system and multiple RAP Bins.

Constructed from top-quality, structurally sound materials — Astec cold feed bins are built to last.

Astec produces the most technologically advanced burners in the industry.

Full length access doors on the Double Barrel drum make routine maintenance easier.

The patent pending Double Barrel Green System allows you to cut fuel consumption significantly.
M-PACK® COMPONENTS

Customize your facility exactly the way you want. A range of storage capacities and options allow you to design a configuration for your needs.

DRAG CONVEYOR AND STORAGE SILOS
Astec HMA storage systems fit any size storage need. The silos feature a steep 66° cone angle which provides segregation-free load-out through mass flow. Astec silos also feature better insulation than competitor’s models, so they have the ability to store product for four days without loss of mix quality.

Depending on the size of the silo, legs and batchers are mounted to the silos at the site. Plates at the bottom of the silo legs attach to anchors set in concrete. The drag conveyor comes completely assembled except for the top service platform, which is installed on-site. The conveyor is then raised and attached at the top of the silos. Weld plates set in concrete stabilize the bottom of the drag conveyor.

THE ADDITIVE SYSTEM AND FINES SILO
Silos for fines, mineral fillers and other dry additives come in a range of sizes and with a number of metering options. Plates at the bottom of silo legs are embedded in concrete to stabilize these tall structures.

RAP BINS AND RAP CONVEYOR
The Reclaimed Asphalt Pavement (RAP) bins ship as a single module including a skid foundation. An upturned end attaches to its collecting conveyor and goes to the scalping screen of the RAP conveyor. The standard system comes with one bin, with additional bins offered as an option. A separate RAP conveyor with scalping screen is included in the standard system. An optional closed loop RAP crusher system is also available.
The pulse jet style baghouse requires minimal maintenance. Well thought out features like internally mounted pulse solenoids ensure reliable performance.

PULSE JET BAGHOUSE
The pulse jet baghouse with primary collector modules ship with foundations in place. Filter bag modules are installed on top, and an airtight seal is created between top and bottom sections. Exhaust fan inlet duct, fan base and stack are pre-assembled and fitted to the baghouse. Elbows lined with abrasion resistant steel guarantee collection efficiency. Pulse valves are mounted internally to promote consistent performance by preventing freeze-up. M-Pack baghouse capacities start at 34,000 cfm, depending on the plant. Astec offers a choice of primary collectors: either an inertial separator or a cyclone.

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, Double Barrel® 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.

OPTIONAL BLUE SMOKE PACKAGE
Astec offers complete systems to capture and dispose of blue smoke. Powerful fans route the 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.
THE CONTROL CENTERS
All Astec control centers feature welded steel frames and are built to endure the harsh environment of an asphalt plant. The control centers come fully equipped and are climate controlled. Windows are tinted and slanted, optimizing the operator’s view of the facility. Astec control centers are designed to meet state requirements for permitting.

The Command style control center is available in four sizes: 27 feet, 31 feet, 35 feet, 40 feet. The split level design includes an elevated control room that provides a panoramic view of the facility. Each control center also features a rubber tile floor for operator comfort.

CONTROL SYSTEMS
PMII controls and monitors proportional control of aggregate feeders and the blending of asphalt, recycle, shingles, and additives. PMII can also be custom configured to work the optional WM2000. Upgrade to the TCII, the most powerful PC-based system ever designed to control hot mix asphalt facilities. With these centralized controls you will have instant and accurate control of all facility operations. No other system provides you with more flexibility and expansion options.

THE POWER HOUSE
The Astec M-Pack facility keeps all the sensitive switch gear and the Variable Frequency Drives (VFD) dust free and out of the elements in an air conditioned power house. Two standard sizes are available: 20 feet and 40 feet.