

# HEATEC PRODUCT LINES & SERVICES

## ASPHALT TERMINALS



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## HEATEC EQUIPMENT & SERVICES

### Our unique position

Astec occupies a unique position for building terminals. With decades of proven experience as North America's premier manufacturer of asphalt mixing plants and a reputation for building high-quality asphalt heating systems and equipment, Astec is the ideal partner to help you build a terminal that meets your needs now and in the future. Our expert sales and engineering teams listen to your needs to customize a terminal well-suited to your operation, never taking a "one size fits all" approach.

With our experience and expertise, we can also retrofit an existing terminal replacing old or unreliable controls and equipment with new products, expanding a terminal to increase production volume, or adding equipment for production of polymer products.

### Single Source Accountability

We are virtually the only company providing a full range of services\*, including terminal planning, manufacturing, setup, startup, and service. This provides a significant advantage. You will work with a single source for the widely diverse products and services involved, greatly reducing the likelihood of costly reworks due to incompatibility and miscommunication.

\*Should the scope of services require professional licensure, Astec will perform those services to the extent allowed by applicable laws and regulations. Otherwise, these professional services will be performed by qualified, licensed professionals retained by Astec.





# TERMINAL COMPONENTS AND SERVICES

Manufacturing equipment for heating and storing asphalt has been an important part of our business from the beginning. Equipment for an asphalt terminal involves storage, heating, piping and pumping systems. As a single source supplier, Astec designs, builds and services this equipment.

## Design and Engineering

Reduce the likelihood of oversights and costly remedies by engaging Astec to do terminal planning work first. We take into account future expansion plans when designing and laying out the facility so that it's easy to connect new equipment when the time comes to expand your operation. With a plan in place, you can then move forward with site preparation work and building structures with your own team or preferred contractors. Astec Construction can also be contracted to provide services for all or some portions of the work. The choice is yours.

## HCI Heaters



Our oil-fired and gas-fired heaters use thermal fluid to heat storage tanks, heat exchangers, and steam generators. Helical coils are heated by hot gases from the burner, thermal fluid is then pumped through the helical coils carrying the heat to coils in the storage tanks, heat exchangers, etc. Their capacities range up to 30 million Btu/hour. Thermal fluid is also an ideal source of heat for heat-traced asphalt piping.

## Automated Load-out Systems



We offer a tank truck load-out system designed so that drivers can safely load the tank truck and log their transactions without assistance. It can fill multiple trucks simultaneously. The controls provide remote operation of the asphalt pumps located at the tanks. Load-out controls for each boom incorporate lockouts to prevent operation of the pumps unless the boom is properly positioned, and valves are properly set.

Astec provides loading racks and truck scales customized to suit your requirements.

## Storage Tanks

Astec has over four decades of experience building a variety of high-quality and reliable tanks for asphalt, emulsions, additives, and fuel.

Tanks can be built to API specifications as an option. Fuel tanks are built to UL 142 Standard and are available with built-in containment walls. Capacities of our factory-made tanks range up to 50,000 gallons. We can also provide field-erected asphalt tanks with capacities starting at 1000 Bbl and up. Field erected tanks are built to API 650 standards.

The coils inside the asphalt storage tanks are separated into independent circuits, each with its own control valve. Tank coils are built to ASME code and CRN requirements as needed.



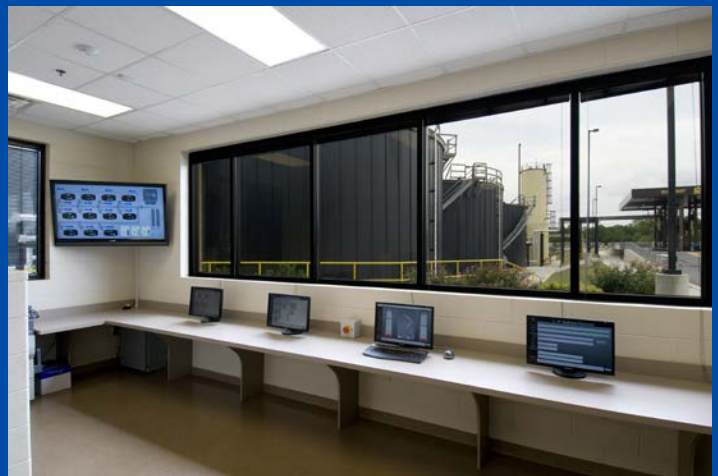
## Polymer Blending Systems



Astec offers polymer blending systems (including rubber blending systems) with a wide variety of options. We can include the system in a new plant or retrofit one to an existing plant.

Multiple configurations are available, including single pass or multi-pass systems. Polymer blending systems can be stationary or portable. You can produce 16 tons of liquid mix per hour with a single mixing tank configuration. Adding a second mix tank increases production up to 24 tons per hour.

## Terminal Controls



Astec terminal controls use conventional PC computers to monitor and control terminal equipment. The controls include interlocks to minimize the possibility of operator error.

A single monitor on a single computer can show a series of screens that display the status of the various terminal operations and components, or multiple monitors can be used to eliminate the need to switch between screens on a single monitor.

# TERMINAL COMPONENTS AND SERVICES



## Booster Heaters and Exchangers

Booster heaters boost the temperature of asphalt above its normal storage temperature by pumping the asphalt through the hot helical coil to raise its temperature. Booster heaters range in capacity up to 8 million Btu/hour.

Shell-and-tube heat exchangers are another option to boost asphalt temperature. They are not fired. They have tubes housed in a shell. Hot thermal fluid is pumped through the tubes to heat asphalt pumped through the surrounding shell.



## Motor control system

Astec control centers centralize all electrical power for the terminal and for the motor controls. The controls are housed in a series of electrical racks and panels, housed in a steel structure, enclosed with metal walls, ceiling and floor with included HVAC (heating, ventilating and air conditioning). It is designed to rest on a concrete foundation and remain separate from other buildings.



## Unloading Systems For Rail And Barge

Whether your liquid asphalt arrives via rail or barge, we can provide a heated unloading system that keeps the asphalt viscosity suitable for pumping.



## Steam Generators

Our steam generators provide heat for rail cars, eliminating the need for a fired-boiler. Their source of heat is heated thermal fluid. It circulates through tubes of the steam generator, heating water surrounding the tubes and converting it into steam. This has significant advantages over a fired boiler.

Steam generators eliminate the explosion hazards commonly associated with boilers. The life expectancy of steam generators is longer than for boilers.



# TERMINAL SERVICE AND SUPPORT

We back our products with 24/7 support from our in-house parts and service teams. Our engineers and sales staff are available for project consultation, and our factory-trained service technicians can install and setup your new Astec equipment for you.



**ASTEC™**

[www.astecindustries.com](http://www.astecindustries.com)