



CEI ENTERPRISES

FULL LINE



FULL PRODUCT LINE



CEI Enterprises specializes in heating, storage and mixing equipment for the hot mix asphalt (HMA) industry. We design and manufacture our products at our facility in Albuquerque, NM. We have been in business since 1969 and are a division of Astec

Industries, Inc. In addition to the products featured in this brochure, we offer the following equipment for production of HMA:

- Additive tanks
- Heat exchangers
- AC barrel melters
- Helical coil heaters
- AC metering systems
- AC tank vent condensers
- Polymer systems

CEI manufacturing facility and office in Albuquerque, NM



Vertical AC Tank

Provides optimum agitation, heating and storage for polymer-modified asphalt cement. Maintains mixture at higher temperatures to achieve proper blending. Agitator keeps the mixture in uniform suspension. Capacities from 10,000 to 35,000 U.S. gallons. Available without agitator for storage of virgin asphalt cement.



Jacketed Firebox Heater

Heats thermal fluid, which heats asphalt storage tanks, drum mixers, silos and other components of an HMA plant. High efficiency is achieved by use of a jacketed firebox with heat exchanger. Helical rings in the jacket of the firebox control circulation of thermal fluid in the jacket to eliminate hot spots and ensure optimum heat transfer. Outputs range from 1.2 to 6.3-million Btu/hour.



Portable AC Tank

Combines a hot oil heater with a coiled asphalt storage tank. Fully insulated. The tanks are available in 7 sizes with capacities from 5,000 to 35,000 gallons. The tanks have serpentine heating coils. Liquid asphalt in the tank is heated by hot oil flowing through the coils. The standard heater mounted on the gooseneck is a CEI-1000. It has an output of 1.2 million Btu/hour. When furnished with an optional 100 gpm pump, the heater can also heat silo cones, traverse conveyor, and a drag conveyor. Numerous options are available.



Horizontal AC Tank

Heats and stores liquid asphalt cement. Can also be used for other liquids, such as heavy fuel oil. Available in 8 sizes with capacities from 5,000 to 40,000 gallons. Tanks for stationary HMA plants are mounted on steel skids that bolt to concrete foundations. Tanks for relocatable plants have built-in steel foundations that rest directly on the ground. The tanks have serpentine heating coils. Liquid asphalt in the tank is heated by hot oil flowing through the coils. Fully insulated. Numerous options are available.



Electrically Heated Tank

Stores and heats asphalt cement, fuel, or other liquids. Available in 8 sizes with capacities from 5,000 gallons to 40,000 gallons. Steel pipes inside the tank contain electric heating elements to heat the contents of the tank. Fully insulated. Either skid-mounted (shown) or portable. Also available in vertical configuration.



Fuel Tank

Stores fuel for aggregate dryers. Available without insulation for storing unheated fuel. Available with insulation (shown) and fuel-pre-heater that uses hot oil (thermal fluid) to heat heavy fuel oils for aggregate dryers. Pre-heating lowers the viscosity of the oil so it can be atomized by the burner. The pre-heater increases the temperature 100 degrees F at a rate of 1,000 gpm. Available in 6 sizes from 10,000 to 35,000 gallons. Also available as a skid-mounted or trailer-mounted unit.



Double-wall, Double Compartment Portable Fuel Oil Tank with Pre-heater

Provides convenient environmental safety protection against accidental leaks or spills. Allows storage of two different types or volumes of fuel. Pre-heater heats heavy fuel oil as it is used by a heavy fuel oil burner. Tank is also available as a single compartment and/or stationary unit. Insulation is optional.



Asphalt Rubber Blending System

Mixes virgin asphalt with ground tire rubber (GTR). Can mix 35 tons an hour using up to 20 percent GTR. The system is portable and consists of a mixing unit and one or more reaction tanks, all equipped with wheels and suspension for highway travel. The mixing unit (shown right) mixes GTR with liquid asphalt. The reaction tank (shown below) holds and agitates the mixture until it is properly cured for use in making hot mix asphalt (HMA).



Asphalt Rubber Reaction Tank

Used with asphalt rubber blending system. The tank has two compartments and includes an electrically driven auger. Available in capacities up to 25,000 gallons. The tank has serpentine heating coils. Liquid asphalt in the tank is heated by hot oil flowing through the coils and the tank is fully insulated.



Booster Heaters

Both heaters boost the temperature of AC as it flows through them. The horizontal unit has finned pipes heated by hot oil that flows through them. The hot oil must be provided by an external source, such as a thermal fluid heater. The vertical unit is a helical coil heater which has a burner and requires no other heat source. It heats the AC as it flows through the helical coil. Both are used to boost the temperature of AC when it is lower than required for making mix. This may happen when making HMA that includes rubber or polymers. Used at AC terminals and HMA plants.



Heavy Fuel Pre-heater

Heats heavy fuel oil as it is needed by a heavy fuel oil burner. Because viscosity is lowered by pre-heating, the heavy fuel oil can be atomized by the burner. The pre-heater increases the heavy fuel oil temperature 100° at a rate of either 700 GPM or 1000 GPM depending on the model. Thermal fluid is used to heat the pre-heater. Internal tank mounting of a pre-heater less insulation and skin is also available.



AC Calibration Tank AC Meter System

Tank (left) calibrates the liquid asphalt metering system (right) of a drum mix plant. Vertical or horizontal styles, each with a capacity of 1,000 gallons, are available. Tank is mounted on load cells that have an LED readout. The jacketed asphalt line on the tank is heated with the hot oil provided by the thermal fluid heater used to heat other plant components. The tank is not insulated, as it is not used for asphalt storage. AC meter system available in pump pushing pump and mass flow styles.



Water Tank

Stores and heats water with a direct fired burner and fire tube assembly. Tank shown is a horizontal, single compartment, 5,000 gallon stationary with insulation and skin. Burner allows a 100°F temperature rise in eight hours. Either stationary or portable units are available in sizes up to 35,000 gallons.



NOMAD™ HMA PLANT

A low cost plant for production of hot mix asphalt (HMA). Designed for the international market. Fully meets the needs of contractors who do a lot of small projects such as driveways and parking lots. But it is also well suited for secondary roads, especially those in rural areas. And it can also be used effectively when widening existing freeways. The plant produces up to 130 tons (118 metric tons) of hot mix asphalt an hour.

Four Units

The plant has four units: One is a portable tank unit that heats and stores liquid asphalt. Another is a portable drum mix unit that dries aggregate and mixes it with liquid asphalt cement. Another unit transports the mix to an elevated hopper so it can be loaded into trucks. A portable control house is also included. The portable units are trailer-mounted and are easily moved from one job site to another. The hopper unit is easily transported by a conventional flat-bed trailer. Cranes are not required for setup. A loader is all that is needed to set up pieces hauled on the trailer.



Mixer Unit

Dries aggregate and coats it with asphalt cement to produce HMA. Major components are aggregate bins, aggregate feed system, burner, drum, exhaust fan, and dust collection system. The drum functions as a combination dryer and mixer. All are mounted on a single trailer frame. A tractor with a fifth wheel attachment can transport the unit.



Our practical knowledge and experience enables us to assist you in selecting the right equipment and options. We offer a wide selection of standard equipment models. We can also build to order to meet your specific needs.

The products you get from us are built to exacting standards, calibrated, and pre-tested at our factory prior to shipment.

And throughout the life of your CEI products, you can count on our support when you need it. Our trained technicians provide prompt on-site service. And our parts specialists keep a large inventory of parts so you are assured of fast delivery.

So, when you get your equipment from CEI you can expect quality, efficiency, service and satisfaction.



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an Astec company

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