

ASPHALT HOTBOX RECLAIMER COMPARISON

KM International vs The Competition



Trailer Frame Construction Channel Steel vs Tubular Steel

KMI Trailer Construction: Combination of 6" & 8" Channel Steel
Competitors: Tubular Steel Construction

Channel steel construction allows for 100% weld coverage and gussets to be placed in key structural areas. Tubular steel is prone to internal corrosion and often times goes unidentified until there is a catastrophic trailer frame failure.



Key Component Placement Burner and Key Component Protection

KMI: Burner is in steel enclosure mounted above the trailer frame. This ensures the burner is completely protected from external elements.

KMI: Battery and hydraulic fluid reservoir located in a steel, lockable enclosure in the front of trailer frame tongue area.

Competitors: Burner is mounted even with or below the frame leaving it susceptible to damage caused by road debris and salt. Battery is located even with the trailer in a plastic enclosure again susceptible to damage caused by external elements such as road debris, and salt.



Loading Doors Front to Back Loading Door Configuration

KMI: Loading doors open front to back. This configuration allows for the burner and other key components to be protected when loading at the asphalt plant. This also makes it easier to maneuver in and out from under the asphalt plant silo.

Competitors: Loading doors open side to side. If the asphalt silo misses the asphalt hopper when loading there is nothing protecting the front of the asphalt trailer and key components.



Control Panel Digital Unitronics PLC Control Panel (Diesel Model)

KMI: Digital Unitronics PLC Control Panel. Standard Display Functions:

- > Current Asphalt Temp
- > Asphalt Temp Setpoint (50-350F)
- > Combustion Chamber Temp
- > Battery Voltage and Low Voltage Warning
- > 7 Day Programmable Timer

Competitors: Control panel only includes asphalt temp setpoint, and battery voltage indicator. Low temp thermostat and on delay burner are separate options ranging from \$1,000-\$1,500 each.



Trailer Fenders

Robust Work Platform for Safety

KMI: Trailer fenders are constructed of 11G diamond plate steel. This allows for the fenders to be used as a work platform for viewing and cleaning the inside of the asphalt hopper.

Competitors: Fenders are constructed of a lower gauge steel and because the doors open side to side the user is forced to stand on the front of the trailer to view the inside of the asphalt hopper and prevents easy cleaning on the inside of the hopper. This configuration in many cases causes safety and liability concerns.



Shovel Doors

Single Door vs Dual Doors (4 Ton Models)

KMI: Two (2) fully insulated shovel doors. Dual shovel doors allow for crew members to work simultaneously without interfering with each other. Also because there are two smaller doors instead of one large door there is less heat escaping from inside the asphalt hopper.

Competitors: One (1) large shovel door. Forces crew members to wait until the other has shoveled decreasing the efficiency of the patching operation.

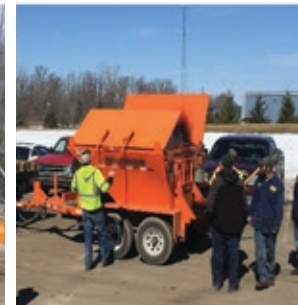


Loading Door Opening Handles

Ease of Use and Minimal Effort

KMI: Equipped with cantilevered opening handles requiring less than 15lbs of applied pressure to open. Cantilevered handles also allow for the user to open the doors from a safe position standing directly next to asphalt hotbox.

Competitors: Equipped with T-Bar handles to open hopper lids. T-Bar handles require a considerable amount of downward force to leverage opening the lids. T-Bar handles also require the user to step away from the hotbox putting them in danger of passing traffic.



Diesel Burner System

Single Burner vs Dual Burner

KMI: Single 105,000BTU Burner. Optimal heat source for reclaiming bulk stored, uncompacted, virgin hotmix asphalt and maintaining asphalt temperatures for extended periods of time.

Competitors: In some cases competitors claim that the addition of a second 105,000BTU burner will enable the hotbox to "recycle" asphalt millings and RAP asphalt material. Because an asphalt hotbox is a static heat source the ability to "recycle" junk asphalt is unachievable whether the unit is equipped with one burner or two.

Because asphalt can only absorb heat at a certain rate the addition of a second burner increases the likelihood of creating "hot spots" and scorching the material inside the hopper.

The asphalt recycling process can only be achieved in a true asphalt millings recycler machine **NOT** in a static asphalt hotbox.

Insulation System

Air Jacketed vs Oil Jacketed

KMI: The asphalt hopper is an air jacketed system that works off of convection/conduction heating. The unit is triple wall constructed with high temp fiberglass insulation. KMI hotboxes are also equipped with a reverse polyhedron triangle in the center of the hopper to create even and consistent heat throughout.

Oil Jacketed Design: An oil jacket design contains an inner wall filled with a heated oil to maintain asphalt temps inside the hopper. This oil jacketed design has NOT been shown to provide any additional heating benefits. The oil jacketed design also adds unnecessary weight to the unit, and creates a grave safety hazard if the oil reaches its flash point, or if there is a puncture in the hopper wall the oil will leak, again causing safety concerns. An oil jacketed hopper also increases the maintenance costs.

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