The HDE Maintenance trailer is a compact unit which can carry a variety of tools to complete quality infrared asphalt repairs for small and medium size jobs.

**Reclaimer**
The HDE asphalt hot box reclaimer can be used 365 days a year whether it is using material from the local asphalt plant or recycling left-over material to create hot patching material in the middle of winter. Re-heating left over material eliminates the need of disposal and can drastically reduce the amount of cold patch material needed to repair problem areas. The re-heating process can take 8-12 hours depending on the ambient temperatures and the amount of asphalt that is being heated. By the use of a digital temperature controller you are able to heat the asphalt safely until it is pliable and workable. The controller prevents any burning of the asphalt by turning the heaters off at pre-set temperature (e.g. 300 degrees F).

*May show Options*

**Infrared Heater**
The HDE 2TMT comes with an HDE P300 (6’x3.3’) Infrared Asphalt Heater, capable of softening the asphalt within five to ten minutes. The heater easily slides on and off the rear of the trailer using the ramp in minutes.

**Equipment Storage**
In front of the hot box allows for storage of the asphalt compactor, wheel barrows, crack sealant meter, and an extra Infrared Heater.

**Front Ramp**
The 4’ side load ramp allows for easy loading of wheel barrows, compactors and any additional tools and equipment.

**Waste Compartment**
The above deck waste compartment is capable of holding up to 24 cubic feet of material. It is spring loaded to allow for easy manual dumping of the material.

**Tool Rack**
Built in tool rack holds all the essential tools used for patching such as rakes, shovels, scrapers, asphalt lutes, and rejuvenator sprayers.

**Trailer**
The 16’ long trailer is built 5” x 2” tube frame and 5200lb torsion axles, sealed wiring harness with Grote LED lights and front and rear ramps.
**Standard features**

- Equipment Platform
- 12 volt trickle charger
- 4-100 pound LPG quick fill tank
- Tool storage rack
- Hour/Battery meter
- Grote led lighting
- Electric Brakes

**Options**

- Surge Brakes
- Pylon Holder
- Strobe Light
- Directional Arrow Board
- Tool Rinse Tank

*May show Options

The HDE asphalt maintenance trailer is a turnkey infrared asphalt repair machine that will heat up and soften a localized area of the surface course asphalt, allowing for the area to be re-worked and compacted fixing any surface deterioration. The highly efficient infrared heaters can soften the top 2.5" of asphalt to the original mixing temperatures in 5 to 10 minutes without burning the asphalt.

Potholes, surface cracks, bad joints, bird baths, catch basins, and manholes can be economically repaired with minimal time expended and minor traffic re-routing throughout the year. The HDE asphalt heaters have also proven well for pre-heating of the asphalt for cold weather paving.

The unit is equipped with a 8.2"x 6.6" heater deck and a 2 ton reclaimer. The unit has capacity for four 100 pound liquid propane cylinders. This will operate the heating deck and reclaimer for approximately 15-20 hours.

**HDE 750 2TMT**

**ASPHALT MAINTENANCE TRAILER**

The HDE 2 TON MAINTENANCE TRAILER hotbox reclaimer will maintain proper working temperature of the asphalt for up to 48 hours. The hopper is heated by two infrared heaters. A 24-volt digital temperature controller monitors the hopper and powers the ignition systems as it requires to keep the material pliable. The automatic spark ignition has a built in safety that will shut the gas off if the flame goes out. The HDE infrared heaters allow for uniform heat without overheating the asphalt. Ventilation in the box allows the hot air to move evenly around the box. Vents inside the hopper allow hot air from the heating chamber to heat the top portion of the hopper. The dual hopper allows for better heat distribution when being used as a hot box and assists in the reclaiming of cold asphalt. The loading doors open to form a chute for easy loading of virgin hot mix at the plant or chunks of cold asphalt for reclaiming. Unloading doors lock in the up position to prevent accidental closing during unloading. The sloped dual hopper allows easy removal of hot mix.

The HDE Asphalt Hot Box Reclaimer is capable of both maintaining the temperature of virgin asphalt and reheating cold material to workable temperature. The HDE Asphalt Hot Box Reclaimer can be used 365 days a year whether it is using material from the local asphalt plant or recycling leftover material to create a hot patching material in the middle of winter. Reheating leftover materials eliminates the need for disposal and can drastically reduce the amount of cold patch material needed to repair problem areas. The reheating process can take 8-12 hours depending on the ambient temperatures and the amount of asphalt that is being heated. By using a digital temperature controller we are able to heat the asphalt safely until it has reached the desired temperature. The controller prevents any burning of the asphalt by turning the heaters off at a preset temperature (e.g. 300 degrees F).

- Waste asphalt is loaded into the top of the reclaimer. The thermostat is set to the desired temperature and heated for a period of 8-16 hours depending on the condition of the material.
**Control System**

The industry first PLC/HMI control panel allows even more control and monitoring of the entire system. The advance function includes the following:
- Reclaimer temperature control
- Reclaimer and heater hour meter
- Hydraulic controls
- Safety lock-out
- High/Low fire timer

**Fuel Usage**

A standard 8.2 x 6.6 heating deck has 10 heaters that can be shut off individually. With all 10 heaters running the machine would cost about $10 - $16/hour. That equals about an average of 2.5 100 lb tanks per day. By controlling the number of heaters that are used and the pressure of the heaters the amount of fuel used can be increased or reduced.

**Fuel Vaporization**

The C.G.A. approved vaporizer converts the liquid propane to vapor gas. Unlike conventional vapor heating systems, a liquid system will not freeze up and can operate on 1 propane tank at a time with temperatures of -15°F (-25°C). Operating on liquid propane allows the truck to carry less propane and can empty a tank completely.

**Trailer Suspension**

All HDE trailers are equipped with Dexter TORFLEX® Rubber Torsion Axles.

**Full Hydraulics**

The heater deck raises and lowers hydraulically by two 3” cylinders that are controlled from either side of the trailer. The reclaimer doors also open hydraulically. A built in safety (Velocity Fuse) allows for the heater deck to lower slowly in case of a hose rupture.

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**Roller Platform**

The HDE Roller Lift (patent pending) is designed to lift any type of single drum asphalt roller or plate tamper effortlessly from the ground and place it on the deck of the truck. The unit is hydraulically powered and is controlled by a single push button located beside the lift. The roller is secured by a clevis and locked into position onto the truck.

**Optional Side Shift**

The Optional Side Shift On the HDE heating panel allows for greater maneuverability and less wasted time when positioning over the patch. This plays an important roll when working up against curbs and buildings.

**Adjustable Height On Heat Panel**

The HDE Heating Panel can adjust in height from 10" from the asphalt surface to 2" to the asphalt surface. The height of the heating panel has a direct relation to how deep the infrared rays penetrate into the pavement surface. This aids in the intensity of the heat into the pavement.

**Heat Zones**

The infrared rays are emitted from the entire heater surface area, this eliminates cold spots and allows for more heat to be directed at the pavement while using less fuel.

The HDE 750 has up to 10 infrared heaters that can all be controlled individually. This unique design allows for a variety of heat patterns and the most flexibility when patching.
INFRARED ASPHALT PATCHER
HDE 1200 & P1600

The HDE P1200 & P1600 Infrared Asphalt Patcher is a multi-functional asphalt heater. It can economically repair potholes, surface cracks, bad joints, bird baths, and around catch basins and manholes. It can also preheat roads and bridge decks prior to paving, waterproofing and line-painting. It is easily towed to the job site as a trailer and then maneuvered over patch areas with a small tractor or walk-behind.

The highly efficient infrared heaters can soften 2.5" of surface course asphalt to temperatures of 220+F in 5-10 minutes. This enables scarification, re-leveling and compaction without burning the surface of the asphalt. With up to 16 independent heat zones the operator is able to various size patches simple by turning the heaters off that are not required. This reduces propane costs and time required to complete the repair.

The HDE P1200 & P1600 Asphalt Patcher has been used successfully in northern climates where paving becomes a problem in colder months of ambient temperatures below specifications set out by the agencies. If asphalt cools too quickly before proper compaction, problems such as raveling, non-uniform consolidation and rutting, high moisture penetration and increased cracking may occur. A contractor can avoid costly scheduling delays waiting for paving approval on ambient temperatures, and improve quality by using a HDE 1600 Infrared Asphalt Patcher to per-heating the base asphalt prior to surface course application.

The base model (HDE p1200) is available with a 12.6’ x 6.6’ (83.2 square feet) Infrared Heating Panel with up to 12 independent heat zones. With the optional wing system the HDE P1200 can be upgraded to a HDE P1600 which gives you a 16.6’ x 6.6’ (109.5 square feet) Infrared Heating Panel with 16 independent heat zones.
Patented Cartridge System
HDE’s replaceable ceramic cartridge allows for easy replacement of the heating element. Typical cartridge life is about 1,500 hours and can be changed in less than 20 minutes. This unique design prevents the heat from transferring to the heater plenum. This extends the life of the heater.

Trailer Suspension
All HDE trailers are equipped with rubber torsion axles.

Adjustable Temperature
HDE’s heaters are capable of running at pressures from 5 PSI up to PSI. HDE’s unique High/Low system allows the operator to heat the patch with a higher temperature for the first 5 minutes followed by 5 minutes of low heat. This allows the operator to reduce the fuel usage while the heat is penetrating deeper into the already heated patch.

Adjustable Height on Heat Panel
The infrared rays are emitted from the entire heater surface area, this eliminates cold spots and allows for more heat to be directed at the pavement while using less fuel. The HDE P1600 has up to 16 infrared heaters that can all be controlled individually. This unique design allows for a variety of heat patterns and the most flexibility when patching.

Vaporizer
The C.G.A. Approved vaporizer converts the liquid propane to vapor gas. Unlike conventional vapor heating systems, a liquid system will not freeze up and can operate on one propane tank at a time at temperatures of -25°C. Operating on liquid propane allows the truck to carry fewer tanks and allows you to empty a tank completely.

Fuel
A standard 8.2’ x 6.6’ heating deck has 10 heaters that can be shut off individually. With all 10 heaters running the machine would cost about $10 - $16/hour. That equals about an average of 2.5 100 pound tanks per day. By controlling the number of heaters that are used and the pressure of the heaters the amount of fuel used can be reduced.