



FALCON ASPHALT REPAIR EQUIPMENT

EQUIPMENT CATALOG

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ABOUT

FALCON ASPHALT REPAIR EQUIPMENT

For over 20 years Falcon has established ourselves as the industry leader in manufacturing and distributing asphalt hot boxes. Asphalt patching is essential in maintaining roadways, parking lots, and other paved surfaces. We believe that when repairing roads, the right equipment matters, and our customers agree. That is why our machines are used by thousands of local and state agencies as well as many contractors across the United States and Canada.

Falcon manufactures machines from 2 tons of asphalt capacity to the industry's only 10-ton asphalt hot box. We offer many configurations of machines including trailer mounts, slip-ins, truck mounts and our new dedicated asphalt patch truck. All these variations ensure that you can get the machine that fits your operation. Falcon manufactures all hot boxes in our state-of-the-art Michigan manufacturing facility.

Falcon hot boxes and recyclers give you unparalleled versatility. You can transport cold mix, keeping it warm during the winter months and making it easier to work with. You can transport hot mix and keep it hot all day and you can hold hot mix overnight, keeping it warm for up to 72 hours. You can also reclaim unused hot mix, eliminating the waste of good material, and recycle asphalt chunks and millings. This makes Falcon the most versatile machine you can buy for pavement preservation.



WHAT SETS FALCON APART FROM THE COMPETITION?

PATENTED HEAT MANAGEMENT SYSTEM

The key component of any asphalt hot box is how it delivers heat and how it holds that heat within the box. Falcon uses a patented seamless one-piece combustion chamber to achieve 92% fuel efficiency.

INDUSTRIES LONGEST WARRANTY

We use high-quality components, parts, and steel to ensure years of uninterrupted service life. This is why we are comfortable standing behind our equipment with a lifetime frame warranty and a two-year machine warranty, much longer than anyone else in the industry.

PATENTED VOLTAGE INTERRUPTION PROTECTION (V.I.P)

Our V.I.P. automatically prevents the burner from operating below the burner manufacturer's required voltage. This helps prevent misfires and keeps your machine out on the road and not in your shop.

CURBSIDE SAFETY

We manufacture all our equipment with your operator's safety in mind. All primary functions of the hot box are on the curbside of the machine allowing your crew to operate the full function of the machine without having to worry about traffic.

INNOVATION

Our engineering team continues to push the limits on what is possible with an asphalt hot box. Equipment found on all Falcon hot boxes such as the seamless one piece combustion chamber, digital control and V.I.P. cannot be found on any other hot boxes in the industry. We also manufacture the industry's only 10-ton hot box and 4-ton asphalt patch truck that does not require a CDL driver.

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HOT BOXES

TRAILER MOUNTED, ASSORTED SIZES

Falcon asphalt hot box trailers deliver unmatched performance and best-in-class durability to maximize your crew's productivity. Our asphalt trailers can transform your patching operations with improved ergonomics, enhanced efficiency, and advanced technological features. Falcon trailers have the widest array of optional equipment in the industry; these can be purchased when the machine is being built, or years after purchase and simply bolted onto the machine.



2-TON HOT BOX

The Falcon 2-ton hot box trailer offers a cost-effective way of transporting asphalt and ensuring it stays at the optimal working temperature throughout the day. This machine is ideal for crews that don't have a need for large quantities of asphalt but still want the benefits of a Falcon hot box.

GVWR	7,000 lbs (Dump box): 9,810 lbs
Material Capacity	4,000 lbs of material
Number of Burners	1 Becket Burner
Hopper Construction	Triple wall insulated – air jacketed
Unloading Doors	Insulated Guillotine, 16"H x 33"W
Loading doors	Manual 50"L x 41"W



3-TON HOT BOX

The Falcon 3-ton can be built with one or two burners. Since it is under 10,000 lbs GVWR, workers do not need a class A CDL to operate but are still able to recycle material quickly with an optional second burner.

GVWR	9,995 lbs
Material Capacity	6,000 lbs of material
Number of Burners	1 or 2 Becket Burners
Hopper Construction	Triple wall insulated – air jacketed
Unloading Doors	Insulated Guillotine, 16"H x 33"W
Loading doors	Manual 57"L x 41"W

STANDARD EQUIPMENT ON ALL TRAILERS

- LED Lighting Package
- 3 Position Tool Holder
- Burner
- Diagnostics
- Hopper Access Step
- 16’ Tubular Steel Frame
- Release Agent Basket
- 7-day timer
- Triple Wall Construction



4-TON HOT BOX

The 4-ton is the most common hot box purchased. The Falcon 4-ton hot box trailers make it easy for your work crews to repair utility cuts, patch asphalt and fix potholes. A wide range of equipment options provides unparalleled versatility.

GVWR	14,000 lbs
Material Capacity	8,000 lbs of material
Number of Burners	1 or 2 Beckett Burners
Hopper Construction	Triple wall insulated – air jacketed
Unloading Doors	Insulated Guillotine, 18”H x 33”W
Loading doors	Manual 63”L x 41”W



6-TON HOT BOX

The 6-ton is the largest model of trailer that Falcon offers. It is built with two standard burners so all 6-ton machines are able to quickly recycle material and keep 100% of the hot mix at ideal temperatures throughout the work day—and up to 72 hours overnight.

GVWR	20,000 lbs
Material Capacity	12,000 lbs of material
Number of Burners	2 Becket Burners
Hopper Construction	Triple wall insulated – air jacketed
Unloading Doors	Insulated Guillotine, 18”H x 33”W
Loading doors	Manual bi-fold (hydraulic option)

PATCH TRUCK

4-TON CAPACITY

Falcon's newest addition to its equipment lineup is a dedicated 4-ton asphalt patch truck. Unlike most patch trucks currently on the market, Falcon's patch truck does not suffer from issues such as reduced uptime, expensive repairs, and extensive skilled labor requirements. Like all our other equipment, the dedicated patch truck is built with operational simplicity in mind.

We designed and built our patch truck in the same way we build all our equipment – with your road crew in mind. The Falcon non-CDL patch truck brings all the advantages of our trailer-mounted machine and truck mounts together in one super compact, efficient piece of pothole patching equipment.

Since our patch truck does not use heavy components such as augers or conveyors it allows us to up-fit the machine with additional equipment needed to make a complete patch. A tack tank with a spray system, compactor with a basket and hoist, spoils bin, torch, and a wash down system are all standard options available on a Falcon patch truck.

In addition to our standard 4-ton hopper, 2-ton, 3-ton and 6-ton hoppers are available, however specs and requirements are subject to change.

COMPATIBILITY

Falcon engineered our patch truck to work with several different Class 6 trucks, including:

- Freightliner MD6 106
- Hino 268A
- Kenworth T270
- International MV
- Ford F750
- Mack MD6
- Peterbilt 536/7

You can bring your own truck, or we can supply one for you.



GVWR	25,999 lbs
Material Capacity	8,000 lbs of material
Number of Burners	1 Becket Burner
Hopper Construction	Triple wall insulated – air jacketed
Unloading Doors	Hydraulic Insulated Guillotine, 18"H x 33"W
Loading doors	Hydraulic 64"L x 88"W

WHY FALCON BECAME THE STANDARD FOR ASPHALT PATCH TRUCKS

No CDL Required One of the biggest advantages to a Falcon patch truck is it does not require a hard-to-find CDL driver due to not having an auger or conveyor. These components add a substantial amount of weight to the machine. Instead, Falcon uses a much lighter gravity dump system to deliver asphalt material to the pothole or utility cut.

Maximized Uptime Unlike the competition, Falcon patch trucks don't run off an auger delivery system. Falcon utilizes a gravity dump system just like on our trailer-mounted or slip-in hot boxes. With fewer moving parts than other patch trucks, you'll experience increased uptime, availability and lower maintenance and operating costs.

Heat Material Overnight Falcon's patch truck allows your workers to hold material overnight. They simply need to turn the internal temperature down to keep the material warm (180-200 degrees for hot mix) and then turn the heat back up before returning to work.

Faster Material Delivery Falcon asphalt patch trucks have the largest unloading doors on the market. This means workers have the flexibility to determine how much material they want and at what speeds they will get it. Those same large doors also allow for easier access to the hopper for cleaning. Simply put, Falcon has the fastest material deliver in the industry.

Fuel Efficiency Because Falcon asphalt patch trucks do not have hydraulic motors or pumps to turn an auger, they also burn less fuel. That adds up to significant cost savings over an 8-hour shift. This machine is also equipped with the patented and standard Falcon combustion chamber.



TRUCK MOUNTED

SLIP-INS, HOOK LIFT, CHASSIS MOUNT

Falcon manufactured truck-mounted asphalt hot boxes come in all sizes: from 2-ton up to the industry's only 10-ton machine. So no matter the size of your operation, Falcon has the machine for you. You'll save time and money while reducing labor requirements with a truck-mounted hot box from Falcon!

They enable your work crews to easily maneuver around in crowded cities instead of hauling a trailer behind the truck. This allows you to easily access all roadways and alleys. It also provides you with the ability to use trucks that you own. Since Falcon manufactures chassis mounts, hook lift machines and standard slip-ins that fit in the back of a dump truck, we can make use of almost any truck in your existing fleet.



SLIP-INS



CHASSIS MOUNT



HOOK LIFT

Type	Hotbox Size	Potholes Fixed
2-Ton	9' x 9' x 4"	80
3-Ton	11' x 11' x 4"	120
4-Ton	12' x 13' x 4"	160
6-Ton	15' x 16' x 4"	240
8-Ton	18' x 18' x 4"	320
10-Ton	19' x 20' x 4"	400

**Machine specification will depend on the type and size of the truck being used.*



HOT BOX VS. DUMP TRUCK

THE BENEFITS OF THE FALCON HOT BOX

✓ PROPER SHOVELING HEIGHT

The awkward shoveling height of dump trucks leads to decreased productivity and the potential for increased worker injuries. Falcon hot boxes are designed with our shoveling apron to be at the proper height for workers on all machines including our truck mounts and patch trucks.



✓ FLEXIBLE MATERIAL DELIVERY OPTIONS

In conjunction with the proper shoveling heights, our hot boxes dump feature gives flexibility in material delivery speed and volume thanks to the largest gravity-assisted unloading door on the market.

✓ COST SAVINGS

Since the asphalt being used in a hot box is at the optimal temperature, it stays in the hole much better and reduces the wasted trips to re-fill the same hole. When our machines are built with our recycling package it allows year-round access to hot mix asphalt, saving you money by reducing the amount of expensive cold mix asphalt used by your crews.

✓ ABILITY TO KEEP ASPHALT WARM

Even in warmer climates, hot mix asphalt begins to set up quickly in the back of a dump truck and can become unworkable within just a few hours. A Falcon hot box allows you to keep asphalt at the optimal temperature all day and even hold that unused material overnight (up to 72 hours) and use it the next day.

✓ ADDITIONAL OPTIONS

Falcon trailer-mounted machines and patch trucks are designed to be customized to your needs. With access to multiple machines and equipment options you get the machine that you want — something not possible on a standard dump truck.

OPTIONS

AVAILABLE ON ALL HOT BOXES

A major advantage of a Falcon Hotbox is the multitude of options that are available. Since Falcon builds trailer frames with pre-drilled tabs, many options can be purchased easily – even years after the machine was built.

Options packages that are very common on trailer mounted hot boxes:

TACK PACKAGE

- 30-Gallon Heated Tack Tank
- Hose Reel
- Spray System

COMPACTION PACKAGE

- Hoist
- 24 x 24 compaction basket



LED arrow board and strobe warning light



Dump function and tack tank



Hydraulic loading and unloading doors



ADDITIONAL OPTIONS

- Dump function
- LED night work lights
- Recycling package (optional second burner)
- LED arrow board
- Strobe warning light
- Spare tire mounting bracket
- Toolbox – 10" W x 10" H x 25" L
- Tool holder
- Hydraulic loading doors
- Hydraulic unloading doors
- Electric overnight heat
- Spoils bin
- Oil jacket
- Extended hitch (2 or 3 feet total)
- Propane heat

**Additional options available upon request*

FALCON'S FOCUS ON SAFETY

Falcon has a profound sense of responsibility to design equipment that keeps your crews safe while out doing road repairs. That's why all parts and components are thoroughly thought out and placed in meaningful locations. Falcon places the key components to operate our hot boxes on the curbside of the machine.



Key machine functions on the curbside include:

- Digital Control Panel
- Material unloading door handle
- Tack Tank and Spray System
- Hopper Access Step
- Shovel/Tool Holder
- Dump Controls

Falcon also offers multiple light options that allow you to easily meet any safety lighting requirements required by your state or local agency.

We also design our machines to be safe for you when you conduct maintenance requirements. We provide safety props for our hydraulic cylinders on all dump trailer and patch trucks. This allows for easy and safe access to the underside of the hopper. Trailer-mounted machines are equipped with a diamond tread plate, when applicable, on the frame of the hopper that allows for easy and safe access to the hopper for cleaning and maintenance.





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DEALER NETWORK

Falcon has a vast dealer network around the country. Use the dealer locator on our website to find your local Falcon dealer.



PURCHASING CONTRACTS

Here at Falcon, we understand the complex purchasing and bidding requirements faced by municipalities, counties, and DOTs. To simplify this process for our customers, we have been awarded multiple state and national purchasing contracts. By using any of our contracts for purchasing, you are likely to satisfy the bid requirements of your state. This allows any government agency or municipality across the country to purchase Falcon equipment without entering a costly and time-consuming bidding process.

