



**BCRS-501**

**Crumb Rubber Asphalt Spreader**

**Ground Tire Rubber (GTR)**



## **BearCat's Industry Leading Firsts**

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Full Cab Control

1-Foot Spray control

Internal Poppet Spray Valves

Computer Rate Control

Limit Switches on Wings

Double Fold Wings

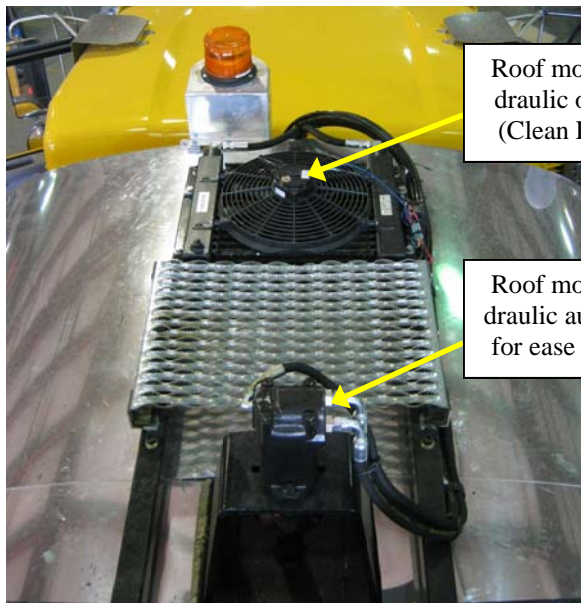
All Electric Tack Truck

Self Contained Crumb Rubber Trailer

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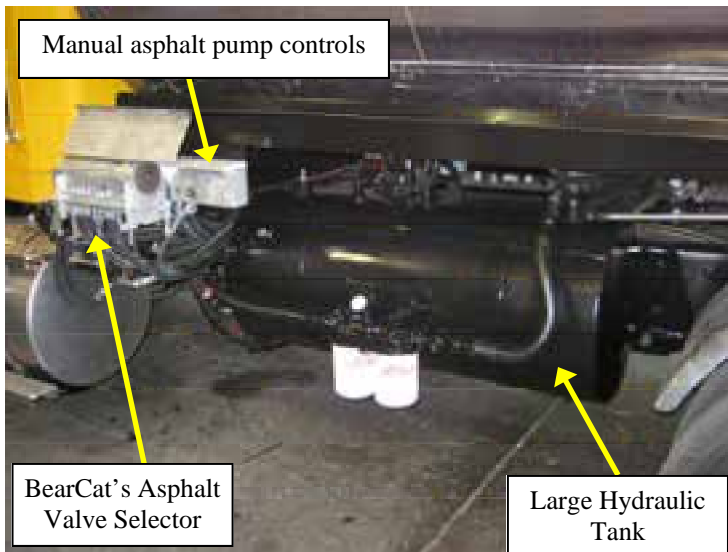
*BearCat Mfg. Inc. "Innovation by Design"*

# BCRS-501 Single Auger Crumb Rubber Asphalt Spreader Truck Features



Roof mounted hydraulic oil cooler. (Clean Location)

Roof mounted hydraulic auger motor for ease of service



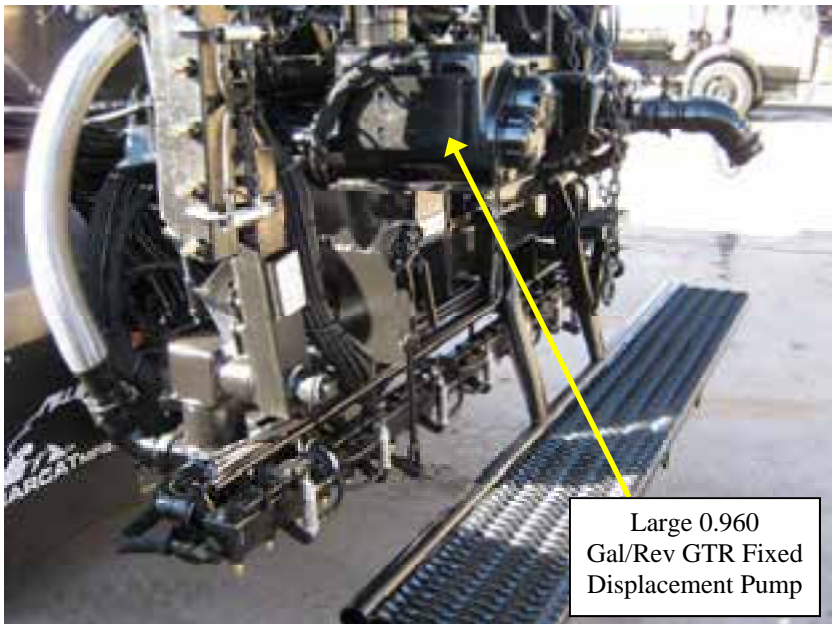
Manual asphalt pump controls

BearCat's Asphalt Valve Selector

Large Hydraulic Tank



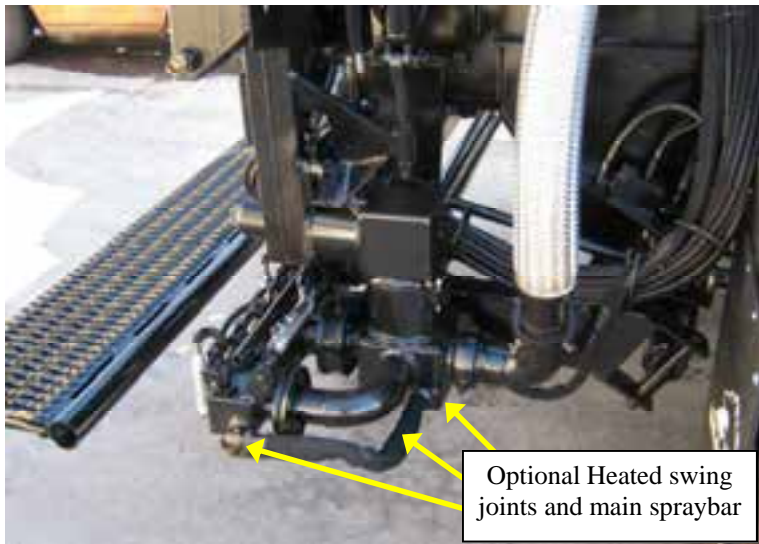
Optional Rear Engine PTO w/90deg. gear-box so hyd. pumps are easy to service.



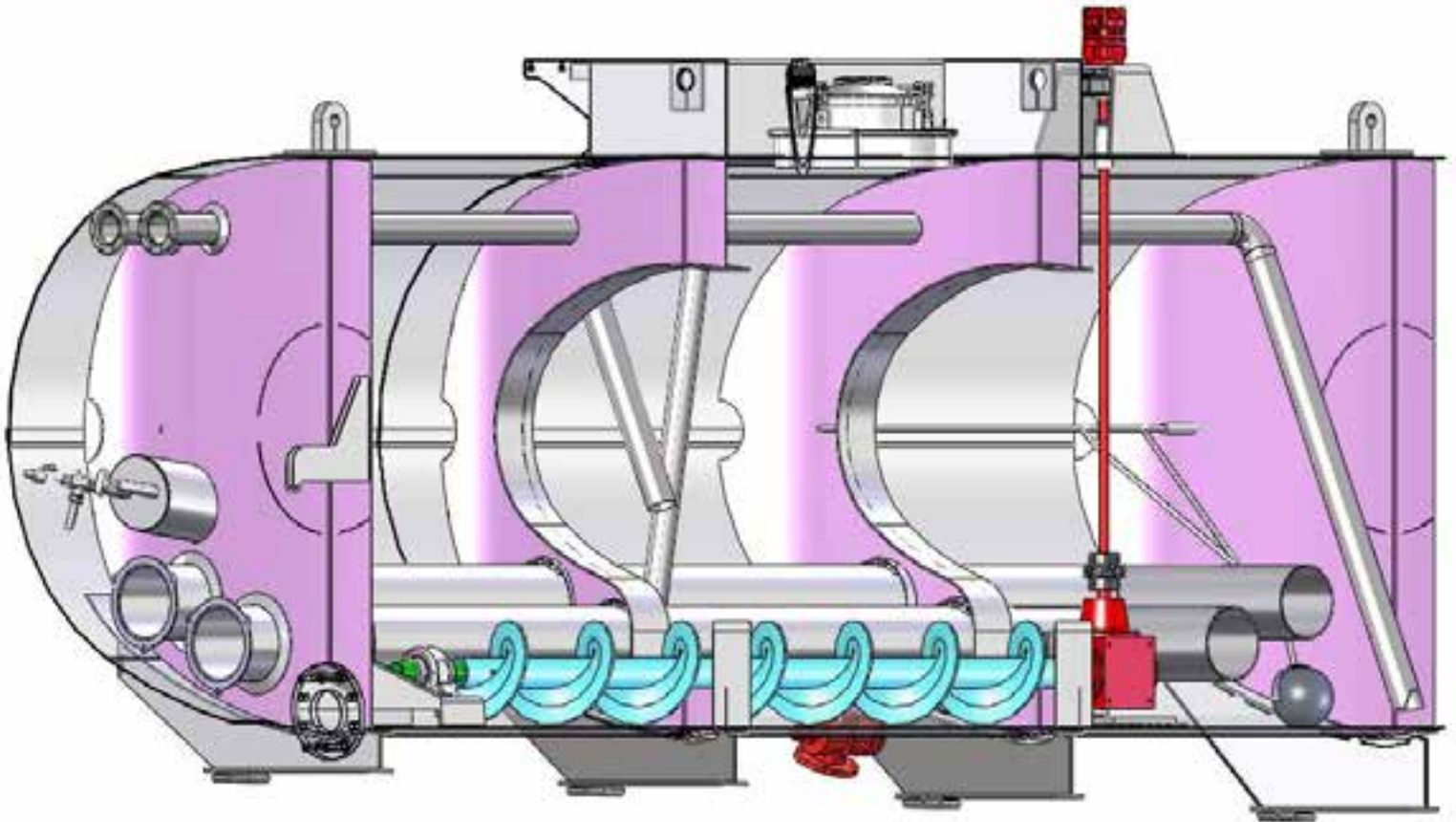
Large 0.960 Gal/Rev GTR Fixed Displacement Pump



Optional Front Engine mounted pumps are easy to service.



Optional Heated swing joints and main spraybar



## BCRS-501 Single Auger GTR Asphalt Spreader Truck Features

- Up to 3,100 Gallon (11,735 liter) Tank
- 14" (35.6 cm) reversible auger
- 90deg. Gearbox which allows the hydraulic motor to be mounted on the roof tank, which also keeps the front tank head clean for a tight cab to tank distance.
- Inside modified tank bolsters to facilitate good GTR circulation and simplify tank construction.
- Two full length heat tubes (propane or diesel fired).
- Optional Hot Oil heat traced system; to heat all asphalt valves, spraybar and filter-screen housings.
- Large heated 5" tank valve.
- Heated side load valve for fast plant loading.
- Roof mounted hydraulic oil cooler.
- The industry wide respected BearCat CRC control system.
- Tight-cab design is conducive to shorter wheel bases.
- Bearcat's exclusive spraybar pre-charge design to prevent streaking at the start line.
- The same BearCat CRC cab control system you have come to trust on the BC501 is used on the GTR spreader systems.
- This truck is designed to spread rubberized asphalt containing 15% to 22% "Crumb Rubber" but can also spread conventional asphalt products.



### Spray Valves

Internal poppet spray valves are immersed in hot asphalt, providing instant spray when valves open. Uniform spray patterns are assured and clogs are eliminated.

# BCRS-501 Single Auger

## Crumb Rubber Asphalt Spreader Truck Specifications & Benefits

### Product pump and components

- Product pump 0.960G/rev (3.64 L/rev) 400GPM (1515 LPM) maximum, (large pump inlet porting).
- Large 4" (10 cm) pump intake plumbing.
- Large 5" (12.7 cm) heated tank valve.
- Large capacity suction strainer.
- Maximum asphalt system operating temperature, 450°F (232° C) w/stainless hoses.
- Spray bar serviceable screen.
- BearCat's pneumatic asphalt valve selector.

### Truck requirements for hydraulic pump drive system , (NOTE: must be able to transfer 100hp).

- Front-engine mount PTO (FPTO) through grille front mounted hydraulic pump package.
- Optional: Live Rear-Engine PTO (RPTO) 90deg. gearbox drive system for the hydraulic pump package.

### Spraybar and components

- Full circulating spraybar.
- Break away wings to prevent damage if an object is stuck while spreading product, shear pin replaceable in less than 1 minute.
- Spraybar 16' (4.9 m) w/1' (0.3 m) cuts.
- 8' (2.5 m) main bar w/4' (1.25 m) single fold wings.
- Stainless steel, 3" (7.62cm) bar feed hoses.
- Fully internal in the asphalt spray poppet valves.

### Hydraulic System

- Heavy duty 4.57 cu. in. (75cc) Sauer-Danfoss hydrostatic piston pump.
- LSHT motor 12.2 cu. in. (200cc) w/external loop flushing valve.
- Auxiliary pump, 4.0 cu. in. (65cc) open loop piston pump, used for the auger, and hot oil circulating pump.
- Feed auger is driven by a LSHT 6.1cu. In. (100cc) motor, driven through a 2 to 1 90deg. gearbox.
- Spraybar and wing raise lower, spraybar side shift functions supplied by a V10 vane pump.
- Hydraulic tank 50 gal. (190 liters) w/suction strainers & return-line filters.
- Roof mounted large capacity hydraulic oil cooler w/electric fan.

### Tank Specifications

- Up to a 3,100 gallon (11,735 liter) tank
- Shell: HR sheet steel 10gauge.
- Baffles: Mild steel plate 3/16" (4.76mm).
- Heads: Mild steel plate 3/16" (4.76mm).
- Insulation: mineral wool 2" (5cm).
- Skin: Bright aluminum 0.050" (1.27mm).
- False head: Aluminum 0.125" (3.2mm).

### Heating system

- Two 8" (20.5 cm) u-type heat tubes.
- Two 487,500BTU diesel burners.
- Optional two 403,400BTU propane burners.
- Optional: (HOT) Heat transfer oil system for pump case, plumbing, spraybar swing joints & valves.

### Auger

- Flow auger: 12" (30.5cm).
- Auger is reversible.
- Bearings: 2 7/16" (6.19cm)
- Gearbox: 90deg. 2 to 1 ratio, gearbox supports one end of the auger.

### Computer Rate Control System (CRC)

- CRC control, cab mounted for full spreading operation from drivers seat.
- Capable of controlling the by-pass air pressure from the cab.
- Control of the auger speed and direction from cab.
- Capable of pre-charging the spray bar to prevent drizzling at spread start line.

### Passenger side remote mirror

- Bearcat air operated from cab remote mirror.