

BC502 Asphalt Spreader



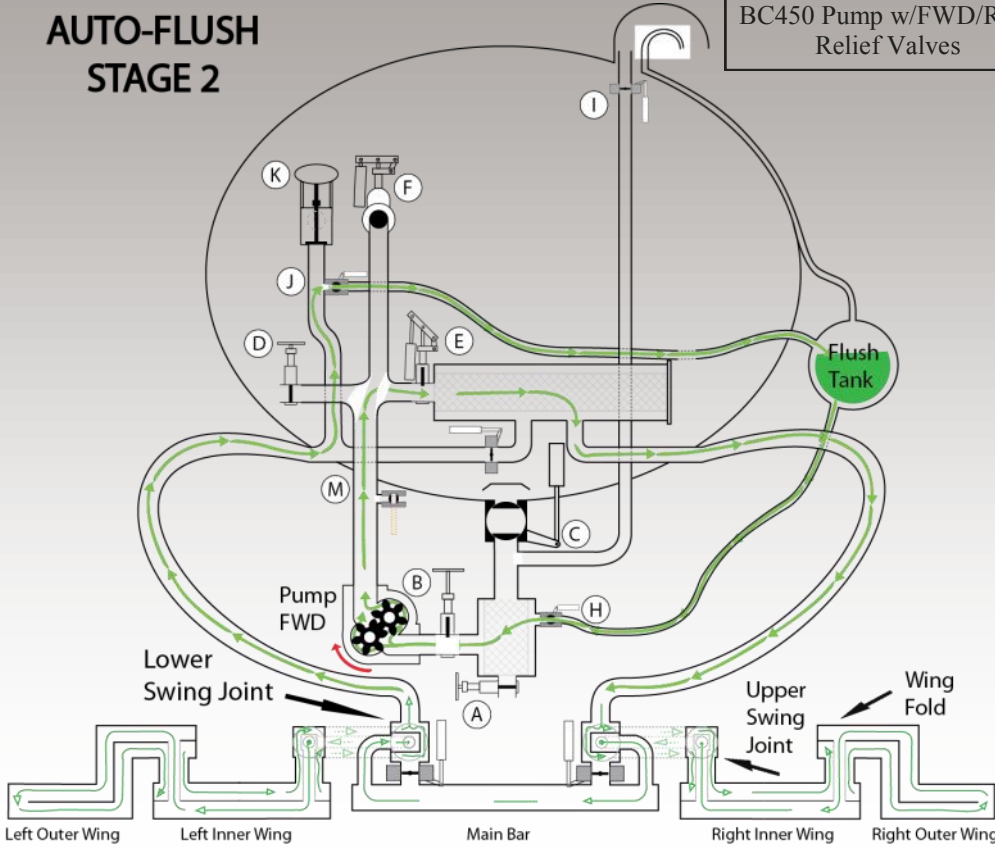
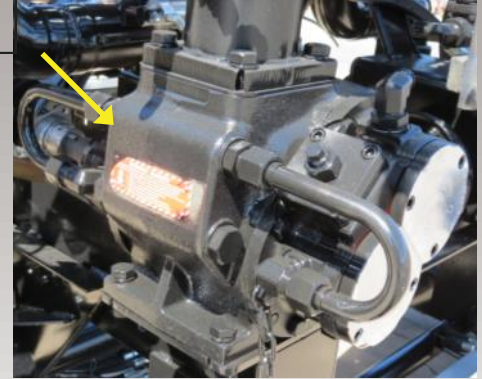
BearCat Mfg. Inc. "Innovation by Design"

BC502 CRC Asphalt Spreader

The BC502 is designed from the ground up to do precision asphalt spreading from 1' to 24'

AUTO-FLUSH STAGE 2

BC450 Pump w/FWD/REV Relief Valves

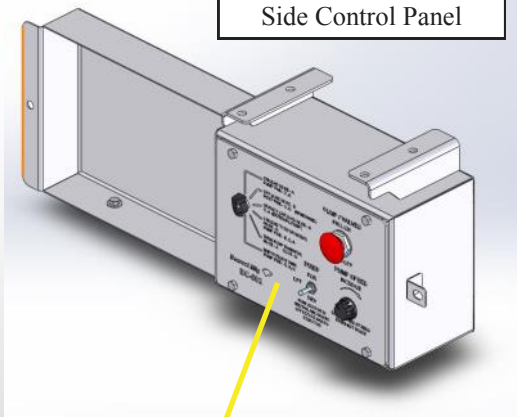


Pump Drive System

This is the heart of BearCat's Asphalt Spreader Technology!

We start with a heavy duty Sauer-Danfoss closed loop hydrostatic drive system, that is controlled with our industry leading CRC control system. The new CRC used in the BC502 is designed to be more accurate, easier to setup, easier to use and easier to read your results, then ever before.

Side Control Panel



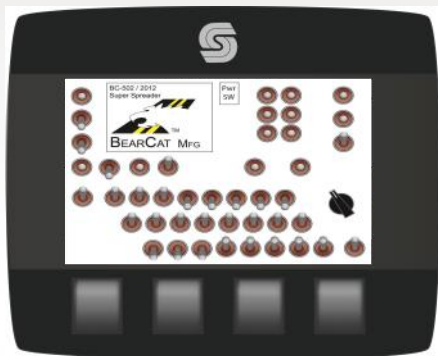
Let us custom design a solution to fit your needs. Call BearCat today.



BearCat



Proudly Made in Wickenburg, Arizona USA

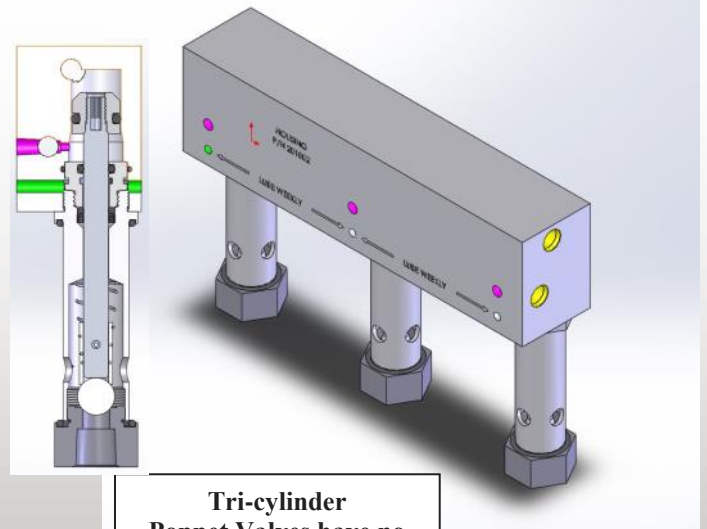


CRC Features

- All spread, circulate & load functions are selected from cab or side control. The correct asphalt valve is automatically opened or closed, keeping the operator away from the rear of the truck during this part of operations.
- The taper switch allows the operator to perform a complete taper cut from one side of the spray bar to the other, with the use of one toggle switch.
- Ready switch: Up to one minute before you are ready to start spreading, toggling the ready switch will allow the CRC to calculate the required pump speed and get the pump to the proper speed, preventing flooding or streaking.
- GSY selection to the tenths.
- Onboard diagnostics.
- Four pump sizes are available to better fit your spread rate needs. Pumps available are 0.300, 0.450, 0.600, & 0.960 gallon/rev.
- The Valve selector, selects the correct asphalt valves and locks out any asphalt valves that are not needed for the selected function.
- Color 3.5" 320x240 color LCD display.
- Easy to use setup, diagnostics and information pages are easily accessible.

Tri-Valve Manifolds

- Internal poppet spray valves are immersed in hot asphalt providing instant spray when valves open.
- Fully enclosed system that is not effected by outside asphalt and road grime build-up
- Rugged construction with no requirements for adjustments
- Optional finger stops available for selective actuation of poppet valves.



**Tri-cylinder
Poppet Valves have no
external moving parts**

BearCat's Industry Leading Firsts

Full Cab Control
1-Foot Spray control
Marker Valves

Computerized Rate Control
Internal Poppet Spray Valves
Self Contained Crumb Rubber Trailer

Double Fold Wings
Limit Switches on Wings
Tri-Valves

BCRS-502 Super Spreader

BC502 Asphalt Spreader Truck Specifications & Benefits

Product pump and components

- Product pump 0.450 G/rev (1.70 L/rev) 400 GPM (1515 LPM) max, (large pump inlet porting).
- 4 in (7.62 cm) pump intake plumbing.
- 4 in (7.62 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 Exclusive Electronic asphalt valve selector.
- Optional pumps for .3, .6 or .9 Gal/rev
- Optional larger plumbing sizes
- PTO mounted hydraulic system standard.
- Optional: Front-engine mount PTO (FPTO) through grille front mounted hydraulic pump package.
- Optional: Live Rear-Engine PTO (RPTO).

Spraybar and components

- Full circulating spray-bar.
- Break away wings to prevent damage if an object is stuck while spreading product, shear pin replaceable in less than 1 minute.
- Spray-bar 12 ft - 24 ft (3.6 m - 7.3 m) w/1 ft (0.3 m) cuts.
- 8 ft (2.5 m) main bar w/4 ft (1.25 m) single fold wings.
- Rubber asphalt, 3 in (7.62cm) bar feed hoses.
- Opt. Stainless steel, 3 in (7.62cm) bar feed hoses.
- Fully immersed asphalt spray poppet valves.

Hydraulic System

- Heavy duty 4.57 cu. in. (75 cc) Sauer-Danfoss hydrostatic piston pump.
- High Pressure Piston motor 1.53 cu. in. (25cc) w/internal loop flushing valve.
- Hydrostatic motor runs through a 3.5 to 1 gearbox for precision control of light shots.
- Spray-bar raise/lower, wing raise/lower, spray-bar side shift functions supplied by a V10 vane pump.
- Hydraulic tank 20 gal (75 liters) w/suction strainers & return-line filters.

Tank Specifications

- Truck tank sizes from 1,000 to 5,000 gallon (3,785 to 18,925 liter)
- Shell: HR sheet steel 10 gauge.
- Baffles: Mild steel plate 3/16 in (4.76 mm).
- Heads: Mild steel plate 3/16 in (4.76 mm).
- Insulation: mineral wool 2 in (5 cm).
- Skin: Bright aluminum 0.050 in (1.27 mm).
- False head: Aluminum 0.125 in (3.2 mm).
- Optional light weight tanks available

Heating system

- Two 8 in (20.5 cm) u-type heat tubes.
- Two 487,500 BTU diesel burners.
- Optional two 403,400 BTU propane burners.
- Hot water from the truck cooling system used for heating asphalt pump case, plumbing, & valves.
- Optional electric heating available for overnight or on the fly heating.

Computer Rate Control System (CRC)

- CRC control, cab mounted for full spreading operation from drivers seat.
- All electrical connectors, & controllers IP67 rated (pressure wash-down).
- Any crimp type connectors are also soldered to prevent corrosion.
- 12 VDC control system.
- Computer Rate Control (CRC), uses closed loop control to control the spread rate of the asphalt pump.
- Cab control of the GSY, spray-bar asphalt valves, diagnostics, spray-bar raise, lower & side shift, & auto spray-bar flush.
- All Computer nodes use a two wire CAN communication system.
- The air-valve banks are CAN communication as well, which greatly reduces wiring.
- Bearcat left side mounted computer controlled Valve Selector.

Passenger or Driver side remote mirror

- Optional Bearcat air operated from cab remote mirror.

As a part of product improvement, BearCat Mfg. Inc. reserves the right to make changes in any of BearCat's product specifications at any time. BearCat Mfg. 2017 v2.0

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