

BC-2010/CRC TANDEM

SuperChipper



BearCat's Industry Leading Firsts

One Man Operation

Computer Rate control (CRC)

Front Wheel Drive

Variable Width Spread Hopper

No Spread Roll

Tow-Bar Package

Ultra-sonic Belt Sensors

Automotive Control Anti-stall Drive Control

BearCat Mfg. Inc. "Innovation by Design"

BC-2010/CRC Tandem

Chip spreading widths from 1' to 20'

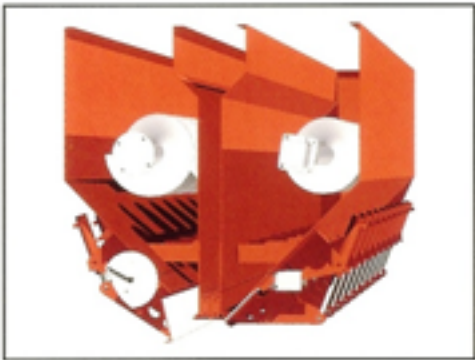
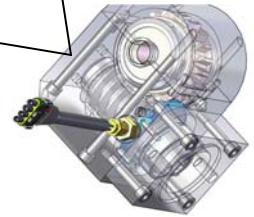


BC2010/CRC Tandem

- 275HP Cummins QSB6.7L Tier3 6cyl. diesel.
- Large engine & hydraulic cooling systems to insure normal operating temperature even on the tough jobs.
- Single operator station, swings left & right.
- Front wheel drive (Optional 4WD).
- State of the art Computer Rate Control (CRC).
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CAM Gearbox

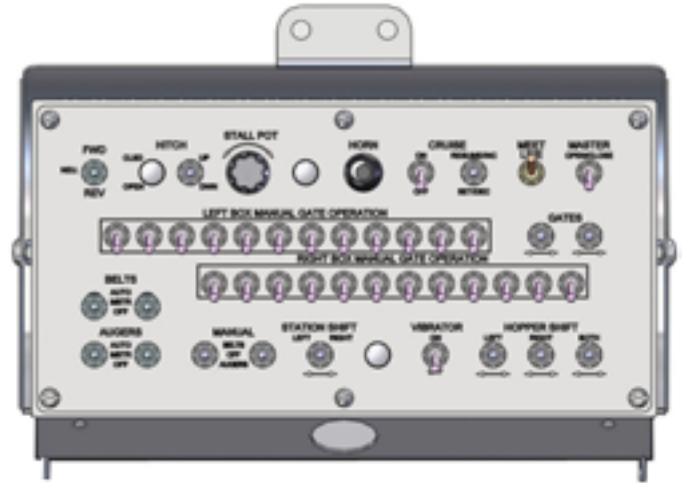
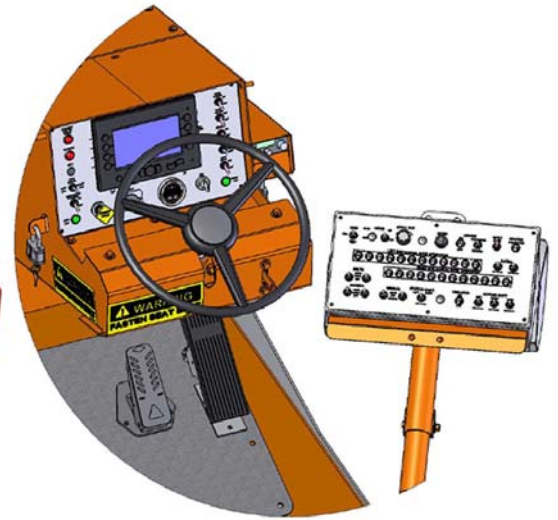
- Heavy-duty 20:1 Hydraulic driven.
- Non-contacting Hall-effect % open sensor.
- Reliable and accurate control of the gate position CAM.



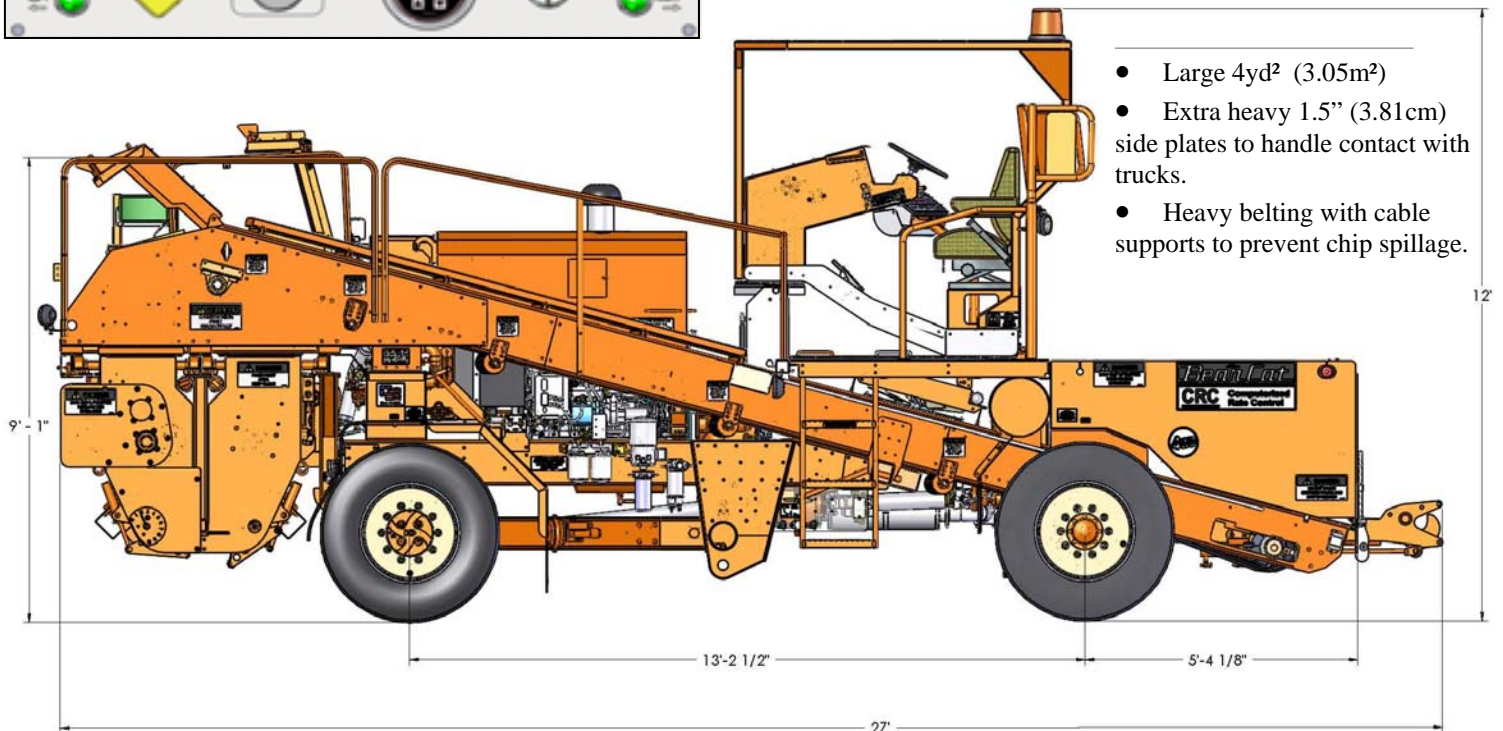
Spread Hopper

- HSLA steel construction tandem hoppers extend from 10' to 20'.
- A 14" abrasion resistant auger moves materials to the outside gates.
- No agitator or spread roll to wear or limit production.
- Oversized objects or material pass through the largest opening in the industry.
- The tandem design allows for straight line starts and minimal aggregate waste.





- State of the art Computer Rate Control (CRC).
- Operator convince & adjustability of control positions designed into the BC2010/CRC chip spreader.



- Large 4yd² (3.05m²)
- Extra heavy 1.5" (3.81cm) side plates to handle contact with trucks.
- Heavy belting with cable supports to prevent chip spillage.

Engine and Drive-train

- Cummins Tier3 QSB6.7L 6-cylinder Diesel.
- 275HP @ 2,300RPM.
- 730ft-lb of torque @ 1,500RPM.
- Air compressor; engine mounted Wabco 17 CFM @ 2400RPM.
- Wabco System Saver 1200 series 12Vdc air dryer.
- Dry type air cleaner, disposable element type oil filter.
- Hydrostatic Transmission (6,000psi / 410Bar):
 - 130cc variable displacement piston pump.
 - 160cc variable displacement piston motor.
 - 2-speed (high/low) transfer-case (Electric / Air Shift).
 - Automotive control w/HP & Anti-stall control; drives like a truck with and automatic transmission.

Axles, brakes and tire

- Front Wheel Drive, 14.769:1 planetary drive/steer axle, 42deg turn, 31,800lbs (14,425kg) w/rubber suspension. Front axle integrated hydraulic steering cylinder.
- Steering system: Hydraulically powered orbital type, no mechanical linkage, with an engine mounted vane type power steering pump with a 6gpm flow control cover
- Solid tube type 5" diameter trailer axle, 25,000lbs (11,340kg) capacity, with oil filled wheel bearings.
- Optional: four wheel drive. Uses a modified 23,000lb truck axle and a BearCat differential mounted gear-box.
- Brakes, front: air over hydraulic:
 - Air over hydraulic master cylinder.
 - Service brakes; spring released, hydraulic applied, multi-disc wet.
 - Parking brakes; spring applied air-released disc, mounted on the front drive shaft.
- Brakes, rear:
 - Service brakes; 16.5" x 7" drum, S-cam air brakes.
 - Parking brakes; Spring anchor-lok.

- Tires: 385/165R X 22.5 highway tread
- Wheels: disc type 10 hole, front and rear are interchangeable.

Hydraulic system

- 130cc pressure compensated axial piston pump, system pressure set at 2300psi (160bar)
- Hydraulic tank; 80 gallon (300liter), closed to atmosphere 5psi (0.35bar) positive pressure system, to prevent moisture ingress.
- Large 27" x 36" (68.5cm x 91.4cm) oil cooler, with large 2 1/2in. (6.35cm) plumbing with a large 24" (61cm) dia. temperature controlled hydraulic fan. One 15gpm constant flow circulation filtering/cooling pump.
- Filters: 10micron return, one water absorbing, suction 100mesh.
- Belt motors; 400cc LSHT, direct coupled to the head-pulleys.
- Auger motors; 200cc LSHT, direct coupled to the augers.

Dimensions

- Length: 27' (8.23m) Width: 10' (3.05m)
- Height: 12' (3.65m) w/cab removed 9' 1" (2.75m)
- Wheelbase: 13' 2 1/2" (4.03m)
- Weight empty (shipping): 25,800lbs (11,703kg)

Material Handling Specifications

- Rear hopper is 120" (305cm) wide, with struck capacity of 4 cubic yards (3.05 cubic meters).
- Belts; two heavy duty 30" (76cm) 2 ply conveyor belts with 35° troughing rollers.
- Spread hoppers; infinitely variable from 10' (3.05m) to 20' (6.1m), capacity 4.0 cubic yards (3.05 cubic meters) combine spread hoper total.
- Extensions; 1' (0.305m) left & right.
- Heavy duty spread gate CAM gear box w/non-contact hall effect position feedback sensor.
- Cut off gates: Pneumatic powered 12" wide gate, with 1 1/2" x 6" (3.8cm x 15.2cm) air-cylinders.
- Hitch: Hydraulic positive non binding, latch and release.

Electrical system

- 12Vdc 160amp belt drive alternator w/internal regulator.
- Two 12Vdc Group 31-MHD / 950cca batteries.
- Computer Rate Control (CRC), Sauer-Danfoss Plus1 CAN network communication, w/automotive style wire harnesses.
- Operator display advanced color TFT 240 x 400 pixel, to display fuel level, hydraulic temperature, engine temperature, engine RPM, hour meter, charging system voltage.
- System diagnostics displayed on the color TFT display:
 - Battery voltage low/high, computer node communication okay, pictorial display of switch position, all sensor voltage or pulse (frequency) values, hydraulic & engine over-temp log, hydraulic oil level low log.
- All electrical connectors, & controllers IP67 rated (pressure wash-down).
- Any none IP67 rated connectors are crimped and soldered to prevent corrosion of terminals and copper wiring.
- Field replaceable automotive style wiring harnesses.
- Individual and tapper switch control of gate open and close.
- Belt operation selection; OFF/Auto/Auto w/Master Switch ON.
- **Optional:** High output low current draw light package.

Single seat operator station

- The operator station hydraulically moves left/right and can be used on the left, right side or anywhere in between.
- Dash panel is directly in from of the operator.
- All chip spreading function control switches are on a control panel accessible while the operators arm is on the right side arm rest.
- Seat adjustments; fore & aft, backrest angle, and height.
- Accelerator/Brake pedal adjustment; fore and aft.
- Steering wheel adjustment; 30deg of angle.
- Operator station includes a rain/sun cover/roof.