



CHIPSPREADER

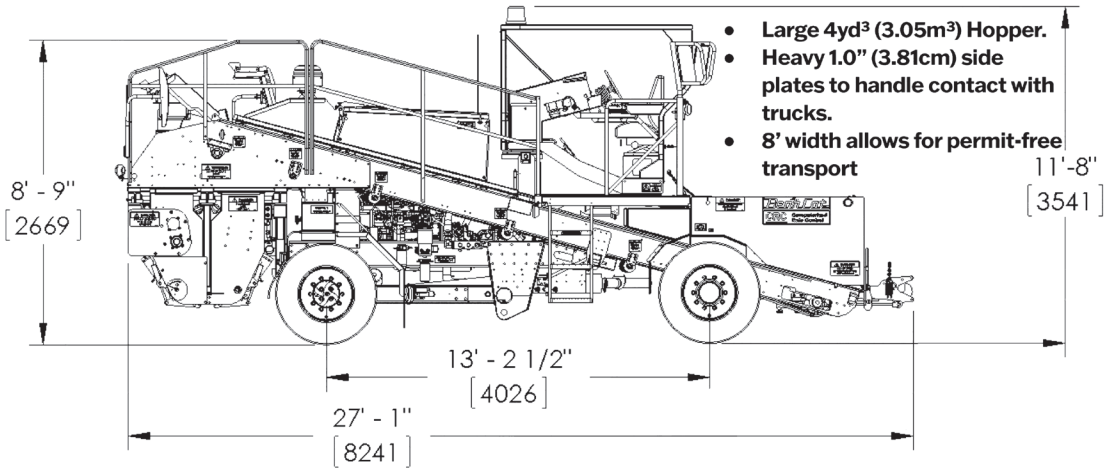


CHIPSREADER FEATURES

- Front-wheel or four-wheel drive
- Turbocharged diesel engine with 260 HP
- Computer control application rate and speed control
- 24" wide hydrostatic driven conveyor belts
- 10 to 20 foot front spread hopper with hydrostatic driven spread roll
- Fixed or variable hopper
- Individual gates for effortless radius corners
- Folding batwings for improved material usage
- Manual sliding console/seat assembly

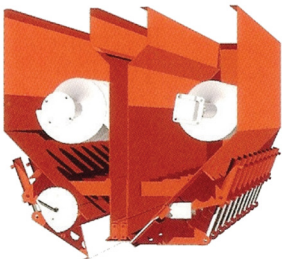
CRC Tandem 8' - 16' (Chip spreading widths from 1' to 16')

- Large 4yd³ (3.05m³) hopper.
- Heavy 1.0" (2.54xm) side plates to handle contact with the trucks.
- 8 Foot width allows for permit-free transport.



CRC Tandem 10' - 20' (Chip spreading widths from 1' to 20')

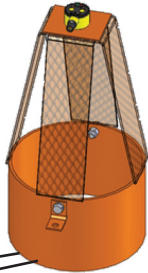
- Large 4yd³ (3.05m³) hopper.
- Extra heavy 1.5" (3.81xm) side plates to handle contact with the trucks.
- Heavy belting with cable supports to prevent chip spillage.



Spread Hopper

- HSLA steel construction tandem hoppers extend from 10' to 20' (on the Super Chipper. Stealth Chipper extends from 8' to 16').
- A 14" abrasion resistant auger moves materials to the outside gates.
- No agitator or spread roll to wear or limit production.
- Oversized objects pass through the larges openings in the industry.
- Front wheel drive (Optional 4WD).
- The tandem design allows for straight line starts and minimal aggregate waste.

- **Low Maintenance** Non-contacting ultra-sonic belt sensors provide measurement of the chip pile height for belt speed (on/off) control.



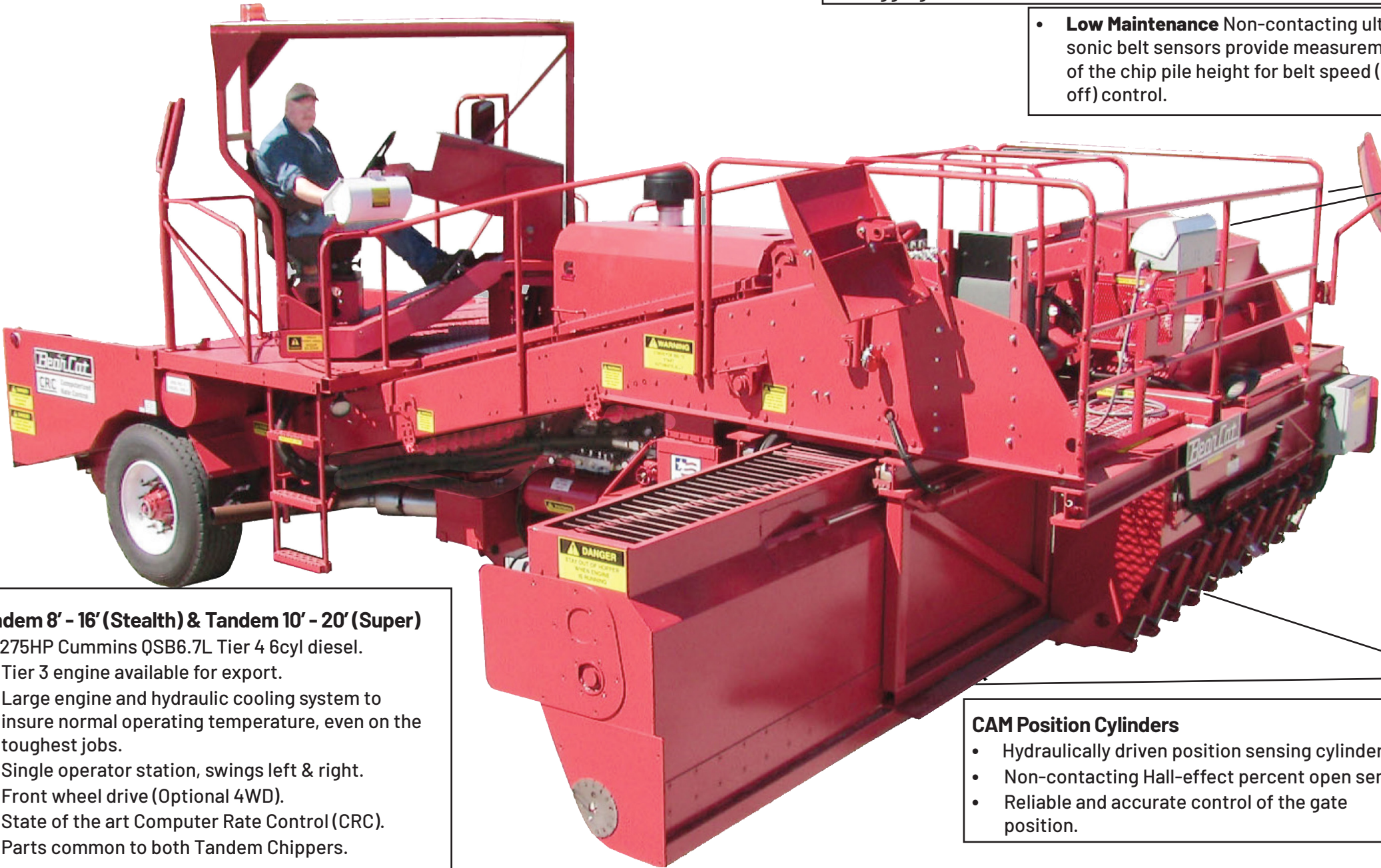
Optional tow-bar package allows for towing at highway speeds, behind most 3 axle trucks.



BEARCAT

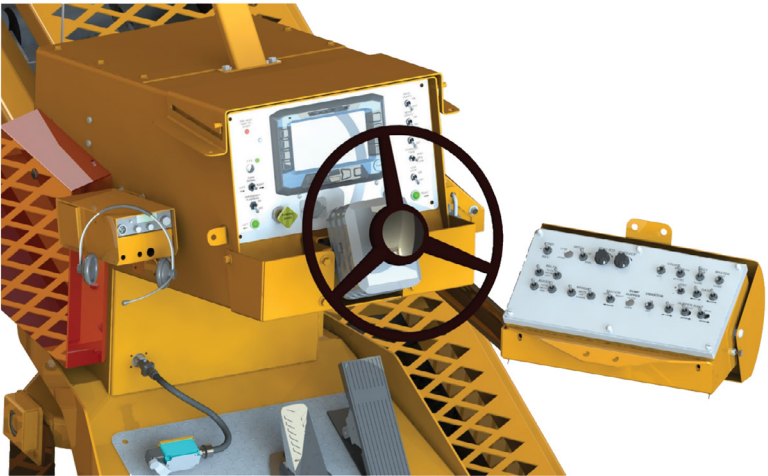


Proudly made in Wickenburg, Arizona USA



Tandem 8' - 16' (Stealth) & Tandem 10' - 20' (Super)

- 275HP Cummins QSB6.7L Tier 4 6cyl diesel.
- Tier 3 engine available for export.
- Large engine and hydraulic cooling system to insure normal operating temperature, even on the toughest jobs.
- Single operator station, swings left & right.
- Front wheel drive (Optional 4WD).
- State of the art Computer Rate Control (CRC).
- Parts common to both Tandem Chippers.



CRC

- State of the art Computer Rate Control (CRC).
- Operator convenience & adjustable control positions designed into the ChipSpreader.
- On-board Diagnostics.

CAM Position Cylinders

- Hydraulically driven position sensing cylinders.
- Non-contacting Hall-effect percent open sensor.
- Reliable and accurate control of the gate position.



CRC Tandem 8' - 16' & 10' - 20' Specifications

Engine and Drive-Train

- Cummins Stage 5 QSB6.7L 6-cylinder Diesel.
- 275 HP @2,300 RPM.
- 730 ft-lb of torque @ 1,500 RPM .
- Air compressor; engine mounted Wabco 17 CFM @ 2400 RPM.
- Wabco System Saver 1200 series 12 VDC air dryer.
- Hydrostatic Transmission (6,000 psi / 410 Bar):
 - 130 cc variable displacement piston pump.
 - 160 cc variable displacement piston motor.
 - 2-speed (high / low) transfer case (Electric / Air Shift).
 - Automotive Control w/HP & Anti-stall controls; drives like a truck with an automatic transmission.

Axles, Brakes, and Tire

- Front Wheel Drive, 14.769:1 planetary drive/steer axle, 42 degree turn angle, 31,800 lb (14,425 kg) 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 in diameter trailer axle, 25,000 lb (11,340 kg) capacity, with oil filled wheel bearings.
- Optional: Four wheel drive. Uses modified 23,000 lb 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 disc pack.
 - Parking brakes; spring applied air-released disc, mounted on the front drive shaft.
- Brakes, rear:
 - Service brakes; spring released, hydraulic applied, multi-disc wet disc pack.
 - Parking brakes; spring applied air-released disc, mounted on the front drive shaft.
- Tires: 385/165R X 22.5 highway tread.
- Wheels: Disc type 10 hole, front and rear are interchangeable

Hydraulic System

- 130 cc pressure compensated axial piston pump, system pressure set at 2300 psi (160 bar).
- Hydraulic tank; 100 gallon (300 liter), closed to atmosphere 5 psi (0.35 bar) positive pressure system, to prevent moisture ingress.
- Large 53 in x 35 in (135 cm x 89 cm) oil cooler, with large 3 in (6.35cm) plumbing with a large 24 in (61 cm) dia. temperature controlled hydraulic fan. One 15 gpm constant flow circulation filtering/cooling pump.
- Filters: 10 micron return, 100 mesh suction.
- Belt motors: 400cc LSHT, direct coupled to the head-pulleys.
- Auger motors: 624cc LSHT, direct coupled to the augers.

Dimensions

- Length: 27 ft (8.23 m) Width: 8 ft (2.45 m) or 10 ft (3.05m)
- Height: 12 ft (3.65 m) w/cab removed 9'1" (2.75 m).
- Wheelbase: 13' 2 1/2" (4.03 m)
- Weight empty (shipping): 8 ft - 25,300lbs (11,475kg)
10 ft - 25,800lbs (11,703kg)

Material Handling Specifications

- Rear hopper is 8 ft (2.45 m) folded, 10 ft (3.05 m) wide, **{10-20 ft chipper is 12 ft (3.05 m)}** with struck capacity of 4 cubic yards (3.05 cubic meters).
- Heavy 1 in (2.54 cm) **{10-20 ft chipper is 1.5 in (3.81 cm)}** side plates to handle contact with trucks.
- Belts: two heavy duty 20 in (50.8 cm) **{10-20 ft chipper is 30 in (76 cm)}**, 2 ply conveyor belts with 35° troughing rollers.
- Belts speed (on/off) is controlled by ultrasonic position sensors measuring chip level in the chip spreading box.
- Spread hoppers; infinitely variable from 8 ft (2.45 m) to 16 ft (4.9m) capacity 3.2 cubic yards (2.45 cubic meters) combined spread hopper total. **10-20 ft chipper is infinitely variable from 10 ft (3.05m) to 20ft (6.1m), capacity 4.0 cubic yards (3.05 cubic meters)**
- Extensions; 1 ft (0.305 m) left and right available.
- Heavy duty spread gate CAM position cylinder w/non-contact position feedback sensor.
- Cut off gates: pneumatic powered 12 in wide gate, with a 1-1/2 in x 6 in (3.8 cm x 15.2 cm) air-cylinders.
- Hitch: Hydraulic positive non binding, latch and release.

Electrical System

- 12 VDC 160 amp belt drive alternator w/internal regulator.
- Two 12 VDC Group 31-MHD/950 cca batteries.
- Computer Rate Control (CRC), Sauer-Danfoss Plus +1 CAN network communication, w/automotive style charging system voltage and system diagnostics.
- 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 and controllers are IP67 rated (pressure wash-down)
- Any non-IP67 rated connectors are crimped and soldered to prevent corrosion of terminals and copper wiring.
- Field replaceable automotive style wiring harnesses.
- Individual and taper 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 left/right side and anywhere in between.
- Dash panel is directly in front of the operator.
- All chip spreading function control switches are on a control panel accessible while the operator's arm is on the right side of the arm rest.
- Seat adjustments; fore & aft, backrest angle, and height.
- Accelerator/Brake pedal adjustment; fore & aft.
- Steering wheel adjustment; 30 deg. of angle.
- Operators station includes a rain/sun cover/roof.



BearCat Mfg.
3650 Sabin Brown Road
Wickenburg, AZ 85390
Ph: 928-684-7851
www.bearcatmfg.com

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.