



NORTH CAROLINA SHERIFFS' ASSOCIATION

Name of Dealership	Type of Vehicle	Zone	Base Unit Price
<u>PETERBILT - MODEL 320 DUAL STEER AUTOMATED SIDE LOADER (Specification #42)</u>			
Peterbilt of Charlotte	2017 Peterbilt 320 Dual Steer Automated Side Loader	★Appalachia	\$116,763.00
Peterbilt of Charlotte	2017 Peterbilt 320 Dual Steer Automated Side Loader	★Dogwood	\$116,763.00
Peterbilt of Charlotte	2017 Peterbilt 320 Dual Steer Automated Side Loader	★Cardinal	\$116,763.00
Peterbilt of Charlotte	2017 Peterbilt 320 Dual Steer Automated Side Loader	★Longleaf Pine	\$116,763.00



NORTH CAROLINA SHERIFFS' ASSOCIATION

PETERBILT - MODEL 320 DUAL STEER AUTOMATED SIDE LOADER **SPECIFICATION #42**

2017 Peterbilt 320 Dual Steer Automated Side Loader

ALL ITEMS FACTORY INSTALLED UNLESS OTHERWISE INDICATED

INSTRUCTIONS: Listed above, you will find the model numbers of the vehicles that will be included in this year's contract.

1. UNIT INFORMATION

- a. Model - 320
- b. Type - Full Truck

2. APPLICATION INFORMATION

- a. Intended Service - Refuse/Landfill
- b. Commodity - Refuse, Scrap

3. BODY

- a. Type - Automated Side Loader
- b. Length (ft) - 20
- c. Height (ft) - 13.5
- d. Max Laden Weight (lb) - 1,000

4. RESTRICTIONS

- a. Length (ft) - 40
- b. Width (in) - 102
- c. Height (ft) - 13.5

5. CHASSIS

- a. Front Axle Load (lbs) - 20,000
- b. Rear Axle Load (lbs) - 46,000
- c. GCW (lbs) - 66,000
- d. Road Conditions: Class A (Highway) - 100 Class B (Highway/Mountain) - 0 Class C (Off Highway) - 0 Class D (Off Road) - 0
- e. Maximum Grade - 6
- f. Wheelbase (in) - 210
- g. Overhang (in) - 71.10001
- h. Front Axle to BOC (in) - 0.1
- i. Cab to Axle (in) - 209.9
- j. Cab to EOF (in) - 281
- k. Overall Comb. Length (in) - 339

6. FRONT AXLE AND EQUIPMENT

- a. Dana Spicer D2000F 20,000lb, 3.5" Drop (Factory front axle alignment to improve handling and reduce tire wear. Zerk fittings on tie rod ends, king pins, and draglink ball joints for ease of maintenance and help extend service life of components. Cognis EMGARD (R) FE 75W-90 synthetic axle lube provides over 1% fuel economy improvement. Reduces wear and extends maintenance intervals, resulting in increased uptime. Provides improved fluid flow to protect components in extreme cold conditions and withstand the stress from high temps , extending component life.

- b. Power Steering Sheppard SD110 Dual (for use with 22,000 lb axle ratings. Glidekote splines on steering shaft extend service life of components)
- c. 5 in Drop IPO 3.5 in, Front Axle

7. REAR AXLE AND EQUIPMENT

- a. Synthetic Axle Lubricant All Axles (Peterbilt heavy duty models include Fuel Efficient Cognis EMGARD FE75W-90 which provides customers performance advantages over current synthetic lubricants with reduced gear wear and extended maintenance intervals, resulting in increased uptime. In addition, the lubricants provides improved fluid flow to protect gears in extreme cold conditions and withstand the stress from high temperatures, extending component life.
- b. Anti-Lock Braking System (ABS) 4S4M (ABS-6. Includes air braking system)
- c. PHP10 Iron PreSet PLUS Hubs
- d. SBM Valve (Full trucks require a spring brake modulation (SBM) system for emergency braking application. This system requires an SBM valve and a relay valve with spring brakes on the rear axles. The SBM valve allows the foot valve to operate the rear axle spring brakes if a failure exists in the rear air system.
- e. Dana Spicer D46-170 46,000Lb (Interaxle diff lock air rocker occupied space of one gauge. Laser factory axle alignment to improve handling and reduce tire wear. Magnetic rear axle oil drain plug captures and holds any metal fragments in drive axle lube to extend service life. Parking brakes on all drive axles for optimal performance. Cognis EMGARD (R) FE 75W-90 synthetic axle lube provides 1% fuel economy improvement. Reduces wear and extends maintenance intervals, resulting in increased uptime. Provides improved fluid flow to protect components in extreme cold conditions and withstand the stress from high temps, extending component life.

8. ENGINE AND EQUIPMENT

- a. Stainless Steel Grille
- b. Heavy Duty Air Cleaner (molded rubber air intake connections with lined stainless steel clamps seal to prevent contaminants in air intake)
- c. High Efficiency Cooling System (Cooling module is a combination of steel and aluminum components, with aluminum connections to maximize performance and cooling capability. Silicone radiator and heater hoses enhance value, durability and reliability. Constant tension band clamps reduce leaks. ClimaTech extended life coolant extends maintenance intervals which reduces maintenance costs. Anti-freeze effective to -30 degrees F helps protect the engine. Low coolant level sensor warns of low coolant conditions to prevent engine damage. Radiator size by model: 587: 1330 sq in, 579/367 FEPTO 1325 sq in, 567/365/367: 1440 sq in, 384/386:1301 sq in, 365 FEPTO: 1184 sq in, 389/367 HH: 1669 sq in, 348: 1000 sq in, 320: 1242 sq in
- d. 24" Ht, 5" Dia Chrome, Clear Coat Standpipe (s)
- e. Exhaust Vertical LH (DPF/SCR transverse mounted)
- f. PACCAR 160 Amp Alternator, Brushed
- g. PACCAR 12V Starter
- h. 3 PACCAR Premium 12V Dual Purpose Batt 2100 CCA (threaded stud type terminal. Stranded copper battery cables are double aught (00) or larger to reduce resistance.
- i. 18.7 CFM Air Compressor (Furnished on engine. Teflon lined stainless steel braided compressor discharge line)

9. AIR AND TRAILER EQUIPMENT

- a. Nylon Chassis Hose
- b. Steel Painted Air Tanks (all air tanks are steel with painted finish except when code 4543330 polish aluminum air tanks is also selected ((then exposed air tanks outside the frame rails will be polished aluminum)). Peterbilt will determine the optimal size and location of required air tanks. Narratives requesting a specific air tank size or location will not be accepted for factory installation. See ECAT to determine number or location of air tanks installed)
- c. Bendix AD-IS EP Air Dryer with Heater (extended purge ((for use with higher consumption applications)) an integrated system air dryer that incorporates the functions of the air dryer, purge reservoir ((which increases the drying capacity))wet air tank, pressure relief valve, single check valves, and pressure protection valve for air susp and other air accessories. included easy-to-service spin-on dessicant cartridge)

10. FUEL TANKS

- a. DEF Tank 320
- b. Fuel Cooler (required with single fuel tank)

11. CAB AND EQUIPMENT

- a. Peterbilt Driver Seat
- b. Peterbilt Passenger Seat
- c. Two Piece Flat Windshield

- d. Gray Interior Color (includes ABS gray headliner, and rear cab panel, gray vinyl engine tunnel cover)
- e. 4.5 " Rubber Flares on Cab (N65040 OAR0)
- f. Vinyl Driver
- g. (1) Air Horn 15" Painted Mounted Under Cab
- h. Peterbilt Electric Windshield Wipers (with intermittent feature)
 - i. Adjustable Steering Column - Tilt/Telescope
- j. Steering Wheel with Peterbilt Logo (steering wheel with embossed Peterbilt logo over horn button)
- k. Headlights Dual Rectangular Halogen
 - l. Air Restriction Indicator (mounted on air cleaner or intake piping)
- m. Main Transmission Oil Temperature Gauge (located in driver information display)
- n. Rear Window Back of Cab Std. Tint (18.5" x 54")
- o. (5) LED Clearance with (2) LED Marker Lights (includes five lights mounted on roof of cab and one cab side marker light mounted in front of each cab door)
- p. None Furnished Stop/Tail/Backup Lights (available with full truck only, not available with tractor)

12. FRAME AND EQUIPMENT

- a. EOF Square without Xmbr (for use with body builder installed crossmember)

13. TRANSMISSION AND EQUIPMENT

- a. Console Mounted Push Button Shifter (Allison Transmission)



NORTH CAROLINA SHERIFFS' ASSOCIATION

PETERBILT - MODEL 320 DUAL STEER AUTOMATED SIDE LOADER SPECIFICATION #42

2017 Peterbilt 320 Dual Steer Automated Side Loader

The Peterbilt 320 Dual Steer Automated Side Loader purchased through this contract comes with all the standard equipment as specified by the manufacturer for this model and NCSA's base vehicle specification(s) requirements which are included and made a part of this contract's vehicle base price as awarded by specification by zone.

ZONE:	★Appalachia	★Dogwood	★Cardinal	★Longleaf Pine
BASE PRICE:	\$116,763.00	\$116,763.00	\$116,763.00	\$116,763.00

While the North Carolina Sheriffs' Association has attempted to identify and include those equipment items most often requested by participating agencies for full size vehicles, we realize equipment needs and preferences are going to vary from agency to agency. In an effort to incorporate flexibility into our program, we have created specific add/delete options which allow the purchaser to tailor the vehicle to their particular wants or needs.

The following equipment delete and add options and their related cost are provided here to assist you in approximating the total cost of the type vehicle(s) you wish to order through this program. Simply deduct the cost of any of the following equipment items you wish deleted from the base unit cost and/or add the cost of any equipment items you wish added to the base unit cost to determine the approximate cost of the type vehicle(s) you wish to order.

NOTE: An official listing of all add/delete options and their prices should be obtained from the appropriate dealer in your zone when preparing your order. Additional add/delete options other than those listed here may be available through the dealers, however, those listed here must be honored by the dealers in your zone at the stated prices.

VEHICLE:	320 Dual Steer Automated Side Loader			
DEALER:	Peterbilt of Charlotte	Peterbilt of Charlotte	Peterbilt of Charlotte	Peterbilt of Charlotte
ZONE:	★Appalachia	★Dogwood	★Cardinal	★Longleaf Pine
BASE PRICE:	\$116,763.00	\$116,763.00	\$116,763.00	\$116,763.00

Order Code	Delete Options	All Zones
	Omit rear mudflaps and hangers <i>Cannot delete</i> ¹	Std ¹
	PHP 10 Iron PreSet PLUS Hubs <i>Must include brakes</i> ¹	Std ¹
	18.7 CFM Air Compressor (Furnished on engine. Teflon lined stainless steel braided compressor discharge line)	Std
	1710 Driveline Interaxle, Tandem Rear Axles <i>Must include interaxle drive line</i> ¹	Std ¹
	Narrow Steel Battery Box Mtd. LH Back of Cab	Std
	Standard Paint Color Selection	Std
	Cummins ISX Power	NA
	Refuse Service Brakes, Steer and Drive Axles <i>Cannot delete</i> ¹	NA ¹
	Rear Brake Camshaft Reinforcement	\$62.00
	Lube Pump, Drive Axle (s) <i>Not in quoted spec.</i> ¹	NA ¹
	Ratio 5.38 Rear Axle <i>No difference in cost of rear ratios.</i> ¹	Incl. ¹
	Hendrickson Haulmaxx HMX460 46,000 lb, 54" Axle (spacing, 60K creep rating) <i>Must include rear suspension</i> ¹	¹
	FF: BR 20 Ply 315/80R22.5 M860A (diameter = 42.8 inches; SLR = 19.9 inches) <i>Must have 315 Tires for 20,000 front axle</i> ¹	Incl. ¹
	RR: Accur Steel Armor 50408 PK 22.5x8.25 (PHP 10-2 hand holes) <i>This is the base steel wheel. Cannot delete.</i> ¹	Incl. ¹

Order Code	Add Options	All Zones
	10-3/4" Steel Rails 306-342" (10.75 x 3.5 x 375 dimension, 2,136,000 RBM; yield strength: 120,000 psi. Section modulus: 17.8 cubic inches. Weight: 1.74 lbs/inch pair)	Std
	Full steel inner liner	\$383.00
	FEPTO Provision 9 in Bumper Extension (includes 1350 series front drive PTO attachment provision, radiator with PTO cut-out in grille, radiator protection sleeve, and bumper extension)	\$446.00
	Dana Spicer Wide Track IPO Std., Front Axle (71" KPI IPO 69" E1202, E1322, E1462, D2000F front axles. For improved turning radius.	\$30.00
	Taper Leaf Springs, Shocks 23,000lbs (standard with heavy resistance shocks)	\$231.00
	Dust Shields, CAM Brakes, Front Axle	\$16.00
	Bendix Air Cam Front Drum Brakes 16.5x6 (For use with 14,601 lbs to 22,000 lbs steer axles or FSD16 front drive axles. Includes automatic slack adjusters and outboard mounted brake drums)	\$67.00
	Refuse Service Brakes, Steer and Drive Axle(s)	Incl.
	Rear Brake Camshaft Reinforcement	\$33.00

VEHICLE:	320 Dual Steer Automated Side Loader			
DEALER:	Peterbilt of Charlotte	Peterbilt of Charlotte	Peterbilt of Charlotte	Peterbilt of Charlotte
ZONE:	★Appalachia	★Dogwood	★Cardinal	★Longleaf Pine
BASE PRICE:	\$116,763.00	\$116,763.00	\$116,763.00	\$116,763.00

Heavy Wall, Drive Axle (s)	\$317.00
Lube Pump, Drive Axle (s)	\$165.00
SBM Valve (full trucks require a spring brake modulation (SBM) system for emergency braking application. This system requires an ABM valve and a relay valve with spring brakes on the rear axles. The SBM valve allows the foot valve to operate the rear axle brakes if a failure exists in the rear air system.	Std
Bendix Air Came Rear Drum Brakes 16.5 x 8.6 (Inc automatic slack adjusters and outboard mounted brake drums. Refer to TSB 11-57 for more information)	Std
Diff Lock Tandem Axles (with speed interlock). Automatically disengages wheel diff lock at speeds above 25mph	\$1,105.00
Ratio 4.30 Rear Axle	Incl.
Hendrickson Haulmaax HMX 460 46,000lb, 54 in Axle (spacing, 60k creep rating)	Std
ISX12 350R 350@1800 GOV@2100 1350@1100 (2013 Emissions) includes aluminum flywheel housing. Chevron Delo LE SAE 10W30 engine oil is specially formulated for new low emissions engines. Magnetic engine oil drain plug captures and holds any metal fragments in engine oil to extend service life.	\$8,665.00
Engine Idle Shutdown Timer Enabled	Incl.
Enable EIST Ambient Temp Overrule	Incl.
Eff EIST NA Expiration Miles	Incl.
Battery Jumper Terminals Mtd in Front (of battery box)	Incl.
Immersion Type Block Heater 110-120V (standard location is center left hand under cab and includes a weather-proof cover that protects the receptacle. This pre-heater keeps the coolant in the engine block from freezing when the engine is not running.)	\$40.00
CARB Engine Idling Compliance (PACCAR PX-7, PX-9 and MX, Cummins ISL, ISM and ISX diesel engines will include the required factory installed serialized sticker on the drivers door to identify them as meeting the NOx idling standard.	NC
PACCAR Fuel/Water Seperator, 12V heated (with engine in fuel (WIF) sensor, in addition to the fuel filter supplied with the engine)	\$62.00
Engine Protection Shutdown (includes oil pressure, oil temperature, coolant temperature, and intake manifold temperature)	Incl.
2 Speed Fan Clutch for Frequent Start/Stops	Incl.
C Brake by Jacobs, ISX12, ISX12-G (includes two switches, A2 position on/off engine switch. As well as a 3 position up, down, hold range selector switch) <i>Included w ISX 12¹</i>	Incl. ¹
Curved Tip Standpipe (s)	\$27.00
Stranded copper battery cables are double aught (00) or larger to reduce resistance	Incl.
Kissling Battery Disconnect Switch (mounted on battery box)	Incl.
2-Speed Fan Clutch for Frequent Start/Stops	Incl.

VEHICLE:	320 Dual Steer Automated Side Loader			
DEALER:	Peterbilt of Charlotte	Peterbilt of Charlotte	Peterbilt of Charlotte	Peterbilt of Charlotte
ZONE:	★ Appalachia	★ Dogwood	★ Cardinal	★ Longleaf Pine
BASE PRICE:	\$116,763.00	\$116,763.00	\$116,763.00	\$116,763.00

Allison 4500 RDS-P Transmission, Gen 5 (Rugged duty series. Includes rear transmission support, transynd transmission fluid, and water oil heat exchange. Also includes features that monitor the transmission fluid, filter and clutch condition. Will display percent life remaining for the transmission fluid, filter and clutches on the shift selector. This information may be displayed using the mode and up and down buttons. A wrench icon will also be included to indicate when the transmission fluid, filter or clutches need servicing. ((Suited for vehicles operating on/off highway and/or requiring PTO operation) forward ratios: 1st - 4.70, 2nd - 2.21, 3rd - 1.53, 4th - 1.00, 5th - 0.76, 6th - 0.67 / reverse ratios: DR - (5.55))	\$8,664.00
1810 HD Driveline, 1 Midship Bearing (4.5" x .180 wall tubing)	\$110.00
Allison Output Function S Neutral Indicator (For PTO, required on refuse packer applications. With this configuration neutral only, PTO engagement is permitted only when the transmission is in Neutral. Once the transmission is in neutral, the PTO is automatically engaged and fast idle is initiated when the PTO switch is switched on. Also, with this configuration pack-on-the-fly, the PTO is automatically engaged and fast idle is initiated when the PTO switch is on concurrently with shifting of the transmission to neutral.	NC
Allison FuelSense Not Desired	NC
Allison 6-Speed Configuration, Wide Ratio Gears (Allison 4500 transmission only)	NC
Berg Pull Cord Drain Valve (s) - All air tanks	Incl.
FF: Accur Stl Armor 29039PK 22.5 x 9.00 (PHP 10-5 hand holes)	Incl.
RR: BR 14 PLY 11R 22.5 M843 (diameter = 42.5 inches; SLR = 19.9 inches)	\$816.00
Code - rear tire qty 8	Incl.
Code- Rear rim qty 8	Incl.
23" Aluminum 80 Gallon Fuel Tank LH BOC (Paddle handle filler cap with threadless filler neck. Top draw fuel plumbing reduces chance of introducing air into the fuel system during low fuel level conditions due to the central placement of fuel pickup tube. Wire braid fuel lines increase durability and reduce potential for leaks) <i>Not available with this configuration. Tank on Right side 1</i>	NA ¹
Location LH BOC 80 Gallon	NA
Fuel Tank Fill Rear (not available on under cab fuel tanks)	\$199.00
DEF Tank Mounted LH BOC (models 210, 220, and 320 mounted LH cab fender)	Incl.
Standard DEF to Fuel Ratio 2:1 or Greater	Incl.
Steel Bumper Swept Back Painted (requires bumper extension, includes two front tow eyes with pins)	\$237.00
Screen Over Air Intake Opening in Bumper	\$11.00
Air Ride Driver	\$128.00
High Back Driver	\$18.00
Seat Belt Color Orange IPO Std. Black	NC
Air Ride Passenger	\$128.00
High Back Passenger	\$18.00

VEHICLE:	320 Dual Steer Automated Side Loader			
DEALER:	Peterbilt of Charlotte	Peterbilt of Charlotte	Peterbilt of Charlotte	Peterbilt of Charlotte
ZONE:	★Appalachia	★Dogwood	★Cardinal	★Longleaf Pine
BASE PRICE:	\$116,763.00	\$116,763.00	\$116,763.00	\$116,763.00

Combo Fresh Air Heater/Air Conditioner (with radiator mounted condenser, dedicated side window defrosters, bi-level heater/defroster controls, 54,500 BTU/HR and silicone heater hoses <i>Roof Mounted AC included</i> ¹	NA ¹
Black LH/RH Tri-Plane Mirrors, Heated (Mounted to driver-door and passenger front of cab, features: heated on all three surfaces, upper and lower mirrors are convex and middle is a flat plane motorized mirror.	NA
Mid-level Speaker Package for cab (4 speakers)	\$70.00
Daytime Running Lights (required on all Canadian units)	\$41.00
ConcertClass without CD, Includes BT Phone (includes audio, am/fm, wb, usb, and mp3)	\$267.00
Cab Tilt Pump Air Assist	\$92.00
53" LCF ProBilt Cab Dual Seated Drive (N65040 OAR0)	Incl.
Triangle Reflector Kit Shipped Loose	NC
Backup Alarm (107dB)	\$52.00
(1) F/O Load Light, Switch and 10 FT Wire Coil (under cab/sleeper)	\$33.00
53" LCF ProBilt Cab RH Drive (Use with auto trans, includes steel frames with alum. and fiberglass panels, all alum. doors, dual door stops, door locks, tinted safety glass thru-out, cab and door mounted entry grab handles, 65 degree hydraulic tilt, stainless steel grille, dual rear cab fenders, service module BOC (cab tilt pump, oil fill and dipstick, coolant fill and check, fluid fill and dipstick for auto trans) door mounted arm rests, power windows, full insulation, rubber floor mats, ergono <i>This option removes the LH drive.</i> ¹	¹
Heavy Duty Emissions Surcharge	Incl.
Presentation Created Using Featured Spec (for model)	Incl.
Base Coat/Clear Coat	Incl.
N85020 A - L0006EB WHITE - STAND	Incl.
N85500 CAB ROOF L0006EB WHITE-STAND	Incl.
N85200 FRAME N 0001EA BLACK	Incl.
N85700 BUMPER N0001EA BLACK	Incl.
Specify by narrative attached to option code. In presentation information screen add "see instructions" for the shipping destination instead of dealer code. N89900 Heil MFG PlantN89910 106 45th Street, NEN89920 Ft. Payne, AL 35967N89930 256-845-4913 <i>Price includes shipment as instructed by customer.</i> ¹	Incl. ¹