



NORTH CAROLINA SHERIFFS' ASSOCIATION

Name of Dealership	Type of Vehicle	Zone	Base Unit Price
<u>G-S - TC8129P (Specification #10)</u>			
GSP Marketing	2016 G-S TC8129P - 29 Cubic Yard	★Appalachia	\$89,325.88
GSP Marketing	2016 G-S TC8129P - 29 Cubic Yard	★Dogwood	\$89,325.88
GSP Marketing	2016 G-S TC8129P - 29 Cubic Yard	★Cardinal	\$89,325.88
GSP Marketing	2016 G-S TC8129P - 29 Cubic Yard	★Longleaf Pine	\$89,325.88



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G-S - TC8129P SPECIFICATION #10

2016 G-S TC8129P - 29 Cubic Yard

29 cubic yard side loader pacmor style container lift, full eject - This specification describes a truck mounted, hydraulic refuse packer. This machine must be equipped with a lifting mechanism for PACMOR type side load commercial containers on the curb-side. Body must be designed so that optimum load distribution can be achieved when installed on a 62,000-66,000 G.V.W. truck cab chassis. Body installation shall not require modification to a standard truck chassis forward of the rear suspension. (no drop frame)

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. BODY CAPACITY

- a. The body shall have a usable capacity of Twenty nine (29) cubic yards including the tailgate (EXCLUDING LOADING HOPPER)

2. BODY DIMENSIONS

- a. Body length - 209" - (including bustle tailgate)
- b. Overall height above chassis - 102" (container lift in "down" position)
- c. Overall height above chassis MUST NOT EXCEED - 134" - (curb-side bin in full "up" position). NO EXCEPTIONS!
- d. Overall body width with loading bucket and container lift in down position - 102"

3. BODY CONSTRUCTION

- a. The body floor shall be constructed of 1/4" HARDOX 450 steel plate
- b. The body floor shall have 8" x 11.5 lbs/ft structural channel long - members
- c. Body sides shall be curved shell style, ten (10) gauge steel sheet. ASTM 656, Grade 80
- d. Body roof shall be curved shell style, ten (10) gauge steel sheet. ASTM 656, Grade 80
- e. All external welds shall be continuous

4. TAILGATE CAPACITY

- a. The tailgate shall have a usable capacity of 8.20 cubic yards minimum

5. TAILGATE CONSTRUCTION

- a. Body tailgate shall be bustle type, top hinged, with heavy-duty hinges and tapered-pin plunger style locks. Pivots and lock pins must have grease fittings
- b. Tailgate shall be equipped with a flow control device to assure smooth, even operation
- c. Tailgate to be constructed from 12 gauge steel sheet and framed with formed steel channel
- d. Gate shall have a seal across the bottom and at least 16" up each side to control liquid leakage

6. TAILGATE OPERATION

- a. For greater operational stability and safety the tailgate shall be raised and lowered with two 2 1/2" bore x 28" stroke double acting hydraulic cylinders

- b. All tailgate controls shall be located inside the truck cab within easy reach of the operator's position. I.E. tailgate operation shall not require exit of the cab by the driver. Controls shall be electric/air/hydraulic and spring returned to the "neutral" position
- c. Tailgate to lock and release hydraulically through the use of positive acting, tapered rod, plunger style locks
- d. Tailgate ajar and lock status warning light and alarm to be installed in the truck cab
- e. Safety prop for tailgate to be included
- f. All exterior welds to be continuous

7. PACKER HOPPER FUNCTION

- a. The receiving hopper shall have 6.0 cubic yards capacity minimum
- b. Hopper shall act as receiving chamber for materials dumped by the loading bin and container lift

8. PACKER HOPPER CONSTRUCTION

- a. Hopper floor to be constructed of 1/2" HARDOX 450 steel plate
- b. Hopper side walls to be 1/4" HARDOX 450 steel plate

9. COMPACTOR FUNCTION

- a. Compactor is to move the material dumped by the container loader from the receiving hopper into the body chamber. Also, compactor is to compress the loaded material to such an extent that the vehicle is loaded to its' recommended capacity

10. COMPACTOR OPERATION

- a. Compactor to be powered by one (1), 6" bore x 84" stroke, single section, dual acting hydraulic cylinder
- b. Packer cycle shall be 40 seconds @1200 R.P.M.
- c. When fully extended, compactor must penetrate the body by 18" minimum. This aids compaction of the material and reduces fallback into the loading hopper
- d. Compactor shall displace 2.6 cubic yards/cycle minimum
- e. Compactor shall have "on-demand" style controls with both "AUTOMATIC PACK" and "MANUAL PACK" selector console mounted in the truck cab and convenient from both sides of cab
- f. Compactor stroke shall be automatically reversible through the use of high quality automotive grade switches sensitive to both position and pressure
- g. Unit to be equipped with a "near-loaded" warning alarm to alert operator that body is approaching its maximum capacity

11. COMPACTOR CONSTRUCTION

- a. Compactor to be guided by a floor mounted "T" track beam
- b. Both the "T" track beam and compactor guide shoes must be made of HARDOX 450 steel plate
- c. The compactor shall be constructed of engineered steel sections and fully tested using state-of-the-art Finite Stress Analysis technology

12. LOADING DEVICE FUNCTION (CURB-SIDE)

- a. The container lifting device must be capable of attaching, lifting, and dumping PACMOR style containers currently in use by the purchasing authority.
- b. Container lift must be capable of lifting and dumping containers weighing up to 3200 pounds
- c. Lift shall transit the container from the ground position essentially in a vertical plane and rotate to dump at approximately forty-five degrees from vertical into the compaction hopper
- d. Lift cycle shall be approximately 20 seconds at engine idle
- e. Lift carriage shall be track guided by roller bearing type steel cam-followers and stabilized by two lift arms, one at each end
- f. Lift shall extend 48" out from the stowed position if needed to attach to containers
- g. Extend and retract function will be accomplished with a 2.5" bore x 48" stroke hydraulic cylinder with fluid cushion at base end
- h. Lift up and down motion shall be powered by two (2) 4" bore x 16" stroke hydraulic cylinders with 1.5" fluid cushions in both the rod and base ends

13. LOADING DEVICE CONSTRUCTION (CURB-SIDE)

- a. Lifting arms must be constructed of solid, high tensile steel plate. Tubular load lifting components are not acceptable
- b. All loading mechanism connecting pins shall be 1.25" diameter, 4140 steel alloy, and surface hardened to 60,000 Rockwell or GRADE 8 S.A.E. bolts

14. LOADING DEVICE CONTROLS (CURB-SIDE)

- a. Controls for lift shall be conveniently located for operation from the driver's in-cab seated position.

15. BODY UNLOADING FUNCTION

- a. Body payload to be offloaded by hydraulically powered horizontal ejection
- b. Ejector panel to be operated by two (2), 3" bore x 80" stroke, single section, double acting hydraulic cylinders
- c. Ejector operation shall be sequenced so that panel will "extend" only when packer panel is in full "extend" position and tailgate is fully "up"
- d. Controls to be mounted convenient to operator's in-cab driving location

16. BODY UNLOADING CONSTRUCTION

- a. Ejector panel to have a structural steel tubular frame
- b. Panel guide tracks to be formed 3/16" steel plate
- c. Panel guide/cylinder enclosure tube shall be 5" x 7" x 3/16" structural steel tube equipped with HARDOX 450 steel wear strips
- d. Floor level wear pads must be HARDOX 450 steel plate

17. HYDRAULICS PUMP

- a. All body and lift functions shall be powered by a single-section gear type pump. This pump shall be powered by a transmission mounted "hot shift" power take off or crankshaft driven as preferred by the using agency

18. HYDRAULICS CONTROL VALVE

- a. The body and lift functions shall be controlled by a single stack type air activated directional hydraulic valve. All controls for the body and lift shall be air/hydraulic. This directional control valve shall be equipped with a reliable system pressure protection device. The maximum system operating pressure shall be 2500 P.S.I.

19. HYDRAULIC RESERVOIR

- a. The body shall be equipped with a hydraulic reservoir with a minimum capacity of (30) gallons. This reservoir shall be equipped with a fill cap, breather, fluid level indicator and temperature gauge

20. HYDRAULIC FILTRATION AND SERVICE (SYSTEM CLEANLINESS AND PROTECTION AGAINST CONTAMINATION SHALL BE ACCOMPLISHED THROUGH THE USE OF THE FOLLOWING DEVICES)

- a. High Pressure Filter - All oil shall be routed through a 10 micron pressure line filter. This filter shall be installed between the hydraulic pump and the body control valve and properly sized so that 100% of the flow is filtered under normal operating conditions without bypass. Filter must be located so that all periodic service can be performed from ground level without the need for ladders or work-stands
- b. Suction Strainer - A 100-mesh oil strainer must be installed in the hydraulic system suction line. This strainer must be serviceable without draining the system reservoir
- c. In-Line Shutoff - For ease of service the suction line shall be equipped with a shutoff valve plumbed adjacent to the reservoir

21. HYDRAULICS PLUMBING

- a. All body and lift plumbing not requiring flexibility to complete its function must be constructed of seamless steel hydraulic tubing correctly sized for each operation. Plumbing requiring hoses shall be routed in such a way as to prevent rubbing, chaffing and undue bending

22. IN-CAB CONTROLS (THE FOLLOWING CONTROLS MUST BE MOUNTED INSIDE THE TRUCK CAB FOR SAFE AND CONVENIENT OPERATION)

- a. Work light and strobe light switches
- b. Body ejector control
- c. Body tailgate control
- d. Hydraulic system on/off switch

23. LIGHTS

- a. Both street side and curbside loading locations must have work lights
- b. All body lights must be TRUCKLITE Model "Super 44" L.E.D. with series 50 wiring harness

c. Standard lights shall be supplied in accordance with FMVSS#108

24. ACCESSORIES

- a. Both body and hopper shall have access doors on each side for cleaning behind the packer and ejector panels. Doors must be sealed when closed
- b. Back up alarm shall be provided
- c. Body "up" and tailgate "unlock" alarm shall be provided
- d. Tailgate safety prop shall be provided
- e. Federal under-ride bumper shall be installed

25. PAINT

- a. Body and loading mechanism shall receive at least one coat of primer and one finish coat of polyurethane enamel. Primer shall be approved for use with the finish coat material
- b. The body and lift shall be free of all weld slag, dirt and grease and be prepared prior to painting in accordance with the paint manufacturers specifications

26. WARRANTY

- a. A minimum two-year warranty against manufacturing defects shall be provided by the manufacturer



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2016 G-S TC8129P - 29 Cubic Yard

The G-S TC8129P - 29 Cubic Yard 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:	\$89,325.88	\$89,325.88	\$89,325.88	\$89,325.88

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:	TC8129P - 29 Cubic Yard			
DEALER:	GSP Marketing	GSP Marketing	GSP Marketing	GSP Marketing
ZONE:	★Appalachia	★Dogwood	★Cardinal	★Longleaf Pine
BASE PRICE:	\$89,325.88	\$89,325.88	\$89,325.88	\$89,325.88