

PUBLIC NOTICE

GILES COUNTY HIGHWAY DEPARTMENT WILL BE ACCEPTING SEALED BIDS ON PAVING DISTRIBUTOR. SPECIFICATIONS FOR THIS CAN BE PICKED UP OR E-MAILED FROM THE GILES COUNTY FINANCIAL MANAGEMENT OFFICE. FOR INFORMATION CALL 931-363-5486 or E-MAIL tharwell@energize.net. SEALED BIDS MUST BE RECEIVED AT THE GILES COUNTY FINANCIAL MANAGEMENT OFFICE BY FEBRUARY 10TH, 2015 AT 8:30 AM AT WHICH TIME SEALED BIDS WILL BE OPENED. ANY BIDS RECEIVED AFTER THAT TIME WILL NOT BE OPENED. MUST SEND TWO COPIES OF BID.

GILES COUNTY RESERVES THE RIGHT TO REJECT ANY AND ALL BIDS.

Model Year:	2015 or Newer		
Truck Make:		Cab Style:	CONVENTIONAL
Model:	108SD	GVWR:	33,000 LBS
WB:	189"	CA:	120"
Color:	WHITE ELITE	Trim:	OPAL GRAY
VIN:			
Alternator:	160 Amp		
Axle-Front:	12,000 lbs.		
Axle-Ratio:	3.91		
Axle-Rear:	21,000 lbs.		
Batteries:	Two 12-volt, 2250 CCA total		
Brakes:	Air		
Engine:	Cummins ISL diesel		
Engine Rating:	260 H.P.		
Engine Tach:	Electronic		
Frame:	9/32"X3-7/16"X10-1/16"		
Fuel Tank:	50 Gallon LH		
Horn:	Electric		
Seat-Driver:	High back air suspension		
Seat-Passenger:	High back, non-suspension		
Shock Absorbers:	Front		
Springs-Front:	12,000 lbs.		
Springs-Rear:	21,000 lbs.		
Springs-Rear Aux	Leaf spring helper		
Steering:	Power		
Tire Rim-Front:	8.25		
Tire Rim-Rear:	8.25		
Tires-Front:	11R22.5 14 ply		
Tires-Rear:	11R22.5 14 ply		
Trans-Main:	Eaton Fuller FR-9210B 10-speed manual		
Wheels:	10-Hub pilot steel disc		
Options Included Other than Summarized Above:			
- 14" Two-plate dampened ceramic clutch			
- Front P.T.O. adapter flange			
- Front and rear brake dust shields			
- Bendix AD9 air dryer with heater*			
- Upgraded multiplexing unit			
- 24" Integral front frame extension			
- Front tow hooks			
- Bright finish radiator shell/hood bezel			
- Stationary black grille w/bright accents			
- Daytime running lights-low beam only			
- Dual four-way heated power mirrors			
- Tinted glass			
- 2-1/2 Lb. fire extinguisher			
- Air conditioning			
- Electronic cruise control			
- AM/FM/WB radio			
- Extended towing/roadside service warranty			
- Cab mounted battery disconnect switch			

SPECIFICATIONS FOR ASPHALT DISTRIBUTOR TANK

GENERAL

It is the intent of these specifications to describe a Bituminous Distributor in sufficient detail to secure bids on comparable equipment. All parts not specifically mentioned, which are necessary to provide a complete Distributor, shall be included in the bid and shall conform in strength and quality of material and workmanship to what is usually provided to the trade in general. The Distributor shall be a current model under standard production by the manufacturer.

Any units not conforming to these specifications will be rejected, and it will be the responsibility of the manufacturer to conform to the requirements unless deviations have been specifically cited by the bidder and acceptance made on the basis of the exception.

FUNCTION

The Distributor shall perform the following functions:

- a. Fill tank by Distributor pump from outside source, *using Quick Couple Ends.*
 - b. Circulate material in tank.
 - c. Circulate material in spray bar.
 - d. Spray at a constant desired application rate, regardless of variance in truck speed.
 - e. Return material in spray bar to tank by pump suction.
 - f. Handspray.
 - g. Return material in hand spray to tank by pump suction.
 - h. Transfer from an outside source to another outside source without having material enter Distributor tank.
 - i. Pump material back to supply source.
 - j. Automatically go from Circulate in Spray Bar to Spray mode and return to circulate without pushing material over relief valve.
- It is important that the Distributor be capable of returning all material in the spray bar, handspray and distributing lines to the Distributor tank by means of pump suction. This function is to be accomplished without reversing the asphalt pump. Unit shall use volumetric metering with no bypass when spraying to insure accuracy of application. Provision shall be made for easily draining the circulating system independently of the tank and for flushing circulating system and pump with not more than three (3) quarts of fuel oil so as not to dilute tank contents.

TANK AND FITTINGS

- a. Capacity: 2000 U.S. Gallons minimum.
- b. Shape: Oval in cross section, with the long axis horizontal.
- c. Material: Shell to be 10 gauge steel. Tanks to have 10 gauge steel heads, deep dished and flanged, welded to tank shell both inside and outside for strength and durability.
- d. Surge Plate: Tank to be supported with full section surge plate, deep dished and flanged, constructed of 10 gauge steel. To be spaced to provide adequate tank strength and proper surge control. Openings shall be provided in the surge plates for the free flow of material to the pump and large enough for a man to crawl through.
- e. Manhole: 20" inside diameter manhole with quick-opening cover.
- f. Overflow: 3" diameter overflow, extending at least 6 inches above the liquid, and draining internally only through the bottom of the tank in such a location as to clear all chassis members. Tank overflow design that drains asphalt material into the spill collar around manhole is not acceptable.
- g. Insulation: 2" fiberglass 1 lb. Density with spacers to prevent compression, protected by aluminum jacket sheet (.040").
- h. Tank Mounting: Mounting saddles shall be full bolster style. Includes aluminum fenders.
- i. Tank Gauge: Float type, with dial calibrated in 50 gallon increments, both front and rear of tank.
- j. Measuring Stick: Aluminum, calibrated in 50 gallon increments. To be designed and calibrated to read tank contents without dipping stick into material.
- k. Spillage collar and overflow drain, including refiners platform and ladder.
- l. Tank design and construction to meet all applicable Federal Cargo Tank Regulations 49 CFR 173.247 and including DOT-406, HM-183, HM-198A, with consideration for hot asphalt products. Must have ASME tank approval number to assure that federal cargo tank regulations can be met.

POWER UNIT

- a. Type: Hydrostatic transmission, consisting of:
 1. Pump: Infinitely variable displacement pump with a minimum displacement of 3.1 cubic inches per revolution, axial piston type. Electronic stroker control.

2. Motor: Piston motor with gearbox. 2.10 cubic inch per revolution displacement (90 series pump), direct coupled to the asphalt pump. Entire transmission unit shall be capable of operating speeds up to 2800 RPM. Hydraulic oil may reach temperature up to 200 degrees without damage to the unit. Unit shall have internal valving, and shall be fitted with relief valve and high oil temperature signal in cab.
- b. Crankshaft Take-Off: Hydrostatic pump driven by crankshaft take off; chassis must be equipped to accept crankshaft drive.
- c. Hydraulic Lines:
 1. High pressure hose with swaged type split flange "O" ring fittings, per S.A.E. standards. (90 series pump only)
 2. Low pressure hose installation shall be made according to transmission manufacturer's recommendations. Only top quality fittings, tubing and hoses to be used.
- d. Controls: Electronic micro-control of hydrostatic transmission for setting asphalt pump discharge rate shall be located in truck cab. Control to permit stopping the variable pump discharge without disconnecting the drive and be equipped with an override of the micro-control which shall allow increases in asphalt pump output for filling, sucking back, etc., without affecting application rate setting. Override control shall be located at rear of unit.
- e. Reservoir. Minimum 20 gallon hydraulic reservoir with dial thermometer and level indicator.
- f. Filter: A 10 micron, replaceable cartridge type filter with vacuum gauge shall be located in the line between oil reservoir and hydrostatic pump.

BITUMEN PUMP

- a. Type: Positive displacement rotary gear type. 4 1/2" suction x 4" discharge.
- b. Location: To be located below the bottom level of the tank so that the material will flow vertically from the suction to the discharge insuring complete drainage when tank contents valve is closed.
- c. Capacity: Minimum of 400 gallons per minute.
- d. Self Flushing line from fuel tank or heating system to fill line. Includes minimum 20 gallon capacity fuel tank with float level gauge. Located away from burners for safe operation.

HEATING SYSTEM

- a. Flues: (2) with (LPG) liquid petroleum gas burner, with minimum of 1,000,000 BTU per hour per burner capacity. With pressure regulator, valves, piping, and 52 gallon frame mounted tank to be furnished.
- b. Flues shall be 8"x 6" U-type return flues running the full length of the tank. The inlet and exhaust opening of each flue shall be in the same horizontal plane. Flues shall have stainless steel external exhaust stacks.
- c. LPG burners shall have automatic thermostatic controls with digital temperature readout, thermostatically controlled shut down, out-fire protection, and travel lock out and push button ignition.

BIG SPRAY BAR

Full circulating 20 feet in length, hinged to permit folding for traveling. Length of bar in folded position not to exceed 8 feet. Positive circulation from one end of the bar to the other end, regardless of bar length or asphalt pump rate. Bar cross-section to be 3"x5".

To consist of 8' center section with (2) folding wing sections and (2) additional folding bar joints (3/3/8/3/3).

Electric-air on-off in 1' increments, cab controlled.

Electric-hydraulic spray bar shifting, lifting and wing folding, cab and rear controlled.

Nozzles to be spaced on 4" centers on spray bar and shall have an individual valve for each spray nozzle. Each nozzle valve to have flip lever control so spray width can be adjusted, and allows individual valves to be disconnected without the use of tools or pulling pins.

Supply extra set of nozzles (loose).

Right and left side wings (bar extensions) to relieve fore and aft. Pin replacement required when bar relieves.

Bar to adjust for positive or negative crown and also adjustment for pitch of bar to aim nozzle valves rearward. Sections to be interchangeable, right or left side.

AIR CONTROLS

Driver Operated Cab Control:

Distributor shall be equipped with air controls. Air for the controls shall be obtained from the air system on the truck chassis. The Distributor air system shall include its own air reservoir (using of truck chassis reservoir not acceptable) with check valve set at 80 pounds to prevent loss of air on truck chassis brakes in case lines are ruptured. System shall have its own air line oiling device and controls shall be electric, located in cab convenient to operator.

Air Operated:

1. All air solenoid valves and hydraulic solenoid valves are to be mounted to be accessible and serviceable from the ground without climbing on the machine.

TOOL BOX, FENDERS

- a. Tool Box: All steel box with aluminum door, of sufficient size to store all necessary tools shall be furnished at side of the tank. Must have hinged door at side with flush-type lock. Door at top not acceptable.

e. Fenders: Full dual flanged fenders (.080" aluminum) with rubber flaps. Use of skirting and flaps as a substitute for fenders not acceptable.

CONTROLS / INSTRUMENTATION

a. Computer with in-cab operator controls which include:

- * Computer controlled switches for ten (minimum) preset application rates.
- * Distance/volume reset switch.
- * Application rate adjustment switch.
- * Display select switch.

In-cab instrumentation will include the following information on self-illuminated display(s):

- * Truck travel speed feet/minute or meters/minute.
- * Application rate in gallons/square yard or liters/square yard.
- * Pump rate in gallons/minute or liters/minute.
- * Resettable distance sprayed in feet or meters.
- * Resettable volume sprayed in gallons or liters.
- * Low tank level warning.
- * Warnings that travel speed and/or applications rate are beyond system capability.

b. Radar type sensor to pickup ground speed.

c. System control of 4-way asphalt valve.

ACCESSORIES

1. Hose trough for fill hose.
2. Thermometer, pencil type and 2" dial type on side of tank.
3. Liquid asphalt temperature digital readout in computer display windows.
4. Liquid sampling valve to be state approved for taking samples of liquid asphalt. Located in the rear tank head.
5. Hand Spray Attachment: Hand spray gun with cold handle and not less than 3 nozzles, with 25' of 3/4" flexible rubber hand spray hose.
6. Strainers: Asphalt system to be designed so all liquid asphalt pumped to the tank, from the tank or to the spray bar must pass through a screen.
7. Turn Signals: At rear of Distributor with truck supplying chassis control of signals.
8. L.E.D. Lights: Federal Standard 108 requirements, including reflectors, clearance and identifications lights. Wiring in loom.
9. All necessary special tools for operation and maintenance of the Distributor shall be provided.
10. Painting: Distributor steel parts shall be painted Black Enamel.
11. Power wash down system including electric fuel pump, 15' hose with gun.
12. Wet storage box with drain plug & hinged lid at rear.
13. 12' x 3" steel fill hose with 3" male thread each end.
14. Electronic back-up alarm.

WARRANTY

Minimum 12 month warranty of Distributor components.

With the bid shall be included manufacturer's descriptive literature and specifications on unit being bid, and a list of any exceptions to these specifications. Bidder will supply parts manual and complete operating instruction manual.

Bid shall include mounting on customer's chassis at factory and instruction of operator on maintenance and operation at factory.

SEND SEALED PROPOSALS TO THIS ADDRESS:

Giles County Financial Management
P.O. BOX 678
222 West Madison Street, Ste. 205
Pulaski, Tn. 38478

ALL BIDS MUST BE SEALED AND IDENTIFY ON THE OUTSIDE
WHICH BID THEY GO TO. BOTH COPIES OF BID WILL BE OKAY TO
PUT IN SAME ENVELOPE.

NOTICE TO BIDDER:

GILES COUNTY CONFLICT OF INTEREST POLICY

Purchases of all supplies, materials, equipment, contracts for labor or services and leases are void if the Finance Director, County Commissioners, County officials, or other County employees have an interest in said purchases, contracts, or leases. The County shall not be liable for any such purchase, contract, or lease. T.C.A. 5-21-121 provides that ".....The Director, Purchasing Agent, members of the Committee, nor members of the County Legislative Body, or other officials, employees, or members of the Board of Education shall be financially interested, or have any personal beneficial interest, either directly or indirectly, in any contract, lease, or purchase order for any supplies, materials, or equipment used by or furnished to any department or agency of the County government. No firm, corporation, partnership, association, or individual furnishing any such supplies or equipment shall give or offer nor shall the Director or Purchasing Agent or any assistant or employee accept or receive, directly or indirectly, from any person, firm, or corporation to which any contract, lease, or purchase order may be awarded, by rebate, gift or otherwise, any money or anything of value whatsoever, or any promise, obligation, or contract for future reward or compensation."

Signed

Date

I have read the above conflict of interest policy and I certify that I do not have a conflict of interest as defined above.