

July 22, 2016

Jefferson Parish  
Purchasing Department  
Post Office Box 9  
Gretna, LA 70054-0009

Re: Sealed Bid for: Purchase of Truck Mounted Combination Jet/Vacuum Machine  
Bid Number: 50-00117054  
Bid Date: July 28, 2016  
Bid Time: 2:00 P.M.

Dear Sirs and Madams:

Covington Sales & Service, Inc., is pleased to submit our Bid for One (1) Vac-Con Model No. PD3611HEN/1500 LHA-P Mounted on a New Freightliner Model 114SD Chassis.

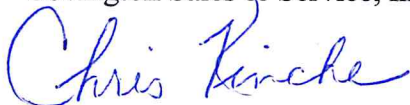
We meet or exceed all performance aspects of your advertised specifications.

Horse Power  
Over All Height  
Wheel Base  
Debris Capacity  
Water Capacity  
Water Tanks Lifetime Warranty  
Water System  
Vacuum System

Please see attached Specification.

Should you have any further questions, or require any additional information, please do not hesitate to contact our office.

Sincerely,  
Covington Sales & Service, Inc.



Chris Kinchen  
President



**Bid Number 50-00117054**

**PURCHASE OF TRUCK MOUNTED COMBINATION JET/VACUUM  
MACHINE**

**BID DUE: JULY 28, 2016 AT 2:00 PM**

**ATTENTION VENDORS!!!**

**Please review all pages and respond accordingly, complying with all provisions in the technical specifications and Jefferson Parish Instructions for Bidders and General Terms and Conditions. All bids must be received in the Purchasing Department by the bid due date and time.**

**Jefferson Parish Purchasing Department  
200 Derbigny Street  
General Government Building, Suite 4400  
Gretna, LA 70053  
Buyer Name: Misty A. Camardelle  
Buyer Email: [mcamardelle@jeffparish.net](mailto:mcamardelle@jeffparish.net)  
Buyer Phone: 504-364-2683**

## **TRUCK MOUNTED COMBINATION JET/VACUUM MACHINE**

The intent of this specification is to define the minimum requirements of the **Parish of Jefferson** for a vacuum air conveying sewer cleaner. A bid is a guarantee by the vendor of all specifications being met, **NO EXCEPTIONS**.

This unit is designed for and capable of simultaneous high pressure jetting and vacuuming for the removal of sand, grit, grease, sludge, stones and other materials from sanitary sewers, storm sewers, catch basins, pumping stations, and other facilities. The unit shall have a self-contained water supply for use with a high pressure cleaner for breaking of blockages and removal of material contained therein.

The unit shall include an air conveying system capable of simultaneous removal of debris flushed to the manhole by the sewer cleaner system, or debris removal from catch basins, sumps, digesters, wet wells, etc. using the single chassis engine as the power source. The vacuum system shall include a sealed body for storage and removal of the collected debris.

The unit shall be designed for ease of maintenance and be fully operational by one man and all controls shall be located at an operator's station in front of the truck for convenience and safety. The combination machine shall comply with all federal, state and local laws binding upon this type of equipment.

### **Louisiana Dealer's License**

In accordance with LA RS 32:1254 et seq and LA RS 38:2212.8, a Louisiana State Dealer's License is required. All bidders must provide a copy of their Louisiana Dealer's License with their bid submission. Failure to submit this copy will result in bid rejection.

### **TRUCK CAB & CHASSIS**

State:

Chassis Make:

Chassis Model:

GVWR: 60,000 lbs., minimum.

Wheelbase: 230 in., maximum.

#### **Axles**

Front axle shall be 20,000 lbs. minimum, Set Back Axle.

Rear axle shall be 40,000 lbs. minimum with heavy duty tandem axle housings and a ratio of 5.86.

Front & Rear oil seals shall be provided.

Front & Rear dust shields shall be provided

### **Suspension**

Front suspension shall be 20,000 lbs. minimum, flat leaf style.

Front shock absorbers shall be supplied.

Rear suspension shall be 40,000 lbs. minimum with multi-leaf springs and 54" axle spacing.

### **Brake System – ABS**

To ensure brake system performance, safety and service life of chassis, a WABCO 4S/4M ABS brake system shall be supplied.

Front & rear service brakes shall be Q+ cast spider cam, double anchor, fabricated shoes.

Automatic slack adjusters shall be supplied on front and rear brakes.

Parking brake shall be spring set on rear axle and cab controlled.

Low air warning light and buzzer shall be supplied.

To provide clean, dry air to the chassis brake system, a brake line air dryer with shield, heater and integral reservoir shall be provided.

A Cummins 18.7 CFM air compressor shall be supplied.

### **Steering**

Complete power steering system, including pump, fluid reservoir and oil/air power steering cooler shall be provided.

The following gauges and controls shall be furnished:

- Oil pressure gauge
- Engine coolant temperature gauge
- Tachometer
- Odometer/trip/hour meter/voltage/diagnostic display
- Speedometer
- Primary and secondary air pressure gauges
- Transmission oil temperature gauge
- Fuel gauge with DEF gauge
- Key operated ignition switch

### **Engine**

Engine shall be a four cycle diesel, turbo-charged and after-cooled.

Engine shall be rated at 370 HP @ 200 RPM, 2100 GOV RPM.



Engine shall have a torque rating of 1250 LB/FT. @ 1,400 RPM.

Engine shall be water cooled with antifreeze protection to -34 degrees Fahrenheit.

Engine shall have vertical muffler and exhaust pipe (11' 6") height and be equipped with a Diesel Particulate Filter & SCR system for 2008 EPA emission requirements.

Integral electronic protection shutdown system for low oil pressure and high water temperature shall be included.

### **Transmission**

Transmission shall be an Allison 3000 RDS with PTO provision and water to oil cooler.

Transmission shall come installed with synthetic transmission fluid.

### **Engine Equipment**

12 volt alternator shall have a minimum of 160 amp output rating.

Two (2) batteries shall be maintenance free and rated at 2,250 CCA with a master battery disconnect.

Air intake shall be captured through the side of the hood with and directed to a firewall mounted Donaldson air cleaner.

A Horton Drivemaster on/off clutch engine fan shall be supplied with automatic controls.

A full flow/bypass oil filter shall be supplied.

### **Cab**

Cab shall be conventional type.

Cab shall have high back air suspension driver seat with mechanical lumbar and integrated cushion extension and 3 point high visibility orange retractor seat belt.

Cab shall have 2 man tool box mid back non suspension passenger seat with headrest and 3 point high visibility retractor seat belt along with 2 point high visibility orange retractor center seat belt.

Seats shall be vinyl with vinyl inserts.

Sun visors shall be supplied on both sides.

Door armrests shall be supplied on both sides.

Heater, defroster and air conditioner shall be supplied.

Two speed electric intermittent windshield wipers with washers shall be supplied.

Dual bright finish West Coast type mirrors and 8" convex mirrors shall be supplied.

AM/FM radio with front & rear auxiliary inputs shall be supplied.

Cruise control shall be standard.

### **Fuel Tank**

Minimum 100 gallon fuel tank shall supply chassis engine. Tank shall be manufactured from aluminum and located under LH side of the cab.

A fuel cooler mounted outside of rail as close as possible to tank shall be supplied.

SCR system tank shall be 6 gallons and located to the rear of the chassis fuel tank.

### **Lights**

All lamps and reflectors shall comply with federal regulations.

Four-way hazard warning lights shall be supplied.

LED marker lights shall be supplied.

Daytime running lights (low beam only) shall be supplied.

Halogen composite headlamps with bright bezels shall be supplied.

### **Frame**

Heavy duty frame shall have a minimum RBM of 2,590,000 lbf/in, per rail.

Frame Section Modulus of 21.6 cu. in. minimum, per rail.

Frame shall be tensile steel, 120,000 psi, minimum.

Steel front & rear bumpers shall be supplied

### **Wheels & Tires**

Front wheel rims shall be 5-hand steel disc type 22.5 X 12.25.

Rear wheel rims shall be 2-hand steel disc type 22.5 X 8.25.

Front tires: radial tires; type 425/65R22.5-20 ply rated.

Rear tires: radial tires; type M/S 11R22.5-14 ply rated.

## **DEBRIS BODY**

Construction: A dual radius designed vessel using high strength ASTM A572 grade 50 steel, 1/4" upper and lower radius section, 1/4" sidewalls, front bulkhead and 3/8" rear bulkhead.

Rear door constructed of 1/2" high strength steel ASTM A572 grade 50 steel.

Capacity: 8 cubic yards, minimum.

Door: Hydraulically lock/unlock, raise and lower using one hydraulic cylinder to perform the function. Cylinder shall be equipped with check valve for safety.

Tailgate locking wedges shall have a reverse bevel to maintain a mechanical lock if hydraulic pressure should be lost for any reason.

A replaceable, reversible neoprene seal shall be supplied for the tailgate.

Dumping and door controls shall be located forward of the debris body on the driver's side for safety, so operator does not have to cross in front or behind of vehicle at dump site and so driver shall not be subject to debris from dumping.

External grease able float type debris level indicator w/stainless steel ball.

Debris inlet tube shall enter at top front of tank and continue into tank and extend 3/4 of the specified tank length. Airflow shall then exit at the front of tank for best possible material separation.

Debris shall hit bolted on deflector plate at top tank rather than rear bulkhead to prevent premature wear.

Float type automatic vacuum shutdown system with a stainless steel ball, housed in a carbon steel cage. Systems requiring switches to accomplish this are unacceptable.

Body door hinges and pins: Bolted to enable shim adjustment with grease fittings. Lock receivers shall also be shimmed for adjustment as seal wears.

Tailgate to hydraulically open, close & lock.

Decant: 6" butterfly valve mounted at lowest point of rear door, 20' x 6" lay flat hose with rack.

Internal carbon steel decant screens, hinged to swing away for easy cleaning, shall be supplied; one for decant and one for sludge pump (two total).

Debris tank shall also be equipped with 4" sludge system capable of pumping 710 GPM @ 10' head while vacuuming if needed or independently. 3" ball valve and male cam lock on outlet. Shall include a 4" valve on sludge pump inlet, to be brass slam type.

3" decant line plumbed to the front of the unit with ball valve at front bumper shall be supplied. Ball valve shall be equipped with male cam lock and include jumper hose at rear with cam locks to hook pump to decant line at rear.

Safety body prop shall be supplied to secure body during repairs. It shall be remotely operated so that the operator does not have to get under the debris tank while engaging the prop.

External rear door safety prop shall be provided as a secondary device to hold the door open for cleaning of debris body or inspection.

The debris body shall be equipped with a full flow internal tank flusher system consisting of minimum of (7) stainless steel nozzles mounted in a flush bar at the front bottom bulkhead of the debris body and sized to utilize the full capacity of the primary water pump to clean the debris body. Manifold shall be external and shall not encroach on inside of debris body.

A high pressure ball valve shall be installed at the high pressure manifold to control water to the tank flush, and plumbed from manifold to tank flush.

A bolt-on carbon steel splash shield around sides and bottom of tailgate shall be supplied.

The debris body and water tanks shall be affixed on an independent frame, separate from the chassis and power frame.

Debris tank shall be mounted via a 3 point mounting system to allow flexing.

### **HOIST**

The hoist cylinder shall be a single post type with NTEA performance range. Double-acting cylinder pins must be removable with retaining bolts. It shall provide a minimum lifting capacity of 56,000 lbs. and a minimum dump angle of 50 degrees. The hoist cylinder shall have safety check valves to prevent collapse from hydraulic failure.

### **DUAL WATER TANKS**

Capacity: 1000 U. S. gallons, minimum.

Constructed of ¼" shell and baffles, ½" end plates aluminum or stainless steel only.

Each tank shall be equipped with 2" ball valve low point drains, internal baffles and a six (6) inch crossover tube between tanks for quick and level filling.

Water tanks shall not rise with the debris body while dumping.

Water-tanks shall not share a common wall with debris tank and shall be easily removed in the event of replacement or repair.

Tanks shall be located above chassis frame rails to provide a flooded inlet to the water pump and protection from road damage and off-road uses and for ease of service to drive line components.

Unit shall have an anti-siphon device with 4" air gap and fill hose storage rack. Water fill connection shall be on passenger side and requires a 2 ½" y- strainer.

Unit shall have an electronic water level indicator located at front operator control panel.

Water tanks shall have a lifetime warranty against rust, cracking, material and workmanship.

### **HIGH PRESSURE WATER SYSTEM**

Water pump shall produce 87 GPM @ 2000 PSI, minimum.

Pump shall be a triplex, plunger-style, smooth-flow design. Pumps that require accumulators are unacceptable.

Starting from high pressure side of water pump, 1" I.D. plumbing shall be used up to hose reel, including water manifold, control valve and swivels.

Swivel must be designed so it can be tightened as it wears and be rebuilt.

The water pump shall be driven from chassis engine via transmission, heavy duty OMSI transfer case and hydrostatic drive.

Water pump shall run independently from vacuum pump.

Shall be equipped with full flow adjustable pressure regulator and include a strainer on the water pump inlet.

Pump shall be equipped with drain valve on the low-pressure side at the bottom, center of the pump.

Water pump and vacuum system shall be able to simultaneously operate in continuous duty at maximum water pressure and flow while achieving maximum vacuum.

Pressure and flow controls shall be located at the operator's station.

Water pump shall be located in a position so it has a positive feed from water tanks at all times, regardless of the water tank level. Pump shall be located so a mechanic does not have to remove pump from truck to repair when necessary and there shall be no obstructions in front of pump for ease of access.

The entire high pressure water system shall have an air purge system to dewater all plumbing for winterization. The air shall be supplied by chassis air system that is isolated by a high pressure ball valve and check valve.

Unit shall have a spring retractable handgun hose reel with 50' of 1/2" hose.

### **VACUUM SYSTEM**

The blower shall be Dresser/Roots 8X24.

The vacuum system shall be provided by a positive displacement, rotary lobe-type blower capable of 4000 CFM inlet volume and maximum 18" Hg.

The blower shall have a load rating of 8X24 4000CFM@18"Hg (245 H2O) 204HP@2470RPM.

It shall have dual vacuum relief valves with one set at 17.5" Hg and one set at 18" Hg.

The vacuum system shall have an air operated 4" vacuum relief valve to vent ambient air to the blower intake in order to relieve vacuum in the body and suction tubes/hoses and shall be controlled at control panel and on remote, wireless pendant.

The blower shall be driven from chassis engine via transmission and heavy duty OMSI transfer case and direct drive via drive shaft.

The transfer case shall have a driver's side, remote mounted fill port and sight glass.

The cyclone separator shall be built out of high strength ASTM A572 grade 50 steel, capable of separating material from air stream. Separator shall remove down to 50 micron particles or coarser. The cyclone shall be 24" wide x 75" high and taper down to a dropout box 18" x 18" x 18" including a clean out hatch.

Dropout box shall have a two (2) inch drain with ball valve mounted at bottom of box.

A stainless steel removable strainer basket shall be installed before blower inlet.

Unit shall have non-skid steps with handgrips allowing safe passage from ground level to a work platform at top of unit.

The blower shall contain a high efficiency exhaust silencer with an aluminum rain cap. It shall have a built-in tube rack that shall hold four (4) 8" diameter suction tubes for a total of 24' of tubes with positive lock tube retainer in lieu of bungee straps.

Shall also include an additional rear door tube rack that holds two (2) tubes, with positive lock tube retainer system in lieu of bungee straps.

### **BOOM**

Boom shall be designed for front-end operation with hose mounted and stored at front bumper.

Hydraulically powered up/down, left/right, and in/out shall be accomplished with a single joy stick.

Pick-up hose must be 8" ID, front end operation and stored at front of the unit.

Shall be equipped with a true tube in a tube boom telescoping section with a travel of eight (8) feet six (6) inches.

Boom shall have a total extended length of 24 feet 11 inches from centerline of the unit and a boom coverage area of 552 sq. ft. **Bidder shall submit boom coverage diagram with their bid submission.**

Boom shall have a lifting capacity of 1000 lbs. with dual hydraulic lift cylinders. It shall have a lifting capacity of 550lbs, minimum when boom is fully extended.

Boom shall swing 90 degrees to each side of the truck via a hydraulic driven worm gear. Cylinder rotated boom is unacceptable.

Boom rotation and extension shall be greaseable remotely from ground level.

Boom shall remain stationary and not rise with debris body.

All connections between debris body and vacuum system shall be self-aligning.

Boom with steel elbow must be able to extended and retract without affecting the length of the pickup hose. Rubber hose in place of steel elbow is unacceptable.

Extra heavy duty boom elbow shall have a preformed C channel welded to the outside radius of the elbow.

### **ELECTRICAL SYSTEM**

The entire electrical system shall be sealed to IP66 ratings that exceed NEMA four standards.

All wiring shall be contained in a flexible conduit and wires shall be color coded and have descriptions engraved on wires throughout harness.

The control panel shall be modular.

### **REEL AND OPERATOR STATION**

The front mounted reel shall have the ability to articulate 230 degrees across the front of the unit, with a capacity of 800 feet of 1" hose. The operator shall easily be able to rotate and lock the reel at any angle desired within the rotation.

The hose reel shall be hydraulically powered in both directions by a hydraulic motor coupled to a planetary gearbox. Chain and sprockets are unacceptable due to excessive wear and maintenance.

Hose reel control valve shall have a speed control device to regulate the rotational speed of the reel in both directions.

Hose reel shall rotate on a turntable slewing bearing with a friction brake that can be applied in any rotated position. Gears mounted on hose reel bearing are not acceptable due to missed positions when teeth and pawl don't line up.

Hose reel brake band must be adjustable with turn buckle and be applied by an air cylinder.

Hose reel must be mounted in the center of the chassis frame rails and not rotate out of centerline of frame rails into traffic for safety.

The hose reel shall tilt forward for access to the truck engine via hydraulic cylinder powered by an electric/power pack.

Electric power pack shall run independently from main system. Power pack shall operate whether truck engine is running or not.

Unit shall have a manual dual roller telescoping level wind on hose reel.

Digital footage counter on center shaft of reel shall be installed.

### **CONTROLS AND GAUGES**

Chassis Engine Tachometer/Hour Meter on LCD Display  
 Vacuum Gauge on Color LCD Display  
 Water Pressure Gauge on LCD Display  
 Water Pump Hour Meter on LCD Display  
 Vacuum Pump Hour Meter on LCD Display  
 Hydraulic Pressure Gauge  
 Truck Engine Throttle - Electrically Controlled  
 Water Pump Engage/Hydraulic Flow Control  
 Electric Throttle Safety Return to Idle Switch  
 Reel Tilt  
 On/Off Water Pressure Valve  
 Hose Reel Direction and Speed Control  
 Single Boom Control Joystick to Control All Boom Functions  
 Remote Pendant Push Button Control  
 Hose Reel Articulation Brake Valve  
 Cab Air Shifts for Power Systems  
 Electric Backup Alarm  
 Vacuum Relief  
 Boom Work Lights  
 Low Water Warning Light and Alarm  
 High Debris Level Indicator Hooked to Warning Light and Vacuum Relief

### **HYDRAULIC SYSTEM**

Pump shall be transfer case-mounted piston pump with test ports for troubleshooting.

The hydraulic reservoir shall be a modular component with a minimum of 40 gallons capacity and shall have a level sight-eye and temperature gauge. Ten (150) microns filters shall be installed on both the suction and return lines and shutoff valves shall be installed on suction lines.

Unit shall be equipped with emergency 12 volt dc electric hydraulic powerpack to bypass system so boom, body and hose reel can be moved in the event of engine or hydraulic failure. Manual hand pump systems are not acceptable.

### **LIGHTING**

LED D.O.T. Lighting includes stop, tail, turn and backup lights.

Boom shall be equipped with two work lights.

Rear mounted 360 degree, super LED strobe light.

Side mirror mounted LED Strobe lights- one on left side, one on right side.



Rear mounted traffic advisor-bar type LED Whelen TACF85.

### **TOOLBOXES / ENCLOSURES**

Unit shall have one lockable steel tool box, 18"x18"x36" on passenger side.

Unit shall have one lockable steel tool box, 18"x18"x36" on driver side.

Unit shall have one behind-cab tool cabinet for long-handled tool storage.

Unit shall have one traffic cone holder.

### **REQUIRED ACCESSORIES**

Unit shall be supplied with the following tubing package. 24 feet of 8' aluminum tubing. (1)-8', (2)-5', (1)-3', (1)-3' with catch basin tip.

All tubing and clamps to be band lock type.

600 feet of 1" x 2500-PSI sewer hose shall be installed on the reel.

Clear Lexan type protective shield shall be installed on the hose reel.

One inch radial, dual degree nozzle

One inch flat bottom culvert cleaning nozzle with bottom oriented rear jets

Manhole bottom hose guide tiger tail

25' x 2-1/2" fill hose

Hydrant wrench

Manhole hook

Emergency road kit triangles & 5lbs fire extinguisher

Electric back up alarm

Fenders with mud flaps

Front & rear tow hooks

One set of Operation & Maintenance manuals

One set of chassis Parts and Service manuals

**MOUNTING**

The unit shall be factory mounted on the specified chassis and shall not exceed a height of twelve (12) feet.

No part of the unit shall extend beyond specified height while traveling.

**TRAINING**

Product training shall be provided upon delivery of new unit. The purpose shall be to train operating and maintenance personnel on proper O & M procedures.

**PAINT**

The unit shall be powder coated singular color to match the owner's color specification.

**HYDRO EXCAVATOR PACKAGE**

A hydro excavator package shall be included and shall be frame mounted. It shall operate off of the main water pump rated at 15-20gpm @ 2000 psi. Water pump shall be hydrostatically driven with an on/off control. It shall include an auto-rewinding spring loaded hose reel with 50' of 1/2" hose and a single handgun w/tip rated for system performance.

**WARRANTY**

The basic truck chassis and drive train shall be warranted by the manufacturer for two (2) years, unlimited miles, unless otherwise specified.

The unit body shall have a minimum of one-year warranty against defects in material and workmanship. The warranty shall cover both parts and labor. All other warranties that exceed one year shall apply.

DATE: 7/13/2016

INVITATION TO BID  
THIS IS NOT AN ORDER

Page: 1

BID NO.: 50-00117054

**JEFFERSON PARISH**  
PURCHASING DEPARTMENT  
P.O. BOX 9  
GRETNA, LA. 70054-0009  
504-364-2678

BUYER: MCamardelle@jeffparish.net

BIDS WILL BE RECEIVED IN THE PURCHASING DEPARTMENT, SUITE 4400, JEFFERSON PARISH GENERAL GOVERNMENT BUILDING, 200 DERBIGNY STREET, GRETNA, LA 70053 UNTIL 2:00 PM, 7/28/2016 AND PUBLICLY OPENED THEREAFTER.

**LATE BIDS WILL NOT BE ACCEPTED**

Unless submitting via online (see Page 3), each bid must be submitted in a sealed envelope bearing on the outside; the name of the Bidder, his address, and the name of the project for which the bid is submitted and the bid number.

**NOTE: ONLY BIDS WRITTEN IN INK OR TYPEWRITTEN, AND PROPERLY SIGNED BY A MEMBER OF THE FIRM OR AUTHORIZED REPRESENTATIVE, WILL BE ACCEPTED. PENCIL AND/OR PHOTOSTATIC FIGURES OR SIGNATURES SHALL RESULT IN BID REJECTION.**

**INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS**  
**THE FOLLOWING INSTRUCTIONS APPLY TO ALL BIDS**

All bids submitted are subject to these instructions and general conditions and any special conditions and specifications contained herein, all of which are made part of this bid proposal reference. By submitting a bid, vendor agrees to comply with all provisions of Louisiana Law as well be in compliance with the Jefferson Parish Code of Ordinances, Louisiana Code of Ethics, applicable Jefferson Parish ethical standards and Jefferson Parish Resolution No. 113646 and/or Resolution No. 113647.

All vendors submitting bids must register as a Jefferson Parish vendor if not already yet registered. Bidders may be required to furnish current W-9 Forms and respective Tax Identification Numbers within 10 days after bid opening if such information is not on file or not up to date. Registration forms may be downloaded from [www.purchasing.jeffparish.net](http://www.purchasing.jeffparish.net) and clicking on Vendor Information.

All quotations shall be based on F.O.B. Agency warehouse or job site, anywhere within the Parish as designated by the Purchasing Department. This provision does not apply to public works projects

JEFFERSON PARISH requires all products to be new (current) and all work must be performed according to standard practices for the project. Unless otherwise specified, no aftermarket parts will be accepted. Unless otherwise specified, all workmanship and materials must have at least one (1) year guaranty, in writing, from the date of delivery and/or acceptance of the project. Any deviations or alterations from the specifications must be indicated and/or supporting documentation supplied with bid submission.

Bidders should submit all questions in writing and fax them to the Purchasing Department at (504) 364-2693 no later than FIVE (5) working days prior to bid opening. Bid numbers should be mentioned in all requests. Questions may also be emailed to the buyer for this bid at the email address listed above. If submitting online, vendors may send questions via the E-Procurement site no later than Five (5) working days prior to the bid opening.

If this bid requires a pre-bid conference (see Additional Requirements section), bidders are advised that such conference will be held to allow bidders the opportunity to identify any discrepancies in the bid specifications and seek further clarification regarding instructions. The Purchasing Department will issue a written response to bidders' questions in the form of an Addendum. Please note that all official communication will be expressed in the form of an addendum.

All formal Addenda require written acknowledgement on the bid form by the bidder. Failure to acknowledge an Addendum on the bid form shall cause the bid to be rejected. JEFFERSON PARISH reserves the right to award bid to next lowest responsive and responsible bidder in this event.

The purpose and intention of this invitation to bid is to afford all suppliers an equal opportunity to bid on all construction, maintenance, repair, operating supplies and/or equipment listed in this bid proposal. JEFFERSON PARISH WILL ACCEPT ONE BID ONLY FROM EACH VENDOR. Items bid must meet specifications.

Visit our website at [HTTP://PURCHASING.JEFFPARISH.NET](http://PURCHASING.JEFFPARISH.NET)

JEFFERSON PARISH will accept one price for each item unless otherwise indicated. Two or more prices for one item will result in bid rejection. Bidders are required to complete, sign and return the bid form and/or complete and return the associated line item pricing forms as indicated. Vendors must not alter the bid forms. Doing so will cause the bid to be rejected.

If the bid exceeds \$30,000.00 and the company is duly authorized to do business in the state of Louisiana, a corporate resolution must be submitted with the bid or the person signing the bid documents must be listed on the Louisiana Secretary of State's website as an officer of the corporation, unless bidder has otherwise complied with LSA-R.S. 38:2212(B)(5). If the bid is in excess of \$30,000 and bidder is registered out of the state of Louisiana, a corporate resolution must be submitted with the bid, unless bidder has otherwise complied with LSA-R.S. 38:2212(B)(5). Failure to comply will cause bid to be rejected; the Parish reserves the right to award bid to the next lowest responsive and responsible bidder in this event. Bids submitted by Owner or Sole Proprietorships must include certification that he or she owns the entity for which the bid is signed. Sole proprietors submitting bids for public works projects shall within 10 days after bid opening submit sole proprietorship certification.

NOTE: A sample corporate resolution can be downloaded from our website <http://purchasing.jeffparish.net> or you may provide your own document. A sample certification of sole proprietorship can also be downloaded from our website <http://purchasing.jeffparish.net> or you may provide your own document.

### INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS

A. AWARD OF CONTRACT: JEFFERSON PARISH reserves the right to award contracts or place orders on a lump sum or individual item basis, or such combination, as shall in its judgment be in the best interest of JEFFERSON PARISH. Every contract or order shall be awarded to the LOWEST RESPONSIVE and RESPONSIBLE BIDDER, taking into consideration the CONFORMITY WITH THE SPECIFICATIONS and the DELIVERY AND/OR COMPLETION DATE. IN THE EVENT OF SPLIT AWARD, THE PURCHASING DEPARTMENT MAY CONTACT VENDORS TO REQUEST REQUIRED AFFIDAVITS. THOSE VENDORS WILL HAVE 10 DAYS FROM THE DATE OF NOTICE TO SUBMIT COMPLETE, SIGNED AND NOTARIZED AFFIDAVITS IN ORIGINAL FORMATS.

All bid prices shall remain valid for 45 days. Jefferson Parish and the lowest responsive and responsible bidder(s) by mutual written consent may mutually agree to extend the deadline for award by one (1) or more extensions of thirty (30) calendar days.

Preference is hereby given to materials, supplies, and provisions produced, manufactured or grown in Louisiana, quality being equal to articles offered by competitors outside the state. "LSA-R.S.38:2251-2261"

B. USE OF BRAND NAMES AND STOCK NUMBERS: Where brand names and stock numbers are specified, it is for the purpose of establishing certain minimum standards of quality. Bids may be submitted for products of equal quality, provided brand names and stock numbers are specified. Complete product data may be required prior to award.

C. CANCELLATION OF CONTRACT: JEFFERSON PARISH reserves the right to cancel all or any part if not shipped promptly. No charges will be allowed for parking or cartage unless specified in quotation. The order must not be filled at a higher price than quoted. JEFFERSON PARISH reserves the right to cancel any contract at anytime and for any reason by issuing a THIRTY (30) day written notice to the contractor.

For good cause and as consideration for executing a contract with Jefferson Parish, vendor conveys, sells, assigns and transfers to Jefferson Parish or its assigns all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of Louisiana, relating to the particular good or services purchased or acquired by Jefferson Parish.

D. PRICES: Jefferson Parish is exempt from paying sales tax under LSA-R.S. 47:301 (8)(c). All prices for purchases by Jefferson Parish of supplies and materials shall be quoted in the unit of measure specified and unless otherwise specified, shall be exclusive of state and Parish taxes. The price quoted for work shall be stated in figures. In the event there is a difference in unit prices and totals, the unit price shall prevail.

Quantities listed are for bidding purposes only. Actual requirements may be more or less than quantities listed.

Bidders are not to exclude from participation in, deny the benefits of, or subject to discrimination under any program or activity, any person in the United States on the grounds of race, color, national origin, or sex; nor discriminate on the basis of age under the Age Discrimination Act of 1975, or with respect to an otherwise qualified handicapped individual as provided in Section 504 of the Rehabilitation Act of 1973, or on the basis of religion, except that any exemption from such prohibition against discrimination on the basis of religion as provided in the Civil Rights Act of 1964, or Title VI and VII of the Act of April 11, 1968, shall also apply. This assurance includes compliance with the administrative requirements of the Revenue Sharing final handicapped discrimination provisions contained in Section 51.55 (c), (d), (e), and (k)(5) of the Regulations. New construction or renovation projects must comply with Section 504 of the 1973 Rehabilitation Act, as amended, in accordance with the American National Standard Institute's specifications (ANSI A17.1-1961).

## INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS

Advertised bids will be tabulated and a copy of the tabulation will be forwarded to each responding bidder.

**IN ACCORDANCE WITH STATE REGULATIONS JEFFERSON PARISH OFFERS ELECTRONIC PROCUREMENT TO ALL VENDORS**

This electronic procurement system allows vendors the convenience of reviewing and submitting bids online. This is a secure site and authorized personnel have limited read access only. Bidders are encouraged to submit electronically using this free service; while the website accepts various file types, one single PDF file containing all appropriate and required bid documents is preferred. Bidders submitting uploaded images of bid responses are solely responsible for clarity. If uploaded images/documents are not legible, then bidder's submission will be rejected. Please note all requirements contained in this bid package for electronic bid submission.

Please visit the Purchasing Department webpage at <http://purchasing.jeffparish.net> to register and review Jefferson Parish solicitations.

The general specifications for construction projects and the purchase of materials, services and/or supplies are those adopted by the JEFFERSON PARISH Council by Resolution No. 113646 or 113647 dated 12/09/09. The general conditions adopted by this resolution shall be considered as much a part of this document as if they were written wholly herein. A copy may be obtained from the Office of the Parish Clerk, Suite 6700, Jefferson Parish General Government Building, 200 Derbigny Street, Gretna, LA 70053. You may also obtain a copy by visiting the Purchasing Department webpage at <http://purchasing.jeffparish.net> and clicking on Online Forms.

**ADDITIONAL REQUIREMENTS FOR THIS BID**

PLEASE MATCH THE NUMBERS PRINTED IN THIS BOX WITH THE  
CORRESPONDING INSTRUCTIONS BELOW.

**13, 15**

1. All bidders must attend the MANDATORY pre-bid conference and will be required to sign in and out as evidence of attendance. In accordance with LSA R.S. 38:2212(l), all prospective bidders shall be present at the beginning of the MANDATORY pre-bid conference and shall remain in attendance for the duration of the conference. Any prospective bidder who fails to attend the conference or remain for the duration shall be prohibited from submitting a bid for the project.
2. Attendance to this pre-bid conference is optional. However, failure to attend the pre-bid conference shall not relieve the bidder of responsibility for information discussed at the conference. Furthermore, failure to attend the pre-bid conference and inspection does not relieve the successful bidder from the necessity of furnishing materials or performing any work that may be required to complete the work in accordance with the specification with no additional cost to the owner.
3. Contractor must hold current applicable JEFFERSON PARISH licenses with the Department of Inspection and Code Enforcement. Contractor shall obtain any and all permits required by the JEFFERSON PARISH Department of Inspection and Code Enforcement. The contractor shall be responsible for the payment of these permits. All permits must be obtained prior to the start of the project. Contractor must also hold any and all applicable Federal and State licenses. Contractor shall be responsible for the payment of these permits and shall obtain them prior to the start of the project.
4. A LA State Contractor's License will be required in accordance with LSA R.S. 37-2150 et. seq. and such license number will be shown on the outside of the bid envelope. Failure to comply will cause the bid to be rejected. Additionally if submitting the bid electronically, then the license number must be entered in the appropriate field in the Electronic Procurement system. Failure to comply will cause the bid to be rejected.
5. It is the bidder's responsibility to visit the job site and evaluate the job before submitting a bid.
6. Job site must be clean and free of all litter and debris daily and upon completion of the contract. Passageways must be kept clean and free of material, equipment, and debris at all times. Flammable material must be removed from the job site daily because storage will not be permitted on the premises. Precautions must be exercised at all times to safeguard the welfare of JEFFERSON PARISH and the general public.

**INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS**

7. **PUBLIC WORKS BIDS:** All awards for public works in excess of \$5,000.00 will be reduced to a formal contract which shall be recorded at the contractor's expense with the Clerk of Court and Ex-Officio Recorder of Mortgages for the Parish of Jefferson. A price list of recordation costs may be obtained from the Clerk of Court and Ex-Officio Recorder of Mortgages for the Parish of Jefferson. All awards in excess of \$25,000.00 will require both a performance and a payment bond. Unless otherwise stated in the bid specifications, the performance bond requirements shall be 100% of the contract price. Unless otherwise state in the bid specifications, the payment bond requirements shall be 100% of the contract price. Both bonds shall be supplied at the signing of the contract.
8. **NON-PUBLIC WORKS BIDS:** A performance bond will be required for this bid. The amount of the bond will be 100% of the contract price unless otherwise indicated in the specifications. The performance bond shall be supplied at the signing of the contract.
9. **NON-PUBLIC WORKS BIDS:** A payment bond will be required for this bid. The amount of the bond will be 100% of the contract price unless otherwise indicated in the specifications. The payment bond shall be supplied at the signing of the contract.
10. Unless otherwise stated in the bid specifications, the successful bidder will be required to procure standard insurance policies evidencing Parish-mandated insurance requirements as indicated on the attached sheet. The current certificate of insurance must be submitted by low bidder within 10 days after bid opening to the Purchasing Department. Failure to comply will cause bid to be rejected. JEFFERSON PARISH reserves the right to award bid to the next lowest responsive and responsible bidder in this event.
11. A bid bond will be required with bid submission in the amount of 5% of the total bid, unless otherwise stated in the bid specifications. Acceptable forms shall be limited to cashier's check, certified check, or surety bid bond. All sureties must be in original format (no copies) If submitting a bid online, vendors must submit an electronic bid bond through the respective online clearinghouse bond management system(s) as indicated in the electronic bid solicitation on Central Auction House. No scanned paper copies of any bid bond will be accepted as part of the electronic bid submission.
12. This is a requirements contract to be provided on an as needed basis. JEFFERSON PARISH makes no representations on warranties with regard to minimum guaranteed quantities unless otherwise stated in the bid specifications.
13. Freight charges should be included in total cost when quoting. If not quoted FOB DELIVERED, freight must be quoted as a separate item. Bid may be rejected if not quoted FOB DELIVERED or if freight charges are not indicated on bid form.
14. **PUBLIC WORKS BIDS - Completed, Signed and Properly Notarized Affidavits (in Original Format) required;** Non-Conviction Affidavit, Non-Collusion Affidavit, Campaign Contribution Affidavit and E-Verify Affidavit must be completed, signed, notarized and submitted by low bidder within 10 days after bid opening to the Purchasing Department on all solicitations for construction, alteration or demolition of public building or project, including but not limited to requirements found in LSA-RS 38:2212.9; LSA-RS 38:2212.10; LSA-RS 38:2224; Code of Ordinances, Jefferson Parish, Louisiana, Sec 2-923.1. Failure to comply will cause bid to be rejected; the Parish reserves the right to award bid to the next lowest responsive and responsible bidder in this event. For the convenience of vendors, all affidavits have been combined into one form entitled PUBLIC WORKS BID AFFIDAVIT. This affidavit must be submitted in its original format for the bid to be considered responsive.
15. **NON PUBLIC WORK BIDS - Completed, Signed and Properly Notarized Affidavits (in Original Format) required;** Non-Collusion Affidavit, and Campaign Contribution Affidavit must be completed, signed, notarized and submitted by low bidder within 10 days after bid opening to the Purchasing Department. See LSA-RS 38:2212.10; LSA-RS 38:2224; Code of Ordinances, Jefferson Parish, Louisiana, Sec 2-923.1 Failure to comply will cause bid to be rejected; the Parish reserves the right to award bid to the next lowest responsive and responsible bidder in this event. For the convenience of vendors, all affidavits have been combined into one form entitled NON PUBLIC WORKS BID AFFIDAVIT. This affidavit must be submitted in its original format for the bid to be considered responsive.
16. The ensuing contract for this bid solicitation may be eligible for FEMA reimbursement and/or Federal funding reimbursement.. As such, the referenced attachment will be applicable accordingly and shall be considered a part of the bid documents. All applicable certifications must be duly completed, signed and submitted within 10 days of bid opening. Failure to submit applicable certifications within 10 days of bid opening will result in bid rejection.
17. For this project, the Contractor shall not pay any state or local sales or use taxes on materials and equipment which are affixed and made part of the immovable property of the project or which permanently incorporated in the project (hereinafter referred to as "applicable materials and equipment"). All purchases of applicable materials or equipment shall be made by the contractor on behalf of and as the agent of Jefferson Parish (Owner), a political subdivision of the State of Louisiana. No state and local sales and use taxes are owned on applicable materials and equipment under the provisions of Act 1029 of the 1991 Regular Session – Louisiana Revised Statute 47:301(8)(c). Owner will furnish contractor a certificate form which certifies that Owner is not required to pay such state or local sales and use taxes, and contractor shall furnish a copy of such certificate to all vendors or suppliers of the applicable materials and equipment

It shall be the duty of every parish officer, employee, department, agency, special district, board, and commission: and the duty of every contractor, subcontractor, and licensee of the parish, and the duty of every applicant for certification of eligibility for a parish contract or program, to cooperate with the Inspector General in any investigation, audit, inspection, performance review, or hearing pursuant to Jefferson Parish Code of Ordinances Section 2-155.10(19). By submitting a bid, vendor acknowledges this and will abide by all provisions of the referenced Jefferson Parish Code of Ordinances.



**All Public Work Projects are required to use the Louisiana Uniform Public Work Bid Form**

All prices must be held firm unless an escalation provision is requested in this bid. Jefferson Parish will allow one escalation during the term of the contract, which may not exceed the U.S. Bureau of Labor Statistics National Index for all Urban Consumers, unadjusted 12 month figure. The most recently published figure issued at the time an adjustment is requested will be used. A request must be made in writing by the vendor, and the escalation will only be applied to purchases made after the request is made.

Are you requesting an escalation provision?

YES \_\_\_\_\_ NO ☒

MAXIMUM ESCALATION PERCENTAGE REQUESTED \_\_\_\_\_%

INITIAL BID PRICES WILL REMAIN FIRM THROUGH THE DATE OF July 28, 2017 CP

For the purposes of comparison of bids when an escalation provision is requested, Jefferson Parish will apply the maximum escalation percentage quoted by the bidder to the period to which it is applied in the bid. The initial price and the escalation will be used to calculate the total bid price. It will be assumed, for comparison of prices only, that an equal amount of material or labor is purchased each month throughout the entire contract.

**DELIVERY: FOB JEFFERSON PARISH**

INDICATE DELIVERY DATE ON EQUIPMENT AND SUPPLIES

150-180 Days A.R.O.

LOUISIANA CONTRACTOR'S LICENSE NO.: (if applicable)

N/A**THIS SECTION MUST BE COMPLETED BY BIDDER:**FIRM NAME: Covington Sales & Service, Inc.ADDRESS: 7868 Florida Blvd. (P.O. Box 1144) 70727CITY, STATE: Denham Springs, LA ZIP: 70726TELEPHONE: (225) 664-7427 FAX: (225) 665-1567EMAIL ADDRESS: patsanchez@covingtonsales.com

In the event that addenda are issued with this bid, bidders MUST acknowledge all addenda on the bid form. Bidder must acknowledge receipt of an addendum on the bid form as indicated. Failure to acknowledge any addendum on the bid form will result in bid rejection.

Acknowledge Receipt of Addenda: NUMBER: \_\_\_\_\_

NUMBER: \_\_\_\_\_

NUMBER: \_\_\_\_\_

NUMBER: \_\_\_\_\_

TOTAL PRICE OF ALL BID ITEMS: \$ \_\_\_\_\_

AUTHORIZED SIGNATURE: Chris KinchenTITLE: PRESIDENTChris Kinchen

Printed Name

SIGNING INDICATES YOU HAVE READ AND COMPLY WITH THE INSTRUCTIONS AND CONDITIONS.

NOTE: All bids should be returned with the BID NUMBER and BID OPENING DATE indicated on the outside of the envelope submitted to the Purchasing Department.

## INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00117054

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
1	1.00	ONLY	<p>PURCHASE OF TRUCK MOUNTED COMBINATION JET/VACUUM MACHINE</p> <p>0010 Purchase of VacAll Model AJV - 810 Combination Units on a 2016 Freightliner Chassis Model 108SD with Setback Front Axle</p>	\$319,486.00	\$319,486.00



**CORPORATE RESOLUTION**

EXCERPT FROM MINUTES OF MEETING OF THE BOARD OF DIRECTORS OF  
Covington Sales & Service  
INCORPORATED.

AT THE MEETING OF DIRECTORS OF Covington Sales & Service  
INCORPORATED, DULY NOTICED AND HELD ON June 11, 2013,  
A QUORUM BEING THERE PRESENT, ON MOTION DULY MADE AND SECONDED. IT  
WAS:

RESOLVED THAT Chris Kinchen, President, BE AND IS HEREBY  
APPOINTED, CONSTITUTED AND DESIGNATED AS AGENT AND ATTORNEY-IN-  
FACT OF THE CORPORATION WITH FULL POWER AND AUTHORITY TO ACT ON  
BEHALF OF THIS CORPORATION IN ALL NEGOTIATIONS, BIDDING, CONCERNS  
AND TRANSACTIONS WITH THE PARISH OF JEFFERSON OR ANY OF ITS AGENCIES,  
DEPARTMENTS, EMPLOYEES OR AGENTS, INCLUDING BUT NOT LIMITED TO, THE  
EXECUTION OF ALL BIDS, PAPERS, DOCUMENTS, AFFIDAVITS, BONDS, SURETIES,  
CONTRACTS AND ACTS AND TO RECEIVE ALL PURCHASE ORDERS AND NOTICES  
ISSUED PURSUANT TO THE PROVISIONS OF ANY SUCH BID OR CONTRACT, THIS  
CORPORATION HEREBY RATIFYING, APPROVING, CONFIRMING, AND ACCEPTING  
EACH AND EVERY SUCH ACT PERFORMED BY SAID AGENT AND ATTORNEY-IN-  
FACT.

I HEREBY CERTIFY THE FOREGOING TO BE  
A TRUE AND CORRECT COPY OF AN  
EXCERPT OF THE MINUTES OF THE ABOVE  
DATED MEETING OF THE BOARD OF  
DIRECTORS OF SAID CORPORATION, AND  
THE SAME HAS NOT BEEN REVOKED OR  
RESCINDED.

Jacquelyn C. Covington  
SECRETARY-TREASURER

July 25, 2016  
DATE

## **Non-Public Works Bid Affidavit Instructions**

- **Affidavit is supplied as a courtesy to Affiants, but it is the responsibility of the affiant to insure the affidavit they submit to Jefferson Parish complies, in both form and content, with federal, state and parish laws.**
- **Affidavit must be signed by an authorized representative of the entity or the affidavit will not be accepted.**
- **Affidavit must be notarized or the affidavit will not be accepted.**
- **Notary must sign name, print name, and include bar/notary number, or the affidavit will not be accepted.**
- **Affiant MUST select either A or B when required or the affidavit will not be accepted.**
- **Affiants who select choice A must include an attachment or the affidavit will not be accepted.**
- **If both choice A and B are selected, the affidavit will not be accepted.**
- **Affidavit marked N/A will not be accepted.**
- **It is the responsibility of the Affiant to submit a new affidavit if any additional campaign contributions are made after the affidavit is executed but prior to the time the council acts on the matter.**

*Instruction sheet may be omitted when submitting the affidavit*

**Non-Public Works Bid****AFFIDAVIT**STATE OF LouisianaPARISH/COUNTY OF Livingston

BEFORE ME, the undersigned authority, personally came and appeared: Chris  
Kinchen, (Affiant) who after being by me duly sworn, deposed and said that  
he/she is the fully authorized President of Covington Sales & Service, Inc. (Entity),  
the party who submitted a bid in response to Bid Number 50-00117054, to the Parish of  
Jefferson.

Affiant further said:

Campaign Contribution Disclosures

**(Choose A or B, if option A is indicated please include the required attachment):**

**Choice A** \_\_\_\_\_ Attached hereto is a list of all campaign contributions, including the date and amount of each contribution, made to current or former elected officials of the Parish of Jefferson by Entity, Affiant, and/or officers, directors and owners, including employees, owning 25% or more of the Entity during the two-year period immediately preceding the date of this affidavit or the current term of the elected official, whichever is greater. Further, Entity, Affiant, and/or Entity Owners have not made any contributions to or in support of current or former members of the Jefferson Parish Council or the Jefferson Parish President through or in the name of another person or legal entity, either directly or indirectly.

**Choice B** ✓ there are **NO** campaign contributions made which would require disclosure under Choice A of this section.

Debt Disclosures

**(Choose A or B, if option A is indicated please include the required attachment):**

**Choice A** \_\_\_\_\_ Attached hereto is a list of all debts owed by the affiant to any elected or appointed official of the Parish of Jefferson, and any and all debts owed by any elected or appointed official of the Parish to the Affiant.

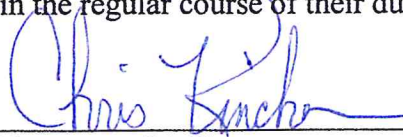
**Choice B** ✓ There are **NO** debts which would require disclosure under Choice A of this section.

Affiant further said:

That Affiant has employed no person, corporation, firm, association, or other organization, either directly or indirectly, to secure the public contract under which he received payment, other than persons regularly employed by the Affiant whose services in connection with the construction, alteration or demolition of the public building or project or in securing the public contract were in the regular course of their duties for Affiant; and

*[The remainder of this page is intentionally left blank.]*

That no part of the contract price received by Affiant was paid or will be paid to any person, corporation, firm, association, or other organization for soliciting the contract, other than the payment of their normal compensation to persons regularly employed by the Affiant whose services in connection with the construction, alteration or demolition of the public building or project were in the regular course of their duties for Affiant.



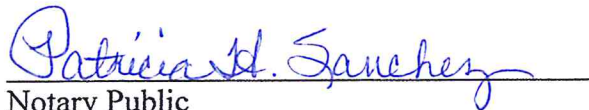
Signature of Affiant

Chris Kinchen

Printed Name of Affiant

SWORN AND SUBSCRIBED TO BEFORE ME

ON THE 25th DAY OF July, 2016.



Notary Public

Patricia H. Sanchez

Printed Name of Notary

51225

Notary/Bar Roll Number

My commission expires with death.

Print

## Notary Search - Detail

**Name:** MS. PATRICIA H. SANCHEZ**Address:** 19119 CORY ROAD  
LORANGER, LA 70446**Phone:** (985) 606-0354**Phone 2:** (985) 320-9882**Notary ID Number:** 51225**Parish:** TANGIPAHOA with authority in the following parishes:  
LIVINGSTON, ST. HELENA**Agency:** N/A**Notary Type:** Non Attorney**Status:** Active**Commission Date:** 10/09/2000**Oath Date:** 09/29/2000**Surety Expiration Date:** 09/13/2020**Annual Report Current:** Yes

## Notary Events

**Suspension** From: 09/15/2015 To: 09/29/2015**Suspension** From: 12/09/2014 To: 01/27/2015**Name Change** Previous Name: PATRICIA H. BERGERON  
Previous Commission Date: 09/25/1995

Deceased, Inactivated, Leave of Absence, Pre-Assessment Registration, Pre-Assessment Taken, Resigned, Retirement, and Revoked events are not available prior to February 11, 2012.

[Back to Search Results](#)[New Search](#)



License No. RP-2016-00211  
DPS Code: RDCC

2016-2018

Not Transferable  
Valid Only at Address Below

# Louisiana Motor Vehicle Commission

This Certifies that

Covington Sales & Service, Inc.  
7868 Florida Boulevard  
Denham Springs, LA 70726  
Raymond E. Covington & Chris Kinchen, Dealer-Operators

is duly licensed as a  
Recreational Product(s) Dealer

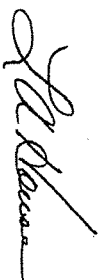
of the following

Conversion(s) : CUES, Duraco, PB Loader, PipeHunter, Schwarze, Tiger, VAC-CON, VT LeeBoy  
Utility Trailer(s) : Cimline (Metro, Magma, Matrix II), Cimline (Metro, Magma, Matrix II)  
Cues Custom Inspection Units (Cust Waterline Inspection Unit)  
Cues Custom Inspection Units (Cust Waterline Inspection Unit), Dura Patcher  
(Dura Patcher 125DJT, Dura Box Asphalt Maintainer, 1000gal Duratonic Model 1000TT)  
Dura Patcher (Dura Patcher 125DJT, Dura Box Asphalt Maintainer  
1000gal Duratonic Model 1000TT), Environmental Bagging System (EBS-D-S)  
Environmental Bagging System (EBS-D-S), Texas Underground (Single Axle Trailer Jet  
Tandem Axle Trailer Jet, Vacuum Trailer, Combination Vacuum/Camera), Texas Underground  
CONTINUES ON NEXT PAGE  
For the period ending May 31, 2018, unless license is sooner revoked.

In Witness whereof, **LOUISIANA MOTOR VEHICLE COMMISSION**, under and by virtue of the  
authority vested in it by the laws of the State of Louisiana, has caused this license to be issued with its seal  
imprinted hereon.

**LOUISIANA MOTOR VEHICLE COMMISSION**

Dated June 30, 2016  
Signed, Sealed and Attested

  
Executive Director

  
Chairman

(To be prominently displayed in place of business)



License No: RP-2016-00211  
DPS Code: RDCC

2016-2018

Page: 2

Covington Sales & Service, Inc.

CONTINUED

(Single Axle Trailer Jet, Tandem Axle Trailer Jet, Vacuum Trailer  
Combination Vacuum/Camera), VT LeeBoy (Asphalt Distributor - RMT1000), VT LeeBoy  
(Asphalt Distributor - RMT1000)





Prepared for:  
VAC CON INC  
969 HALL PARK DRIVE  
GREEN COVE SPRINGS, FL 32043  
Phone: 904-284-4200

## S P E C I F I C A T I O N   P R O P O S A L

Data Code	Description	Weight Front	Weight Rear
<b>Price Level</b>			
PRL-14D	SD PRL-14D (EFF:10/05/15)		
<b>Data Version</b>			
DRL-034	SPECPRO21 DATA RELEASE VER 034		
<b>Vehicle Configuration</b>			
001-177	114SD CONVENTIONAL CHASSIS	7,934	6,576
004-217	2017 MODEL YEAR SPECIFIED		
002-004	SET BACK AXLE - TRUCK	480	-480
019-002	STRAIGHT TRUCK PROVISION		
003-001	LH PRIMARY STEERING LOCATION		
<b>General Service</b>			
AA1-002	TRUCK CONFIGURATION		
AA6-001	DOMICILED, USA 50 STATES (INCLUDING CALIFORNIA AND CARB OPT-IN STATES)		
A85-010	UTILITY/REPAIR/MAINTENANCE SERVICE		
A84-1UT	UTILITY BUSINESS SEGMENT		
AA4-002	LIQUID BULK COMMODITY		
AA5-002	TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN TRANSIT, IS SPENT ON PAVED ROADS		
AB1-008	MAXIMUM 8% EXPECTED GRADE		
AB5-001	SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE		
995-1A0	FREIGHTLINER SD VOCATIONAL WARRANTY		
A66-99D	EXPECTED FRONT AXLE(S) LOAD : 20000.0 lbs		
A68-99D	EXPECTED REAR DRIVE AXLE(S) LOAD : 40000.0 lbs		
A63-99D	EXPECTED GROSS VEHICLE WEIGHT CAPACITY : 60000.0 lbs		
<b>Truck Service</b>			

Prepared for:  
VAC CON INC  
969 HALL PARK DRIVE  
GREEN COVE SPRINGS, FL 32043  
Phone: 904-284-4200

Data Code	Description	Weight Front	Weight Rear
AA3-034	SEWER/INDUSTRIAL VACUUM BODY		
A89-99D	BRAKING-EXPECTED CAB TO BODY CLEARANCE : 3.0 in		
<b>Engine</b>			
101-2XN	CUM ISL 370 HP @ 2000 RPM, 2100 GOV RPM, 1250 LB/FT @ 1400 RPM	-850	-70
<b>Electronic Parameters</b>			
79A-072	72 MPH ROAD SPEED LIMIT		
79B-000	CRUISE CONTROL SPEED LIMIT SAME AS ROAD SPEED LIMIT		
79K-009	PTO MODE ENGINE RPM LIMIT - 1200 RPM		
79L-011	PTO MODE THROTTLE OVERRIDE - LIMIT TO 1400 RPM		
79M-001	PTO MODE BRAKE OVERRIDE - SERVICE BRAKE APPLIED		
79P-009	PTO RPM WITH CRUISE SET SWITCH - 1200 RPM		
79Q-009	PTO RPM WITH CRUISE RESUME SWITCH - 1200 RPM		
79S-001	PTO MODE CANCEL VEHICLE SPEED - 5 MPH		
79U-006	PTO GOVERNOR RAMP RATE - 200 RPM PER SECOND		
80G-002	PTO MINIMUM RPM - 700		
80J-002	REGEN INHIBIT SPEED THRESHOLD - 5 MPH		
<b>Engine Equipment</b>			
99C-016	2016 ONBOARD DIAGNOSTICS/2010 EPA/CARB/GHG17 BUT NOT FINAL GHG17 CONFIGURATION		
99D-011	2008 CARB EMISSION CERTIFICATION - CLEAN IDLE (INCLUDES 6X4 INCH LABEL ON LOWER FORWARD CORNER OF DRIVER DOOR)		
PMT-998	NO 2013 ENGINE ESCALATOR		
13E-001	STANDARD OIL PAN		
105-001	ENGINE MOUNTED OIL CHECK AND FILL		
014-1B5	SIDE OF HOOD AIR INTAKE WITH DONALDSON HIGH CAPACITY AIR CLEANER WITH SAFETY ELEMENT, FIREWALL MOUNTED		
124-1D7	DR 12V 160 AMP 28-SI QUADRAMOUNT PAD ALTERNATOR WITH REMOTE BATTERY VOLT SENSE		
292-098	(2) ALLIANCE MODEL 1231, GROUP 31, 12 VOLT MAINTENANCE FREE 2250 CCA THREADED STUD BATTERIES	-50	-10
290-017	BATTERY BOX FRAME MOUNTED		

Prepared for:  
VAC CON INC  
969 HALL PARK DRIVE  
GREEN COVE SPRINGS, FL 32043  
Phone: 904-284-4200

Data Code	Description	Weight Front	Weight Rear
281-001	STANDARD BATTERY JUMPERS		
282-001	SINGLE BATTERY BOX FRAME MOUNTED LH SIDE UNDER CAB		
291-017	WIRE GROUND RETURN FOR BATTERY CABLES WITH ADDITIONAL FRAME GROUND RETURN		
289-001	NON-POLISHED BATTERY BOX COVER		
293-060	POSITIVE LOAD DISCONNECT WITH CAB MOUNTED CONTROL SWITCH WITH LOCKING PROVISION MOUNTED OUTBOARD DRIVER SEAT	8	
295-029	POSITIVE AND NEGATIVE POSTS FOR JUMPSTART LOCATED ON FRAME NEXT TO STARTER	2	
107-032	CUMMINS TURBOCHARGED 18.7 CFM AIR COMPRESSOR WITH INTERNAL SAFETY VALVE		
152-041	ELECTRONIC ENGINE INTEGRAL SHUTDOWN PROTECTION SYSTEM		
128-032	C-BRAKE BY JACOBS WITH LOW/OFF/HIGH BRAKING DASH SWITCH	80	
016-1C2	RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE	30	25
28F-002	ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD REGENERATION AND DASH MOUNTED REGENERATION REQUEST SWITCH		
239-200	INTEGRATED STACK AND B-PILLAR PIPE WITH MINIMUM STACK PROTRUSION ABOVE CAB		
237-1CR	RH CURVED VERTICAL TAILPIPE B-PILLAR MOUNTED ROUTED FROM STEP		
23U-001	6 GALLON DIESEL EXHAUST FLUID TANK	-35	-10
30N-003	100 PERCENT DIESEL EXHAUST FLUID FILL		
23Y-001	STANDARD DIESEL EXHAUST FLUID PUMP MOUNTING		
43X-002	LH MEDIUM DUTY STANDARD DIESEL EXHAUST FLUID TANK LOCATION		
43Y-001	STANDARD DIESEL EXHAUST FLUID TANK CAP		
242-011	ALUMINUM AFTERTREATMENT DEVICE/MUFFLER/TAILOPIPE SHIELD(S)		
273-048	HORTON 2-SPEED DRIVEMASTER ADVANTAGE POLAREXTREME FAN DRIVE		
276-001	AUTOMATIC FAN CONTROL WITHOUT DASH SWITCH, NON ENGINE MOUNTED		
110-003	CUMMINS SPIN ON FUEL FILTER		
118-008	COMBINATION FULL FLOW/BYPASS OIL FILTER		

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Data Code	Description	Weight Front	Weight Rear
120-009	FLEETGUARD PLAIN COOLANT FILTER		
266-017	1300 SQUARE INCH ALUMINUM RADIATOR	-20	
103-039	ANTIFREEZE TO -34F, OAT (NITRITE AND SILICATE FREE) EXTENDED LIFE COOLANT		
171-007	GATES BLUE STRIPE COOLANT HOSES OR EQUIVALENT		
172-001	CONSTANT TENSION HOSE CLAMPS FOR COOLANT HOSES		
270-016	RADIATOR DRAIN VALVE		
360-013	1350 ADAPTER FLANGE FOR FRONT PTO PROVISION	20	
132-004	ELECTRIC GRID AIR INTAKE WARMER		
155-058	DELCO 12V 38MT HD STARTER WITH INTEGRATED MAGNETIC SWITCH	-10	

#### Transmission

342-582	ALLISON 3000 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION
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#### Transmission Equipment

343-339	ALLISON VOCATIONAL PACKAGE 223 - AVAILABLE ON 3000/4000 PRODUCT FAMILIES WITH VOCATIONAL MODELS RDS, HS, MH AND TRV
84B-012	ALLISON VOCATIONAL RATING FOR ON/OFF HIGHWAY APPLICATIONS AVAILABLE WITH ALL PRODUCT FAMILIES
84C-023	PRIMARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY
84D-023	SECONDARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY
84E-000	PRIMARY SHIFT SCHEDULE RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE
84F-000	ENHANCED CONVERTER LOAD RELEASE - DISABLED, AVAILABLE FOR ALL PRODUCT FAMILIES ONLY
84G-000	PRIMARY SHIFT SPEED RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE
84H-000	SECONDARY SHIFT SPEED RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE
84L-000	LOAD BASED SHIFT SCHEDULE AND VEHICLE ACCELERATION CONTROL RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED VOCATIONAL USAGE

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Data Code	Description	Weight Front	Weight Rear
84U-000	DRIVER SWITCH INPUT - DEFAULT - NO SWITCHES		
353-023	VEHICLE INTERFACE WIRING CONNECTOR WITHOUT BLUNT CUTS, AT END OF FRAME		
34C-001	ELECTRONIC TRANSMISSION CUSTOMER ACCESS CONNECTOR FIREWALL MOUNTED		
362-035	CUSTOMER INSTALLED CHELSEA 277 SERIES PTO		
363-001	PTO MOUNTING, LH SIDE OF MAIN TRANSMISSION		
341-018	MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSION DRAIN, AXLE(S) FILL AND DRAIN		
345-003	PUSH BUTTON ELECTRONIC SHIFT CONTROL, DASH MOUNTED		
97G-004	TRANSMISSION PROGNOSTICS - ENABLED 2013		
370-015	WATER TO OIL TRANSMISSION COOLER, IN RADIATOR END TANK	-30	
346-003	TRANSMISSION OIL CHECK AND FILL WITH ELECTRONIC OIL LEVEL CHECK		
35T-001	SYNTHETIC TRANSMISSION FLUID (TES-295 COMPLIANT)		

#### Front Axle and Equipment

400-1BB	DETROIT DA-F-20.0-5 20,000# FL1 71.0 KPI/3.74 DROP SINGLE FRONT AXLE	210
402-030	MERITOR 16.5X6 Q+ CAST SPIDER CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES	10
403-002	NON-ASBESTOS FRONT BRAKE LINING	
419-023	CONMET CAST IRON FRONT BRAKE DRUMS	
427-001	FRONT BRAKE DUST SHIELDS	5
409-021	SKF SCOTSEAL PLUS XL FRONT OIL SEALS	
408-001	VENTED FRONT HUB CAPS WITH WINDOW, CENTER AND SIDE PLUGS - OIL	
416-022	STANDARD SPINDLE NUTS FOR ALL AXLES	
405-002	MERITOR AUTOMATIC FRONT SLACK ADJUSTERS	
406-001	STANDARD KING PIN BUSHINGS	
536-055	TRW THP-60 POWER STEERING WITH RCH45 AUXILIARY GEAR	130
539-003	POWER STEERING PUMP	
534-003	4 QUART POWER STEERING RESERVOIR	5
533-001	OIL/AIR POWER STEERING COOLER	5
40T-001	ORGANIC SAE 80/90 FRONT AXLE LUBE	

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Data Code	Description	Weight Front	Weight Rear
<b>Front Suspension</b>			
620-025	20,000# TAPERLEAF FRONT SUSPENSION	200	
619-005	MAINTENANCE FREE RUBBER BUSHINGS - FRONT SUSPENSION		
410-001	FRONT SHOCK ABSORBERS		
<b>Rear Axle and Equipment</b>			
420-1K3	MT-40-14X 40,000# R-SERIES TANDEM REAR AXLE		-40
421-586	5.86 REAR AXLE RATIO		
424-001	IRON REAR AXLE CARRIER WITH STANDARD AXLE HOUSING		
386-074	MXL 176T MERITOR EXTENDED LUBE MAIN DRIVELINE WITH HALF ROUND YOKES	25	25
388-073	MXL 17T MERITOR EXTENDED LUBE INTERAXLE DRIVELINE WITH HALF ROUND YOKES		
878-019	(1) INTERAXLE LOCK VALVE FOR TANDEM OR TRIDEM DRIVE AXLES		
87A-001	BLINKING LAMP WITH EACH INTERAXLE LOCK SWITCH, INTERAXLE UNLOCK DEFAULT WITH IGNITION OFF		
423-020	MERITOR 16.5X7 Q+ CAST SPIDER CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES		
433-002	NON-ASBESTOS REAR BRAKE LINING		
434-003	STANDARD BRAKE CHAMBER LOCATION		
451-023	CONMET CAST IRON REAR BRAKE DRUMS		
425-002	REAR BRAKE DUST SHIELDS		10
440-021	SKF SCOTSEAL PLUS XL REAR OIL SEALS		
426-075	HALDEX GOLDSEAL LONGSTROKE 2-DRIVE AXLES SPRING PARKING CHAMBERS		
428-003	HALDEX AUTOMATIC REAR SLACK ADJUSTERS		
41T-001	ORGANIC SAE 80/90 REAR AXLE LUBE		
42T-001	STANDARD REAR AXLE BREATHER(S)		
<b>Rear Suspension</b>			
622-1CH	HENDRICKSON RT403 REAR SUSPENSION @ 40,000#		670
621-016	HENDRICKSON RT/RTE - 7.19" SADDLE		
431-001	STANDARD AXLE SEATS IN AXLE CLAMP GROUP		
624-009	54 INCH AXLE SPACING		10
628-004	STEEL BEAMS AND RUBBER CENTER BUSHINGS WITH BAR PIN ADJUSTABLE END CONNECTIONS		

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Data Code	Description	Weight Front	Weight Rear
623-005	FORE/AFT CONTROL RODS		
<b>Brake System</b>			
490-100	WABCO 4S/4M ABS WITHOUT TRACTION CONTROL		
871-001	REINFORCED NYLON, FABRIC BRAID AND WIRE BRAID CHASSIS AIR LINES		
904-001	FIBER BRAID PARKING BRAKE HOSE		
412-001	STANDARD BRAKE SYSTEM VALVES		
46D-002	STANDARD AIR SYSTEM PRESSURE PROTECTION SYSTEM		
413-1AA	STANDARD U.S. FRONT BRAKE VALVE WITH ABS VALVES IN RAILS WITH RH HEAT SHIELDING		
432-003	RELAY VALVE WITH 5-8 PSI CRACK PRESSURE, NO REAR PROPORTIONING VALVE		
480-086	BW AD-9SI BRAKE LINE AIR DRYER WITH HEATER		
479-006	AIR DRYER MOUNTED OUTBOARD ON RH RAIL		
460-014	STEEL AIR TANKS MOUNTED BELOW FRAME RAILS	5	5
477-001	PULL CABLE ON WET TANK, PETCOCK DRAIN VALVES ON ALL OTHER AIR TANKS		
485-045	METALLIC AIR MANIFOLD MOUNTED TO BACK OF CAB CROSSMEMBER WITH SIX 1/4 INCH FITTINGS AND 70 PSI PROTECTION VALVE	5	
<b>Trailer Connections</b>			
335-004	UPGRADED CHASSIS MULTIPLEXING UNIT		
<b>Wheelbase &amp; Frame</b>			
545-580	5800MM (228 INCH) WHEELBASE		
546-101	11/32X3-1/2X10-15/16 INCH STEEL FRAME (8.73MMX277.8MM/0.344X10.94 INCH) 120KSI	210	70
547-001	1/4 INCH (6.35MM) C-CHANNEL INNER FRAME REINFORCEMENT	210	400
552-054	2275MM (90 INCH) REAR FRAME OVERHANG		
55W-008	FRAME OVERHANG RANGE: 81 INCH TO 90 INCH	-40	190
549-036	12 INCH INTEGRAL FRONT FRAME EXTENSION	60	-10
AC8-99D	CALC'D BACK OF CAB TO REAR SUSP C/L (CA) : 162.45 in		
AE8-99D	CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA) : 159.45 in		
AE4-99D	CALC'D FRAME LENGTH - OVERALL : 375.6		

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Data Code	Description	Weight Front	Weight Rear
AM6-99D	CALC'D SPACE AVAILABLE FOR DECKPLATE : 162.45 in		
FSS-0LH	CALCULATED FRAME SPACE LH SIDE : 71.27 in		
FSS-0RH	CALCULATED FRAME SPACE RH SIDE : 115.48 in		
553-001	SQUARE END OF FRAME		
587-003	REAR TOW HOOKS		10
550-001	FRONT CLOSING CROSSMEMBER		
559-001	STANDARD WEIGHT ENGINE CROSSMEMBER		
562-001	STANDARD MIDSHIP #1 CROSSMEMBER(S)		
572-001	STANDARD REARMOST CROSSMEMBER		
565-001	STANDARD SUSPENSION CROSSMEMBER		
<b>Chassis Equipment</b>			
556-997	OMIT FRONT BUMPER, CUSTOMER INSTALLED SPECIAL BUMPER, DOES NOT COMPLY WITH FMCSR 393.203	-100	
558-001	FRONT TOW HOOKS - FRAME MOUNTED	15	
586-024	FENDER AND FRONT OF HOOD MOUNTED FRONT MUDFLAPS		
551-017	GRADE 8 THREADED HEX HEADED FRAME FASTENERS INSTALLED WITH BOLT HEADS ON OUTSIDE OF FRAME		
<b>Fuel Tanks</b>			
204-156	100 GALLON/378 LITER ALUMINUM FUEL TANK - LH	20	
218-006	25 INCH DIAMETER FUEL TANK(S)		
215-005	PLAIN ALUMINUM/PAINTED STEEL FUEL/HYDRAULIC TANK(S) WITH PAINTED BANDS		
212-007	FUEL TANK(S) FORWARD		
664-001	PLAIN STEP FINISH		
205-001	FUEL TANK CAP(S)		
122-084	ALLIANCE FUEL FILTER/WATER SEPARATOR WITH PRIMER PUMP	15	
216-020	EQUIFLO INBOARD FUEL SYSTEM		
20E-004	AUXILIARY FUEL SUPPLY AND RETURN PORTS LOCATED ON LH FUEL TANK		
202-016	HIGH TEMPERATURE REINFORCED NYLON FUEL LINE		
221-001	FUEL COOLER	10	
<b>Tires</b>			
093-0TB	MICHELIN XZY-3 425/65R22.5 20 PLY RADIAL FRONT TIRES	196	



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Data Code	Description	Weight Front	Weight Rear
094-0DH	MICHELIN XDE M/S 11R22.5 14 PLY RADIAL REAR TIRES		56
<b>Hubs</b>			
418-056	CONMET PRESET PLUS IRON FRONT HUBS		
450-056	CONMET PRESET PLUS IRON REAR HUBS		
<b>Wheels</b>			
502-574	ACCURIDE 29807 22.5X12.25 10-HUB PILOT 4.75 INSET 5-HAND STEEL DISC FRONT WHEELS	98	
505-717	ACCURIDE 50408 ACCU-LITE 22.5X8.25 10-HUB PILOT 2-HAND STEEL DISC REAR WHEELS		
<b>Cab Exterior</b>			
829-1A2	114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB		
650-008	AIR CAB MOUNTS		
648-002	NONREMOVABLE BUGSCREEN MOUNTED BEHIND GRILLE		
667-004	FRONT FENDERS SET-BACK AXLE		
754-017	BOLT-ON MOLDED FLEXIBLE FENDER EXTENSIONS	10	
678-001	LH AND RH GRAB HANDLES		
645-002	BRIGHT FINISH RADIATOR SHELL/HOOD BEZEL		
646-042	STATIONARY BLACK GRILLE WITH BRIGHT ACCENTS		
65X-003	CHROME HOOD MOUNTED AIR INTAKE GRILLE		
644-004	FIBERGLASS HOOD		
727-1AF	SINGLE 14 INCH ROUND HADLEY AIR HORN UNDER LH DECK		
726-002	DUAL ELECTRIC HORNS		
728-001	SINGLE HORN SHIELD		
657-1CV	DOOR LOCKS AND IGNITION SWITCH KEYED THE SAME WITH (4) KEYS		
575-001	REAR LICENSE PLATE MOUNT END OF FRAME		
312-067	HALOGEN COMPOSITE HEADLAMPS WITH BRIGHT BEZELS		
302-047	LED AERODYNAMIC MARKER LIGHTS		
311-012	DAYTIME RUNNING LIGHTS - LOW BEAM ONLY		
294-1A6	GROTE #54332 LED STOP/TAI/TURN LIGHTS GROMMET MOUNTED WITH SEPARATE GROTE #62401 LED BACKUP LIGHTS		
300-015	STANDARD FRONT TURN SIGNAL LAMPS		
744-1BN	DUAL WEST COAST BRIGHT FINISH MIRRORS		
797-001	DOOR MOUNTED MIRRORS		

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Data Code	Description	Weight Front	Weight Rear
796-001	102 INCH EQUIPMENT WIDTH		
743-204	LH AND RH 8 INCH BRIGHT FINISH CONVEX MIRRORS MOUNTED UNDER PRIMARY MIRRORS		
729-001	STANDARD SIDE/REAR REFLECTORS		
677-055	RH AFTERTREATMENT SYSTEM CAB ACCESS WITH POLISHED DIAMOND PLATE COVER		
768-043	63X14 INCH TINTED REAR WINDOW		
661-003	TINTED DOOR GLASS LH AND RH WITH TINTED NON-OPERATING WING WINDOWS		
654-003	MANUAL DOOR WINDOW REGULATORS		
663-013	TINTED WINDSHIELD		
659-019	2 GALLON WINDSHIELD WASHER RESERVOIR WITHOUT FLUID LEVEL INDICATOR, FRAME MOUNTED		

#### Cab Interior

707-1AK	OPAL GRAY VINYL INTERIOR
706-013	MOLDED PLASTIC DOOR PANEL
708-013	MOLDED PLASTIC DOOR PANEL
772-006	BLACK MATS WITH SINGLE INSULATION
785-001	DASH MOUNTED ASH TRAYS AND LIGHTER
691-008	FORWARD ROOF MOUNTED CONSOLE WITH UPPER STORAGE COMPARTMENTS WITHOUT NETTING
694-010	IN DASH STORAGE BIN
742-007	(2) CUP HOLDERS LH AND RH DASH
680-006	GRAY/CHARCOAL FLAT DASH
700-002	HEATER, DEFROSTER AND AIR CONDITIONER
701-001	STANDARD HVAC DUCTING
703-005	MAIN HVAC CONTROLS WITH RECIRCULATION SWITCH
170-015	STANDARD HEATER PLUMBING
130-033	DENSO HEAVY DUTY AIR CONDITIONER COMPRESSOR
702-002	BINARY CONTROL, R-134A
739-033	STANDARD INSULATION
285-013	SOLID-STATE CIRCUIT PROTECTION AND FUSES
280-007	12V NEGATIVE GROUND ELECTRICAL SYSTEM
324-014	DOMELIGHT WITH 3-WAY SWITCH ACTIVATED BY LH AND RH DOORS
655-001	CAB DOOR LATCHES WITH MANUAL DOOR LOCKS

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Data Code	Description	Weight Front	Weight Rear
284-023	(1) 12 VOLT POWER SUPPLY IN DASH		
756-1J3	BASIC HIGH BACK AIR SUSPENSION DRIVER SEAT WITH MECHANICAL LUMBAR AND INTEGRATED CUSHION EXTENSION	30	
760-1C0	2 MAN TOOL BOX MID BACK NON SUSPENSION PASSENGER SEAT WITH HEADRESTS	70	20
711-004	LH AND RH INTEGRAL DOOR PANEL ARMRESTS		
758-036	VINYL WITH VINYL INSERT DRIVER SEAT		
761-036	VINYL WITH VINYL INSERT PASSENGER SEAT		
763-028	3 POINT HIGH VISIBILITY ORANGE RETRACTOR DRIVER AND PASSENGER AND 2 POINT HIGH VISIBILITY ORANGE RETRACTOR CENTER FRONT SEAT BELTS		
532-001	FIXED STEERING COLUMN		
540-015	4-SPOKE 18 INCH (450MM) STEERING WHEEL		
765-002	DRIVER AND PASSENGER INTERIOR SUN VISORS		

#### Instruments & Controls

732-004	GRAY DRIVER INSTRUMENT PANEL		
734-004	GRAY CENTER INSTRUMENT PANEL		
87L-003	ENGINE REMOTE INTERFACE WITH PARK BRAKE AND NEUTRAL INTERLOCKS		
870-001	BLACK GAUGE BEZELS		
486-001	LOW AIR PRESSURE INDICATOR LIGHT AND AUDIBLE ALARM		
840-002	2 INCH PRIMARY AND SECONDARY AIR PRESSURE GAUGES		
198-002	INTAKE MOUNTED AIR RESTRICTION INDICATOR WITH GRADUATIONS		
721-003	PRECO 1040 87 DB TO 112 DB AUTOMATIC SELF-ADJUSTING BACKUP ALARM		3
149-013	ELECTRONIC CRUISE CONTROL WITH SWITCHES IN LH SWITCH PANEL		
156-007	KEY OPERATED IGNITION SWITCH AND INTEGRAL START POSITION; 4 POSITION OFF/RUN/START/ACCESSORY		
157-007	MANUAL REMOTE ENGINE START/STOP WITH PTO RE-ENGAGE		
811-042	ICU3S, 132X48 DISPLAY WITH DIAGNOSTICS, 28 LED WARNING LAMPS AND DATA LINKED		
160-038	HEAVY DUTY ONBOARD DIAGNOSTICS INTERFACE CONNECTOR LOCATED BELOW LH DASH		
844-001	2 INCH ELECTRIC FUEL GAUGE		

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Data Code	Description	Weight Front	Weight Rear
148-071	ENGINE REMOTE INTERFACE WITH INCREMENT/DECREMENT		
163-001	ENGINE REMOTE INTERFACE CONNECTOR AT BACK OF CAB		
33U-004	PREWIRE PACKAGE FOR VAC-CON CONTROL MODULE AND CHASSIS INTERFACE		
856-001	ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE		
864-001	2 INCH TRANSMISSION OIL TEMPERATURE GAUGE		
830-017	ENGINE AND TRIP HOUR METERS INTEGRAL WITHIN DRIVER DISPLAY		
372-073	(1) DASH MOUNTED PTO SWITCH WITH INDICATOR LAMP - PARK BRAKE AND NEUTRAL INTERLOCK FOR CUSTOMER INSTALLED PTO	5	
852-002	ELECTRIC ENGINE OIL PRESSURE GAUGE		
746-1B3	AM/FM/WB RADIO WITH BLUETOOTH AND MICROPHONE, FRONT USB PORT, FRONT AND REAR AUXILIARY INPUTS AND J1939	10	
747-001	DASH MOUNTED RADIO		
750-002	(2) RADIO SPEAKERS IN CAB		
753-001	AM/FM ANTENNA MOUNTED ON FORWARD LH ROOF	2	
810-027	ELECTRONIC MPH SPEEDOMETER WITH SECONDARY KPH SCALE, WITHOUT ODOMETER		
817-001	STANDARD VEHICLE SPEED SENSOR		
812-001	ELECTRONIC 3000 RPM TACHOMETER		
813-998	NO VEHICLE PERFORMANCE MONITOR	-5	
162-018	IGNITION SWITCH CONTROLLED ENGINE STOP WITH CONTROL MOUNTED AT FIREWALL		
836-015	DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY		
660-008	SINGLE ELECTRIC WINDSHIELD WIPER MOTOR WITH DELAY		
304-001	MARKER LIGHT SWITCH INTEGRAL WITH HEADLIGHT SWITCH		
882-018	ONE VALVE PARKING BRAKE SYSTEM WITH DASH VALVE CONTROL AUTONEUTRAL AND WARNING INDICATOR		
299-013	SELF CANCELING TURN SIGNAL SWITCH WITH DIMMER, WASHER/WIPER AND HAZARD IN HANDLE		
298-039	INTEGRAL ELECTRONIC TURN SIGNAL FLASHER WITH HAZARD LAMPS OVERRIDING STOP LAMPS		

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Data Code	Description	Weight Front	Weight Rear
<b>Design</b>			
065-000	PAINT: ONE SOLID COLOR		
<b>Color</b>			
980-5F6	CAB COLOR A: L0006EB WHITE ELITE BC		
986-020	BLACK, HIGH SOLIDS POLYURETHANE CHASSIS PAINT		
98K-998	NO FUEL TANK CABINET PAINT		
962-972	POWDER WHITE (N0006EA) FRONT WHEELS/RIMS (PKWHT21, TKWHT21, W, TW)		
966-972	POWDER WHITE (N0006EA) REAR WHEELS/RIMS (PKWHT21, TKWHT21, W, TW)		
963-003	STANDARD E COAT/UNDERCOATING		
<b>Certification / Compliance</b>			
996-001	U.S. FMVSS CERTIFICATION, EXCEPT SALES CABS AND GLIDER KITS		

## T O T A L   V E H I C L E   S U M M A R Y

<b>Weight Summary</b>			
	Weight Front	Weight Rear	Total Weight
Factory Weight <sup>+</sup>	8975 lbs	7450 lbs	16425 lbs
Total Weight <sup>+</sup>	8975 lbs	7450 lbs	16425 lbs

<b>Extended Warranty</b>	
WAG-011	TOWING: 2 YEAR/UNLIMITED MILES/KM EXTENDED TOWING COVERAGE \$550 CAP

(+) Weights shown are estimates only.  
If weight is critical, contact Customer Application Engineering.

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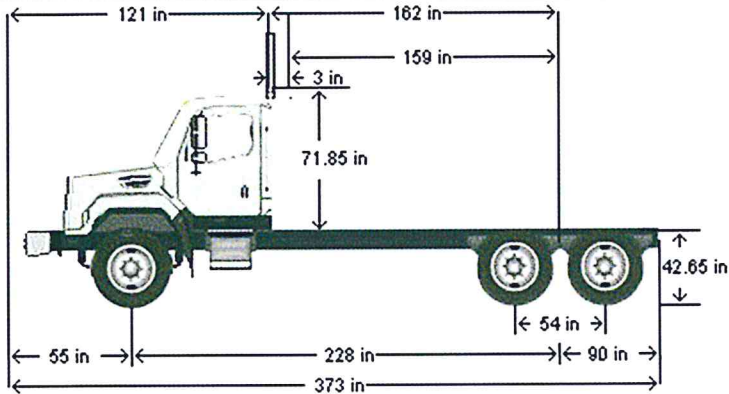
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## DIMENSIONS



## VEHICLE SPECIFICATIONS SUMMARY - DIMENSIONS

Model.....	114SD
Wheelbase (545) .....	5800MM (228 INCH) WHEELBASE
Rear Frame Overhang (552) .....	2275MM (90 INCH) REAR FRAME OVERHANG
Fifth Wheel (578) .....	NO FIFTH WHEEL
Mounting Location (577).....	NO FIFTH WHEEL LOCATION
Maximum Forward Position (in) .....	0
Maximum Rearward Position (in) .....	0
Amount of Slide Travel (in).....	0
Slide Increment (in) .....	0
Desired Slide Position (in) .....	0.0
Cab Size (829).....	114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Sleeper (682) .....	NO SLEEPER BOX/SLEEPER CAB
Exhaust System (016).....	RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE

## TABLE SUMMARY - DIMENSIONS

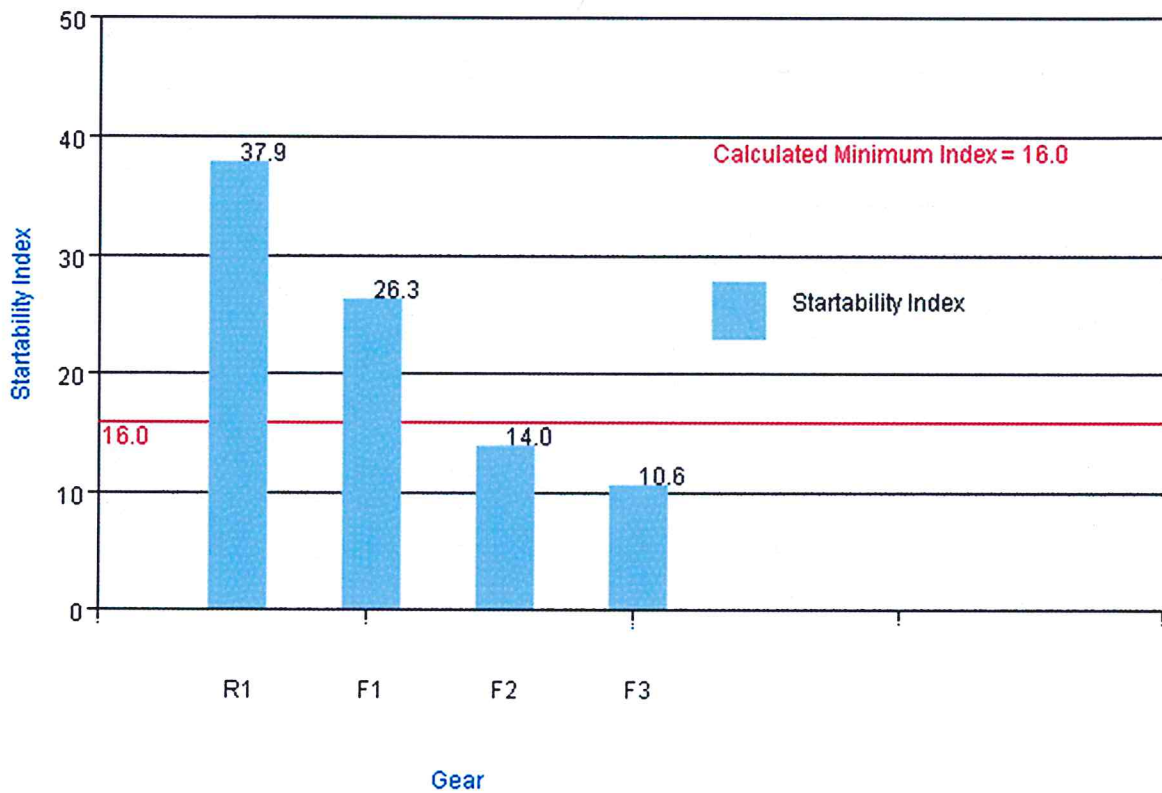
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Dimensions	Inches
Bumper to Back of Cab (BBC)	120.9
Bumper to Centerline of Front Axle (BA)	55.3
Min. Cab to Body Clearance (CB)	3.0
Back of Cab to Centerline of Rear Axle(s) (CA)	162.4
Effective Back of Cab to Centerline of Rear Axle(s) (Effective CA)	159.4
Back of Cab Protrusions (Exhaust/Intake) (CP)	1.5
Back of Cab Protrusions (Side Extenders/Trim Tab) (CP)	0.0
Back of Cab Protrusions (CNG Tank)	0.0
Back of Cab Clearance (CL)	3.0
Back of Cab to End of Frame	252.4
Cab Height (CH)	71.9
Wheelbase (WB)	228.0
Frame Overhang (OH)	90.0
Overall Length (OAL)	373.3
Rear Axle Spacing	54.0
Unladen Frame Height at Centerline of Rear Axle	42.6

Performance calculations are estimates only. If performance calculations are critical, please contact Customer Application Engineering.



## STARTABILITY



### VEHICLE SPECIFICATIONS SUMMARY - STARTABILITY

Model.....	114SD
Cab Size (829).....	114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Expected Front Axle(s) Load (lbs).....	20000.0
Expected Pusher Axle(s) Load (lbs).....	0.0
Expected Rear Axle(s) Load (lbs).....	40000.0
Expected Tag Axle(s) Load (lbs).....	0.0

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Expected GVW (lbs) .....	60000
Expected GCW (lbs) .....	0.0
Engine (101) .....	CUM ISL 370 HP @ 2000 RPM, 2100 GOV RPM, 1250 LB/FT @ 1400 RPM
Torque at Clutch Engagement (lbs-ft) .....	550
Transmission (342) .....	ALLISON 3000 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION
Gear Ratio: Forward 1 .....	3.49
Gear Ratio: Forward 2 .....	1.86
Gear Ratio: Forward 3 .....	1.41
Gear Ratio: Reverse 1 .....	5.03
Gear Ratio: Reverse 2 .....	N/A
Gear Ratio: Reverse 3 .....	N/A
Auxiliary Transmission (352) .....	NO AUXILIARY TRANSMISSION
Low Gear Ratio .....	N/A
High Gear Ratio .....	N/A
Transfer Case (373) .....	NO TRANSFER CASE
Low Gear Ratio .....	N/A
High Gear Ratio .....	N/A
Rear Axle (420) .....	MT-40-14X 40,000# R-SERIES TANDEM REAR AXLE
Number of Speeds .....	1
Rear Axle Gear Ratio(s) .....	5.86 REAR AXLE RATIO
Rear Tires (094) .....	MICHELIN XDE M/S 11R22.5 14 PLY RADIAL REAR TIRES
Revolutions per Mile .....	498
Vehicle Service (A85) .....	UTILITY/REPAIR/MAINTENANCE SERVICE
Startability Factor .....	.8
Terrain (AA5) .....	TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN TRANSIT, IS SPENT ON PAVED ROADS
Startability Factor .....	.0
Most Severe Grade Expected (AB1) .....	MAXIMUM 8% EXPECTED GRADE
Startability Factor .....	.8
Road Surface (AB5). SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE	
Startability Factor .....	.0
Suggested Torque Converter Stall Ratio .....	1.77

Performance calculations are estimates only. If performance calculations are critical, please contact Customer Application Engineering.

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## G V W R

### VEHICLE SPECIFICATIONS SUMMARY - GVWR

Model.....	114SD
Cab Size (829).....	114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Expected Front Axle(s) Load (lbs).....	20000.0
Expected Pusher Axle(s) Load (lbs).....	0.0
Expected Rear Axle(s) Load (lbs).....	40000.0
Expected Tag Axle(s) Load (lbs).....	0.0
Expected GVW (lbs).....	60000
Expected GCW (lbs).....	0.0
Front Axle (400).....	DETROIT DA-F-20.0-5 20,000# FL1 71.0 KPI/3.74 DROP SINGLE FRONT AXLE
Front Suspension (620).....	20,000# TAPERLEAF FRONT SUSPENSION
Front Hubs (418).....	CONMET PRESET PLUS IRON FRONT HUBS
Front Disc Wheels (502).....	ACCURIDE 29807 22.5X12.25 10-HUB PILOT 4.75 INSET 5-HAND STEEL DISC FRONT WHEELS
Front Tires (093).....	MICHELIN XZY-3 425/65R22.5 20 PLY RADIAL FRONT TIRES
Front Brakes (402).....	MERITOR 16.5X6 Q+ CAST SPIDER CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES
Steering Gear (536).....	TRW THP-60 POWER STEERING WITH RCH45 AUXILIARY GEAR
Rear Axle (420).....	MT-40-14X 40,000# R-SERIES TANDEM REAR AXLE
Rear Suspension (622).....	HENDRICKSON RT403 REAR SUSPENSION @ 40,000#
Rear Hubs (450).....	CONMET PRESET PLUS IRON REAR HUBS
Rear Disc Wheels (505).....	ACCURIDE 50408 ACCU-LITE 22.5X8.25 10-HUB PILOT 2-HAND STEEL DISC REAR WHEELS
Rear Tires (094).....	MICHELIN XDE M/S 11R22.5 14 PLY RADIAL REAR TIRES
Rear Brakes (423).....	MERITOR 16.5X7 Q+ CAST SPIDER CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES
Pusher / Tag Axle (443).....	NO PUSHER OR TAG AXLE
Pusher / Tag Suspension (626).....	NO PUSHER OR TAG SUSPENSION
Pusher / Tag Hubs (449).....	NO PUSHER OR TAG HUBS
Pusher/Tag Disc Wheels (509).....	NO PUSHER/TAG DISC WHEELS
Pusher / Tag Tires (095).....	NO PUSHER/TAG TIRES
Pusher / Tag Brakes (456).....	NO PUSHER/TAG BRAKES

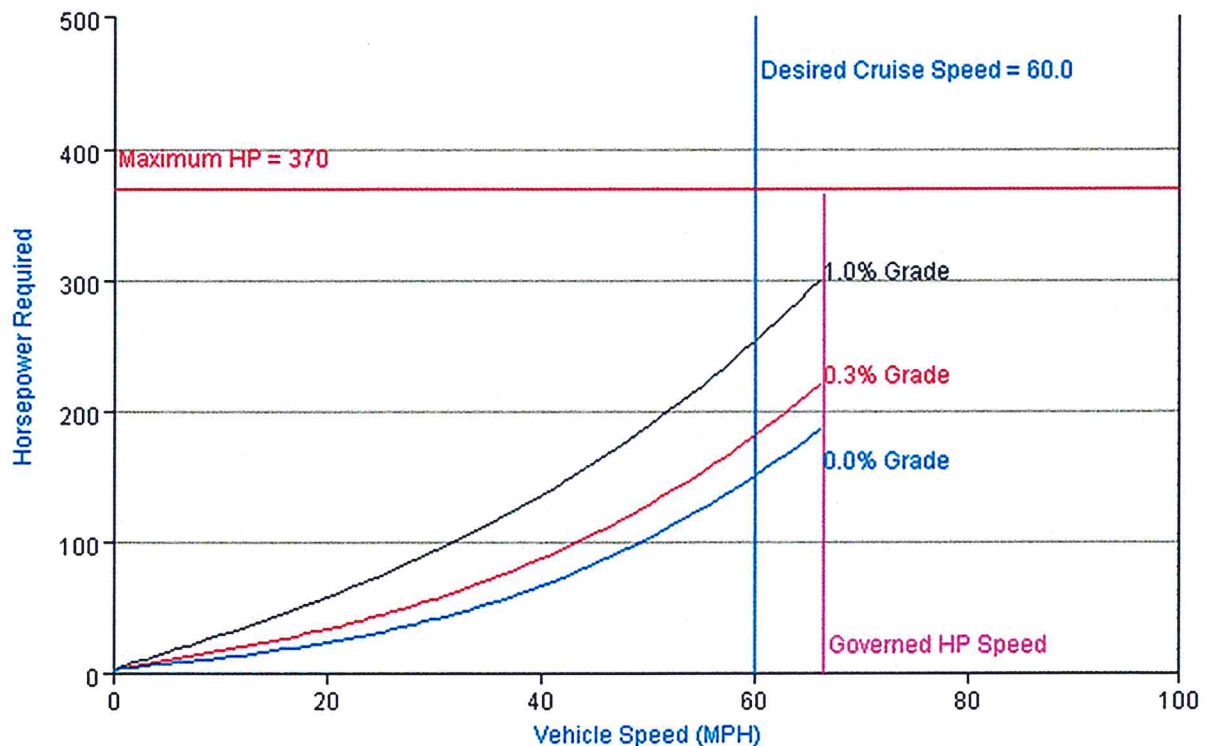
### TABLE SUMMARY - GVWR

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	Front	Rear 1	Rear 2
<b>Axle Component Weight Ratings</b>			
Axles	20000	20000	20000
Suspension	20000	20000	20000
Hubs	23000	26000	26000
Brakes	20000	26000	26000
Wheels	23000	29560	29560
Tires	22800	23360	23360
Power Steering	22000	N/A	N/A
GAWR (per axle)	20000	20000	20000
GAWR (per axle system)	20000		40000
Expected Load (per axle system)	20000		40000
<b>Vehicle GVWR Summary</b>			
Calculated GVWR	60000		
Expected GVWR	60000		
All weights displayed in pounds			

Performance calculations are estimates only. If performance calculations are critical, please contact Customer Application Engineering.

## S P E E D A B I L I T Y



### VEHICLE SPECIFICATIONS SUMMARY - SPEEDABILITY

Model.....	114SD
Cab Size (829).....	114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Desired Cruise Speed (mph).....	60.0
Expected Front Axle(s) Load (lbs).....	20000.0
Expected Pusher Axle(s) Load (lbs).....	0.0
Expected Rear Axle(s) Load (lbs).....	40000.0



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Expected Tag Axle(s) Load (lbs) .....0.0  
Expected GWW (lbs) .....60000  
Expected GCW (lbs) .....0.0  
Engine (101) ..... CUM ISL 370 HP @ 2000 RPM, 2100 GOV RPM, 1250 LB/FT @ 1400 RPM  
    Governed RPM .....2100  
    HP at Governed RPM .....365  
    RPM at Max HP .....1900  
    Max HP .....370  
    HP at Governed RPM (High Torque) .....365  
    RPM at Max HP (High Torque) .....1900  
    Max HP (High Torque) .....370  
    Multi-torque ..... NO  
Transmission (342) ..... ALLISON 3000 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION  
Rear Axle (420) ..... MT-40-14X 40,000# R-SERIES TANDEM REAR AXLE  
    Number of Speeds .....1  
    Rear Axle Gear Ratio(s) ..... 5.86 REAR AXLE RATIO  
Rear Tires (094) ..... MICHELIN XDE M/S 11R22.5 14 PLY RADIAL REAR TIRES  
    Revolutions per Mile .....498  
    Trailer Width (in) .....0.0  
Trailer Height (ground to top) (ft) .....10.0  
Body Width (in) .....96.0  
Body Height (ground to top) (ft) .....10.0  
Roof Mounted Aero Device (784) ..... NO AIR SHIELD OR BRACKETS  
Road Surface (AB5). SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE  
Auxiliary Transmission (352) ..... NO AUXILIARY TRANSMISSION  
    High Gear Ratio ..... N/A  
    Low Gear Ratio ..... N/A  
Transfer Case (373) ..... NO TRANSFER CASE  
    High Gear Ratio ..... N/A  
    Low Gear Ratio ..... N/A

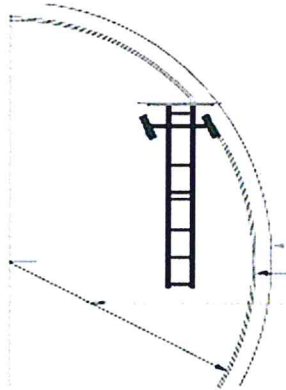
#### TABLE SUMMARY - SPEEDABILITY

Top Gear Speedability	At Max Power Speed	At Desired Cruise Speed
Top Gear Vehicle Speed (mph)	60.1	60.0
Engine RPM	1900	1897
Gross Power Available (HP)	370	N/A
Power (HP) Required for:		
Level Road	152	151
0.3% Grade	183	182
1.0% Grade	255	254
*Blue background represents value input by user.		

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Performance calculations are estimates only. If performance calculations are critical, please contact Customer Application Engineering.

## TURNING RADIUS



Turning radius graphic and data provided for general estimate purposes only. For specific figures regarding your configuration, please contact your CAE representative.

	Left Turn	Right Turn	Tolerance
Wall to Wall Diameter (ft)	77.6	68.6	+/- 3.0
Curb to Curb Diameter (ft)	73.8	64.3	+/- 3.0
Turning Radius (ft)	36.2	31.4	+/- 1.5

## VEHICLE SPECIFICATIONS SUMMARY - TURNING RADIUS

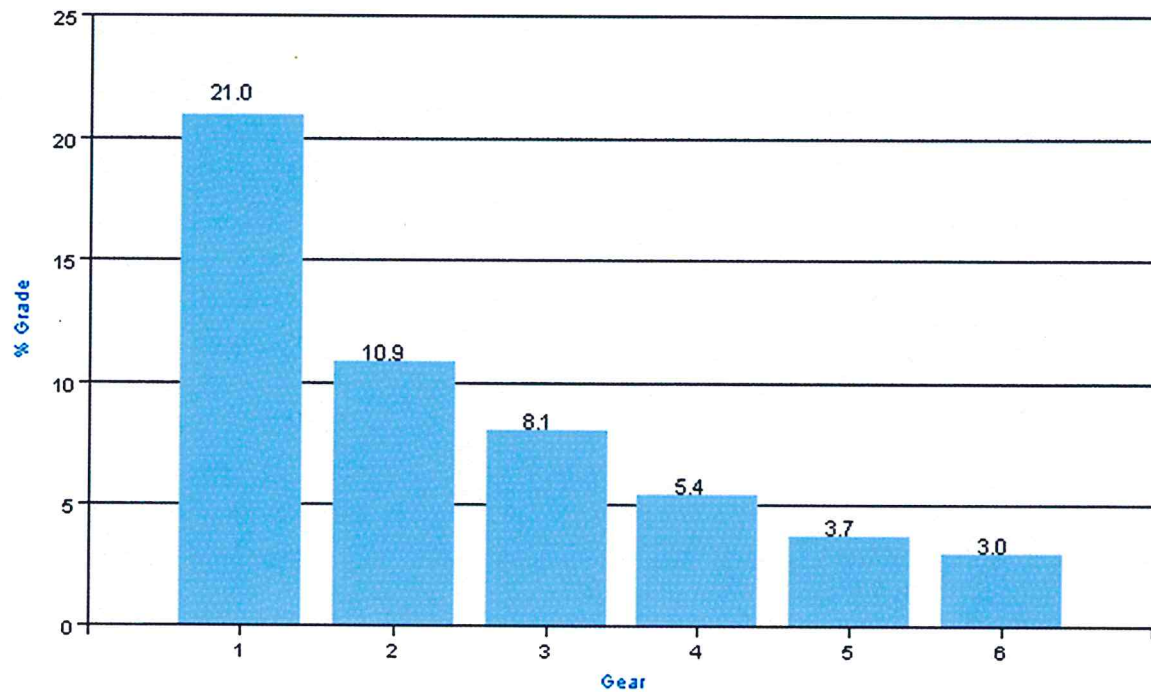
Model.....	114SD
Cab Size (829).....	114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Wheelbase (545) .....	5800MM (228 INCH) WHEELBASE
Front Tires (093) .....	MICHELIN XZY-3 425/65R22.5 20 PLY RADIAL FRONT TIRES
Width (in) .....	17.7
Front Axle (400) .....	DETROIT DA-F-20.0-5 20,000# FL1 71.0 KPI/3.74 DROP SINGLE FRONT AXLE
Kingpin Intersection (in) .....	71
Bumper (556).....	OMIT FRONT BUMPER, CUSTOMER INSTALLED SPECIAL BUMPER, DOES NOT COMPLY WITH FMCSR 393.203
Width (in) .....	96
Bumper Miter to Front Axle (in) .....	48.017
Primary Steering Location (003).....	LH PRIMARY STEERING LOCATION
Steering Gear (536) .....	TRW THP-60 POWER STEERING WITH RCH45 AUXILIARY GEAR
Dual Steering Gear .....	RCH45
Ram .....	NONE
Rear Axle (420).....	MT-40-14X 40,000# R-SERIES TANDEM REAR AXLE
Axle Spacing (624).....	54 INCH AXLE SPACING

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## GRADEABILITY



Desired Gradeability at Peak Torque = 0.5

## VEHICLE SPECIFICATIONS SUMMARY - GRADEABILITY

Model.....	114SD
Cab Size (829).....	114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Desired Gradeability at Peak Torque (%).....	0.5
Desired Gradeability at Cruise Speed(%).....	0.3
Desired Cruise Speed (mph).....	60.0
Expected Front Axle(s) Load (lbs).....	20000.0

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Expected Pusher Axle(s) Load (lbs) .....	0.0
Expected Rear Axle(s) Load (lbs) .....	40000.0
Expected Tag Axle(s) Load (lbs) .....	0.0
Expected GVW (lbs) .....	60000
Expected GCW (lbs) .....	0.0
Engine (101) .....	CUM ISL 370 HP @ 2000 RPM, 2100 GOV RPM, 1250 LB/FT @ 1400 RPM
Peak Torque (lbs-ft) .....	1250
RPM at Peak Torque .....	1400
Peak Torque (Multi-torque High) (lbs-ft) .....	1250
RPM at Peak Torque (Multi-torque High) .....	1400
Multi-torque .....	NO
Transmission (342) .....	ALLISON 3000 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION
Rear Axle (420) .....	MT-40-14X 40,000# R-SERIES TANDEM REAR AXLE
Number of Speeds .....	1
Rear Axle Gear Ratio(s) .....	5.86 REAR AXLE RATIO
Rear Tires (094) .....	MICHELIN XDE M/S 11R22.5 14 PLY RADIAL REAR TIRES
Revolutions per Mile .....	498
Trailer Width (in) .....	0.0
Trailer Height (ground to top) (ft) .....	10.0
Body Width (in) .....	96.0
Body Height (ground to top) (ft) .....	10.0
Roof Mounted Aero Device (784) .....	NO AIR SHIELD OR BRACKETS
Road Surface (AB5) .....	SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE
Auxiliary Transmission (352) .....	NO AUXILIARY TRANSMISSION
High Gear Ratio .....	N/A
Low Gear Ratio .....	N/A
Transfer Case (373) .....	NO TRANSFER CASE
High Gear Ratio .....	N/A
Low Gear Ratio .....	N/A
Trailer Configuration (AA2) .....	NO TRAILER SPECIFIED

#### TABLE SUMMARY - GRADEABILITY

Prepared for:  
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Transmission Gear	Transmission Gear Ratio	Overall Gear Ratio	Vehicle Speed (MPH)	HP Available for Grade	Max Grade (%)
1	3.49	20.45	8.2	276.9	21.0
2	1.86	10.90	15.5	269.8	10.9
3	1.41	8.26	20.4	263.7	8.1
4	1.00	5.86	28.8	250.2	5.4
5	0.75	4.40	38.4	228.7	3.7
6	0.65	3.81	44.3	211.6	3.0
Desired Gradeability at Peak Torque			0.5		
Rear Axle Ratio			5.86		
Gross HP Available at Peak Torque			333		
RPM at Peak Torque			1400		
*Blue background represents value input by user.					

Transmission Gear	Transmission Gear Ratio	Overall Gear Ratio	Vehicle Speed (MPH)	HP Available for Grade	Max Grade (%)
1	3.49	20.45	11.2	280.5	15.7
2	1.86	10.90	21.0	269.1	8.0
3	1.41	8.26	27.7	258.5	5.8
4	1.00	5.86	39.0	233.3	3.7
5	0.75	4.40	52.0	190.0	2.3
6	0.65	3.81	60.0	154.1	1.6
Desired Gradeability at Cruise Speed			0.3		
Desired Cruise Speed			60.0		
Rear Axle Ratio			5.86		
Gross HP Available at Cruise Speed			369		
RPM at Cruise Speed			1896		
*Blue background represents value input by user.					

Performance calculations are estimates only. If performance calculations are critical, please contact Customer Application Engineering.

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## F R A M E R B M

### VEHICLE SPECIFICATIONS SUMMARY - FRAME RBM

Wheelbase (545) ..... 5800MM (228 INCH) WHEELBASE  
Frame Rails (546) ..... 11/32X3-1/2X10-15/16 INCH STEEL FRAME (8.73MMX277.8MM/0.344X10.94 INCH) 120KSI(546)  
Yield Strength (psi)..... 120000  
Section Modulus (per rail) (cu in)..... 16.979  
RBM (per rail) (lbf-in)..... 2040000  
Inner Frame Reinforcement (547) ..... 1/4 INCH (6.35MM) C-CHANNEL INNER FRAME REINFORCEMENT  
Outer Frame Reinforcement (548) ..... NO OUTER FRAME REINFORCEMENT

### TABLE SUMMARY - FRAME RBM

Item	Description / Value
Wheelbase	5800MM (228 INCH) WHEELBASE
Frame	11/32X3-1/2X10-15/16 INCH STEEL FRAME (8.73MMX277.8MM/0.344X10.94 INCH) 120KSI
Inner Frame Reinforcement	1/4 INCH (6.35MM) C-CHANNEL INNER FRAME REINFORCEMENT
Outer Frame Reinforcement	NO OUTER FRAME REINFORCEMENT
Yield Strength (psi)	120000
Section Modulus - per rail (cu. in.)	26.80
Frame RBM - per rail (lbf-in)	3217200

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# VAC-CON

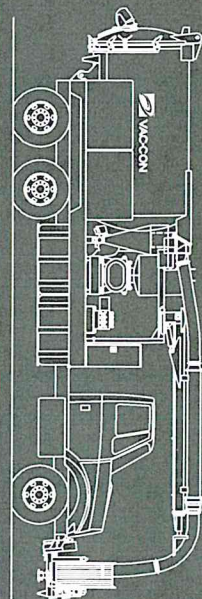
MORE **POWER** TO YOU

## SINGLE ENGINE PD COMBINATION MACHINE



### VAC-CON'S SINGLE ENGINE DESIGN TAKES THE COMPLEXITY OUT OF SINGLE ENGINE PD MACHINES!

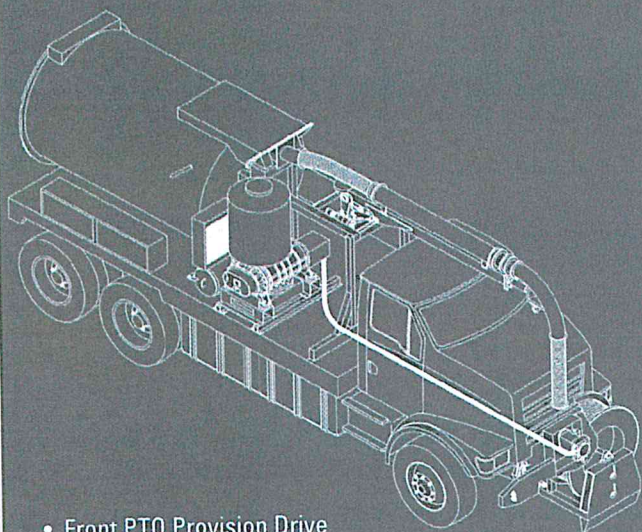
Only Vac-Con uses the simplicity of hydrostatic drive to power both the vacuum and water systems with a single engine. No transfer case is required to drive the two hydrostatic pumps, the machine operates with the chassis in neutral and features simple and independent control of both systems. If you are looking for a single-engine machine, Vac-Con's unique design offers the best value without sacrificing performance or ease of operation.





# SINGLE ENGINE PD COMBINATION MACHINE SPECIFICATIONS

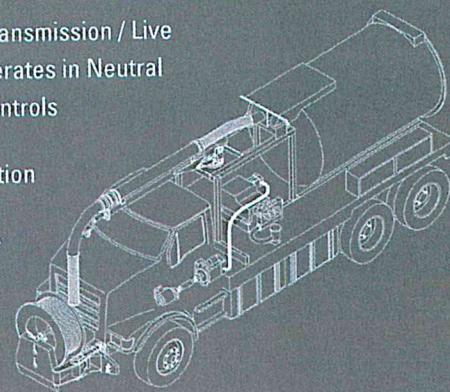
## HYDROSTATIC BLOWER DRIVE



- Front PTO Provision Drive
- Our Standard on PDs Since 1994
- Transmission Operates in Neutral
- No Transfer Case Required

## HYDROSTATIC WATER PUMP DRIVE

- PTO Driven Off Transmission / Live
- Transmission Operates in Neutral
- Water System Controls At Front Panel
- Winter Recirculation No Problem
- No Transfer Case Required



## AUTOMATIC VACUUM BREAKER SHUT-OFF AND FILTRATION

- Vacuum Breaker
  - System automatically stops air flow to prevent over filling and carry-over during transport
  - Can be manually controlled from front operator station or with available wireless remote for operator safety
- Filtration
  - Dual port separation with dual stainless steel microscreens
  - Centrifugal final filter with easy access inspection door
  - Cyclone separator available as required
- Available baghouse with cartridge filters
- Bag option for final filter

## VACUUM DRIVE SYSTEM

- Hydrostatic variable displacement piston pump driven by chassis engine
- Hydrostatic fixed displacement piston motor
- Hydraulically driven heat exchanger fan
- 110-190° F operation ranges at 90° F ambient temperature
- Torsional soft coupling
- Multi-stage hydraulic filtration system

## VACUUM SYSTEM

- Positive displacement blower
- Standard vacuum rating: 16" Hg at 3600 CFM
- Dual relief valves
- Low point drain in plenum
- Standard vacuum gauge conveniently mounted
- Optional PD Blowers:
  - Vacuum rating: 15" Hg at 2950 CFM
  - Vacuum rating: 16" Hg at 4200 CFM

## WATER PUMP DRIVE SYSTEM

- Hydrostatic variable displacement piston pump driven by chassis transmission P.T.O.
  - Hydrostatic fixed displacement piston motor
- Independent control of vacuum and water systems
- Front operator station controls

## WATER SYSTEM

- Systems up to 3000 psi and 120 gpm with smooth continuous flow and pressure
- Available Hydro-Excavation Package
- Available winter recirculation
- Available air purge system

**Covington Sales & Scv. Inc**  
P. O. Box 1144  
Denham Springs, LA. 70721  
(225)664-7427 (800)349-8001



Vac-Con's Single Engine PD Combination Machine is easy to operate, safe, durable and outperforms the competition. All backed by **Power Up** customer support, and our dedicated dealer network brings more power to you.





## W a r r a n t y - Single Engine PD

VAC-CON, as seller, warrants all equipment manufactured by it and bearing its name shall be free from defects in material and workmanship, under normal use and service as determined by us, for a period of (12) twelve months from the date of delivery to the first retail purchaser.

Should any equipment or part of such equipment sold hereunder prove to be defective in material or workmanship within said period, and be returned to Seller's factory no later than 15 days after the expiration date of the warranty, transportation charges prepaid by the Buyer, and upon examination be found to be defective, such part will be replaced at the factory by the Seller free of charge, but the Seller shall be under no further liability in respect to such warranty. It is expressly understood that the Seller's liability is limited to furnishing of such replacement parts within a reasonable length of time and that the Seller will not be liable for any damages, losses or expenses arising in connection with the use of or inability to use the unit(s), including but not limited to, injuries to persons or damage to property, loss of profits or anticipated profits, or loss of vehicle use. Buyer shall be responsible for the payment of duties or taxes on warranty parts, if applicable. The Seller shall be under no liability because of normal wear and tear of operation or maintenance contrary to the manufacturer's official Operator's Manual. The Buyer accepts any liability for damage or injury resulting from the removal or alteration of safety guards and safety precautions provided on the unit at the time of delivery. This warranty shall not apply and VAC-CON shall have no liability under it or otherwise if the unit shall have been injured by accident, careless handling or improper applications or if any repairs have been made to the unit by other than VAC-CON, its agents or employees.

*Warranties covering major components not of VAC-CON manufacture (pd blowers, power plants, hydraulics, trucks, vacuum compressors, transmissions, electrical components, batteries, tires, etc.) are warranted by their respective manufacturers.*

We give no warranty express or implied, as to description, quality, productiveness or any other matter and the Buyer hereby waives the right of refusal and return of the goods which is usually connected with non-warranty.

It is the sole responsibility of the purchaser to use this equipment in an appropriate application and a safe manner. VAC-CON assumes no responsibility or liability for its misuse.

### FIVE (5) YEAR WARRANTY:

VAC-CON warrants that the debris tank shall be free from defects in material and workmanship, under normal use and service as determined by the manufacturer, for a period of sixty (60) months (not pro-rated) from the date the unit is first placed into service.

### *ck* *Lifetime* ~~TEN (10) YEAR WARRANTY:~~

VAC-CON warrants that the fresh water tanks shall be free from defects in material and workmanship, under normal use and service as determined by the manufacturer, for a period of one hundred twenty (120) months (not pro-rated) from the date the unit is first placed into service.

This warranty is not transferable.



## Freightliner SD Vocational Coverage

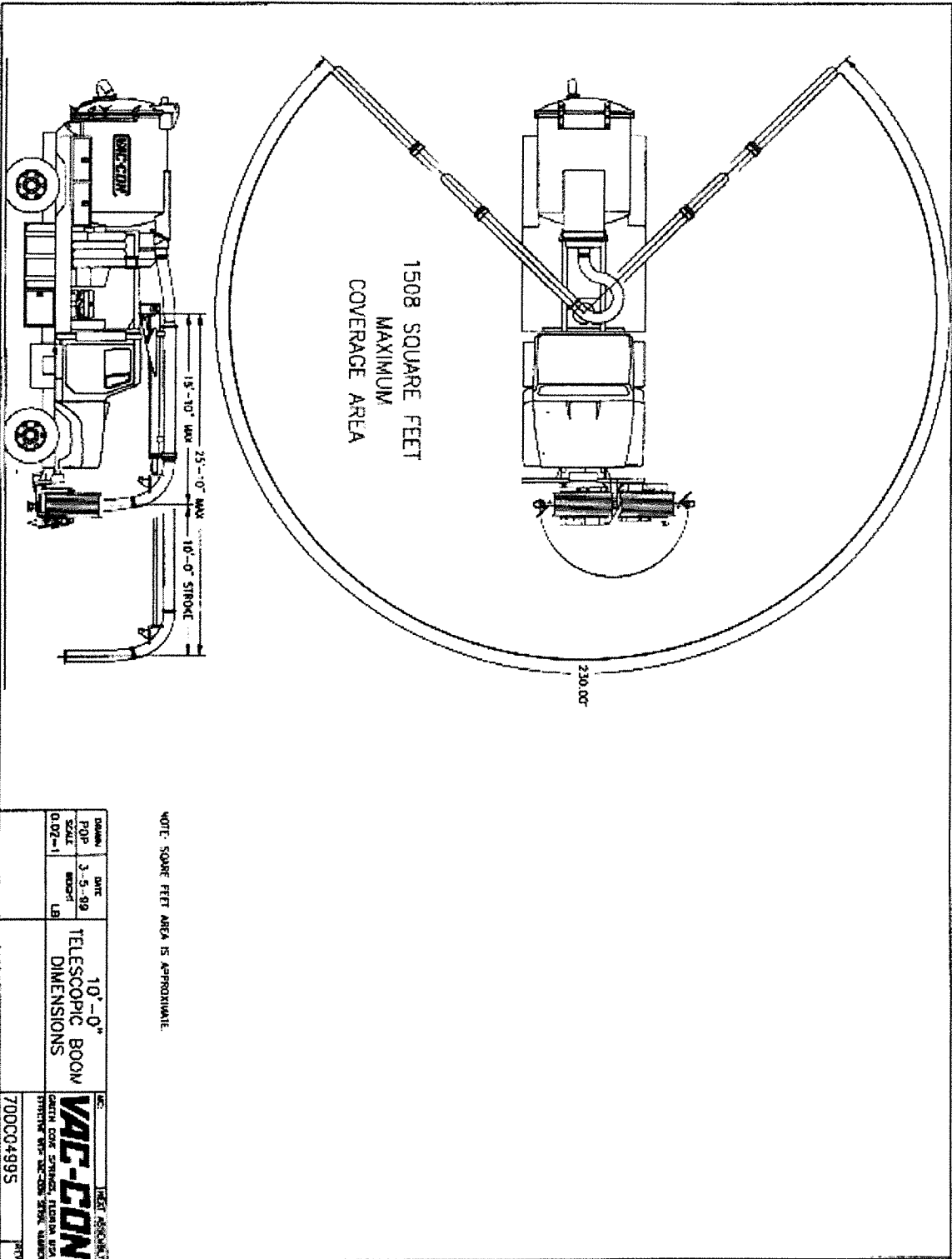


SD Vocational Coverage is not available for vehicles in these vocations: <i>Logging, Mining, Oil field</i>	
<b>Category Determinants</b>	
Road Surface; most severe in-transit between sites	<30% off-highway Rough, maintained concrete/asphalt; maintained gravel/crushed rock; maintained dirt or soft soil (Class C or D Roads)
GCW	92,000 lb/41 730 kg or less
Engines	Cummins ISB, ISC, or ISL engines only
<b>Axles and Their Manufacturer's GVW Rating</b>	
2-axle unit	46,000 lb/20 865kg or less
3-axle unit	66,000 lb/29 937kg or less
4-axle unit	N/A
5-axle unit	N/A

FTL SD Vocational Coverages		
Description	Time <sup>a</sup>	Distance <sup>a</sup>
Basic Vehicle	2 Years	Unlimited
Battery	1 Year	100,000 mi/161 000 km
Brightwork	6 Months	Unlimited
Cab Corrosion/Perforation	5 Years	Unlimited
Cab Structure	5 Years	Unlimited
Corrosion	6 Months	Unlimited
Crossmembers	5 Years	Unlimited
Diesel Emission 2010 <sup>b</sup>	5 Years	100,000 mi/161 000 km
Drivetrain	2 Years	Unlimited
Frame Rails	5 Years	Unlimited
Paint	1 Year	100,000 mi/161 000 km
Paint, Chassis	6 Months	Unlimited

a. Time or distance, whichever comes first

b. Applies to vehicles equipped with EPA 2010 compliant diesel engines



NOTE: SQUARE FEET AREA IS APPROXIMATE.

DATE	DATE	10'-0"	REV
POP	3-5-89	TELESCOPIC BOOM	VAC-CON
SCALE	MOOD	DIMENSIONS	GALEN COOK, STANLEY, FLORIDA 322
0.02=1	LB		DRIVING OFF-ROAD-20% GRADE
			700C04995

## **SPECIFICATIONS - COMBINATION SEWER CLEANER**

**PD3611HEN/1500 (824 at 18")**

**COMPLY, Indicate: Yes or No**

### **GENERAL**

☒ Yes ☐ No

The machine is capable of removing stones, grit, grease, sludge, and other debris from sanitary sewer and/or storm drain lines by the flushing action of high-pressure water. The high-pressure sewer cleaner operates independent of the vacuum system.

The machine includes an air conveying vacuum system to provide for the simultaneous removal of the debris flushed to the manhole by the high-pressure water system or for the removal of debris from sewers, sumps, catch basins, digesters, wet wells, bar screens, etc.

The machine is capable of being operated by one man, with all operating controls for high-pressure water pump, hose reel, and vacuum, located at the front of the machine for safety.

### **DEBRIS BODY**

☒ Yes ☐ No

Debris storage body has a minimum usable liquid capacity of 9 cubic yards.

The body shall be round for maximum strength and constructed of 3/16 inch ASTM A242 Corten A steel for enhanced corrosion resistance.

There shall be a 6" diameter liquid drain valve, butterfly and screen weldment inside for removing excess liquids. Drain will have 20 feet of 6-inch layflat hose.

. A rear door safety prop shall be provided.

For ease of maintenance, there shall be no hydraulic components located inside the debris body or rear door.

Hydraulic operated, heavy duty wedge style door locks shall be installed. The door locks shall be operated by two double acting hydraulic cylinders. The rear door shall also hydraulically open and close (raise and lower) by means of two double acting hydraulic cylinders. The unlocking-opening and the closing-locking operations shall be controlled by a single switch and sequence valve

Dual steel weldments with stainless steel screen 8" x 28" each providing up to 1200 square inches of added filtration for the vacuum system shall be provided inside the debris tank. These weldments shall be removable and require no cutting or welding.

A double acting power up/power down hydraulic scissors lift mechanism will be provided to raise body to a minimum 50-degree angle. The scissors lift mechanism shall be designed to support a minimum of 24 inches of the debris tank width to provide stability and when dumping on uneven ground. The lift capacity of hydraulic scissors lift cylinder is 56,000 lbs.

Dump controls are located on curbside mid-ship of the unit, well forward of the dumping area for operator safety. A manual override system is provided.

The debris body has a five-year warranty. A copy of manufacturer's warranty statement shall be enclosed with bid.

An internal stainless steel float device with external indicator is supplied to show when body is loaded to capacity.

### **AUTOMATIC VACUUM BREAKER**

☒ Yes ☐ No

The automatic vacuum breaker assembly is located inside the body.

The automatic vacuum breaker assembly shall be controlled by an electric over hydraulic circuit. The entire system shall be replaceable via a bolt on assembly. The assembly shall consist of a 12" inlet and two 8" ports that provide airflow to the vacuum system.

A full indication activates an automatic vacuum breaker shut down system that completely shuts down the airflow to the vacuum system to prevent overfilling and wastewater discharge into the atmosphere.

The vacuum breaker system is automatically activated (closed) when the parking brake system is released to

eliminate carryover during transit.

The system is controlled/activated, at the front hose reel control station. This enables the operator to pick up large debris with boom and place debris on the road surface. This system can be used for safety in the event suction must be shut off in case of an emergency.

#### **POSITIVE DISPLACEMENT BLOWER**

☒ Yes ☐ No

A lobe type positive displacement blower shall be provided capable of 5197 CFM's and 18" of Hg. with cyclone separator. Control of the blower regarding start, stop, and the rate of vacuum suction is performed from the front of the truck. A vacuum suction breaker disconnect switch is provided to enable operator to pick up large debris with boom and place debris on road surface. The positive displacement blower system is operated independent of the high-pressure water system.

The compressor is hydrostatically driven by a transfer case via a closed loop hydrostatic system using a variable piston pump and motor. This system shall include a heat exchanger for extreme ambient conditions and to maintain the pump-suction oil temperature at 160 deg. F. max. The heat exchanger shall be protected by a 30-micron filter and cold weather by pass valve. Hydrostatic loop filtration shall be accomplished by a 10 Beta micron return filter and a 10-micron Absolute (no bypass) charge filter.

The blower is protected by (2) two 3" diameter vacuum relief valves. The system incorporates an air/water separator and a sound silencer to separate material before it enters blower and to ensure quiet operation.

A means of starting, stopping, and varying the vacuum suction from operator station at the front of the machine is provided. The blower is mounted on a frame independent of the water tank. The system is capable of vacuuming under water without air induction. A manometer/vacuum test may be required to demonstrate the system performance.

The positive displacement blower shall have a 12-month non-prorated warranty.

#### **VACUUM PICK UP HOSE**

☒ Yes ☐ No

Shall be front loading, attached at the front of the machine in order to provide ease of positioning the machine over the manhole, as well as afford maximum safety for the operator. The boom will have 8" will be mounted on a boom that will provide a minimum of 18' vertical lift utilizing dual hydraulic cylinder and 230 degree of boom rotation powered hydraulically for non-interrupted smooth movement. Boom to have a lift capacity of 1000 lbs. at the front bumper.

The boom will be powered by an electric over hydraulic system: up/down by dual lift cylinders. The right/left movements shall be hydraulic via worm gear rotation.

Control of the boom is by means of a joystick control at the operator's station, requiring no cables at operator's feet for boom operation.

The boom shall hydraulically telescope a minimum of 10 ft. forward from the operator's station. The height of the boom shall not change while the boom is being telescoped.

A manual override system shall be provided for right/left, and up/down functions in case of system failure. A state-of-the-art Omnibus electronic control system with electronic joystick, and color monitor, will be supplied mounted on the hose reel. The system performs numerous functions for boom, auxiliary engine (if supplied), hose reel, and vehicle control, etc. which are electronically monitored on screen. A wireless remote control will be provided for Boom, Vacuum Breaker, Chassis Throttle, and Debris Body functions.

A boom coverage chart shall be provided stating the square feet the boom covers.

8 inch diameter pipe extensions with clamps will be provided and carried on the truck as follows:

- 1 6-1/2' Catch Basin Nozzle
- 1 6' Aluminum Pipe Extension
- 1 5' Aluminum Pipe Extension
- 1 3' Aluminum Pipe Extension
- 1 4' aluminum pipe

1 spare clamp

#### **WATER SUPPLY**

☒ Yes ☐ No

The water tank shall have a minimum usable capacity of 1000 U.S. gallons.

The water tanks shall be constructed of non-corrosive, non-metallic, durable, cross-linked polyethylene to eliminate rust, corrosion, and stress cracking.

The water tanks shall be mounted at and below the truck frame level to provide a low center of gravity for truck stability.

A 2-1/2 inch diameter x 25 feet long, hydrant hose with hydrant wrench is supplied on the unit.

An anti-syphon fill device is installed on the unit.

Inspection ports shall be provided to fill or to add chemicals to the water system.

A sight gauge to indicate water level is located within sight of the operator station.

The water tanks are protected by a minimum of 11 gauge steel plating mounted below the water tanks for protection against road hazards when unit travels over the road, off the road or to landfills.

The water tanks carry a life time replacement warranty.

#### **HIGH-PRESSURE WATER PUMP**

☒ Yes ☐ No

The high-pressure water pump shall be rated to deliver smooth continuous pressure and flow through the entire flow range of the pump. The high pressure shall have smooth continuous flow for both the high-pressure system and the handgun system.

A continuous duty flow of 80 g.p.m. and 2000 p.s.i shall be provided.

High-pressure relief valves are provided for both the high-pressure system and handgun system.

The water pump operates independently of the vacuum system and be powered by hydrostatics.

The water pump is capable of running dry.

Controls for starting and stopping the water pump and to vary the flow and pressure shall be at the front hose reel operator's station.

The high-pressure water pump is equipped with a cold weather drain valve. The valve allows the operator to completely drain the high-pressure pump.

#### **HOSE REEL ASSEMBLY**

☒ Yes ☐ No

The hose reel assembly is mounted on the front of the vehicle. The hose reel shall have a minimum of 30" inside diameter with a capacity of 800' x 1" hose. The hose reel is equipped with a cage - Lexan style. The hose reel is hydraulically powered in both directions by means of a double chain and sprocket drive. The controls for operating the motor have a flow control device to regulate the rotational speed of the reel in both directions. All hydraulic hoses are behind a steel housing to protect operator from hydraulic oil if a hose fails. The hydraulic motor, chain, and sprockets have a protective cover or are mounted on the radiator side of the hose reel for operator safety. The hose reel articulates 180 degrees to the driver's side allowing operator to work in any position through this arc. This allows greater flexibility in truck placement for manholes located in tough areas and provides greater safety to the operator. Reel extends beyond the width of unit for greater flexibility for positioning reel over offset manholes, catch basins, etc. A hydraulically controlled outrigger leg is supplied that meets the ground at any one position. A warning light is located in the cab to warn the operator that the outrigger leg is not in its transported position prior to moving the unit. A manual bypass system for the hose reel assembly is provided to manually pull the reel assembly away from its transported position. This feature allows operator to check fluids without starting engines.

#### **JET HOSE**

☒ Yes ☐ No

600' x 1" jet rodder hose will be supplied rated for 2500-psi working pressure and 6250-psi burst pressure. A heavy-duty hose guide with 25' of nylon rope will be provided. Nozzles shall be hardened steel with replaceable ceramic orifices as follows: 1) Chisel head penetrator & 1) standard sanitary. 1) Culvert nozzle with bottom jets.

### MANHOLE CLEANING WATER SYSTEM (HAND GUN)

☒ Yes ☐ No

The high-pressure pump and independent water tank assembly supplied shall be used for manhole cleaning.

A smooth continuous flow of 20 g.p.m. and pressure of 600 p.s.i. shall be provided for ease of operation.

A handgun pressure relief valve set at 600 p.s.i. shall be provided.

One full functioning handgun with on/off hand control, replaceable nozzle tip, 12-inch extension, adjustable spray, and 50' x 1/2" hose with retractable reel will be provided.

The handgun will attach to the system via a quick couple connection at the curbside of the unit. To avoid being coiled at the operator's station a handgun holder will be provided at the front bumper.

### HYDRAULIC SYSTEM AND LUBRICATION

☒ Yes ☐ No

The hydraulic system has a 55-gallon capacity.

The hydraulic system shall incorporate a main shut off valve in case of hydraulic failure.

The hydraulic system shall incorporate hydraulic pressure relief valves and pressure gauges for ease of trouble shooting and maintenance.

The unit is equipped on the passenger side, mid-section of the module, a permanent weatherproof white vinyl lubrication chart that points out lubrication points on the module and specifies what type of lubrication and hydraulic fluids are required. The chart also specifies the frequency of each lubrication point.

### ACCESSORIES

☒ Yes ☐ No

A minimum twelve (12) month manufacturer's guarantee on the unit will be provided.

A storage box behind the cab will be provided, 16" x 42" x 96"

1 Debris body power flush out system

1 6" butterfly valve, lower rear door mounted with 20' of 6" decant hose

Gravity drain system consisting of plumbing to the mid-passenger side of the unit. Includes a 3" knife valve

1 with cam-lock connection, 30' of layflat hose with storage rack allowing return of liquids to the manhole without having to reposition vehicle.

1 Heavy reinforced elbow "wear back"

1 Rear splash shield, door flange mounted

1 Air purge system

1 Pre-tank water filter (Y-type)

1 1/4 turn ball valve water drain

1 Lazy Susan style, deck mounted pipe rack, holds 5 pipe

1 Low water alarm with light

1 Body load limit alarm, level indicator

Hydroexcavation package: 50' retractable handgun hose reel with 50' of 1/2" of high pressure hose, HP/Quick

1 disconnect, heavy duty HP unloader valve, main control ball valve, 1/2" Sch. 80 Lance w/Quick Dcn., Sngl. Fwd. Spray Nozzle, Horiz. Hand.

1 Manhole cover lifting hook

1 Rear mounted tow hooks and cone storage rack

1 Remote boom grease zerk assembly, (accessible from ground level)

1 Remote debris tank grease zerk assembly (accessible from ground level)

1 Dual roller level wind guide ilo single

1 Built in Body Prop - Rear Boom Support Mounted

1 12VDC auxiliary hydraulic pump

1 Stainless steel ball on debris body level indicator

1 710 GPM pump off w/3" ball valve & male camlock

1 4" lever valve on pump off inlet

- 1 Electronic water level gauge
- 1 Air operated vacuum relief
- 1 All pipe racks to have stainless steel spring retainers (no bungees)
- 1 1000# boom lift capacity at front bumper
- 1 Hydraulic actuator for hose reel rotation
- 1 Pipe to have Bandlock couplers ILOS

☒ Yes ☐ No

#### **LIGHTING**

The entire module electrical system is vapor sealed to eliminate moisture damage.

All wiring is color-coded, labeled, and run in sealed terminal enclosures.

All module circuits are protected by circuit breakers.

Clearance lights and reflectors are furnished in accordance with D.O.T. requirements.

- 2 Mirror mounted LED strobe light, with limb guard - Whelen L21HAP LED Beacon with Whelen BGH Branch Guard
- 1 LED strobe light with limb guard, rear debris tank door mounted - Whelen L21HAP LED Beacon with Whelen BGH Branch Guard
- 1 LED Arrow stick - Whelen TAM85 Traffic Advisor
- 1 LED Boom Mounted Flood Light - Whelen NP6BB Worklight

☒ Yes ☐ No

#### **PAINT**

Unit paint surface is shot blasted, primed, and sanded prior to paint. Unit to be painted:

to customer special instructions

with DuPont Imron 5000 polyurethane paint.

Unit shall have reflective Green stripes

Chassis shall be painted manufacturer's standard white.

☒ Yes ☐ No

#### **TRAINING AND MANUALS**

Operator training will be conducted by a factory-trained representative for a minimum of one day at the time of delivery. 2 copy(ies) of the operating and maintenance manual for the sewer cleaner module shall be provided upon unit delivery. An operational video will be provided with the unit.

☒ Yes ☐ No

#### **MOUNTING AND DELIVERY**

The unit described will be mounted on a truck chassis acceptable to the body manufacturer at the factory of the body manufacturer.

#### **EXCEPTIONS AND DEVIATIONS:**

Bidder shall fully explain every variance, exception, and or deviation to the bid specifications. Additional sheets/lines may be added if required.

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WORK SMART™

# FREIGHTLINER TRUCKS GOVERNMENT & MUNICIPALITY





# YOU CAN JUST WORK HARD. OR YOU CAN WORK SMART.



114SD Set-forward Axle

Fixing roads, plowing snow and responding to emergencies are all in a day's work. And citizens depend on their government to be prepared for these jobs and more. So wouldn't it be nice to have a fleet of tough and dependable trucks?

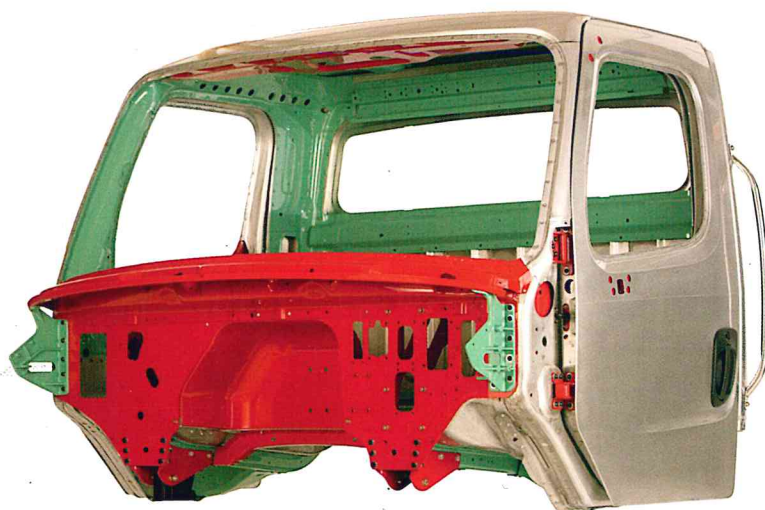
At Freightliner Trucks, we understand the pressure and responsibility you face. That's why we design and build trucks that not only perform their jobs well, they're ready for work every day. In fact, we offer a complete range of vehicles, from

the dependable M2 106 and M2 112 to our Severe Duty trucks, the 108SD and 114SD. These trucks offer all the features you would expect: front frame extensions and radiator-mounted grilles for bumper-mounted attachments; front and rear engine power take-offs; and body-specific chassis layouts that give Truck Equipment Manufacturers (TEMs) the flexibility they need. Simply put, we don't just make our trucks versatile. We make them smart.



## BUILT TOUGH TO WORK SMART.

We've applied sophisticated engineering to the structural elements of our work trucks. For starters, our cabs are lightweight, yet extremely tough. Corrosion-resistant aluminum is reinforced with e-coated steel and assembled to precise manufacturing tolerances with Henrob rivets and welded construction. This process produces a durable and safe cab that meets stringent A-pillar impact, rollover and back wall impact tests. Plus, the chassis includes a robust backbone with a complete offering of single and double channel frame rails. The result is a tensile strength of up to 120,000 psi and an RBM ratio up to 4.4 million inch-pounds per rail. This means our trucks can handle whatever your municipality needs them to do, day after day and year after year.



- Corrugated floor, roof and back-of-cab panels for added strength
- Meets Swedish A-pillar test standards and SAE J2422 roof strength requirements
- Available in day cab, extended cab or 4-door crew cab configurations
- 2,500 square-inch one-piece windshield for outstanding job site visibility
- Wide door openings with low step-in height for safe entry and exit
- Steel firewall for solid mounting of dash panel and driver controls



Components, systems and entire vehicles are subjected to an array of virtual and physical tests to ensure our trucks deliver the expected function, performance and reliability.



# WE'VE ASSEMBLED A TOUGH CREW WITH A READY-TO-WORK ATTITUDE.



## M2 106

### SO MANY JOBS. ONE AMAZING TRUCK.

Freightliner's M2 106 is one of the most versatile trucks on the road. This medium-duty vehicle comes standard with a powerful yet fuel-efficient Cummins ISB or optional ISC engine for increased efficiency through great fuel economy and easy maintenance. Working in a challenging environment requires a truck that's agile and easy to drive, which is why the M2 was engineered with a turning radius that is one of the tightest in the industry. And its automatic transmission is easy on new and experienced drivers alike.

Because driver comfort is key for maximum driver performance, this truck features a spacious cab with low step-in height, an advanced heating and cooling system and a smooth, quiet ride. With a multiplex wiring system, clear frame rails and a variety of exhaust packages, you can get the configuration you need for the job at hand.

- Ideal for utility, stakebed and refuse applications
- GVWR up to 56,000 pounds
- Horsepower from 200 – 350 hp
- Torque ratings up to 1000 lb-ft

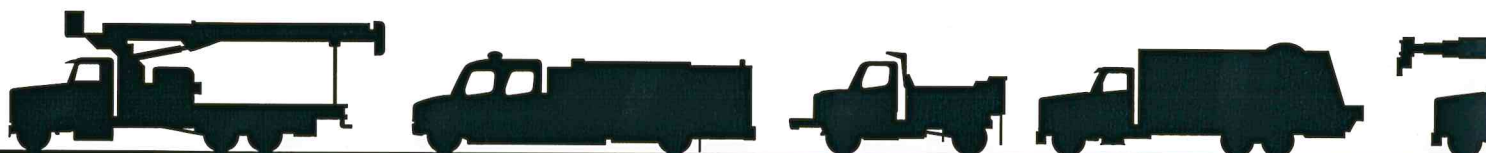


## 108SD

### RUGGED AND VERSATILE WORK WELL TOGETHER.

Freightliner's 108SD set-back axle delivers a new level of performance and reliability. With its aluminum cab, 108-inch BBC, 42-inch set-back axle position and tilt hood with radiator-mounted stationary grille, this truck is the ideal vehicle for a municipal fleet. The 108SD comes standard with the Cummins ISC or optional ISB engine for excellent fuel economy and easy maintenance. Up to a 50-degree wheel cut means excellent maneuverability, even in the tightest streets. And, with our mid-chassis packaging, the 108SD is an easy body upfit.

- Ideal for sewer vacuum, tandem dump trucks and refuse applications
- GVWR up to 79,000 pounds
- Horsepower from 200 – 350 hp
- Torque ratings up to 1000 lb-ft







## M2 112

### FOR WHATEVER WORK YOU NEED DONE.

The dependable, reliable M2 112 is another one of Freightliner's high-performing work trucks, engineered with the kind of power to make a positive impact on your fleet's productivity. You can have it powered by a Cummins ISC, ISL, Cummins Westport ISL G (natural gas - *shown above*), or a Detroit™ DD13® engine with BlueTec® SCR emissions technology. It features a SmartPlex™ Electrical System and a variety of horizontally-mounted exhausts, so you can get the configuration you want without affecting your bottom line. And, with more custom options and safety features than ever before, the M2 112 is a smart choice for your community.

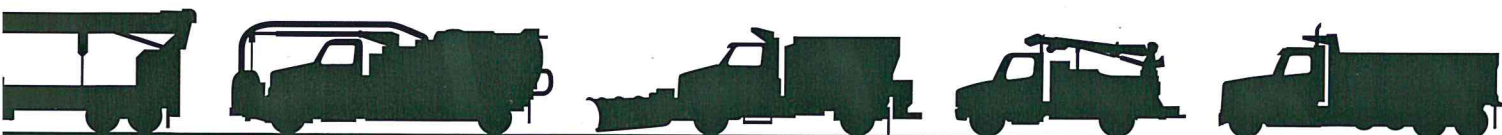
- Ideal for tractor, fire/emergency service and refuse applications
- GVWR up to 62,000 pounds
- GCWR up to 80,000 pounds
- Horsepower from 260 – 470 hp
- Torque ratings up to 1650 lb-ft

## 114SD

### HANDLES DUMPING, PLOWING AND HEAVY LIFTING.

Freightliner's 114SD features a 114-inch BBC and is available as a set-forward axle or set-back axle. The weight-optimized design of the workhorse 114SD keeps pace with your increasing demands and tough challenges. A range of options, including axles, frames and the widest availability of engine choices – Detroit™ DD13® or Cummins ISC, ISL and ISL G – let you spec for regional- and application-specific needs. The 114SD offers excellent visibility, with a clear back-of-cab chassis for easy upfit by equipment manufacturers. Legendary Freightliner quality, insightful, industry-specific innovations and a comprehensive warranty all make the 114SD the perfect vehicle to meet your most severe duty needs.

- Ideal for quad dump trucks, snow plows and high-capacity sewer vacuum applications
- GVWR up to 60,000 pounds (single axle), 80,000 pounds (tandem axle) or 91,000 pounds (tridem axle)
- Horsepower from 260 – 470 hp
- Torque ratings up to 1650 lb-ft



# CONFIGURED FOR COMFORT AND CONTROL.

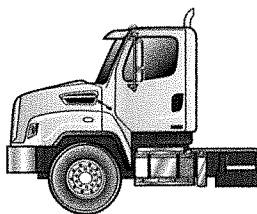
Every aspect of a Freightliner cab was designed to make the driver's job easier, leading to increased productivity. For example, strategically-designed wide cabs provide room between the seats for easy installation of the control tower. To reduce fatigue for drivers who make frequent stops, our lightweight, steel reinforced cab features a low step-in

height with slip-resistant dual steps, a large door opening and strategically-placed exterior and interior grab handles. For safety, the cab's hood slopes downward for better line-of-sight, and a 2,500 square-inch windshield provides excellent visibility for spotting potential hazards. Freightliner vehicles offer a variety of cab configurations.

## CAB CONFIGURATIONS AT-A-GLANCE

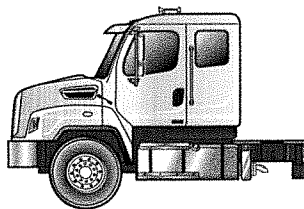
	M2 106	108SD	M2 112	114SD
GVWR	Up to 56k	Up to 79k	Up to 62k	Up to 91k (tridem)
Set-forward Axle				•
Set-back Axle	•	•	•	•
Day Cab	•	•	•	•
Extended Cab	•	•	•	•
Crew Cab	•	•	•	Set-back axle only
Sleeper	Extended cab with bunk	Extended cab with bunk	Extended cab with bunk	Extended cab with bunk

## CAB CONFIGURATIONS



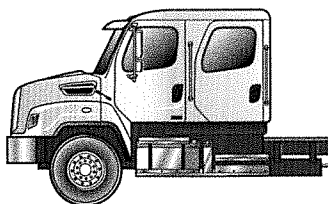
### DAY CAB

- Full width bench seat
- Fixed or air suspension driver and passenger seats
- Passenger seats with storage or locking safe provisions



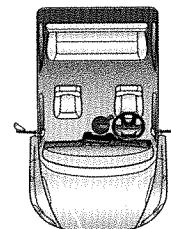
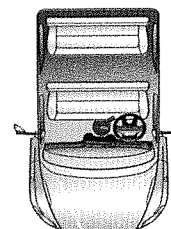
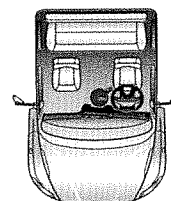
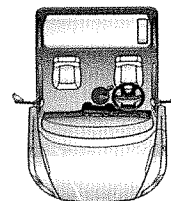
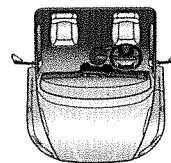
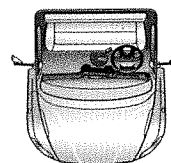
### 26" EXTENDED CAB

- 24" liftable bunk with storage
- Full-width rear bench seat or forward-facing rear jump seats
- Fixed or tip-out tinted side rear windows
- Cab privacy curtain



### 48" CREW CAB

- Rear bench or individual seats including air-suspended
- Electric rear door windows





# TOUGH OUTSIDE. SMART INSIDE.



When you step inside a Freightliner truck, you'll definitely understand what it means to work smart. The driver-friendly dash features controls and switches within easy reach of the driver. The analog gauges are backlit with LED lights for easy readability. And our SmartPlex™ Electrical System provides optimal switch customization. Even the dash structure is designed with fewer sections, making it one of the quietest and most durable dashboards we've ever made.



114SD wing dash and interior (above and above left)

## ALL-WHEEL DRIVE AND DUAL DRIVE OPTIONS

Freightliner's M2 trucks can be ordered with an all-wheel drive option and several combinations of axles and suspension for optimized performance. Available on the M2 106 and 108SD, the sit-down and stand-up dual drive option is an easy-to-use feature that allows smooth transitions from left-to-right-hand drive operations. Installed by Fontaine Modification, the right hand-drive option is ideal for use in refuse collection, road striping, street sweeping and other specialized applications.



Interior featuring the sit-down dual drive option



The all-wheel drive option available on M2 106 and 108SD models optimizes off-road performance



# BETTER PERFORMANCE IS SMARTER GOVERNMENT.

## POWER AND EFFICIENCY.

Because we're committed to helping you make the best overall decisions, a broad range of engine and transmission choices allows you to select the optimum combination to match virtually any municipal application.

Freightliner Trucks has embraced proven SCR emissions technology. Based on environmental advantages and payback to owners in less maintenance, increased fuel economy, better reliability and more uptime, SCR has proven to be a successful platform for EPA 2010 and beyond.

## WE MADE THIS JOB EASY.

For starters, we offer several sizes of diesel exhaust fluid (DEF) tanks, so you can incorporate filling into your standard maintenance intervals. Next, we integrated the DEF gauge into the diesel fuel gauge. The gauge indicates the level of DEF in the tank and has a series of alerts when the tank is running low. A driver who ignores his DEF low level warnings will see de-rates and restrictions on his vehicle, but will never be stranded.



Detroit™ DD13® Engine



Cummins ISC Engine

	M2 106	108SD	M2 112	114SD
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## ENGINES

Cummins ISB* 200 - 325 hp / 520 - 750 lb-ft torque	•	•		
Cummins ISC* 260 - 350 hp / 660 - 1000 lb-ft torque	•	•	•	•
Cummins ISL up to 380 hp / 1300 lb-ft torque			•	•
Cummins Westport ISL G (natural gas) up to 320 hp / 1000 lb-ft torque			•	•
Detroit™ DD13® 350 - 470 hp / 1250 - 1650 lb-ft torque			•	•

\* Higher ratings are available for approved applications

## TRANSMISSIONS

Eaton Fuller Manual	•	•	•	•
Eaton Fuller Automated	•		•	•
Allison Transmission	•	•	•	•
Freightliner AMT <sup>3</sup> Automated-Manual Transmission	•			

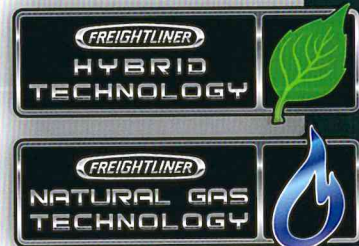
## AXLES (UP TO)

Steer	16k	20k	16k	22k
Single Drive	30k	38k	30k	38k
Tandem	40k	46k	46k	58k
Tridem				69k

## THE POWER OF GOING GREEN.

As the demand for environmentally-conscious products and services continues to grow, the M2 106 Hybrid and the M2 112 and 114SD LNG or CNG Natural Gas options are perfect for stop-and-go and high-idling vocational operations. Driving a hybrid or a natural gas-fueled vehicle delivers economic advantages today and environmental benefits for future generations. And, as a domestic fuel source, natural gas reduces our dependency on foreign oil.

Thanks to federal and state government incentives, your alternative fuels vehicle can save you money even before you get it on the road. Contact your local Freightliner Dealer to find out which state and federal rebates and incentives are available to you, so you can work smart from day one.





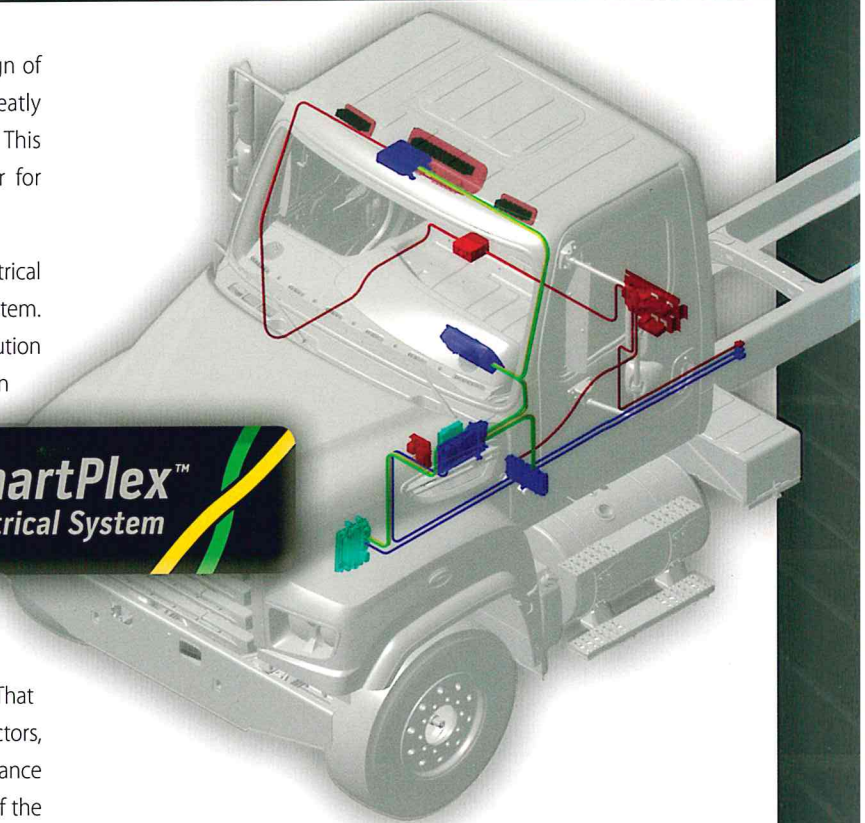
# TRUCKS BUILT TO SERVE.

Truck Equipment Manufacturers (TEMs) love the efficient design of our trucks. Electrical, pneumatic and fuel lines have been neatly organized inside the left-hand rail for most applications. This relieves congestion at the back-of-cab, making access easier for body builders and service technicians.

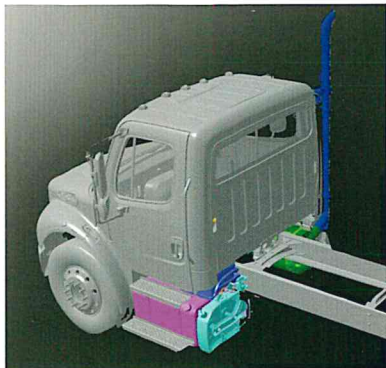
We've also spent a decade developing and refining multiplex electrical wiring. Our latest evolution is the SmartPlex™ Electrical System. SmartPlex provides TEMs with the most efficient and reliable solution that will increase the ease of body integration and application programming, keeping customers on the road and working smarter.

## PRIMARY BENEFITS OF THE SMARTPLEX ELECTRICAL SYSTEM:

- **Improved Reliability** - The multiplex wiring system reduces the number of wires by more than 40 percent, from 650 to 350. That means 300 fewer possible failure points, as well as fewer connectors, relays and fuses. Advanced solid-state components further enhance the reliability of the multiplex system, as does the relocation of the Power Distribution Modules inside the cab for corrosion prevention.
- **Greater Flexibility** - Configuring a truck's wiring system is easier than ever. Simply install specific switches where they are most convenient, then use ServiceLink to program them to do what you want them to do. If you want to move a switch from the dash to the overhead or vice versa, go ahead, there's no need to rewire or reprogram.
- **Easier Maintenance** - Onboard computers capture data, providing better diagnostic capability. If a problem occurs, the data is relayed to the dashboard, alerting the operator. This data also can be accessed using Freightliner's ServiceLink® software for diagnosis by a technician.

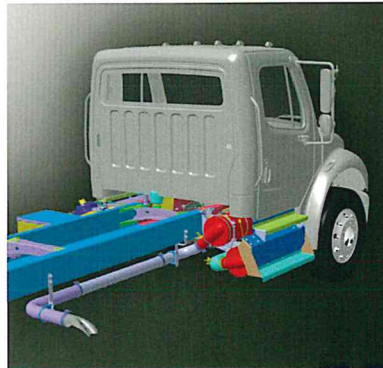


## EXHAUST AFTER-TREATMENT OPTIONS

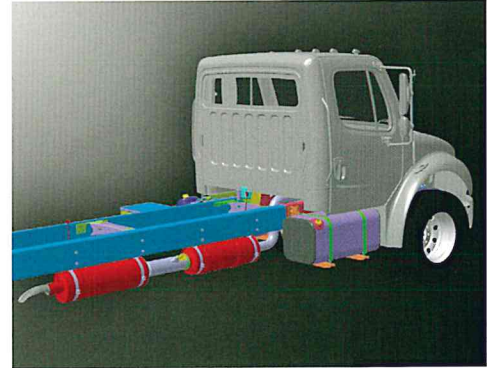


### CLEAR BACK-OF-CAB TAILPIPE

Clear left-hand and right-hand transmission PTO mounting locations



### CURBSIDE EXIT TAILPIPE



### CLEAR UNDER-CAB TAILPIPE

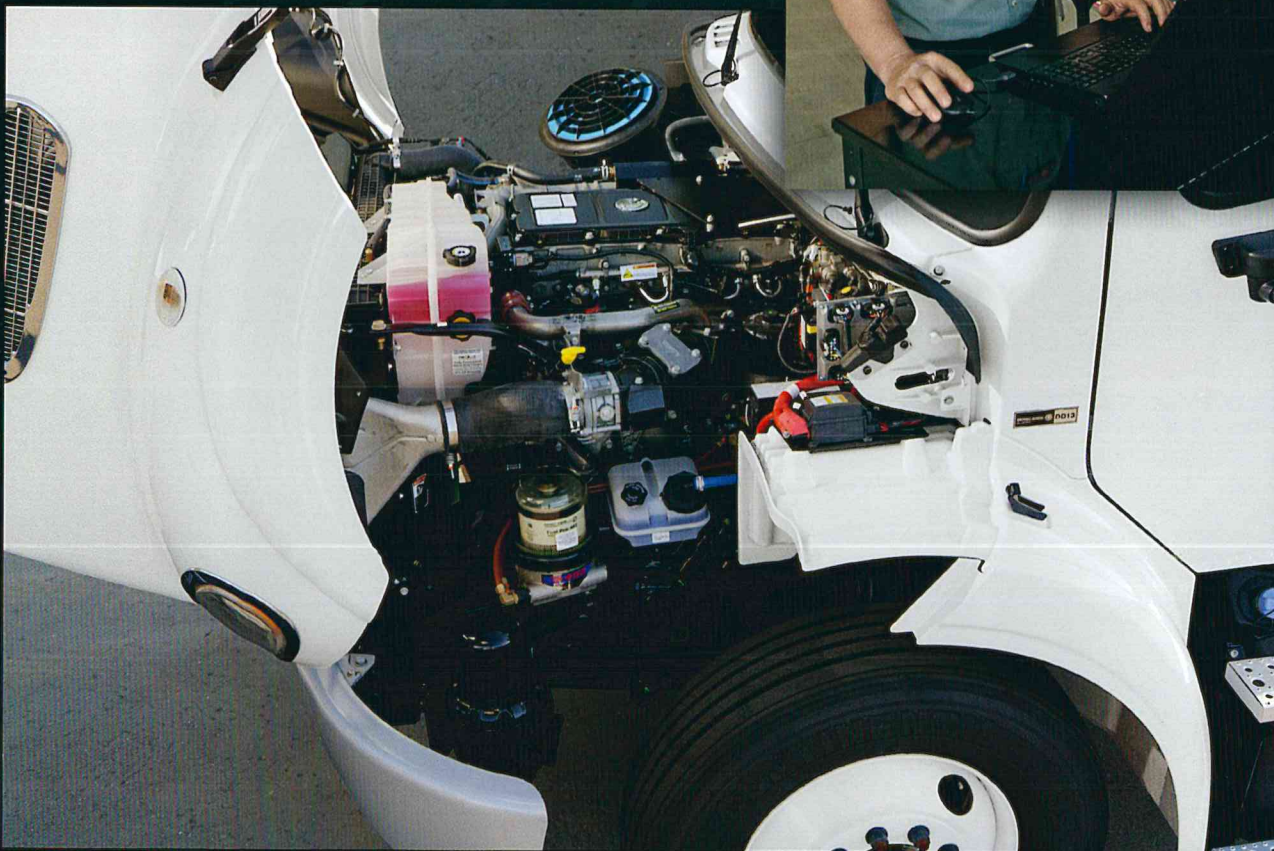


# MAINTENANCE MADE EASY.

We've designed these vehicles to be easy to maintain, with quick access to critical maintenance points. The hood opens easily and features integrated splash shields that lift out of the way for better accessibility. Frequently inspected components are strategically placed, allowing for faster repairs and adjustments. See-through fluid reservoirs reduce the time spent checking fluid levels, and a removable floor section allows access to the transmission without removing the floor covering.

The standard proprietary Donaldson PowerCore® air cleaner is designed to go longer between replacements, yet still traps 99.85 percent of airborne particles before they reach the engine. An optional pre-cleaner is available for the harshest environments. There's a lube-free steering shaft, a self-adjusting hydraulic clutch and suspensions that require no maintenance or lubrication. The truck's multiplex electrical system has about half the wires of a traditional electrical system, which reduces possible failure points and allows technicians

to more quickly pinpoint electrical problems. With Virtual Technician on board 24/7 monitoring your truck's Detroit™ engine and automatically diagnosing engine fault codes, you're able to stay on the road longer, be more productive on the job and remain in control of your business. Even the three-piece bumper (M2 106 or M2 112) was designed to save repair costs by allowing partial replacement. The result is a vehicle that spends more time on the road.







114SD Set-back Axle



114SD Set-back Axle



M2 106



**WORK SMART<sup>SM</sup>**



# WE'VE GOT YOU COVERED.

## UNMATCHED SERVICE AND SUPPORT.

With more than 300 Freightliner dealer locations across North America, you're never far from the convenient service and support you have come to expect from the industry leader. In addition, more than 200 Freightliner ServicePoint® facilities located at TravelCenters of America and Petro Stopping Centers offer certified repair and warranty work. When you need a factory-certified technician, Detroit offers more than 800 locations in North America.

Freightliner also maintains strategically located parts distribution centers throughout North America, ensuring fast parts delivery to keep customers up and running.

Freightliner's Customer Assistance Center provides customers a hotline that's available 24 hours a day, seven days a week. Customers may call the toll-free number (1-800-FTL-HELP) for technical support, to arrange roadside assistance or towing services, or to locate the nearest dealer or service center.

## A SIMPLE PURCHASE PROCESS THAT'S SECOND TO NONE.

Purchasing a truck is one of the most important decisions you make. Freightliner makes the buying process easy, with highly trained sales consultants and one of the largest dealer networks in the industry, so businesses don't have to look far for their next purchase. Count on Freightliner dealers for reliable product information, truck parts and service, and ongoing customer support.

## FINANCING IS EASY.

Daimler Truck Financial (DTF) offers a variety of options, including loans and leases tailored to the trucking industry, that make financing go smoothly. DTF has been meeting the financing challenges of owner-operator and vocational customers for more than 30 years. It offers finance solutions including conventional retail financing at attractive and competitive rates, a variety of terms to match cash flow, and up to 100% financing for qualified customers.

**Daimler Truck Financial**

Financing that works for you.

## COMPREHENSIVE WARRANTIES FOR ADDED PEACE OF MIND.

Freightliner stands behind its trucks every step of the way. We offer one of the most comprehensive warranties in the business, as well as a variety of extended warranties.

## BETTER PARTS. GOOD PRICES.

Alliance Truck Parts offers a range of new and remanufactured maintenance, repair and replacement parts and accessories for virtually all types of heavy-duty trucks at an affordable price. Alliance Truck Parts are sold at Freightliner dealers throughout the U.S. and Canada.



[FREIGHTLINERTRUCKS.COM/WORKSMART](http://FREIGHTLINERTRUCKS.COM/WORKSMART)



Competitive financing available through Daimler Truck Financial. For the Freightliner Trucks Dealer nearest you, call 1-800-FTL-HELP. [www.freightlinertrucks.com](http://www.freightlinertrucks.com). 15M, 1/2012. FTL/MC-B-1100. Specifications are subject to change without notice. Freightliner Trucks is registered to ISO 9001:2008 and ISO 14001:2004. Copyright © 2012. Daimler Trucks North America LLC. All rights reserved. Freightliner Trucks is a division of Daimler Trucks North America LLC, a Daimler company.

24064

**W-9**  
Form  
(Rev. November 2005)  
Department of the Treasury  
Internal Revenue Service

# Request for Taxpayer Identification Number and Certification

Give form to the  
requester. Do not  
send to the IRS.

Print or type  
See Specific Instructions on page 2.

Name (as shown on your income tax return): <i>Couington Sales &amp; Service, Inc.</i>
Business name, if different from above: <i>Couington Sales &amp; Service, Inc.</i>
Check appropriate box: <input checked="" type="checkbox"/> Individual/ Sole proprietor <input checked="" type="checkbox"/> Corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Other <input type="checkbox"/> Exempt from backup withholding
Address (number, street, and apt. or suite no.): <i>7868 Florida Blvd.</i>
City, state, and ZIP code: <i>Denham Springs, La.</i>
List account number(s) here (optional):
Requester's name and address (optional):

## Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on Line 1 to avoid backup withholding. For individuals, this is your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN* on page 3.

Social security number  
| | | | | | | | | |  
or

**Note.** If the account is in more than one name, see the chart on page 4 for guidelines on whose number to enter.

Employer identification number

*72091910795*

## Part II Certification

Under penalties of perjury, I certify that:

- The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me), and
- I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding, and
- I am a U.S. person (including a U.S. resident alien).

**Certification instructions.** You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the Certification, but you must provide your correct TIN. (See the instructions on page 4.)

Sign  
Here

Signature of  
U.S. person ▶

*R.E. Couington*

Date ▶

*12/3/2007*

## Purpose of Form

A person who is required to file an information return with the IRS, must obtain your correct taxpayer identification number (TIN) to report, for example, income paid to you, real estate transactions, mortgage interest you paid, acquisition or abandonment of secured property, cancellation of debt, or contributions you made to an IRA.

**U.S. person.** Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN to the person requesting it (the requester) and, when applicable, to:

- Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),
- Certify that you are not subject to backup withholding, or
- Claim exemption from backup withholding if you are a U.S. exempt payee.

In 3 above, if applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income.

**Note.** If a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.

For federal tax purposes, you are considered a person if you are:

- An individual who is a citizen or resident of the United States,
- A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States, or
- Any estate (other than a foreign estate) or trust. See Regulations sections 301.7701-6(a) and 7(a) for additional information.

**Special rules for partnerships.** Partnerships that conduct a trade or business in the United States are generally required to pay a withholding tax on any foreign partners' share of income from such business. Further, in certain cases where a Form W-9 has not been received, a partnership is required to presume that a partner is a foreign person, and pay the withholding tax. Therefore, if you are a U.S. person that is a partner in a partnership conducting a trade or business in the United States, provide Form W-9 to the partnership to establish your U.S. status and avoid withholding on your share of partnership income.

The person who gives Form W-9 to the partnership for purposes of establishing its U.S. status and avoiding withholding on its allocable share of net income from the partnership conducting a trade or business in the United States is in the following cases:

- The U.S. owner of a disregarded entity and not the entity,