

Presents a Proposal Summary

of the



850 Series Rear Reel RamJet Mounted on a Heavy Duty Truck Chassis

for

Boone County RSD
1314 North 7th St
Columbia, MO 65201

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About Coe Equipment (Background, years in business and business team)

Coe Equipment Incorporated is a distributor of sewer cleaning and municipal equipment to cities and contractors throughout Illinois and Missouri. Our team includes over 115 years of combined experience, and over \$500,000 in parts availability. In addition to selling new and used equipment, we also repair all makes and models of sewer cleaning and vacuum equipment. Coe Equipment has been the Vactor Manufacturing, Inc. local manufacturer's representative for over 33 years, since 1986. Coe Equipment has four field technicians and three mechanics certified to work on Vactor equipment. Our warranty and service facility is located in Rochester, IL.

Vactor Manufacturing is the leading manufacturing of sewer cleaners and catch basin cleaners, jetters, industrial vacuum loaders and vacuum excavation equipment featuring innovative technology and custom-configurable designs. Originally founded in Chicago in 1911 as the Myers-Sherman Company, Vactor has been creating and perfecting sewer cleaning equipment for over 100 years. Vactor is located on 20 acres with 245,000 square feet of manufacturing space under one roof in Streator, Illinois and is ISO 9001:2008 and ISO 14001:2004 certified.

Municipal Agencies Using Proposed Solution

Approximately 80% of our service area uses the proposed solution, and approximately 50% of the industry nationwide uses the proposed solution.

Location and Contacts

Coe Equipment, Inc. is headquartered in Rochester, IL. Primary contact information for Coe Equipment is provided below:

Coe Equipment, Inc.
5953 Cherry Street
Rochester, IL 62563
Contact: Matt Freeze, Southeastern Missouri Territory Field Representative
Phone: Matt Freeze: 217-899-7300
Fax: 217-498-7205
Email: matt@coe-equipment.com
Office hours: 7:30 AM – 6:00 PM, Monday - Friday
After office hours: Call cell phone to troubleshoot and schedule appointments outside of office hours.

Vactor Manufacturing is headquartered in Streator, IL. Primary contact information for Vactor Manufacturing is provided below:

Vactor Manufacturing, Inc.
1621 S. Illinois Street
Streator, IL 61364
Contact: Hunter Larson
Phone: 312-989-5090
Email: hl Larson@federal signal.com
Office hours: 9:00 AM – 5:00 PM, Monday - Friday
After office hours: Call cell phone to troubleshoot and schedule appointments outside of office hours.

Proposal Specifications

Order Qty	Part Number	Description
1	VRR1500	RamJet Rear Reel 1500 Gallons
1	VR5002ASTD	80 GPM @ 2500 PSI (Certified)
1	VR005STD	2-1/2" x 25' Fill Hose w/ Connections Street Side and Curb Side
1	VR015STD	304 Stainless Steel Tank w/Baffle w/10 Yr Warranty
1	VR019STD	Intuitouch Electronic Package
1	VR032STD	(3) Nozzles with Carbide Inserts w/Rack
1	VR060STD	Hydrant Wrench
1	VR065STD	Handgun Assembly w/ 35' x 3/8" Hose w/ Quick Disconnects
1	VR090STD	Un-Shrouded
1	VR115STD	Color Coded Sealed Electrical System (NEMA 4)
1	VR120STD	Aluminum Rear Fenders w/ Mud Flaps and Anti-Sail Brackets
1	VR150STD	Hydraulic Oil Sight Gauge
1	VR151STD	Electric Back-Up Alarm
1	VR181STD	10'-6" Low Profile (Based on Vactor Stock Chassis Spec)
1	VR183STD	Multi-Flow Water System
1	VR184STD	Hydraulic Manifold Hose Reel Controls
1	VR2001STD	Low Water Alarm with Water Pump Flow Indicator
1	VR5010STD	Rodder System Accumulator - Jack Hammer on/off Control w/ manual valve
1	VR5014STD	1" Water Relief Valve
1	VR5022STD	Side Mounted Jet Rodder Pump W/ Two Yr. Warranty
1	VR560STD	Road Side Hazard Kit
1	VR590STD	Fire Extinguisher 5 Lbs.
1	VR6005DSTD	Digital Hose Footage Counter
1	VR6017STD	Hydraulic Tank Suction Shutoff Valves
1	VR7001STD	Tachometer / Chassis Engine w/ Hour Meter / Oil Pressure / Coolant Temperature / Hour Meter
1	VR7005STD	Hydraulic Oil Temp Alarm w/Indicator and Shutdown
1	VR8000STD	Circuit Breakers
1	VR8025STD	LED Lights, Clearance, Backup, Stop, Tail, & Turn
1	VR9002ASTD	Tow Hooks, Rear
1	VR9002STD	Tow Hooks, Front
1	VR9019BSTD	Standard P/S Toolbox
1	VR2011STD	3" Y-Strainer Filter in Water Tank Fill w/ Cleanable Filter Accessible at Ground Level
1	VR2013STD	Flexible Hose Guide
1	VR2077STD	3" Y-Strainer Filter in Jet Rodder Pump Suction w/ Cleanable Filter Accessible at Ground Level
1	VR3019STD	Digital Water Pressure Gauge
1	VR090D	Max Storage Rodder Pump Cabinet-Enclosure (Includes Rodder Pump Drain Valves)
1	VR092	Rodder Pump Cabinet Lights
1	P110STD	Paint, Module, (Wet on Wet)
1	VR3020	Digital Water Level Indicator
1	VR2403A	Heater Package -Rodder Pump Cabinet

1	VR4011B	Bellypack Wireless Controls, including hose reel controls
1	VR5008B	Cold Weather Recirculator, PTO Driven, 25 GPM
1	VR6003	800' x 1" Aeroquip Sewer Hose 2500 PSI in lieu of STD
1	VR6004C	Hose Wind Guide (Dual Roller), Auto, Hydraulically Indexing with Pinch Roller
1	VR6015B	Rotating Hose Reel, 1" x 900' Capacity
1	VR6019STD	Rodder Pump Drain Valves
1	VR6027A	25' Leader Hose (in lieu of standard)
1	VR8001M	Rear Directional Control, LED Arrowstick
1	VR8004G	Front Mounted, LED Beacon Light w/ Limb Guard
1	VR8016	Worklights (2), Rear, LED
1	VR8026A	10 Light Package, 10 Federal Signal Strobe Lights, LED
1	VR9018EA	Max Storage D/S Tool Tray
1	VR9021C	Camera System, Rear (1 Mounted on Tailplate) and Manhole (3 Mounted on Top of Shroud)
1	VR9023C	Safety Cone Storage Rack
1	LOGO-APPL.	Vactor/Guzzler Logos - Applied
1	500655B-30	Vactor Standard Manual and USB Version - 1 + Dealer
1	500655-30	1 Printed Full Vactor Manual
1	CUSTOMER	Customer Supplied Chassis International, Non-Vactor Spec
1	CHASSIS-MODS	Customer Supplied Chassis Modification Charge, Non - Vactor Spec
1	R30875	Front Bumper Corner Strobes
1	R30669	Root cutter storage toolbox
1	R36362	Hose reel hydraulic bypass valve to allow the reel to freewheel
1	R41490	Federal Signal NightSpire Adjustable Spot
1	Safety Protection	Sonetics 3-User Wireless Headset Set-up
2	Lead Hose	(25') Leader Hose
1	Swage Machine Set-up	Manufacturer Approved Swage Machine for Field Hose Repair, with Dies, Pusher, and Fittings
1	WGR-1-PKG	Warthog Magnum Sewer Nozzle
2	RC-LRG-1	Root Saw Kit for Routine Line Maintenance- Includes Saw Blades and Cables
1	TMHR-A	Top Manhole Roller
1	Vanguard Misc.	Move Vanguard System From Trade-In to New Truck

Module Paint Color Code - SS304 Tank- White Reel

Cab Color - White

Chassis Options:

2023 International HV607 4x2 SBA, Cummins L9 300, Allison 3500 RDS Automatic Transmission, 37000 GVWR

Total Delivered Price

Factory Price:	\$214,315.52
2023 International HV607 Chassis:	\$84,266.00
Less Sourcewell Discount:	-\$7,533.68
Subtotal:	\$291,047.84
Less 2011 SECA 800HPR Truck Jetter Trade-In:	-\$25,000.00
Total:	\$266,047.84

Price includes delivery, on-site operator training, and factory training class admission (mechanics and operators). Title, and license are in addition to the unit price.

Price valid until November 15, 2021.

Payment Terms: NET

*Proposal Notes:

1. Multiple unit orders will be identical to signed proposal. Changes or deviations to any unit of a multiple unit order will require a new signed proposal.
2. Chassis specifications and data codes for customer-supplied chassis must be submitted to and approved by Vactor Manufacturing prior to submittal of customer purchase order.
3. All prices quoted are in US Dollars unless otherwise noted.
4. Trade-in requires title, manual, standard accessories, and should be in good working order.

This quotation becomes a contract for delivery and payment of the merchandise listed above only when signed by the Company and the customer or one of its officers.

Customer

Customer Representative

Date

Coe Equipment, Inc.

Company

Matt Freeze

Company Representative: Matt Freeze

October 11, 2021

Date

Appendix 1: Literature and Warranty

Appendix 2: Chassis Specifications

LIMITED WARRANTY

Limited Warranty. Each machine manufactured by VACTOR/GUZZLER MANUFACTURING (or, "the Company") is warranted against defects in material and workmanship for a period of 12 months, provided the machine is used in a normal and reasonable manner and in accordance with all operating instructions. In addition, certain machines and components of certain machines have extended warranties as set forth below. If sold to an end user, the applicable warranty period commences from the date of delivery to the end user. If used for rental purposes, the applicable warranty period commences from the date the machine is first made available for rental by the Company or its representative. This limited warranty may be enforced by any subsequent transferee during the warranty period. This limited warranty is the sole and exclusive warranty given by the Company.

STANDARD EXTENDED WARRANTIES (Total Warranty Duration)

<u>2100 Series, HXX, Series and Jetters</u>	10 years against metal water tank leakage due to corrosion. Nonmetallic water tanks are covered for 5 years against any factory defect in material or workmanship.
<u>2100 Series and HXX only</u>	5 years against leakage of debris tank, centrifugal compressor or housing due to rust-through.
<u>2100 Series and Jetters</u>	2 years - Vactor Rodder Pump on all unit serial numbers starting with 13-##V-#####

Exclusive Remedy. Should any warranted product fail during the warranty period, the Company will cause to be repaired or replaced, as the Company may elect, any part or parts of such machine that the Company's examination discloses to be defective in material or factory workmanship. Repairs or replacements are to be made at the selling Vactor/Guzzler distributor's location or at other locations approved by the Company. In lieu of repair or replacement, the Company may elect, at its sole discretion, to refund the purchase price of any product deemed defective. The foregoing remedies shall be the sole and exclusive remedies of any party making a valid warranty claim.

This Limited Warranty shall not apply to (and the Company shall not be responsible for):

1. Major components or trade accessories that have a separate warranty from their original manufacturer, such as, but not limited to, trucks, engines, hydraulic pumps and motors, tires and batteries.
2. Normal adjustments and maintenance services.
3. Normal wear parts such as, but not limited to, oils, fluids, vacuum hose, light bulbs, fuses and gaskets.
4. Failures resulting from the machine being operated in a manner or for a purpose not recommended by the Company.
5. Repairs, modifications or alterations without the express written consent of the Company, which in the Company's sole judgment, have adversely affected the machine's stability, operation or reliability as originally designed and manufactured.
6. Items subject to misuse, negligence, accident or improper maintenance.

NOTE The use in the product of any part other than parts approved by the Company may invalidate this warranty. The Company reserves the right to determine, in its sole discretion, if the use of non-approved parts operates to invalidate the warranty. Nothing contained in this warranty shall make the Company liable for loss, injury, or damage of any kind to any person or entity resulting from any defect or failure in the machine.

THIS WARRANTY SHALL BE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ALL OF WHICH ARE DISCLAIMED.

This warranty is in lieu of all other obligations or liabilities, contractual and otherwise, on the part of the Company. For the avoidance of doubt, the Company shall not be liable for any indirect, special, incidental or consequential damages, including, but not limited to, loss of use or lost profits. The Company makes no representation that the machine has the capacity to perform any functions other than as contained in the Company's written literature, catalogs or specifications accompanying delivery of the machine. No person or affiliated company representative is authorized to alter the terms of this warranty, to give any other warranties or to assume any other liability on behalf of the Company in connection with the sale, servicing or repair of any machine manufactured by the Company. Any legal action based hereon must be commenced within eighteen (18) months of the event or facts giving rise to such action.

The Company reserves the right to make design changes or improvements in its products without imposing any obligation upon itself to change or improve previously manufactured products.



VACTOR/GUZZLER MANUFACTURING
1621 S. Illinois Street
Streator, IL 61364

12-13-2012

RAISING THE BAR WITH REVOLUTIONARY TECHNOLOGY.



VACTOR[®]
RAMJET

SIMPLER. SMARTER. SMOOTHER.



When you start with a powerful machine that already delivers proven performance, versatility, operating ease and maneuverability, how do you make it even better? When it comes to our latest Ramjet™, we began by adding our exclusive IntuiTouch® controls for greater precision and enhanced productivity. Then, we improved the water plumbing to add even more storage options. All together it's a package of performance and power unmatched in the industry:

- IntuiTouch control system with one-touch activation
- Low-maintenance Jet Rodder® water pump
- Park-N-Clean™ technology for faster set-up at the job site
- Exclusive Modul-Flex design for maximum capacities and optimum weight distribution
- Stainless steel water tank offers greater strength and corrosion protection and comes with a 10-year warranty
- Superior cold weather operation that includes separate storage for wet and dry items

Like all Vactor® equipment, the latest Ramjet offers customized solutions, powerful support and unmatched quality.

MORE INTUITIVE THAN EVER BEFORE.

IntuiTouch In-Cab Controls

- One-Touch engagement to activate PTO – allowing operators to gain control of all operational systems
- Operator can engage road, jet, and recirculation mode with single push-button ease



IntuiTouch Control Panel

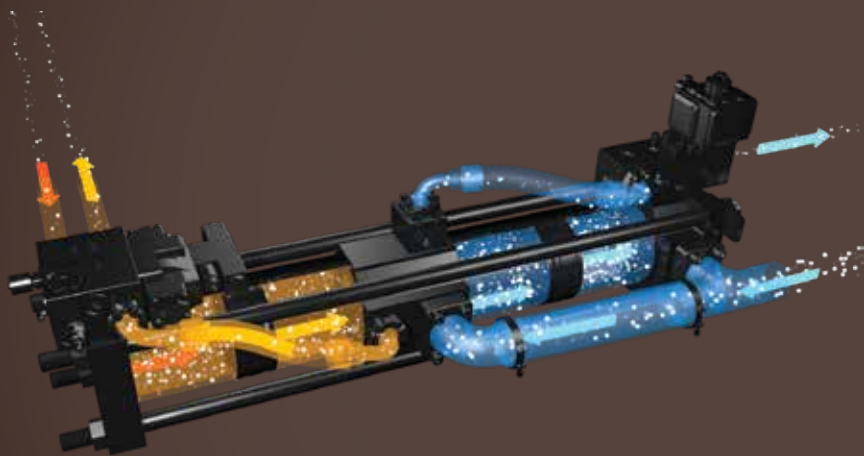
- Ergonomic controls with up/down adjustment for individualized maximum comfort
- Glove-friendly tactile buttons
- Reliable touch buttons with backlit feedback enable the operator to know if a selected function is active
- Hose reel joystick significantly improves response time and pays in and out in the direction of the hose reel
- Operators have full control of the water system via a single Multi-Flow control dial - enabling them to precisely match the flow and pressure to the job requirements
- E-stops located at all operator control points bring the unit to a safe condition to protect both the operator and the equipment



MAKING THE BEST EVEN BETTER.

High-Performance Park-N-Clean Technology

A system that allows the operator to literally park near the manhole and be cleaning within a minute or two — requiring minimal setup time. This makes things easier for the operator and results in better fuel efficiency and less wear on components.



Exceptional Jet Rodder Water Pump

Leading the industry in longevity and worry-free maintenance, the Jet Rodder water pump delivers smooth flow at the nozzle for general cleaning and root cutting. Includes the powerful “Jackhammer” action to break up the toughest blockages.

Optional Jet Rodder Water Pump Heated Cabinet

The aluminum heated enclosure keeps the pump and plumbing — including the high-pressure reel and all ball valves — covered and protected at all times. This exclusive design optimizes performance of the truck in cold weather.



DISCOVER THE RENEWED RAMJET.

Performance you expect from a proven leader.



The Ramjet has long been one of our premier products, and this newest model takes its previous innovations even further. By providing greater precision, increased storage options and superior cold weather protection, these machines make the job safer, easier and more efficient for the operator.

Vactor has proudly been dedicated to continuously improving sewer cleaners for over fifty years, and the versatile and reliable Ramjet is just one of the highly customized solutions we offer.

Coe Equipment Inc.

5953 Cherry Street, Rochester, IL 62563 ■ P. 217.498.7200 ■ F. 217.498.7205 ■ www.coe-equipment.com

Serving Illinois & Missouri Since 1986 ■ All Sewer Cleaning & Vacuum Excavation Equipment

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Subsidiary of Federal Signal Corporation

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NIGHTSPIRE™

MAXIMIZE SAFETY WITH A LEADER IN WARNING LIGHTS

Municipal / Construction / Utility

NIGHTSPIRE™ SPECIFICATIONS

Light Technology	LED
Amp Draw	3.25 Amps Peak
Voltage	12 Vdc
Dome Color	Clear
Warranty	Five Years
Dimensions	
Permanent Mount	6.0 x 6.0 x 7.1 (in) 15.24 x 15.24 x 18.03 (cm)
Magnet Mount	5.19 x 5.19 x 6.94 (in) 13.03 x 13.03 x 17.62 (cm)
Controller	
Dimensions	5.09 x 1.12 x 1.80 (in) 12.9 x 2.85 x 4.5 (cm)
Batteries	[2] AAA (Included)
Approval	
	IP69K

WIRELESS CONTROLLER



Tactile buttons for easy activation

Easy to grip design

Back-lit buttons when activated

Low maintenance, full-featured wireless controller
(2 AAA batteries, included)

To learn more, visit [fedsig.com](https://www.fedsig.com)

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NIGHTSPIRE™

**ADJUSTABLE SPOT AND FLOOD LED LIGHT
WITH WIRELESS CONTROL**

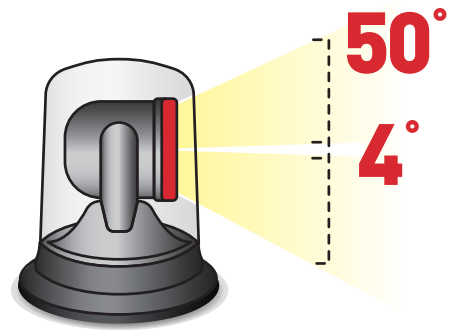
NIGHTSPIRE™

**POWERFUL.
INNOVATIVE.
RELIABLE.**

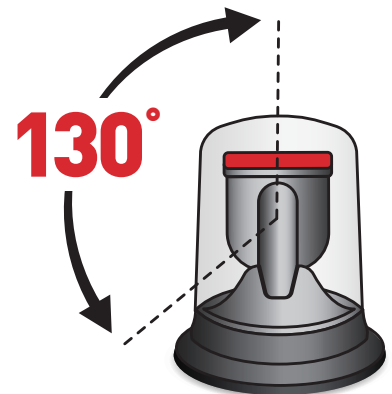


Safety is the number one priority for truck operators in work zones—demand a spot and flood light that's powerful, innovative and reliable.

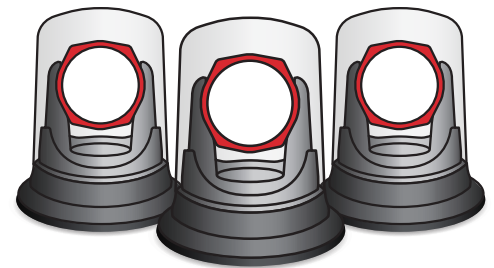
From spot light to flood light, the **NightSpire™** provides 360-degrees of continuous rotation to direct light where it is needed.



FLOOD TO SPOT
Adjustable flood to spot capability
Digitally controlled lens adjusts between
50-degrees to 4-degrees



TILT
130° of vertical
tilt



MULTI-SELECT
Sync up to three lights
with one controller.



ROTATION

360° of Continuous
Rotation



IP69K

Maximum protection
from dust & water.
Pressure wash resistant.



SUB-ZERO

Designed to operate
in -40°C to -80°C
environment.

SPOT & FLOOD LIGHT BUILT FOR PERFORMANCE

- Adjustable spot to flood capability
- 360° of continuous rotation; 130° of vertical tilt
- Multi-select synchronization — Sync up to three lights with controller
- IP69K — Maximum protection from dust and water
- Mounting options: Magnet Mount, Cigarette Plug and Permanent/1-inch pipe mount
- Designed to operate in -40°C to +80°C environments
- Wireless controller; Back-lit controller buttons when activated
- 3,100 raw lumen output
- 12 Vdc
- Five-year warranty

Digitally controlled lens adjusts 50-degrees of flood light to a pinpoint spot light at 4-degrees

SPOT LIGHT



FLOOD LIGHT



WIRELESS CONTROLLER

Sync up to three lights with one controller. Back-lit lights illuminate for ease of operation.

TWO BASE OPTIONS



Magnet Mount,
Cigarette Plug



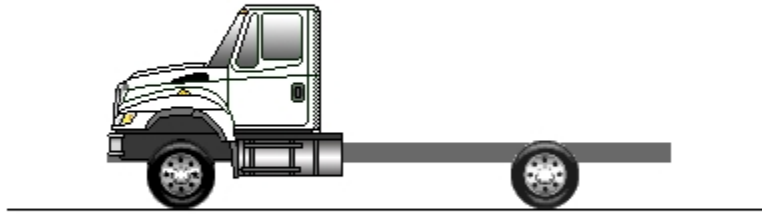
Permanent/ 1-inch
pipe mount

Prepared For:

Vactor/Guzzler Mfg.. Inc.
Greg Grant
1621 South Illinois St.
Streator, IL 61364-
(813)672 - 3171
Reference ID: Boone County

Presented By:

SOUTHLAND TRANSPORTATION GROUP
Reynolds Boyd
200 OXMOOR BOULEVARD
HOMEWOOD AL 35209 -
(205)942-6226



Model Profile
2023 HV607 SBA (HV607)

AXLE CONFIG: 4X2

APPLICATION: Sewer Vac

MISSION: Requested GVWR: 37000, Calc. GVWR: 36220, Calc. GCWR: 80000

DIMENSION: Wheelbase: 179.00, CA: 111.90, Axle to Frame: 63.00

ENGINE, DIESEL: {Cummins L9 300} EPA 2021, 300HP @ 2200 RPM, 860 lb-ft Torque @ 1200 RPM, 2200 RPM Governed Speed, 300 Peak HP (Max)

TRANSMISSION, AUTOMATIC: {Allison 3500 RDS} 5th Generation Controls, Wide Ratio, 6-Speed with Double Overdrive, with PTO Provision, Less Retarder, Includes Oil Level Sensor, with 80,000-lb GVW and GCW Max, On/Off Highway

CLUTCH: Omit Item (Clutch & Control)

AXLE, FRONT NON-DRIVING: {Meritor MFS-14-143A} Wide Track, I-Beam Type, 14,000-lb Capacity

AXLE, REAR, SINGLE: {Meritor RS-23-160} Single Reduction, 23,000-lb Capacity, Driver Controlled Locking Differential, 200 Wheel Ends Gear Ratio: 5.38

CAB: Conventional, Day Cab

TIRE, FRONT: (2) 11R22.5 Load Range H HSR2 (CONTINENTAL), 498 rev/mile, 75 MPH, All-Position

TIRE, REAR: (4) 11R22.5 Load Range G HDL2 (CONTINENTAL), 493 rev/mile, 75 MPH, Drive

SUSPENSION, REAR, SINGLE: 23,500-lb Capacity, Vari-Rate Springs, with 4500-lb Capacity Auxiliary Rubber Springs

PAINT: Cab schematic 100WL
Location 1: 9219, Winter White (Std)
Chassis schematic N/A

Code	Description
HV60700	Base Chassis, Model HV607 SBA with 179.00 Wheelbase, 111.90 CA, and 63.00 Axle to Frame.

AXLE CONFIGURATION

1ANA	AXLE CONFIGURATION {Navistar} 4x2
	<u>Notes</u> : Pricing may change if axle configuration is changed.

ENGINE

12ESL	ENGINE, DIESEL {Cummins L9 300} EPA 2021, 300HP @ 2200 RPM, 860 lb-ft Torque @ 1200 RPM, 2200 RPM Governed Speed, 300 Peak HP (Max)
12WZY	CARB EMISSION WARR COMPLIANCE for Cummins L9 Engines
12WZE	CARB IDLE COMPLIANCE Federal, Does Not Comply with California Clean Air Idle Regulations
12VHR	EMISSION, CALENDAR YEAR {Cummins L9} EPA, OBD and GHG Certified for Calendar Year 2021
12UAW	RADIATOR Aluminum, 2-Row, Cross Flow, Over Under System, 1045 SqIn Louvered, with 373 SqIn Charge Air Cooler, Includes In-Tank Oil Cooler
	<u>Includes</u> : DEAERATION SYSTEM with Surge Tank : HOSE CLAMPS, RADIATOR HOSES Gates Shrink Band Type; Thermoplastic Coolant Hose Clamps : RADIATOR HOSES Premium, Rubber
12THT	FAN DRIVE {Horton Drivemaster} Two-Speed Type, Direct Drive, with Residual Torque Device for Disengaged Fan Speed
	<u>Includes</u> : FAN Nylon
12VBR	AIR CLEANER with Service Protection Element
12703	ANTI-FREEZE Red, Extended Life Coolant; To -40 Degrees F/ -40 Degrees C, Freeze Protection
12849	BLOCK HEATER, ENGINE 120V/1000W, for Cummins ISB/B6.7/ISL/L9 Engines
	<u>Includes</u> : BLOCK HEATER SOCKET Receptacle Type; Mounted below Drivers Door
12XBM	ENGINE CONTROL, REMOTE MOUNTED Provision for; Includes Wiring for Body Builder Installation of PTO Controls and Starter Lockout, with Ignition Switch Control, for Cummins B6.7 and L9 Engines
12WUN	ENGINE WATER COOLER Auxiliary, Supply and Return Connections for Customer Installed Cooler Package, Located Inside Right Frame Rail Under Cab
12WBR	FAN OVERRIDE Manual; with Electric Switch on Instrument Panel, (Fan On with Switch On)
12VXT	THROTTLE, HAND CONTROL Engine Speed Control; Electronic, Stationary, Variable Speed; Mounted on Steering Wheel

TRANSMISSION

13AVL	TRANSMISSION, AUTOMATIC {Allison 3500 RDS} 5th Generation Controls, Wide Ratio, 6-Speed with Double Overdrive, with PTO Provision, Less Retarder, Includes Oil Level Sensor, with 80,000-lb GVW and GCW Max, On/Off Highway
13WYH	TRANSMISSION TCM LOCATION Located Inside Cab
13WUH	ALLISON SPARE INPUT/OUTPUT for Rugged Duty Series (RDS), Airport Refueler, Sewer Evac, Package Number 150

Code	Description
13WVV	NEUTRAL AT STOP Allison Transmission Shifts to Neutral When Service Brake is Depressed and Vehicle is at Stop; Remains in Neutral Until Service Brake is Released
13XAM	PTO LOCATION Dual, Customer Intends to Install PTO at Left and/or Right Side of Transmission
13WYU	SHIFT CONTROL PARAMETERS {Allison} 3000 or 4000 Series Transmissions, Performance Programming
13WLP	TRANSMISSION OIL Synthetic; 29 thru 42 Pints
13WET	TRANSMISSION SHIFT CONTROL Column Mounted Stalk Shifter, Not for Use with Allison 1000 & 2000 Series Transmission

CLUTCH

11001	CLUTCH Omit Item (Clutch & Control)
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REAR AXLES, SUSPENSIONS

14ARB	AXLE, REAR, SINGLE {Meritor RS-23-160} Single Reduction, 23,000-lb Capacity, Driver Controlled Locking Differential, 200 Wheel Ends . Gear Ratio: 5.38
14VAH	SUSPENSION, REAR, SINGLE 23,500-lb Capacity, Vari-Rate Springs, with 4500-lb Capacity Auxiliary Rubber Springs

FRONT AXLES

2ARV	AXLE, FRONT NON-DRIVING {Meritor MFS-14-143A} Wide Track, I-Beam Type, 14,000-lb Capacity
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FRONT SUSPENSIONS

3ADD	SUSPENSION, FRONT, SPRING Parabolic Taper Leaf, Shackle Type, 14,000-lb Capacity, with Shock Absorbers
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CABS, COWLS, BODIES

16030	CAB Conventional, Day Cab
16ZJA	ACCESS, CAB Aluminum, Self-Cleaning, Open and Serrated Design, Driver & Passenger Sides, Two Steps per Door, for use with Day Cab, Extended Cab or Sleeper Cab
16BAM	AIR CONDITIONER with Integral Heater and Defroster
16WBY	ARM REST, RIGHT, DRIVER SEAT
16VKB	CAB INTERIOR TRIM Classic, for Day Cab <u>Includes</u> : CONSOLE, OVERHEAD Molded Plastic with Dual Storage Pockets, Retainer Nets and CB Radio Pocket; Located Above Driver and Passenger : DOME LIGHT, CAB Door Activated and Push On-Off at Light Lens, Timed Theater Dimming, Integral to Overhead Console, Center Mounted : SUN VISOR (2) Padded Vinyl; 2 Moveable (Front-to-Side) Primary Visors, Driver Side with Toll Ticket Strap
16WSK	CAB REAR SUSPENSION Air Bag Type
16WLS	FRESH AIR FILTER Attached to Air Intake Cover on Cowl Tray in Front of Windshield Under Hood
16GED	GAUGE CLUSTER Base Level; English with English Electronic Speedometer <u>Includes</u> : GAUGE CLUSTER DISPLAY: Base Level (3" Monochromatic Display), Premium Level (5" LCD Color Display); Odometer, Voltmeter, Diagnostic Messages, Gear Indicator, Trip Odometer, Total Engine Hours, Trip Hours, MPG, Distance to Empty/Refill for

<u>Code</u>	<u>Description</u>
	: GAUGE CLUSTER Speedometer, Tachometer, Engine Coolant Temp, Fuel Gauge, DEF Gauge, Oil Pressure Gauge, Primary and Secondary Air Pressure : WARNING SYSTEM Low Fuel, Low DEF, Low Oil Pressure, High Engine Coolant Temp, Low Battery Voltage (Visual and Audible), Low Air Pressure (Primary and Secondary)
16HHE	GAUGE, AIR CLEANER RESTRICTION {Filter-Minder} with Black Bezel, Mounted in Instrument Panel
16HGH	GAUGE, OIL TEMP, AUTO TRANS for Allison Transmission
16SEE	GRAB HANDLE, EXTERIOR Chrome, Towel Bar Type, with Anti-Slip Rubber Inserts, for Cab Entry Mounted Left Side at B-Pillar
16GHU	GRAB HANDLE, CAB INTERIOR (2) Safety Yellow
16564	HEATER SHUT-OFF VALVES (1) Ball Valve Type, Supply Line
16XJN	INSTRUMENT PANEL Flat Panel
16HKT	IP CLUSTER DISPLAY On Board Diagnostics Display of Fault Codes in Gauge Cluster
16SNS	MIRRORS (2) Aero Pedestal, Power Adjust, Heated, Black Heads and Arms, 6.5" x 14" Flat Glass, Includes 6.5" x 6" Convex Mirrors, for 102" Load Width
	<u>Notes</u> : Mirror Dimensions are Rounded to the Nearest 0.5"
16JNT	SEAT, DRIVER {National 2000} Air Suspension, High Back with Integral Headrest, Vinyl, Isolator, 1 Chamber Lumbar, with 2 Position Front Cushion Adjust, -3 to +14 Degree Angle Back Adjust
16RPV	SEAT, PASSENGER {National 2000} Air Suspension, High Back with Integral Headrest, Vinyl, Isolated, 1 Chamber Lumbar, 2 Position Front Cushion Adjustment, -3 to +14 Degree Back Adjust
16WJU	WINDOW, POWER (2) and Power Door Locks, Left and Right Doors, Includes Express Down Feature

FRAMES

1CAG	FRAME RAILS Heat Treated Alloy Steel (120,000 PSI Yield); 10.250" x 3.610" x 0.375" (260.4mm x 91.7mm x 9.5mm); 456.0" (11582mm) Maximum OAL
1LLD	BUMPER, FRONT Contoured, Steel
1570	TOW HOOK, FRONT (2) Frame Mounted
1WGR	WHEELBASE RANGE 138" (350cm) Through and Including 187" (475cm)

BRAKES

4091	BRAKE SYSTEM, AIR Dual System for Straight Truck Applications <u>Includes</u> : BRAKE LINES Color and Size Coded Nylon : DRAIN VALVE Twist-Type : GAUGE, AIR PRESSURE (2) Air 1 and Air 2 Gauges; Located in Instrument Cluster : PARKING BRAKE CONTROL Yellow Knob, Located on Instrument Panel : PARKING BRAKE VALVE For Truck : QUICK RELEASE VALVE On Rear Axle for Spring Brake Release: 1 for 4x2, 2 for 6x4 : SPRING BRAKE MODULATOR VALVE R-7 for 4x2, SR-7 with relay valve for 6x4/8x6
4AZA	AIR BRAKE ABS {Bendix AntiLock Brake System} 4-Channel (4 Sensor/4 Modulator) Full Vehicle Wheel Control System
4XDP	BRAKES, FRONT {Meritor 16.5X5 Q-PLUS CAST} Air S-Cam Type, Cast Spider, Fabricated Shoe, Double Anchor Pin, Size 16.5" X 5", 14,700-lb Capacity
4EXV	BRAKE CHAMBERS, FRONT AXLE {Bendix} 24 Sqn

<u>Code</u>	<u>Description</u>
4LAG	SLACK ADJUSTERS, FRONT {Gunite} Automatic
4XDR	BRAKES, REAR {Meritor 16.5X7 Q-PLUS CAST} Air S-Cam Type, Cast Spider, Fabricated Shoe, Double Anchor Pin, Size 16.5" X 7", 23,000-lb Capacity per Axle
4EXU	BRAKE CHAMBERS, REAR AXLE {Bendix EverSure} 30/30 Sqln Spring Brake
4LGG	SLACK ADJUSTERS, REAR {Gunite} Automatic
4ERC	BRAKE CHAMBERS, POSITION Relocated To Rear Of Rear Axle For Maximum Ground Clearance
4SPA	AIR COMPRESSOR {Cummins} 18.7 CFM
4EBD	AIR DRYER {Wabco System Saver 1200} with Heater
4VKC	AIR DRYER LOCATION Mounted Inside Left Rail, Back of Cab
4WZJ	AIR TANK LOCATION (2) : One Mounted Under Each Rail, Front of Rear Suspension, Parallel to Rail
4732	DRAIN VALVE {Berg} with Pull Chain, for Air Tank

STEERING

5PSA	STEERING GEAR {Sheppard M100} Power
5708	STEERING COLUMN Tilting
5CAW	STEERING WHEEL 4-Spoke; 18" Dia., Black

DRIVELINES

6DGG	DRIVELINE SYSTEM {Dana Spicer} 1710, for 4x2/6x2
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EXHAUST SYSTEMS

7BLW	EXHAUST SYSTEM Horizontal Aftertreatment System, Frame Mounted Right Side Under Cab, for Single Vertical Tail Pipe, Frame Mounted Right Side Back of Cab
7BEU	AFTERTREATMENT COVER Aluminum
7WDM	EXHAUST HEIGHT 10'
7WDN	MUFFLER/TAIL PIPE GUARD (1) Aluminum
7WZX	SWITCH, FOR EXHAUST 3 Position, Momentary, Lighted Momentary, ON/CANCEL, Center Stable, INHIBIT REGEN, Mounted in IP Inhibits Diesel Particulate Filter Regeneration When Switch is Moved to ON While Engine is Running, Resets When Ignition is Turned OFF
7WAZ	TAIL PIPE (1) Turnback Type

ELECTRICAL SYSTEMS

8000	ELECTRICAL SYSTEM 12-Volt, Standard Equipment
	<u>Includes</u>
	: DATA LINK CONNECTOR For Vehicle Programming and Diagnostics In Cab
	: HAZARD SWITCH Push On/Push Off, Located on Instrument Panel to Right of Steering Wheel
	: HEADLIGHT DIMMER SWITCH Integral with Turn Signal Lever
	: PARKING LIGHT Integral with Front Turn Signal and Rear Tail Light
	: STARTER SWITCH Electric, Key Operated
	: STOP, TURN, TAIL & B/U LIGHTS Dual, Rear, Combination with Reflector
	: TURN SIGNAL SWITCH Self-Cancelling for Trucks, Manual Cancelling for Tractors, with Lane Change Feature

<u>Code</u>	<u>Description</u>
	: WINDSHIELD WIPER SWITCH 2-Speed with Wash and Intermittent Feature (5 Pre-Set Delays), Integral with Turn Signal Lever : WINDSHIELD WIPERS Single Motor, Electric, Cowl Mounted : WIRING, CHASSIS Color Coded and Continuously Numbered
8WXD	ALARM, PARKING BRAKE Electric Horn Sounds in Repetitive Manner When Vehicle Park Brake is "NOT" Set, with Ignition "OFF" and any Door Opened
8GHP	ALTERNATOR {Delco Remy 28SI} Brush Type, 12 Volt, 160 Amp Capacity, Pad Mount, with Remote Sense
8RPR	ANTENNA for Increased Roof Clearance Applications
8THB	BACK-UP ALARM Electric, 102 dBA
8XDU	BATTERY BOX Steel, with Aluminum Cover, 14" Wide, 2-3 Battery Capacity, Mounted Left Side Under Cab
8XHD	BATTERY DISCONNECT SWITCH 300 Amp, Disconnects Charging Circuits, Locks with Padlock, Cab Mounted
8MJU	BATTERY SYSTEM {Fleetrite} Maintenance-Free, (3) 12-Volt 2850CCA Total, Top Threaded Stud
8HAB	BODY BUILDER WIRING Back of Day Cab at Left Frame or Under Sleeper, Extended or Crew Cab at Left Frame; Includes Sealed Connectors for Tail/Amber Turn/Marker/ Backup/Accessory Power/Ground and Sealed Connector for Stop/Turn
8XAH	CIRCUIT BREAKERS Manual-Reset (Main Panel) SAE Type III with Trip Indicators, Replaces All Fuses
8518	CIGAR LIGHTER Includes Ash Cup
8WPH	CLEARANCE/MARKER LIGHTS (5) {Truck Lite} Amber LED Lights, Flush Mounted on Cab or Sunshade
8WTP	COURTESY LIGHT (2) Mounted In Front Map Pocket Left and Right Side
8XNZ	HEADLIGHTS Halogen, with Daytime Running Lights
8WRB	HEADLIGHTS ON W/WIPERS Headlights Will Automatically Turn on if Windshield Wipers are turned on
8XHN	HORN, AIR Single Trumpet, Black, with Lanyard Pull Cord
8VAY	HORN, ELECTRIC Disc Style
8WWJ	INDICATOR, LOW COOLANT LEVEL with Audible Alarm
8XHR	POWER SOURCE, ADDITIONAL Auxiliary Power Outlet (APO) with USB Port, Located in the Instrument Panel
8RPT	RADIO AM/FM/WB/Clock/USB Input/Auxiliary Input
8RMZ	SPEAKERS (2) 6.5" Dual Cone Mounted in Both Doors, (2) 5.25" Dual Cone Mounted in Both B-Pillars
8WTL	STARTING MOTOR {Delco Remy 39MT} 12 Volt, Gear Reduced, with Thermal Over-Crank Protection
8TMH	SWITCH, AUXILIARY Accessory Control; for Wiring in Roof, with Maximum of 20 amp Load with Switches In Instrument Panel
8WPZ	TEST EXTERIOR LIGHTS Pre-Trip Inspection will Cycle all Exterior Lamps Except Back-up Lights
8XGT	TURN SIGNALS, FRONT Includes LED Side Turn Lights Mounted on Fender

FRONT END

9WBM	FRONT END Tilting, Fiberglass, with Three Piece Construction, Sloped Front
9WAC	BUG SCREEN Mounted Behind Grille
9HAD	GRILLE Chrome
9HBN	INSULATION, SPLASH PANELS for Sound Abatement

<u>Code</u>	<u>Description</u>
9AAB	LOGOS EXTERIOR Model Badges
9AAE	LOGOS EXTERIOR, ENGINE Badges

SPEEDOMETER, TOOLS, MISC

10ADT	COMMUNICATIONS MODULE Telematics Device with Over the Air Programming; Includes Two Year Data Plan
10BAE	LABEL, DEF "DEF ONLY"
10060	PAINT SCHEMATIC, PT-1 Single Color, Design 100 <u>Includes</u> : PAINT SCHEMATIC ID LETTERS "WL"
10761	PAINT TYPE Base Coat/Clear Coat, 1-2 Tone
10SLV	PROMOTIONAL PACKAGE Government Silver Package
10WCY	SAFETY TRIANGLES

FUEL TANKS

15SXJ	FUEL TANK Top Draw, Non-Polished Aluminum, 24" Dia, 50 US Gal (189L), Mounted Left Side, Under Cab
15WCN	DEF TANK 5 US Gal (19L) Capacity, Frame Mounted Outside Left Rail, Under Cab
15WCS	FUEL COOLER Less Thermostat; Mounted in Front of Cooling Module
15LNS	FUEL/WATER SEPARATOR {Racor 400 Series} 12 VDC Electric Heater, Includes Pre-Heater, with Primer Pump, Includes Water-in-Fuel Sensor, Mounted on Engine

WHEELS, TIRES - FRONT

27DUK	WHEELS, FRONT {Accuride 29169} DISC; 22.5x8.25 Rims, Powder Coat Steel, 5-Hand Hole, 10-Stud, 285.75mm BC, Hub-Piloted, Flanged Nut, with .472" Thick Increased Capacity Disc and Steel Hubs
7382135415	(2) TIRE, FRONT 11R22.5 Load Range H HSR2 (CONTINENTAL), 498 rev/mile, 75 MPH, All-Position

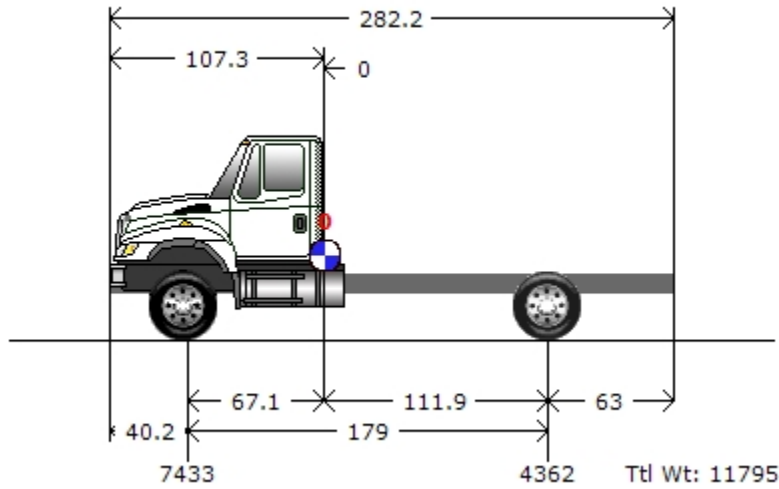
WHEELS, TIRES - REAR

28DUK	WHEELS, REAR {Accuride 29169} DUAL DISC; 22.5x8.25 Rims, Powder Coat Steel, 5-Hand Hole, 10-Stud, 285.75mm BC, Hub-Piloted, Flanged Nut, with .472" Thick Increased Capacity Disc and Steel Hubs
7372135432	(4) TIRE, REAR 11R22.5 Load Range G HDL2 (CONTINENTAL), 493 rev/mile, 75 MPH, Drive

Services Section:

WARRANTY

40128	WARRANTY Standard for HV507, HV50B, HV607 Models, Effective with Vehicles Built July 1, 2017 or Later, CTS-2025A
40RBE	SERVICES, TOWING {Navistar} Service Call to 12-Month/Unlimited Mileage to the Nearest Navistar Dealer for Navistar Warrantable Failure as Contract Defined; Includes Engine Failure if Supplier Declines Tow Coverage & ESC Supplied thru Navistar; \$550 (USA) Maximum Benefit per Incident Set Parameters to Model Required Settings Steel surcharge for model year 2023



Graphics are provided as visual aids only and are not intended to represent the actual scale, shape, or color of the truck or its components. All weights are represented in lbs.

Truck			Body/Trailer			Chassis/Empty Weights	
Bumper to Axle	(BA)	40.2	Body Length	(BL)	N/A	Tractor Front Axle:	7,433
Wheelbase	(WB)	179.00				Tractor Rear Axle:	4,362
Axle to Frame	(AF)	63.00					
Axle to Back Cab	(ABC)	67.1					
Cab to Axle	(CA)	111.9					
Usable CA		111.9					
CA Reduction Adjustment		0.00					
Fuel-Diesel(Gals)		0					
DEF(Gals)		0					

Before the Cab			Cab			Payloads Chassis			Body			After the Body		
#	Weight	CG	#	Weight	CG	#	Weight	CG	#	Weight	CG	#	Weight	CG
						1	0	1						

Loads		Weight Distribution	
Payload Weight:	0	Total Front Axle:	7,433
Driver:	0	Total Rear Axle:	4,362
Fuel-Diesel(Lbs):	0	Total Weight:	11,795
DEF(Lbs):	0		

Weights and clearances in this proposal are estimates only. Navistar, Inc. is not liable for any consequences resulting from any differences between the estimated weights and clearances and the actual manufactured weights and clearances.

Weight Distribution

All weights are represented in lbs.

	Truck		
	Front	Rear	Total
<u>Chassis Weight</u>			
Chassis Weight:	7,433	4,362	11,795
Fuel:	0	0	0
DEF:	0	0	0
(Curb Weight):	7,433	4,362	11,795

Loads

Payloads:	0	0	0
Driver:	0	0	0
Axle Totals (Gross Weight):	7,433	4,362	11,795

Weight Ratings

	Truck	
	Front	Rear
Axle(axle capacity)	14,000	23,000
Tire(tire capacity)	13,220	24,700
Suspension(suspension capacity)	14,000	23,500
Spring:	0	
Fed Bridge Law (axle spread):	20,000	20,000

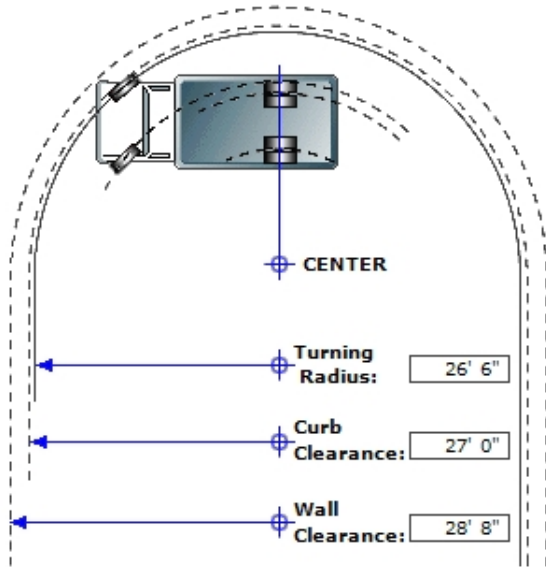
Wheel Combination	Load	Limit
1 - 2	11,795	44,000

Federal Total Vehicle Weight Limit: 80,000

Maximum Gross Vehicle Weight Rating (GVWR) 36,220 - Gross Vehicle Weight(GVW) 11,795 = 24,425 Reserves

Weight Summary

* Distributed weights are within capacity limits



Series: HV
 Model: HV607
 Description: HV607 SBA
 Model Year: 2023

Calculation Factors

Wheelbase: 179
 Front Axle: 0002ARV
 Description: AXLE, FRONT NON-DRIVING, {Meritor MFS-14-143A} Wide Track, I-Beam Type, 14,000-lb Capacity
 Front Wheel: 0027DUK
 Description: WHEELS, FRONT, {Accuride 29169} DISC; 22.5x8.25 Rims, Powder Coat Steel, 5-Hand Hole, 10-Stud, 285.75mm BC, Hub-Piloted, Flanged Nut, with .472" Thick Increased Capacity Disc and Steel Hubs
 Front Tire: 07382135415
 Description: TIRES, 11R22.5 Load Range H HSR2 (CONTINENTAL), 498 rev/mile, 75 MPH, All-Position
 Steering Gear: 0005PSA
 Description: STEERING GEAR, {Sheppard M100} Power

Turning Radius Statistics

General Information

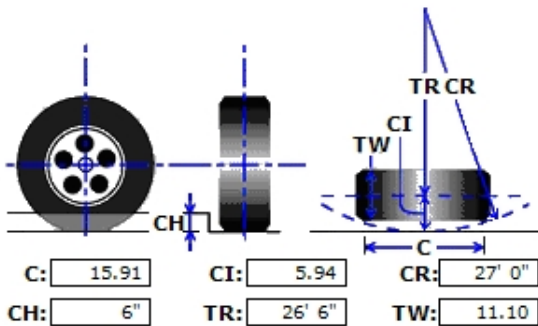
Inside Turn Angle: 45 Degrees
 Radial Overhang: 26

Axle Information

KingPin Inclination: 6.25 Degrees
 KingPin Center: 71.5

Turning Radius - Curb View

C - Curb Contact Length: 15.91
 CI - Curb Clearance Increment: 5.94
 CR - Curb Clearance Radius: 27'0"
 CH - Curb Height: 6"
 TR - Turning Radius: 26'6"
 TW - Tire Width: 11.10



* All Measurements are in inches, unless otherwise specified.

This information is based on engineering information available at this time. Actual figures may vary. Navistar, Inc. cannot accept liability for consequences due to this variance.