

REQUEST FOR PROPOSAL

BID # 2022-18

WEST HAVEN SEWER VACUUM TRUCK

CONTENTS

1. Legal Notice (Request for Proposals)
2. Project Overview
3. Scope
4. Time Line of RFP Process
5. Performance Bond
6. Submission of Proposals
7. Method of Selection
8. Proprietary Information

1. LEGAL NOTICE

**CITY OF WEST HAVEN
REQUEST FOR PROPOSAL**

WEST HAVEN SEWER VAC TRUCK

BID # 2022-18

The City of West Haven (here after referred to as the City) is soliciting a Request for Proposals for the construction and delivery of a Sewer Vacuum Truck.

Responses to this RFP shall be submitted to the City of West Haven's Finance Director's Office, due not later than Thursday, July 7, 2022 at 2:00pm. All proposals must be clearly marked **RFP – WEST HAVEN SEWER VACUUM TRUCK**. No oral, telephonic, emailed, or faxed responses shall be considered. No oral, telephonic, emailed, or faxed corrections, deletions, or additions to any response shall be accepted. The City reserves the right to reject any or all responses, and to waive any or all formalities in connection with this request. Any responses received after the above scheduled due date and time shall not be accepted or considered.

Respondents are required to submit three (3) double sided copies and one electronic copy of a sealed proposal by no later than July 7, 2022 at 2:00pm at West Haven City Hall, Office of the Finance Director, 3rd floor, 355 Main Street, West Haven, CT 06516, clearly marked "RFP – WEST HAVEN SEWER VACUUM TRUCK". Proposals received after this time and date will be rejected.

The City reserves the right to reject any or all proposals if it deems such to be in the best interest of the City of West Haven. Questions regarding the Request for Proposals should be directed to Rick Spreyer, Director of Procurement, by e-mail at rspreyer@westhaven-ct.gov.

Rick Spreyer
Director of Procurement

2. PROJECT OVERVIEW

The City is seeking qualified firms to meet the specifications set forth in the Scope of Work section of this RFP for a Sewer Vacuum Truck.

3. SCOPE

The specifications in this RFP are manufacturer specific (Kenworth) and can be substituted for any manufacturer providing that the original intent of the specification is met or exceeded.

Proposals should breakdown each line item listed in the attached specification sheet with manufacturer specific substitutions that follow the original spec sheet intent.

Spec Sheet is located at the end of this document.

4. RFP TIMELINE

- RFP Published – June 8, 2022
- RFP Due Date – July 7, 2022
- Review of Proposals – July 7-18, 2022
- Proposal Awarded – July 26, 2022

5. PERFORMANCE BOND

- A 100% performance bond will be delivered to the City of West Haven no later than five (5) business days after the award of the contract.
- The performance bond will expire no earlier than the fifteenth day after the completion of the project.
- Provided the City of West Haven deems all work acceptable and complete, the performance bond will be returned to the awardee no later than ten business days from completion of project.

6. SUBMISSION OF PROPOSALS

General Requirements:

Proposals must include a concise description of the Company's ability to meet the requirements of this Proposal. Submittals shall be double-sided, include a Table of Contents, clearly tabbed for each section of the provided technical specifications and Required Components in the bid package, as well as the requirements listed below. Include a letter of interest providing a brief background of the Company. Respondents shall submit Three (3) double-sided copies and one (1) electronic copy (1 compiled PDF file) of their proposals.

Tabbed sections should also include the sections as follows:

Company Information -- The respondent shall provide a brief summary of its company, including the following information:

- Name of company and parent company, if any.
- Any prior name(s) by which the company was known and the corresponding years.
- Name(s) of any subsidiary companies owned or controlled by responding company.
- Legal form of ownership. If a corporation, where incorporated and when.
- Indicate the years engaged in construction services under the present name.
- Names, titles, and contact information for the principal members of the company, including officers. Indicate which individuals are authorized to bind the company in negotiations with The City of West Haven
- Address of principal office from which the Project will be managed.
- Name, address, telephone number and email address of key personnel contact, to receive notifications and to reply to inquiries from the Town. Sub-Contractors
- Names, titles, and contact information for the principal members of the company, including officers. Indicate which individuals are authorized to bind the company in negotiations with The City of West Haven
- Name, address, telephone number and email address of key personnel contact, to receive notifications and to reply to inquiries from the City.

Estimating/Cost Management

- Discuss company's ability to perform project and to accurately estimate costs associated with "Scope of Work" section of this RFP.
- Provide final cost and relevant methods to stay at or below your estimated budget. The City of West Haven is exempt from Federal Excise Taxes and Connecticut Sales and Use Tax.

Schedule and Phase Management

- Provide a preliminary schedule that identifies each phase of the above "Scope of Work" and projected time to complete.
- Identify potential issues that could negatively or positively affect the proposed completion date.

Related Experiences and References

- List correlating projects completed by your company for a minimum of the past two years.
- Include contact information (Name, phone number, email) of a key individual associated with each project. Note if any claims, disputes or litigation has occurred on any of these projects, including the parties involved, and the current status of each.
- Identify any prior projects performed for the City of West Haven.

7. METHOD OF SELECTION

The City will evaluate each proposal based on the following criteria:

- The respondent's ability to develop accurate cost estimates.
- The respondent's proven record of satisfactory completion of previous similarly scoped projects.
- The respondent's ability to submit cost-effective solutions.
- The respondent's provided references.

Telephone, Fax, or electronically transmitted submittals will not be accepted, and no proposals received after the closing date and time will be considered. Failure to comply with these instructions will result in the rejection of your proposal.

The City of West Haven reserves the right to accept and bid or part of bids, to reject any, all or any part of the bids, to waive formalities or informalities in the bidding process and to award the bid deemed to be in the best interest of the Board.

8. PROPRIETARY INFORMATION

This RFP and one copy of each original proposal received, together with copies of all documents pertaining to the award of a contract, shall be retained by the City of West Haven and made part of a file or record which shall be open to public inspection after contract is awarded.

Vehicle Summary

	Unit		Chassis
Model:	T880 Series Conventional	Fr Axle Load (lbs):	20000
Type:	FULL TRUCK	Rr Axle Load (lbs):	46000
Description 1:	Vaccon Unit	G.C.W. (lbs):	66000
Description 2:			
	Application	Road Conditions:	
Intended Serv.:	Construction: Vehicles used in the cons	Class A (Highway)	85
Commodity:	Excavated earth:	Class B (Hwy/Mtn)	10
		Class C (Off-Hwy)	5
		Class D (Off-Road)	0
	Body	Maximum Grade:	6
Type:	Vacuum tank.	Wheelbase (in):	254
Length (ft):	22	Overhang (in):	90
Height (ft):	13	Fr Axle to BOC (in):	74
Max Laden Weight (lbs):	4000		
		Cab to Axle (in):	180
		Cab to EOF (in):	270
	Trailer	Overall Comb. Length (in):	392.5
No. of Trailer Axles:	0		
Type:			
Length (ft):	0	Special Req.	
Height (ft):	0	U.S. Domestic registry, 50-state.	
Kingpin Inset (in):	0		
Corner Radius (in):	0		
	Restrictions		
Length (ft):	75		
Width (in):	102		
Height (ft):	13.5		

Approved by: _____

Date: _____

Note: All sales are F.O.B. designated plant of manufacture.

Std/ Opt	Description	Weight
Model		
S	T880 Series Conventional	15,549
S	T880	0
O	Chassis operation will include stationary application used in lower 48 states [US only]. Stationary operation is defined as running the engine under load while stationary at a substantial fraction of engine gross horsepower (60% or greater) for an extended period of time (longer than 5 - 10 minutes).	0
O	Dealer/Customer declines engine w/CARB Idle Emissions Reduction Feature.	0
S	Non-Sleeper w/rear axle capacity less than 59K.	0
O	State of Registry: Connecticut	0
Engine & Equipment		
O	X15 525 525@1900 1850@1000 2021 with Intebrake, Performance Series N09420 C333 0.....Reserve Speed Limit Offset (N09380 C334 0.....Maximum Cycle Distance (C334 N09360 C400 252...Reserve Speed Function Reset N09200 C399 120...Standard Maximum Speed Limit N09400 C401 10...Maximum Active Distance (C40 N09220 C402 0.....Expiration Distance (C402) N09540 C395 0.....Expiration Distance (C395) N09260 C121 64...Maximum Accelerator Pedal Ve N09440 C234 NO...Engine Protection Shutdown (N09460 C231 NO...Gear Down Protection (C231) N09580 C133 5.....Timer Setting (C133) N09680 C233 YES...Idle Shutdown Manual Overrul N09480 C132 1400..Max PTO Speed (C132) N09300 C128 64...Maximum Cruise Speed (C128) N09500 C239 NO...Cruise Control Auto Resume (N09520 C238 NO...Auto Engine Brake in Cruise N09240 C209 120...Hard Maximum Speed Limit (C2 N09780 C190 80...High Ambient Temperature Thr N09740 C188 40...Low Ambient Temperature Thre N09760 C189 60...Intermediate Ambient Tempera N09720 C382 YES...Enable Hot Ambient Automatic N09600 C396 YES...Enable Impending Shutdown Wa N09620 C397 60...Timer For Impending Shutdown N09640 C206 35...Engine Load Threshold (C206) N09560 C225 NO...Enable Idle Shutdown Park Br	465
O	EPA Emissions Warranty Engine	0
S	PremierSpec	0

S/d/ Opt	Description	Weight
O	Gearing Analysis: Balance power/economy blend results.	0
O	Customer's Typical Operating Spd: 55 MPH.	0
	Effective VSL Setting NA	0
S	Engine Idle Shutdown Timer Enabled	0
O	Enable EIST Ambient Temp Override	0
	Eff EIST NA Expiration Miles	0
O	Air compressor: Cummins 18.7 CFM, Naturally Aspirated for Cummins X15 engines.	0
S	Air Cleaner: composite firewall mounted PACCAR or Cummins engines	0
O	Fan Hub: Horton 2-Speed for X15	0
S	Cooling module: 1330 square inches. Includes aluminum radiator core, aluminum charge air cooler, translucent surge tank and washer bottle, silicone hoses, and extended life coolant.	0
O	Radiator bug screen mounted between hood & grille.	2
S	EXH: 2021 RH Under DPF/SCR with RH SOC Vertical tailpipe. Not 2.1m high roof sleepers	0
S	Tailpipe: 5 in. single 36 in. 45 degree curved.	0
O	Single Lower Chrome Exhaust Elbow	0
O	Fuel Filter:PACCAR Standard Service Interval Fuel/Water Separator. 2017 and Later Emissions	0
S	Run Aid:Fuel Heat *For Fuel Filter	0
O	Start Aid:None *For Fuel Filter	0
O	Kenworth Fuel Cooler Required for Cummins engines with a single fuel tank. Required for PACCAR MX-13 engine with a single fuel tank and stationary use: High RPM, low vehicle speed, sustained for longer than 1 hour. Optional for all other applications.	6
O	Immersion block heater 120V 1500W w/plug under door on C500, T660, T800 & W900.	2
O	Alternator: PACCAR 160 amp, brush type	0
S	Batteries: 3 PACCAR GP31 threaded post (700-730) 2100-2190 CCA dual purpose.	0
O	Mitsubishi 105P55 12V Starter with Cummins and PX	0

Std/ Opt	Description	Weight
	PACCAR 12 volt electrical system. W/ centralized power distribution incorporating plug-in style relays. Circuit protection for serviceability, 12-volt light system w/circuit protection circuits number & color coded. Only for Cummins or PX engines.	
S	12V low voltage disconnect for starter battery protection.	0
S	Remote PTO/Throttle, 12-Pin, Engine Bay Remote Control Provision	0
Transmission & Clutch		
O	Transmission: Allison 4500RDS 6-speed w/o retarder, w/PTO provision. 5th generation. For vocational applications. Includes shift control, transmission oil temperature gauge, oil level sensor & heat exchanger. Transynd transmission fluid is standard on all Allison 1000, 2000, 3000 & 4000 series transmissions.	478
O	Driveline: 3 Dana SPL250XL W/ 2 centerbearings Low maintenance offering from Spicer. On-highway 350K mi first service interval, 100K mi subsequent service interval on U-joint, splines lubed for life, quick disconnect end caps.	187
O	Torque converter included w/Allison Transmission.	0
O	Pushbutton control center console mounted. Class 8 with Allison Transmission.	0
O	Allison Fuel Sense: Delete	0
O	J1939 Park Brake Auto Neutral	0
O	Allison Neutral at Stop Stand-Alone Not applicable with Allison Fuel Sense	0
O	Rear transmission support springs for transmission PTO applications are required to ensure that engine flywheel housings are not overloaded when transmission PTO's are installed.	0
O	Customer installed transmission PTO in the LH Mounted position (8 o'clock) for Allison 3000 & 4000 transmissions.	0
O	Additional KW Oil to Water Transmission Cooler For use with Endurant XD/PACCAR TX-18 Transmissions	10
Front Axle & Equipment		
S	PACCAR FX-20 Front Axle rated at 20K 4" drop standard track	0
O	Front Brakes: 22K Bendix ES S-cam 16.5x6 in.	46
O	Front Brake Drum: 22,000 lbs. 16-1/2x6 in. Cast.	104
O	Front Hubs Iron hub pilot 20,000 lbs. 10 Bolt 16.5x6in. or 7in. or air disc brakes. 10 Bolt, 11-1/4 in. bolt circle. Consider Wheelguards (5850002) with aluminum wheels.	80
S	ConMet PreSet Plus Hub package; front axle.	0

Std/ Opt	Description	Weight
S	Hubcap: front vented.	0
O	Front Auto Slack Adjuster.	0
S	Front Springs: Taperleaf 20K w/ shock absorbers w/ maintenance-free elastomer spring pin bushings. Standard with rubber pins except for C500 which has threaded pins. Not available on W900L. W900B use 2866021.	0
S	Dual power steering gear: 16-22K Sheppard HD94. Heavy duty. Not for use on T3.	0
S	Power Steering Cooler: Radiator Mounted Air-to-Oil	0
O	Threaded Bushings for taperleaf spring 16K, 18/20K, 22K, 40K replacing rubber.	0
Rear Axle & Equipment		
S	Dual Meritor RT46-160 rear axle rated at 46K. Tandem rear axles.	0
O	Rear Axle Ratio - 4.56.	0
S	Dual Rear Brakes 16-1/2x7 in. to 46K; Bendix ES-extended service S-cam.	0
S	Dual Rear Brake Drums: cast.	0
S	Dual Rear Hubs: Aluminum hub pilot 46K 11-1/4 in. bolt circle.	0
S	ConMet PreSet Plus Hub package; dual rear axle.	0
S	Dual Rear axle automatic slack adjusters.	0
S	Spring Brake: 3030 long stroke dual 30 square inches travel. Helps keep brakes in adjustment longer.	0
S	Bendix 6S/6M anti-lock brake system w/ air traction control (ATC) and electronic stability program (ESP) for full truck. Must code for additional body information.	0
O	Interaxle Driveline: 1 Dana SPL170XL Tandem Rear Axles Only	-2
O	Tanker height between 75 in. and 85 in. from top of frame rail.	0
O	Driver Controlled Differential Lock (Crosslock) for Meritor Axles 40K to 52K forward rear & rear rear axle. Under Speed Interlock is standard on T680.	39
O	Rear suspension: Tandem Hendrickson RT463 46K. 54 in. axle spacing. Steel beams & barpin bushing. 7.19 in. saddle height. Unladen Height: 12.5 in. Laden Height: 11.2 in.	689
O	Delete standard heavy-duty air springs for rear suspension.	-28
O	Heavy-duty torque rods for Hendrickson beam. 46K and under suspensions.	15

<i>Std/ Opt</i>	<i>Description</i>	<i>Weight</i>
O	Heavy-duty gussets for forward suspension crossmember on Airlide 400/460, Chalmers, or Hendrickson beam suspensions. This replaces the standard gussets.	12
Tires & Wheels		
S	Front tires: Bridgestone M864 425/65R22.5 20PR All Position, On/Off Highway, Wide-base tire.	0
O	Rear tires: Bridgestone M799 11R22.5 16PR. 42 in. diameter, drive. 19.5 in. SLR. Code is priced per pair of tires.	80
O	Rear Tire Quantity: 8	0
O	Front Wheel: Alcoa 82462 22.5x12.25 aluminum, with LM One [TM] High Polish finish, hub-pilot mount. 11000lb. maximum rating. 5.80 in. offset. Air disc brake compatible.	-3
O	Rear Wheel: Alcoa Ulf39 22.5x8.25 MagnaForce aluminum alloy, hub-pilot mount. 7400lb maximum rating. Air Disc Brake compatible.	-316
O	Single Front Axle: Dura-Black Both Surfaces (QTY 2)	0
O	Dual Rear Axle: Dura-Black Both Surfaces (Qty 8)	0
O	Rear Wheel/Rim Quantity: 8	0
Frame & Equipment		
O	Frame Rails: 10-3/4 x 3-1/2 x 3/8in. Steel 337in. to 416 in. Truck frame weight is 3.48 lb.-in. per pair of rails. Section modulus is 17.80, RBM is 2,132,000 in.-lbs per rail. Frame rail availability may be restricted based upon application, axle/suspension capacity, fifth wheel setting, or component/dimensional specifications. The results of the engineering review may result in a change to the requested frame rail. If a change is required Kenworth Application Engineering will advise the dealer of the appropriate material specification for a substitute rail.	574
O	Full Steel Insert: for 10-5/8 in. or 10-3/4 in. Steel 337 in. to 416 in. or 2nd Insert for 11-5/8 in. steel frame. Adds 1,149,000 in.-lb to main rail RBM. Truck insert weight is 2.05 lb.-in. per pair of rails. Full frame insert length is equal to wheelbase plus rear frame cutoff plus dimension forward of front axle by model; T660, T680, T800, T880 = 21.26 in.; C500B = bumper setting minus 0.79 in.; W900B = 5.27 in., W900L = 1.50 in., W900S = 3.27 in.; T440/T470 50 in. bumper setting = 21.26 in., T470 73 in. bumper setting = 72.3 in.	749
O	Bumper: Straight steel, painted channel. Requires a bumper setting code.	50
S	48.5 in. Bumper setting. Requires a bumper code.	0
O	Removable Front Tow Hooks: 2.	15
O	Steel cantilever battery box BOC w/ smooth aluminum cover. Vocational Style.	39
O	Battery box location: RH Side.	15

Std/ Opt	Description	Weight
S	T470,C5, T6, T8 non-polished DPF/SCR or CNG cover diamond plate w/ step. For use w/ 2010 or later exhaust systems. For T8, use extended length non-polished battery box on opposite rail to match the length of under cab components. End plates will be painted standard black frame color.	0
O	Heavy-duty BOC crossmember assembly.	23
O	Bodybuilder to install approved crossmember w/in 18 in. BOC prior to unit going into service. Specifications available from applications tech support.	0
S	Rear mudflap arms: Betts B-25 standard-duty, straight. Includes B1732 mounting brackets as standard.	0
S	Rear mudflap shields: White plastic antisail w/ Kenworth logo.	0
S	Square end-of-frame w/o crossmember; non-towing.	0
Fuel Tanks & Equip		
O	Fuel Tank: 75 US gallon 24.5in. aluminum under replace. Class 8 fuel tanks w/o locking caps include an anti-siphon device on the filler neck.	-11
S	Small round DEF tank, 14 gallons. The DEF tank will be located on the side you specified. If you have specific configuration or body builder concerns, please utilize the Custom Frame Layout option. Standard capacity is calculated by fuel capacity of the vehicle and will accommodate two diesel fill-ups for every DEF fill-up. For 1:1 DEF fuel fill ratio, add 7889204.	0
O	Heavy-duty 7in. steel supports/straps for one 24.5 in tank. Two supports per tank.	18
O	Polish only 7in. stainless steel straps for one 24.5in. tank; 2 straps per tank.	0
S	DEF to fuel fill ratio 2:1 or greater.	0
S	Anti-siphon device in fuel tank filler neck. For any number of fuel tanks.	0
S	DEF tank location is LH.	0
O	Location: 75 gal fuel tank LH under cab	0
Cab & Equipment		
S	Cab: Stamped aluminum cab with panoramic curved glass windshield. Standard with stamped aluminum doors, heavy duty in-swinging hinges, and triple sealed doors. Manufactured using self-piercing rivets and structural adhesive. Includes LED exterior marker lights and turn signals.	0
O	Hood: T880 Standard Length With Mechanically Fastened Fenders. 122.6 inch BBC.	15
O	Fine particulate filter for cabin air HVAC	0

Std Opt	Description	Weight
	system. To provide extra filtration in high dust applications. Cabin airflow is reduced with this additional filter. *Cannot be used with code 8108003.	0
S	Cab HVAC - Day Cab and 40in Sleeper System With Defrost, A/C, and 48,000 BTU/hr Heater. Includes automatic temperature control with one touch defrost operation and dash mounted cab temperature and solar intensity sensors. Pleated fresh air filter and cabin recirculation air filter standard. The Kenworth HVAC system is designed to provide optimal heating and cooling in all operating environments without need for additional insulation. Cab HVAC without sleeper heater AC is available with 40in sleeper.	0
O	Shutoff Valves to Isolate Primary Heater Remote mounted on frame under cab.	0
S	Kenworth Smartwheel: 18 in. Non-Leather With Integrated Radio and Cruise Controls.	0
O	Column Mtd Retarder Control, RH Side Use with Manual & Allison Transmissions Only.	0
S	Adjustable telescoping tilt steering column.	0
O	5 sets of keys. Replaces standard 2 sets of keys.	0
O	Delete fan clutch manual override switch in cab.	0
O	Dash Switch: 1st Allison-mntd PTO. Electric switch and wiring are factory-installed to control the 1st Allison Trans mounted PTO.	0
O	Info for C/I PTO: Chelsea 10 Bolt	0
O	Five spare switches: Wired to power.	0
S	Gauge: DD Virtual Gauge - Oil Temp Engine	0
S	Gauge: DD Virtual Gauge - Air Filter Restriction	0
S	Gauge: DD Virtual Gauge - Manifold Pressure Boost	0
S	Gauge: DD Virtual Gauge - Engine Percent Torque	0
S	Main Instrument Package: 15" Digital Display. Includes Speedometer, Tachometer, Primary Air Pressure, Secondary Air Pressure, Fuel Level #1, DEF Level, DPF Filter Status, Fuel Economy, Oil Pressure, Coolant Temp, OAT and Voltmeter, and Air Application.	0
O	Interior Color: Tan	0
O	Interior Package: Diamond VIT Daycab Includes diamond design trim with premium wood grain accent trim, a durable headline, and anodized aluminum accents throughout.	0

Std/ Opt	Description	Weight
	Standard with the Kenworth NavPlus HD system on 2010 and later engines. Convenient overhead storage cubbies, full size glove box, two center console cupholders, and large door pad map pocket. Standard LH and RH power windows, electric door locks, interior LED lighting, nighttime friendly red ambient lighting for dash and footwell, and door mounted courtesy light. Includes two standard 12V power outlets. Driver sunvisor includes vanity mirror and strap, passenger sunvisor includes strap.	
S	Rubber floormat	0
O	Driver Seat: GT703 HB with Ultraleather material, integral heat and air-cooling. The GT703 is standard with a single air bag, scissor linkage seat suspension that incorporates seat height memory, auto-leveling valves with exit air dump, and adjustable damper. It includes adjustable bolsters, an articulating headrest, a dual chamber lumbar support, 10in Fore/Aft adjustment, 5in Up/Down adjustment with protection zones, 2.5in pan extension, 51 degree seat back recline, and 16 degree full seat tilt. Includes 3-point matching seat belts. Seat storage package is standard with the GT703. Includes 3-point matching seat belts. DR seat standard w/ dual armrests.	10
O	Rider Seat: GT703 HB with Ultraleather material, integral heat and air-cooling. The GT703 is standard with a single air bag, scissor linkage seat suspension that incorporates seat height memory, auto-leveling valves with exit air dump, and adjustable damper. It includes adjustable bolsters, an articulating headrest, a dual chamber lumbar support, 10in Fore/Aft adjustment, 5in Up/Down adjustment with protection zones, 2.5in pan extension, 51 degree seat back recline, and 16 degree full seat tilt. Includes 3-point matching seat belts. Seat storage package is standard with the GT703. Includes 3-point matching seat belts. Rider seat standard w/ LH armrest.	44
O	Seat Color: Black w/ Diamond Package Accent	0
O	Air line fitting: At driver seat. Customer-installed air chuck.	4
S	Base Level Audio System - Daycab:High Performance Door Speakers.	0
O	CB Installation kit: Center mounted of header. W/header mounted quick release CB mount. One red power post & one black ground post. Includes dual antenna leads located on the mirror brackets. Includes dual antenna & separate speaker.	2
O	Turn Signal: Self-Cancelling	0
S	LH and RH Trip Ledge Rain Deflectors	0
S	Kenworth TruckTech+ The Kenworth Remote Diagnostics system provides the Worlds Best reporting of engine and aftertreatment fault codes, as well as enhanced support for the truck owner through rapid communication of fault severity and recommended actions. This option is Standard on all Heavy Duty Kenworths with a PACCAR MX engine, Cummins X15	0

Std/ Opt	Description	Weight
	engine, PX engine or Natural Gas engine. Optional on Medium Duty Kenworths.	
O	Grabhandle: LH SOC Non-Slip Ergonomic Grab Handle Mounted To The Left Hand Exterior Of The Cab For Entry and Exit. NFPA Compliant.	3
S	Dual Cab Interior Grabhandles: A Pillar Mounted Dash Wrap and B Pillar Mounted Grabhandles	0
S	Kenworth Daylite Door with standard LH/RH electric door locks and LH/RH electric window controls.	0
S	Single air horn under cab.	0
S	Look-Down, Pass. Door, Black 11x6	0
S	Aero Mirror: Dual Kenworth Aerodynamic Motorized heated mirrors, 7in X 13in with cab color mirror shell and black mirror arms. Also includes LH/RH heated 6in X 7in convex mirrors. Mirror brackets set for 8-1/2 ft load width. Mirror controls located on driver side door pad.	0
S	Rear cab stationary window 19in x 36in	0
S	One-piece bonded-in windshield with curved glass. Standard.	0
S	Exterior stainless steel sunvisor.	19
S	Wheelwell Fender Extension: 2.5 Inches	0
S	Kenworth Cab/Sleeper Air Suspension.	0
Lights & Instruments		
S	Headlamps: SAE Dual Halogen Complex Reflector	0
S	Marker Lights: Five, rectangular, LED	0
S	Turn Signal Lights: Flush mounted LED. Mounted at top of fender wheel arc.	0
S	LED Stop, Turn, Tail: With Two LED Backup Lights and With An LED License Plate.	0
O	Daytime Running Lamps.	0
S	Marker Lights: Interrupter Switch. Included in Turn Signal For All Models Except T3. The T3 Switch Is In The Dash.	0
S	Omit Brake Light with Engine Brake. Can only be selected when chassis also has engine brake. Cannot be used with options to delete engine brake.	0
O	Reflectors: Two Midframe	0
O	Electric Backup Alarm: 87-112 dBA self-adjusting	4

Std/ Opt	Description	Weight
	such that volume is maintained at 5dB above ambient up to rated maximum.	
O	Junction Box; End of Frame	1
O	Polyswitches replacing fuses. Switch will automatically reset after removal of excess load.	0
Air Equipment		
S	Air Dryer: Bendix AD-HF Puraguard Heated	0
S	Moisture ejection valve w/ pull cable drain.	0
S	Nylon air tubing in frame & cab, excluding hoses subject to excessive heat or flexing.	0
Extended Warranty		
S	Base Warranty - Standard Service Heavy Duty 12 months / 100,000 miles / 160,000 km.	0
O	EW: US Basic Vehicle 7 year/200,000 miles, United States only.	0
O	Cummins EW: Protect Plan 1 X15 EPA21 5 Year/200,000 mi (321,869 km), Performance/Productivity Series. Each code registered between 366 and 546 days after the vehicles in-service date will be subject to a \$400 late fee. Coverage cannot be added after 200,000 miles or 545 days past the in-service date.	0
O	Cummins EW: Aftertreatment X15 Use W/ PP1 EPA21 5 Year/200,000 mi (321,869 km), Performance/Productivity Series. Each code registered between 366 and 546 days after the vehicles in-service date will be subject to a \$400 late fee. Coverage cannot be added after 200,000 miles or 545 days past the in-service date.	0
O	24 Month TruckTech+ Subscription for Cummins Engines	0
O	Base Warranty: Emissions 5YR/100K MI - EPA Engine (Does not include CARB Clean Idle sticker)	0
Miscellaneous		
O	GHG Secondary Manufacturer: Does Not Apply	0
O	Warning triangle reflector kit: Shipped loose. Kit consists of 3 triangles in plastic carrying case. Not floor mounted.	4
O	One 5 lb. dry chemical type fire extinguisher mounted inboard of driver seat. Class ABC.	11
O	Zinc Phosphate frame rail paint processing. Requires frame rail code. Code is for 1 pair of rails.	0
O	Zinc Phosphate frame insert paint processing. Requires any 1st frame insert code. Code is for 1 pair of any frame inserts.	0
S	VMUX Architecture	0

Std/ Opt	Description	Weight
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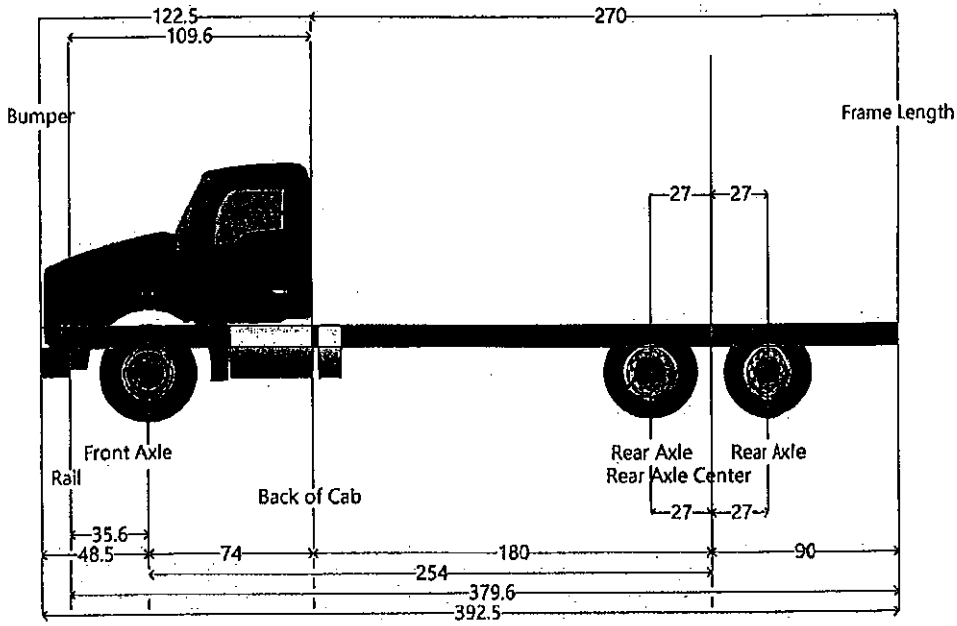
Promotions

Paint

O	Paint color number(s).	0
	N9702 A - L0001 BLACK N9770 BUMPER L0001 BLACK N9720 FRAME N0001 BLACK	
O	Bumper Painted Color A	0
O	Day Cab Standard Paint	0
S	1 - Color Paint - Day Cab Color will be White if no other color is specified.	0
S	Base coat/clear coat. The Kenworth Color Selector contains additional instructions, as well as information on Kenworth paint guidelines and surface finish applications. Kenworth is standard with Dupont Imron Elite paint.	0

Order Comments

HORIZONTAL DIMENSIONS



Dimension	Measurement	Start	End
Axle Spacing	54	227	281
Bumper to Back of Cab	122.5	-48.5	74
Bumper to Front Axle	48.5	-48.5	0
Bumper to Front Frame	12.9	-48.5	-35.6
Cab to End of Frame	270.0	74	344
Cab to Rear Axle	180.0	74	254
Effective Bumper to Back Of Cab	122.5	-48.5	74
Frame Length	379.6	-35.6	344
Front Axle to Back of Cab	74.0	0	74
Front of Frame to Axle	35.6	-35.6	0
Load Space	270.0	74	344
Overall Length	392.5	-48.5	344
Overhang	90.0	254	344
Pusher Offset #1	27.0	227	254
Pusher Offset #2	27.0	227	254
Pusher Offset #3	27.0	227	254
Tag Offset	27.0	254	281
Wheelbase	254	0	254

VEHICLE WEIGHT RATING

FRONT AXLE COMPONENTS

Component	Sales Code	Description	Ratings
Axle	2536002	PACCAR FX-20 Front Axle rated at 20K 4' drop	20,000
Springs	2866020	Front Springs: Taperleaf 20K w/ shock absorbers	20,000
Power Steering	2895302	Dual power steering gear: 16-22K Sheppard HD94.	22,000
Hubs, Drums	2702020	Front Hubs Iron hub pilot 20,000 lbs. 10 bolt	20,000
Brakes	2621078	Front Brakes: 22K Bendix ES S-cam 16.5x6in.	22,000
Tires	4077533	Front tires: Bridgestone M864 425/65R225 20PR	22,800
Wheels	5045218	Front Wheel: Alcoa 82462 22.5x12.25 aluminum	24,600

Requested Front (Lbs): 20,000
 Minimum: 8,000
 Maximum: 20,000

The front axle weight rating cannot exceed 20000

REAR AXLE COMPONENTS

Component	Sales Code	Description	Ratings
Axle	3142160	Dual Meritor RT46-160 rear axle rated at 46K.	46,000
Hubs, Drums	3407050	Dual Rear Hubs: Aluminum hub pilot 46K	46,000
Service Brakes	3334004	Dual Rear Brakes 16-1/2x7 in. to 46K	46,000
Spring Brakes	3485207	Spring Brake: 3030 long stroke dual 30 square	52,000
Suspension	3747461	Rear suspension: Tandem Hendrickson RT463 46K	46,000
Tires	4277487	Rear tires: Bridgestone M799 11R22.5 16PR	48,040
Wheels	5243549	Rear Wheel: Alcoa Ult39 22.5x8.25 MagnaForce	59,200

Requested Rear (Lbs): 46,000
 Minimum: 16,000
 Maximum: 46,000

The rear axle weight rating cannot exceed 46000

GROSS COMBINATION WEIGHT RATING

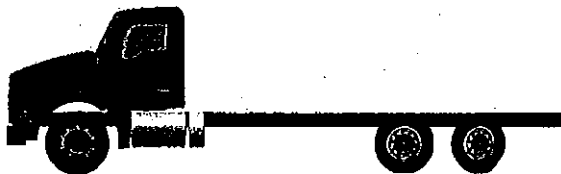
GCWR (lbs)	66,000
Min	10,000
Max	99,000

The Gross Combination Weight Rating cannot exceed 999000

WEIGHT DISTRIBUTION

Model: T880

Actual performance of a specific unit can be affected by your operating conditions. The performance calculations should only be used as a guideline.



Recommended payload center of gravity to achieve specified ground loads; measured from centerline of drive axles: 44 in. from the centerline of the drive axle(s).

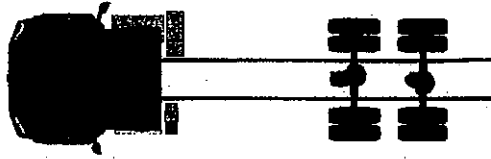
Weight (lbs)	Front	Rear	Total
Chassis	11222	7690	18912
Tools/Driver	283	92	375
Fuel & DEF	509	160	669
Max Payload	7985	38059	46044
Auxiliary Payload	0	0	0
Total	20000	48000	66000
Specify Ground Load	20000	46000	

Auxiliary Payload

Item	Location from FA CL	Weight	Point Description
Load Point #1	0	0	
Load Point #2	0	0	
Load Point #3	0	0	
Component(s)		0	Composite Totals

Fifth wheel slide length is 8 inches
 Selected rearmost setting is 0 inches
 Wheelbase measurement: 284 inches
 Overhang measurement: 80 inches

FRAME LAYOUT



Note: Optional content may be displayed. The order has not yet received an engineering review. The actual arrangement of components may not be exactly as pictured. Additional changes may be made to the layout by Kenworth. Add a Custom Frame Layout code if an exact layout is required.

Selected Options (Wheelbase: 254)

Sales Code	Description	Length	Side
7210075	Fuel Tank: 75 US gallon 24.5in. aluminum under	38.5	Left
7722153	Small round DEF tank, 14 gallons.	10.2	Left
6401233	Steel cantilever battery box BOC w/ smooth	14.5	Right