



DAN JOHNSON
DIRECTOR

DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
DEVELOPMENT SERVICES BUILDING
150 BEAVERCREEK ROAD OREGON CITY, OR 97045

October 13, 2022

Board of County Commissioners
Clackamas County

Authorization to Purchase Quantity one (1) 2023 Freightliner 114SD Truck with a Columbia Dump Body installed from Premier Truck Group through State of Oregon Cooperative Contract # PA1640. Total Contract Value \$257,302.00. Funding through County Road Fund. General funds are not involved.

Purpose/Outcome	Purchase one (1) 2023 Freightliner 114SD Truck with a Columbia dump body installed from Premier Truck Group through the State of Oregon Cooperative Contract # PA1640.
Dollar Amount and Fiscal Impact	Purchase Order Value \$257,302.00, budgeted in DTD Transportation Maintenance.
Funding Source	County Road Fund
Duration	At time of purchase execution
Previous Board Action/Review	10/11/22: Discussion item at issues
Strategic Plan Alignment	-Building trust through good government -Building a strong infrastructure
Counsel Review	10/05/22, KR
Procurement Review	Was this project processed through Procurement? Yes.
Contact Person	Warren Gadberry- Fleet Manager 503-650-3988
Contract No.	State of Oregon Cooperative Contract # PA1640

BACKGROUND: The Department of Transportation and Development, Transportation Maintenance Program has requested that Clackamas County Fleet Services purchase one (1) 2023 Freightliner 114SD Truck with a Columbia dump body installed from Premier Truck Group through the State of Oregon Contract # PA1640.

PROCUREMENT PROCESS: Approval of the purchase is being requested under the Local Contract Review Board Rule C-046-0400, Authority of Cooperative Procurements. The purchase will be made using cooperative contract #PA1640 from the State of Oregon Cooperative Purchasing Agreement Program from Premier Truck Group.

A notice of Intent to Purchase the 2023 Freightliner 114SD Truck with a Columbia dump body installed was issued on September 1st, 2022. No comments were received at the time of closing on September 8th, 2022.

RECOMMENDATION: Staff respectfully recommends the Board approve this purchase and authorizes Procurement staff to issue the PO on behalf of the County.

Respectfully submitted,

Warren Gadberry

Warren Gadberry
Fleet Manager
Department of Transportation and Development

Placed on the BCC Agenda _____ by Procurement

**BEFORE THE BOARD OF COUNTY COMMISSIONERS
OF CLACKAMAS COUNTY, STATE OF OREGON**

In the Matter of Approving Issuance of Purchase one (1) 2023 Freightliner 114SD Truck with a Columbia dump body installed from Premier Truck Group through the State of Oregon Cooperative Contract # PA1640.



Board Order No. _____
Page 1 of 1

Whereas, the Clackamas County Board of County Commissioners (the "Board") has authority to sign all contracts and any amendments or renewals of the same;

Whereas, Oregon Revised Statutes ("ORS") chapter 279A.200-220 and Local Contract Review Board Rule C-046-0400 permit Clackamas County to purchase goods or services using a cooperative procurement;

Whereas, Premier Truck Group established a cooperative contract with the State of Oregon Cooperative Contract # PA1640 for the purchase of one (1) 2023 Freightliner 114SD Truck with a Columbia dump body installed as listed on the quotation;

Whereas, the Clackamas County Department of Transportation & Development desires to purchase one (1) 2023 Freightliner 114SD Truck with a Columbia dump body installed from Premier Truck Group through the State of Oregon Cooperative Contract # PA1640, for a total contract price of \$257,302.00;

Whereas, the Clackamas County Department of Finance requests authority to utilize the State of Oregon Cooperative Contract # PA1640 to purchase the aforementioned vehicle by issuance of a purchase order ("PO");

Whereas, a PO is issued directly through the Department of Finance's management software with no signature required or available;

NOW THEREFORE, the Clackamas County Board of County Commissioners order as follows:

1. The requested use of State of Oregon Cooperative Contract # PA1640 to purchase the aforementioned vehicle in the amount of \$257,302.00; is hereby approved;
2. The Clackamas County Department of Finance is hereby delegated limited authority to issue a PO to purchase the aforementioned vehicle using the State of Oregon Cooperative Contract # PA1640.

DATED this ____ day of _____, 2022

BOARD OF COUNTY COMMISSIONERS

Chair

Recording Secretary

Prepared for: Russ Weber
Clackamas County Thru
DEPARTMENT OF
ADMINISTRATIVE SERVICES
PA1640
1225 Ferry Street SE U140
Salem , OR 97301

Prepared by:
Kevin Dripps
PREMIER TRUCK GROUP
9622 N.E. VANCOUVER WAY
PORTLAND, OR 97211
Phone: 503-283-0345

An Updated proposal for Clackamas County Thru
DEPARTMENT OF ADMINISTRATIVE SERVICES PA1640

Prepared by
PREMIER TRUCK GROUP OF PORTLAND
Dylan Dripps

June 16, 2022

2023 Freightliner 114SD Chassis
Base 114SD DD13 contract Price \$89,083.00
Options to Base \$56,100.00 Less 12% = \$49,368.00
McCoy Additional Options Discount (-\$5,930.00)
Add Engine and Tow Warranty \$7,800.00
Add Daimler Surcharges \$7,000.00
Add Columbia Body upfit w/ options \$109,000.00
Add Estimated Oregon Cat Tax \$981.00
Your Chassis Cost \$257,302.00



Components shown may not reflect all spec'd options and are not to scale



Prepared for: Russ Weber
 Clackamas County Thru
 DEPARTMENT OF
 ADMINISTRATIVE SERVICES
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 1225 Ferry Street SE U140
 Salem , OR 97301

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Q U O T A T I O N

114SD CONVENTIONAL CHASSIS

SET BACK AXLE - TRUCK DETROIT DD13 12.8L 505 HP @ 1625 RPM, 1900 GOV RPM, 1850 LB-FT @ 975 RPM ALLISON 4500 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION RT-46-160P 46,000# R-SERIES TANDEM REAR AXLE TUFTRAC GEN2 46,000# REAR SPRING SUSPENSION MFS-20-133A 20,000# FL1 71.0 INCH KPI/3.74 INCH DROP SINGLE FRONT AXLE 20,000# TAPERLEAF FRONT SUSPENSION	114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB 5475MM (216 INCH) WHEELBASE 7/16X3-9/16X11-1/8 INCH STEEL FRAME (11.11MMX282.6MM/0.437X11.13 INCH) 120KSI 1600MM (63 INCH) REAR FRAME OVERHANG 1/4 INCH (6.35MM) C-CHANNEL INNER FRAME REINFORCEMENT HENDRICKSON EX13 COMP 13,500# FF1 STEERABLE 15X4 BRAKE INTEGRAL PUSHER AXLE
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		PER UNIT		TOTAL
VEHICLE PRICE	TOTAL # OF UNITS (1)	\$	132,521	\$ 132,521
EXTENDED WARRANTY		\$	7,800	\$ 7,800
COLUMBIA BODY UPFIT		\$	109,000	\$ 109,000
CUSTOMER PRICE BEFORE TAX		\$	249,321	\$ 249,321

TAXES AND FEES

ESTIMATED OREGON CAT TAX	\$	981	\$	981
DAIMLER SURCHARGES	\$	7,000	\$	7,000

TRADE-IN

TRADE-IN ALLOWANCE	\$	(0)	\$	(0)
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BALANCE DUE		(LOCAL CURRENCY)	\$	257,302	\$ 257,302
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COMMENTS:

Projected delivery on ___ / ___ / ___ provided the order is received before ___ / ___ / ___.

APPROVAL:

Please indicate your acceptance of this quotation by signing below:

Customer: X _____ Date: ___ / ___ / ___.



Financing that works for you.

See your local dealer for a competitive quote from Daimler Truck Financial, or contact us at Information@dtfoffers.com.

Daimler Truck Financial offers a variety of finance, lease and insurance solutions to fit your business needs. For more information about our products and services, visit our website at www.daimler-truckfinancial.com.



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
Price Level			
PRL-26D	SD PRL-26D (EFF:7/26/21)		
Data Version			
DRL-020	SPECPRO21 DATA RELEASE VER 020		
Vehicle Configuration			
001-177	114SD CONVENTIONAL CHASSIS	7,934	6,476
004-223	2023 MODEL YEAR SPECIFIED		
002-004	SET BACK AXLE - TRUCK	480	-480
019-001	TRAILER TOWING PROVISION AT END OF FRAME FOR TRUCK	10	10
003-001	LH PRIMARY STEERING LOCATION		
General Service			
AA1-003	TRUCK/TRAILER CONFIGURATION		
AA6-002	DOMICILED, USA (EXCLUDING CALIFORNIA AND CARB OPT-IN STATES)		
A85-011	CONSTRUCTION SERVICE		
A84-1GM	GOVERNMENT BUSINESS SEGMENT		
AA4-010	DIRT/SAND/ROCK COMMODITY		
AA5-006	TERRAIN/DUTY: 10% (SOME) OF THE TIME, IN TRANSIT, IS SPENT ON NON-PAVED ROADS		
AB1-008	MAXIMUM 8% EXPECTED GRADE		
AB5-003	MAINTAINED GRAVEL OR CRUSHED ROCK - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE		
995-1AE	FREIGHTLINER LEVEL II WARRANTY		
A66-99D	EXPECTED FRONT AXLE(S) LOAD : 20000.0 lbs		
A68-99D	EXPECTED REAR DRIVE AXLE(S) LOAD : 46000.0 lbs		
A67-99D	EXPECTED PUSHER AXLE(S) LOAD : 13200.0 lbs		
A63-99D	EXPECTED GROSS VEHICLE WEIGHT CAPACITY : 79200.0 lbs		
A70-99D	EXPECTED GROSS COMBINATION WEIGHT : 80000.0 lbs		
Truck Service			
AA3-004	END DUMP BODY		



Data Code	Description	Weight Front	Weight Rear
Tractor Service			
AH6-001	SINGLE (1) TRAILER		
Engine			
101-2XY	DETROIT DD13 12.8L 505 HP @ 1625 RPM, 1900 GOV RPM, 1850 LB-FT @ 975 RPM		
Electronic Parameters			
79A-070	70 MPH ROAD SPEED LIMIT		
79B-000	CRUISE CONTROL SPEED LIMIT SAME AS ROAD SPEED LIMIT		
79K-014	PTO MODE ENGINE RPM LIMIT - 1800 RPM		
80D-001	SOFT CRUISE CONTROL ENABLED		
80G-001	PTO MINIMUM RPM - 600		
Engine Equipment			
99C-017	2016-2019 ONBOARD DIAGNOSTICS/2010 EPA/CARB/FINAL GHG17 CONFIGURATION		
99D-010	NO 2008 CARB EMISSION CERTIFICATION		
13E-001	STANDARD OIL PAN		
105-001	ENGINE MOUNTED OIL CHECK AND FILL		
014-108	SIDE OF HOOD AIR INTAKE WITH FIREWALL MOUNTED DONALDSON AIR CLEANER WITH SAFETY ELEMENT AND INSIDE/OUTSIDE AIR WITH SNOW DOOR	10	
124-1DJ	DR 12V 160 AMP 36-SI BRUSHLESS QUADRAMOUNT PAD ALTERNATOR WITH REMOTE BATTERY VOLT SENSE	10	
292-236	(3) DTNA GENUINE, FLOODED STARTING, MIN 3000CCA, 555RC, THREADED STUD BATTERIES		
290-017	BATTERY BOX FRAME MOUNTED		
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		
293-058	POSITIVE LOAD DISCONNECT WITH CAB MOUNTED CONTROL SWITCH MOUNTED OUTBOARD DRIVER SEAT	10	
295-029	POSITIVE AND NEGATIVE POSTS FOR JUMPSTART LOCATED ON FRAME NEXT TO STARTER	2	



Data Code	Description	Weight Front	Weight Rear
107-044	BW MODEL BA-921 19.0 CFM SINGLE CYLINDER AIR COMPRESSOR WITH SAFETY VALVE		
152-040	ELECTRONIC ENGINE INTEGRAL WARNING AND DERATE PROTECTION SYSTEM		
128-002	JACOBS COMPRESSION BRAKE		
016-1C2	RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE	30	25
28F-007	ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD ACTIVE REGENERATION AND DASH MOUNTED SINGLE REGENERATION REQUEST/INHIBIT SWITCH		
239-026	10 FOOT 06 INCH (126 INCH+0/-5.9 INCH) EXHAUST SYSTEM HEIGHT		
233-017	STANDARD CURVE BRIGHT UPPER STACK(S)		
237-1CR	RH CURVED VERTICAL TAILPIPE B-PILLAR MOUNTED ROUTED FROM STEP		
23U-002	13 GALLON DIESEL EXHAUST FLUID TANK		
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		
242-001	STAINLESS STEEL AFTERTREATMENT DEVICE/MUFFLER/TAILPIPE SHIELD		
273-036	BORG WARNER (KYSOR) REAR AIR ON/OFF ENGINE FAN CLUTCH		
276-002	AUTOMATIC FAN CONTROL WITH DASH SWITCH AND INDICATOR LIGHT, NON ENGINE MOUNTED		
110-068	DDC SUPPLIED ENGINE MOUNTED FUEL FILTER/FUEL WATER SEPARATOR WITH WATER-IN-FUEL INDICATOR		
118-001	FULL FLOW OIL FILTER		
266-057	1500 SQUARE INCH ALUMINUM RADIATOR		
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		



Data Code	Description	Weight Front	Weight Rear
270-023	HDEP FIXED RATIO COOLANT PUMP AND RADIATOR DRAIN VALVE		
138-005	PHILLIPS-TEMRO 1500 WATT/115 VOLT BLOCK HEATER	4	
140-022	CHROME ENGINE HEATER RECEPTACLE MOUNTED UNDER LH DOOR		
155-076	DELCO 12V MOD 3.175-39MT+ STARTER WITH ENGINE ECU SOFTWARE PROTECTION AND INTEGRATED MAGNETIC SWITCH		

Transmission

342-1M3	ALLISON 4500 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION	260	100
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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-013	S1 PERFORMANCE PRIMARY SHIFT SCHEDULE, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY		
84F-012	S1 PERFORMANCE SECONDARY SHIFT SCHEDULE, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY		
84G-009	1800 RPM PRIMARY MODE SHIFT SPEED		
84H-009	1800 RPM SECONDARY MODE SHIFT SPEED		
84N-200	FUEL SENSE 2.0 DISABLED - PERFORMANCE - TABLE BASED		
84U-000	DRIVER SWITCH INPUT - DEFAULT - NO SWITCHES		
353-026	VEHICLE INTERFACE WIRING CONNECTOR WITH PDM AND NO BLUNT CUTS, AT BACK OF CAB		
34C-001	ELECTRONIC TRANSMISSION CUSTOMER ACCESS CONNECTOR FIREWALL MOUNTED		



Data Code	Description	Weight Front	Weight Rear
362-823	CUSTOMER INSTALLED CHELSEA 280 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		
370-011	WATER TO OIL TRANSMISSION COOLER, FRAME MOUNTED		
346-003	TRANSMISSION OIL CHECK AND FILL WITH ELECTRONIC OIL LEVEL CHECK		
35T-001	SYNTHETIC TRANSMISSION FLUID (TES-295 COMPLIANT)		

Front Axle and Equipment

400-1AC	MFS-20-133A 20,000# FL1 71.0 INCH KPI/3.74 INCH DROP SINGLE FRONT AXLE	260	
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	
409-006	FRONT OIL SEALS		
408-001	VENTED FRONT HUB CAPS WITH WINDOW, CENTER AND SIDE PLUGS - OIL		
416-022	STANDARD SPINDLE NUTS FOR ALL AXLES		
405-003	HALDEX 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		
533-001	OIL/AIR POWER STEERING COOLER		
40T-002	CURRENT AVAILABLE SYNTHETIC 75W-90 FRONT AXLE LUBE		

Front Suspension

620-025	20,000# TAPERLEAF FRONT SUSPENSION	200	
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Data Code	Description	Weight Front	Weight Rear
619-004	GRAPHITE BRONZE BUSHINGS WITH SEALS - FRONT SUSPENSION		
410-001	FRONT SHOCK ABSORBERS		

Rear Axle and Equipment

420-111	RT-46-160P 46,000# R-SERIES TANDEM REAR AXLE		450
421-456	4.56 REAR AXLE RATIO		
424-001	IRON REAR AXLE CARRIER WITH STANDARD AXLE HOUSING		
386-075	MXL 18T MERITOR EXTENDED LUBE MAIN DRIVELINE WITH HALF ROUND YOKES	-10	-10
388-073	MXL 17T MERITOR EXTENDED LUBE INTERAXLE DRIVELINE WITH HALF ROUND YOKES		
452-006	DRIVER CONTROLLED TRACTION DIFFERENTIAL - BOTH TANDEM REAR AXLES		30
878-023	(1) INTERAXLE LOCK VALVE, (1) DRIVER CONTROLLED DIFFERENTIAL LOCK FORWARD-REAR AND REAR-REAR AXLE VALVE		
87A-001	BLINKING LAMP WITH EACH INTERAXLE LOCK SWITCH, INTERAXLE UNLOCK DEFAULT WITH IGNITION OFF		
87B-004	BLINKING LAMP WITH EACH MODE SWITCH, DIFFERENTIAL UNLOCK WITH IGNITION OFF, ACTIVE <5 MPH		
423-019	MERITOR 16.5X8.62 Q+ CAST SPIDER CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES		
433-002	NON-ASBESTOS REAR BRAKE LINING		
434-011	BRAKE CAMS AND CHAMBERS ON FORWARD SIDE OF DRIVE AXLE(S)		
451-023	CONMET CAST IRON REAR BRAKE DRUMS		-40
425-002	REAR BRAKE DUST SHIELDS		10
440-006	REAR OIL SEALS		
426-112	WABCO TRISTOP-D LONGSTROKE 30/36 2-DRIVE AXLE SPRING PARKING CHAMBERS		
428-003	HALDEX AUTOMATIC REAR SLACK ADJUSTERS		
41T-002	CURRENT AVAILABLE SYNTHETIC 75W-90 REAR AXLE LUBE		
42T-001	STANDARD REAR AXLE BREATHER(S)		

Rear Suspension

Data Code	Description	Weight Front	Weight Rear
622-298	TUFTRAC GEN2 46,000# REAR SPRING SUSPENSION		280
621-108	9.5 INCH NOMINAL RIDE HEIGHT (460MM GLOBAL REFERENCE HEIGHT)		
431-003	AXLE CLAMPING GROUP		
624-025	55 INCH AXLE SPACING		
623-006	FORE/AFT AND TRANSVERSE CONTROL RODS		
439-002	REAR SHOCK ABSORBERS - TWO AXLES (TANDEM)		40

Pusher / Tag Equipment

035-128	HENDRICKSON EX13 COMP 13,500# AIR LIFT STEERABLE PUSHER SUSPENSION, 15X4 BRAKES, FF1 AXLE	460	860
443-126	HENDRICKSON EX13 COMP 13,500# FF1 STEERABLE 15X4 BRAKE INTEGRAL PUSHER AXLE		
874-015	(1) DASH VALVE AND (1) GAUGE FOR SINGLE LIFT AXLE		
87F-005	REVERSE LIFT AXLE WIRING WITH LAST STATE RETENTION WITH IGNITION OFF		
896-014	(1) REGULATOR MOUNTED ON CHASSIS FOR SINGLE LIFT AXLE		
456-1AE	HENDRICKSON 15X4 CAM PUSHER/TAG BRAKES, DOUBLE ANCHOR, FABRICATED SHOES		
457-002	NON-ASBESTOS PUSHER/TAG BRAKE LINING		
448-023	CONMET CAST IRON PUSHER/TAG BRAKE DRUMS		
429-001	PUSHER/TAG BRAKE DUST SHIELDS		5
442-016	PUSHER/TAG OIL SEALS		
444-001	VENTED PUSHER/TAG HUB CAPS WITH WINDOW, CENTER AND SIDE PLUGS - OIL		
445-075	HALDEX LONGSTROKE PUSHER/TAG AXLE SERVICE CHAMBERS		
458-003	HALDEX AUTOMATIC PUSHER/TAG SLACK ADJUSTERS		
626-131	HENDRICKSON EX13 COMP 13,500# AIR LIFT STEERABLE PUSHER SUSPENSION		
627-002	60 INCH AXLE SPACING PUSHER/TAG		

Brake System

490-100	WABCO 4S/4M ABS		
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Data Code	Description	Weight Front	Weight Rear
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		
413-002	STD U.S. FRONT BRAKE VALVE		
432-021	(2) 3-4.5 PSI RELAY VALVES, ONE FOR TANDEM AXLE AND ONE FOR PUSHER/TAG		
480-088	WABCO SYSTEM SAVER HP WITH INTEGRAL AIR GOVERNOR AND HEATER		
479-015	AIR DRYER FRAME MOUNTED		
460-058	STEEL AIR TANKS MOUNTED AFT INSIDE AND/OR BELOW FRAME JUST FORWARD OF REAR SUSPENSION		
477-004	PULL CABLES ON ALL AIR RESERVOIR(S)		
485-001	EXTERNAL CHARGING GLADHAND	5	

Trailer Connections

914-001	AIR CONNECTIONS TO END OF FRAME WITH GLAD HANDS FOR TRUCK AND NO DUST COVERS		
296-010	PRIMARY CONNECTOR/RECEPTACLE WIRED FOR SEPARATE STOP/TURN, ABS CENTER PIN POWERED THROUGH IGNITION		
297-001	SAE J560 7-WAY PRIMARY TRAILER CABLE RECEPTACLE MOUNTED END OF FRAME		
335-004	UPGRADED CHASSIS MULTIPLEXING UNIT		
331-001	SUPPLEMENTAL J560 7-WAY RECEPTACLE LOCATED WITH PRIMARY RECEPTACLE		

Wheelbase & Frame

545-547	5475MM (216 INCH) WHEELBASE		
546-102	7/16X3-9/16X11-1/8 INCH STEEL FRAME (11.11MMX282.6MM/0.437X11.13 INCH) 120KSI	470	120
547-001	1/4 INCH (6.35MM) C-CHANNEL INNER FRAME REINFORCEMENT	210	400
552-030	1600MM (63 INCH) REAR FRAME OVERHANG		
55W-006	FRAME OVERHANG RANGE: 61 INCH TO 70 INCH		
549-016	24 INCH INTEGRAL FRONT FRAME EXTENSION WITH 0.25 INCH INSERT	350	-50
AC8-99D	CALC'D BACK OF CAB TO REAR SUSP C/L (CA) : 150.0 in		

Data Code	Description	Weight Front	Weight Rear
AE4-99D	CALC'D FRAME LENGTH - OVERALL : 348.15 in		
FSS-0LH	CALCULATED FRAME SPACE LH SIDE : 9.12 in		
FSS-0RH	CALCULATED FRAME SPACE RH SIDE : 178.35 in		
AM6-99D	CALC'D SPACE AVAILABLE FOR DECKPLATE : 168.45 in		
553-001	SQUARE END OF FRAME		
550-001	FRONT CLOSING CROSSMEMBER		
559-001	STANDARD WEIGHT ENGINE CROSSMEMBER		
562-001	STANDARD MIDSHIP #1 CROSSMEMBER(S)		
572-001	STANDARD REARMOST CROSSMEMBER		
565-002	HEAVY DUTY SUSPENSION CROSSMEMBER		30
Chassis Equipment			
556-997	OMIT FRONT BUMPER, CUSTOMER INSTALLED SPECIAL BUMPER, DOES NOT COMPLY WITH FMCSR 393.203	-100	
551-002	HUCK-SPIN ROUND COLLAR CHASSIS FASTENERS		
Fuel Tanks			
204-219	70 GALLON/264 LITER RECTANGULAR ALUMINUM FUEL TANK - LH	15	5
218-005	RECTANGULAR 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)		
122-1K3	DAVCO 487 FUEL/WATER SEPARATOR WITH ESOC	15	
216-020	EQUIFLO INBOARD FUEL SYSTEM		
202-016	HIGH TEMPERATURE REINFORCED NYLON FUEL LINE		
Tires			
093-0TA	MICHELIN XZY-3 385/65R22.5 18 PLY RADIAL FRONT TIRES	130	
094-13T	MICHELIN X WORKS D 11R22.5 16 PLY RADIAL REAR TIRES		248
095-0BN	MICHELIN XZE 255/70R22.5 16 PLY RADIAL PUSHER/TAG TIRES		-34



Data Code	Description	Weight Front	Weight Rear
Hubs			
418-060	CONMET PRESET PLUS PREMIUM IRON FRONT HUBS		
450-060	CONMET PRESET PLUS PREMIUM IRON REAR HUBS		
449-060	CONMET PRESET PLUS PREMIUM IRON PUSHER/TAG HUBS		
Wheels			
502-574	ACCURIDE 29807 22.5X12.25 10-HUB PILOT 4.75 INSET 5-HAND STEEL DISC FRONT WHEELS	98	
505-428	ACCURIDE 28828 22.5X8.25 10-HUB PILOT 2-HAND HD STEEL DISC REAR WHEELS		104
509-428	ACCURIDE 28828 22.5X8.25 10-HUB PILOT 2-HAND HD STEEL DISC PUSHER/TAG WHEELS		26
496-011	FRONT WHEEL MOUNTING NUTS		
497-011	REAR WHEEL MOUNTING NUTS		
495-011	PUSHER/TAG WHEEL MTG NUTS		
Cab Exterior			
829-1A2	114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB		
650-008	AIR CAB MOUNTING		
705-012	CAB ROOF REINFORCEMENTS FOR ROOF MOUNTED COMPONENTS	2	
648-002	NONREMOVABLE BUGSCREEN MOUNTED BEHIND GRILLE		
667-004	FRONT FENDERS SET-BACK AXLE		
754-017	BOLT-ON MOLDED FLEXIBLE FENDER EXTENSIONS	10	
678-018	LH AND RH EXTERIOR GRAB HANDLES WITH SINGLE RUBBER INSERT		
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		
690-016	CAB FLOOR, TOE BOARD AND FIREWALL HEAT SHIELD	5	
727-1AF	SINGLE 14 INCH ROUND HADLEY AIR HORN UNDER LH DECK		
726-001	SINGLE ELECTRIC HORN		
728-001	SINGLE HORN SHIELD		



Data Code	Description	Weight Front	Weight Rear
78G-004	KEY QUANTITY OF 4		
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		
294-001	INTEGRAL STOP/TAIL/BACKUP LIGHTS		
300-015	STANDARD FRONT TURN SIGNAL LAMPS		
744-1BC	DUAL WEST COAST BRIGHT FINISH HEATED MIRRORS WITH LH AND RH REMOTE		
797-001	DOOR MOUNTED MIRRORS		
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		
677-053	RH AFTERTREATMENT SYSTEM CAB ACCESS WITH PLAIN SHIELDING		
768-043	63X14 INCH TINTED REAR WINDOW		
661-004	TINTED DOOR GLASS LH AND RH WITH TINTED OPERATING WING WINDOWS		
654-027	RH AND LH ELECTRIC POWERED WINDOWS, PASSENGER SWITCHES ON DOOR(S)	4	
769-002	LOWER RH DOOR WINDOW WITH FRESNEL LENS	7	
663-029	1-PIECE BONDED HEATED WIPER PARK SOLAR GREEN GLASS WINDSHIELD		
659-019	2 GALLON WINDSHIELD WASHER RESERVOIR WITHOUT FLUID LEVEL INDICATOR, FRAME MOUNTED		

Cab Interior

707-1AK	OPAL GRAY VINYL INTERIOR		
706-026	MOLDED PLASTIC DOOR PANEL WITHOUT VINYL INSERT WITH ALUMINUM KICKPLATE LOWER DOOR		
708-026	MOLDED PLASTIC DOOR PANEL WITHOUT VINYL INSERT WITH ALUMINUM KICKPLATE LOWER DOOR		
772-006	BLACK MATS WITH SINGLE INSULATION		
785-001	DASH MOUNTED ASH TRAYS AND LIGHTER		



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 Phone: 503-283-0345

Data Code	Description	Weight Front	Weight Rear
691-008	FORWARD ROOF MOUNTED CONSOLE WITH UPPER STORAGE COMPARTMENTS WITHOUT NETTING		
694-010	IN DASH STORAGE BIN		
696-012	CENTER STORAGE CONSOLE MOUNTED ON BACKWALL	20	
742-007	(2) CUP HOLDERS LH AND RH DASH		
680-006	GRAY/CHARCOAL FLAT DASH		
860-004	SMART SWITCH EXPANSION MODULE		
720-003	5 LB. FIRE EXTINGUISHER	10	
700-002	HEATER, DEFROSTER AND AIR CONDITIONER		
701-008	STANDARD HVAC DUCTING WITH SNOW SHIELD FOR FRESH AIR INTAKE		
703-005	MAIN HVAC CONTROLS WITH RECIRCULATION SWITCH		
170-015	STANDARD HEATER PLUMBING		
130-041	VALEO HEAVY DUTY A/C REFRIGERANT COMPRESSOR		
702-002	BINARY CONTROL, R-134A		
739-034	PREMIUM INSULATION		
285-013	SOLID-STATE CIRCUIT PROTECTION AND FUSES		
280-007	12V NEGATIVE GROUND ELECTRICAL SYSTEM		
324-011	DOMED DOOR ACTIVATED LH AND RH, DUAL READING LIGHTS, FORWARD CAB ROOF		
655-005	LH AND RH ELECTRIC DOOR LOCKS		
284-023	(1) 12 VOLT POWER SUPPLY IN DASH		
722-002	TRIANGULAR REFLECTORS WITHOUT FLARES	10	
756-339	PREMIUM ISRINGHAUSEN HIGH BACK AIR SUSPENSION DRIVERS SEAT WITH 2 AIR LUMBAR, INTEGRATED CUSHION EXTENSION, TILT AND ADJUSTABLE SHOCK	70	
760-338	BASIC ISRINGHAUSEN HIGH BACK AIR SUSPENSION PASSENGER SEAT WITH MECHANICAL LUMBAR AND INTEGRATED CUSHION EXTENSION	25	10
711-004	LH AND RH INTEGRAL DOOR PANEL ARMRESTS		
758-014	BLACK CORDURA PLUS CLOTH DRIVER SEAT COVER		
761-014	BLACK CORDURA PLUS CLOTH PASSENGER SEAT COVER		
763-101	BLACK SEAT BELTS		



Data Code	Description	Weight Front	Weight Rear
532-002	ADJUSTABLE TILT AND TELESCOPING STEERING COLUMN	10	
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		
870-001	BLACK GAUGE BEZELS		
486-001	LOW AIR PRESSURE INDICATOR LIGHT AND AUDIBLE ALARM		
838-001	(1) SINGLE BRAKE APPLICATION AIR GAUGE		
840-002	2 INCH PRIMARY AND SECONDARY AIR PRESSURE GAUGES		
198-025	INTAKE MOUNTED AIR RESTRICTION INDICATOR WITHOUT GRADUATIONS		
721-003	PRECO/ECCO 1040 87 DECIBELS TO 112 DECIBELS 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		
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		
845-013	MPG FUEL TRIP GAUGE, TOTAL AND RATE, AND FUEL FILTER RESTRICTION INDICATOR		
148-085	EMISSIONS LIMITED IDLE ADJUST		
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		
372-051	CUSTOMER FURNISHED AND INSTALLED PTO CONTROLS		
852-002	ELECTRIC ENGINE OIL PRESSURE GAUGE		
679-001	OVERHEAD INSTRUMENT PANEL		



Data Code	Description	Weight Front	Weight Rear
746-137	AM/FM/WB WORLD TUNER RADIO WITH BLUETOOTH, USB AND AUXILIARY INPUTS, J1939	10	
747-001	DASH MOUNTED RADIO		
750-002	(2) RADIO SPEAKERS IN CAB		
748-006	POWER AND GROUND WIRING PROVISION OVERHEAD		
749-001	ROOF/OVERHEAD CONSOLE CB RADIO PROVISION		
752-017	MULTI-BAND AM/FM/WB/CB LH MIRROR MOUNTED ANTENNA SYSTEM		
810-027	ELECTRONIC MPH SPEEDOMETER WITH SECONDARY KPH SCALE, WITHOUT ODOMETER		
817-001	STANDARD VEHICLE SPEED SENSOR		
812-001	ELECTRONIC 3000 RPM TACHOMETER		
813-1B4	VT-HU CONNECTIVITY PLATFORM HARDWARE		
8D1-002	2 YEARS DETROIT CONNECT BASE PACKAGE (VIRTUAL TECHNICIAN, DETROIT CONNECT PORTAL ACCESS) FOR VT-HU CONNECTIVITY PLATFORM		
162-002	IGNITION SWITCH CONTROLLED ENGINE STOP		
329-083	SIX ON/OFF ROCKER SWITCHES IN THE DASH WITH INDICATOR LIGHTS; FOUR WIRE TO CHASSIS AT BACK OF CAB, TWO UNWIRED, LABEL ALL OPT		
482-001	BW TRACTOR PROTECTION VALVE		
883-001	TRAILER HAND CONTROL BRAKE VALVE		
836-015	DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY		
660-008	SINGLE ELECTRIC WINDSHIELD WIPER MOTOR WITH DELAY		
304-039	MARKER LIGHT SWITCH INTEGRAL WITH HEADLIGHT SWITCH AND DUAL CONNECTORS AND SWITCH FOR CUSTOMER FURNISHED SNOW PLOW LIGHTS, LOW BEAMS OFF WITH HIGH BEAMS		
882-004	TWO VALVE PARKING BRAKE SYSTEM WITH 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		



Data Code	Description	Weight Front	Weight Rear
Design			
065-000	PAINT: ONE SOLID COLOR		
Color			
980-5F6	CAB COLOR A: L0006EY WHITE ELITE EY		
986-020	BLACK, HIGH SOLIDS POLYURETHANE CHASSIS PAINT		
962-976	POWDER BLACK (N0001EA) FRONT WHEELS/RIMS (PKBLK21, BK, PB1)		
966-976	POWDER BLACK (N0001EA) REAR WHEELS/RIMS (PKBLK21, BK, PB1)		
96E-976	POWDER BLACK (N0001EA) PUSHER/TAG WHEELS/RIMS (PKBLK21, BK, PB1)		
963-003	STANDARD E COAT/UNDERCOATING		

Certification / Compliance			
996-001	U.S. FMVSS CERTIFICATION, EXCEPT SALES CABS AND GLIDER KITS		

Raw Performance Data			
AE8-99D	CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA) :	136.22 in	
AM6-99D	CALC'D SPACE AVAILABLE FOR DECKPLATE :	168.45 in	

Sales Programs
 NO SALES PROGRAMS HAVE BEEN SELECTED

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

Weight Summary			
	Weight Front	Weight Rear	Total Weight
Factory Weight ⁺	11186 lbs	8618 lbs	19804 lbs
Total Weight⁺	11186 lbs	8618 lbs	19804 lbs

Extended Warranty



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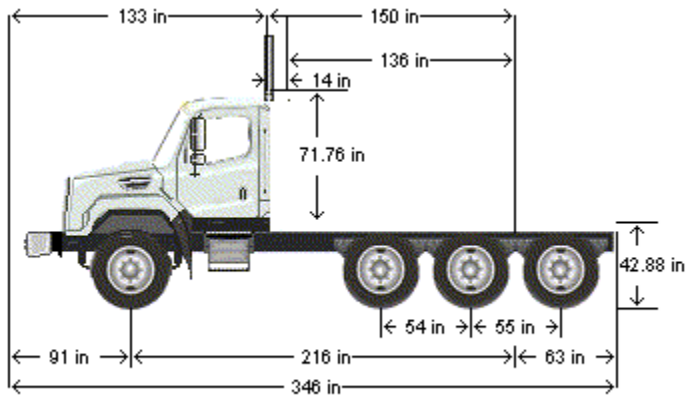
WAI-4KC EW4: DD13H VOC \$0 DEDUCTIBLE 7 YR/250K MILE. FULL
COVERAGE, SEE DDCSN
WAG-010 TOWING: 1 YEAR/UNLIMITED MILES/KM EXTENDED TOWING
COVERAGE \$550 CAP FEX APPLIES

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

(***) All cost increases for major components (Engines, Transmissions, Axles, Front and Rear Tires) and government mandated requirements, tariffs, and raw material surcharges will be passed through and added to factory invoices.



D I M E N S I O N S



VEHICLE SPECIFICATIONS SUMMARY - DIMENSIONS

Model	114SD
Wheelbase (545)	5475MM (216 INCH) WHEELBASE
Rear Frame Overhang (552)	1600MM (63 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/SLEEPERCAB
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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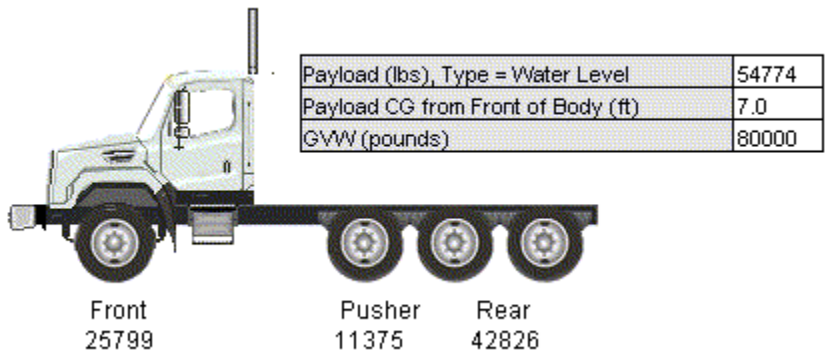
Prepared by:
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 Phone: 503-283-0345

Dimensions	Inches
Bumper to Back of Cab (BBC)	132.9
Bumper to Centerline of Front Axle (BA)	91.3
Min. Cab to Body Clearance (CB)	3.0
Back of Cab to Centerline of Rear Axle(s) (CA)	150.0
Effective Back of Cab to Centerline of Rear Axle(s) (Effective CA)	136.2
Back of Cab Protrusions (Exhaust/Intake) (CP)	15.8
Back of Cab Protrusions (Side Extenders/Trim Tab) (CP)	0.0
Back of Cab Protrusions (CNG Tank)	0.0
Back of Cab Clearance (CL)	13.8
Back of Cab to End of Frame	213.0
Cab Height (CH)	71.8
Wheelbase (WB)	215.6
Frame Overhang (OH)	63.0
Overall Frame Length	348.1
Overall Length (OAL)	345.8
Rear Axle Spacing	55.0
Pusher/Tag Axle Spacing	54.0
Unladen Frame Height at Centerline of Rear Axle	42.9

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



TRUCK WEIGHT



VEHICLE SPECIFICATIONS SUMMARY - TRUCK WEIGHT

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).....	13200.0
Expected Rear Axle(s) Load (lbs).....	46000.0
Expected Tag Axle(s) Load (lbs).....	0.0
Expected GVW (lbs)	79200
Expected GCW (lbs)	80000.0
Wheelbase (545)5475MM (216 INCH) WHEELBASE
Pusher / Tag Axle (443).....	HENDRICKSON EX13 COMP 13,500# FF1 STEERABLE 15X4 BRAKE INTEGRAL PUSHER AXLE
Front Axle to Back of Cab (in).....	41.551
Cab to Body Clearance (in).....	3.0
Front Axle to Body (in)	55.331
Truck Configuration (AA3)	END DUMP BODY
Body Length (ft)	14.0
Body Weight (lbs)	4300.0
Body Horiz CG from Body Front (ft)	5.9
Body Front to Rear Axle(s) CL (ft).....	13.35
Driver Weight (lbs).....	500.0
Driver Horizontal CG from Front Axle (in).....	-4.257000000000002
Left-Hand Primary Fuel/Hydraulic Tank (204).....	70 GALLON/264 LITER RECTANGULAR ALUMINUM FUEL TANK - LH
Left Fuel Tank Horizontal CG (in).....	97.7765
Right-Hand Primary Fuel/Hydraulic Tank (206).....	NO RH FUEL TANK



Right Fuel Tank Horizontal CG (in)0

TABLE SUMMARY - TRUCK WEIGHT

Item	Front(s)	Pusher(s)	Rear(s)	Total
Pusher/Tag Up				
Chassis Tare	11186	0	8618	19804
Fuel / Oil	322	0	300	622
Driver	510	0	-10	500
Dealer Installed Options	0	0	0	0
Accessories Total	0	0	0	0
Body Tare	1784	0	2516	4300
Truck Tare Weight	13802	0	11424	25226
Payload Total	19368	0	35406	54774
Calculated Axle Loads	33170	0	46830	80000
Expected Axle Loads / GVW	20000	13200	46000	80000
Creep GAWR / GVWR (*Max 5 MPH)	30000	0	60000	90000
GAWR / GVWR	18740	11020	46000	75760
Pusher/Tag Down				
Chassis Tare	9287	1317	9200	19804
Fuel / Oil	279	76	267	622
Driver	511	-2	-9	500
Dealer Installed Options	0	0	0	0
Accessories Total	0	0	0	0
Body Tare	1424	959	1917	4300
Truck Tare Weight	11501	2350	11375	25226
Payload Total	14298	9025	31451	54774
Calculated Axle Loads	25799	11375	42826	80000
Expected Axle Loads / GVW	20000	13200	46000	80000
GAWR / GVWR	18740	11020	46000	75760
Payload CG From Front of Body	7 feet			
Payload CG From Front Axle	11.6 feet			
Payload Distribution	Water Level			
All weights displayed in pounds				



Item	Front(s)	Pusher(s)	Rear(s)	Total
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Payload Distribution		Water Level		
All weights displayed in pounds				

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





COLUMBIA
Body Manufacturing

P. O. Box 999 ♦ 10037 SE Mather Road ♦ Clackamas, Oregon 97015
(503) 656-3776 ♦ 1-800-233-7119 ♦ (503) 656-5064

Customer: Clackamas County Fleet
Address: 902 Abernethy RD
Oregon City 97045
Attention: Russ Weber/Josh
Beta

Phone: 971-344-2667

Date: 1-12-2022
Quote: 2K22010
Salesman: Kirk Snead
Email: RussWeb@clackamas.us

**Clackamas County 11/13 double wall concave body with plow and sander hydraulics
mounted on chassis (4Axle)
Tarp and Hot shift PTO on an Allison Transmission**

**Note changes: pre paint inspection, deleted back up alarm, tow drings at rear,
Corrected spec typo: Pup package not included as not provided in Cirus specification see option**

Capacity

- Dimensions of dump body: 15'6" long, 84" inside, 34" tall and 96" wide outside.
- Water level of body will be approximately 11 yard and 13 yards with sideboards.
- Board pockets shall accept the 4 x 8-dimensional fir side boards (3.625x7.5 pockets).

Prebuild / Paint inspection of chassis by Clackamas County

Correct any insures with the chassis prior chassis issues prior to the up fit also a pre paint inspection in required by the county prior to finial paint.

Body floor and under structure

1. The dump body floor shall be formed from one piece of 1/4-inch AR 450 floor with 12-inch radius corners.
2. 8"x 4" x. 188" A500 grade B rectangular tube long members with 1/2-inch vulcanized rubber truck frame buffer pad.
3. Rear cross member shall be formed from 1/4-inch A572-50 high tensile steel and interlock with rear corner posts.
4. Front cross member shall be 4-inch by 5.4 lb structural channel and full width of dump body.
5. Floor cross supports between the front and rear cross-members are unacceptable.

Dump body sidewalls and dash panel

1. Sides shall be double wall design with a 3/4-inch minimum space between the inner and outer walls.
2. The inner wall shall be one-piece 3/16 A572-50 steel with formed top and bottom rails with two corrugations. (inverted)
3. Inner walls will inner lock with front and rear corner posts.
4. The outer walls shall be 12 ga A607-50 formed concave.
5. Four heavy-duty flat bar storage hooks shall be installed on each side of body on the outer wall.
6. A fold down full length (2 sections, drivers side only) cat walk shall be installed on the driver side of the body and stow with the concave side radius and be split at 39.5" just forward of the first side storage hook.
7. Dash panel shall be 3/16 A572-50 high tensile steel with a formed top channel with five vertical reinforcement angles 2x2x1/4.
8. Driver side gap step forward of dash panel bolted to front cross member.
9. 1/2" d rings shall be installed on the inside front corners only of the dump body (two total)

10. Board pocket for 4x8 dimensional lumber, center board gusset to be drilled for center board bolt

Corner posts

1. Rear corner posts shall be 3/16-inch A572-50 high tensile steel.
2. Rear corner posts shall inner lock with sidewalls and rear cross member.
3. Rear corner posts shall each have two TruckLite LED 60 series stop tail turn lights with Truck-Lite LED mini upper marker light the rear facing SST light shall be mounted as high as possible with a shroud 10ga x 1/2" wide wrapping 75% of the light.
4. A recessed side rear marker box with 10 series LED side marker lights and standard oval hole for flasher.
5. Rear post shall have provision to mount a clackamas custom spreader apron
6. Note: corner post with have 1/4" UHMW plastic gap filler between side shirt and corner post
7. Spreader chain hook shall be mounted high on the side of the rear corner posts.
8. One 3/8" grab hook shall be mounted on the outside edge near the top of the rear corner posts.
9. The rubber housed back up lights shall be mounted on a quick stow arm on the forward edge of the corner post.
10. Front corner posts shall be 10ga A607-50 high tensile steel with Truck-Lite super 10 series side marker lights.
11. Front corner posts shall inner lock with sidewalls and dash panel.

Spreader apron

1. Removable spreader apron shall be provided with full width hinge and metal side shirts. The design shall be approved by the Clackamas County shop personal.
2. Note: corner post with have 1/4" UHMW plastic gap filler between side shirt and corner post

The tailgate double wall design

1. The inner panel shall be 1/4 AR450. With highlift gate. (Need inside measurements)
2. The tailgate shall be framed with 4x4x.120 tubing.
3. The tailgate shall have a 4x4x.120 center rib.
4. The tailgate shall have an angle welded on the top tube to prevent material build up.
5. The outer panels of the tailgate shall be concave.
6. The latch pins shall be 1-inch cold drawn AISI 1018 minimum.
7. The tailgate shall have two 3/8-inch proof coil spreader chains 84" long with center storage hook.
8. The hinges arms shall be plasma cut 1-inch A514 (T1) steel plate.
9. The hinge blocks shall be plasma cut 1/2-inch A514 (T1) steel plate.
10. The hinge pins shall be 1-inch round cold drawn AISI 1018.
11. The hinge arms shall rest on top of the hinge blocks when the tailgate is latched.
12. Center lifting d-ring.
13. Spreader chain tubes to be mounted on corner posts
14. License plate mount on rubber flap

Tailgate latch

1. The latch hooks shall be plasma cut 1/2-inch A572-50 high tensile steel.
2. The tailgate trip rod shall be 1-inch cold drawn AISI 1018.
3. The trip rod will be supported by four 3/4-inch grease type bearing blocks.
4. The trip rod shall have an over center lock with adjustable linkage assemblies for both latch hooks.
5. The air trip cylinder shall be Absco model 0703A R4 number 5004013 (air open spring lock.).

Cab guard

1. The cab guard shall be fabricated from 10 ga A607-50 high tensile steel with 3/16 support arms.
2. The cab guard shall provide adequate cab coverage no wider than the truck cab.
3. Pull Tarp manual S9-A2

Body hinges

1. The body hinges shall be greaseless design.
2. The hinge pins shall be 1-7/8-inch (CAT D7E).
3. The hinge pins shall have an extra round stock keeper welded to the inside of the hinge pin.
4. The hinge bushing assemblies shall be full rap design.
5. The hinge bearing blocks shall be 1-inch A572-50 high tensile steel.
6. Two Truck-Lite LED 60 series stop, tail, turn lights and the ICC lights shall be mounted in a removable cover plate below the hinge angle.
7. The sander couplers shall be mounted in the hinge angle as per the following from left to right (return 4010-6P 1" male, auger 8010-5 3/4" male, spinner 4050-5 female)
**** The fittings have been changed when the Hyd upgrades were done so we need to check part numbers****

Trailer hitch package

1. The hitch package shall be a low mount design.
2. The trapezoidal hitch plates shall be formed 1/2-inch A572-50 minimum.
3. The center bulkhead plate will be 3/4-inch A572-50 minimum.
4. The air hitch will be Premier model 370A-281B.
5. Side mounted frame towing 1" safety d rings shall be installed on each side of frame at rear.
6. Glad-hands shall be bulk-head mounted downward to the right side of the hitch on rubber hoses
7. The electrical 7-way shall be mounted to the left side hitch recessed to prevent damage.
8. The 7-ways standard trailer lighting (no electric brake control)
9. Final hitch assembly configuration shall be approved by the Clackamas County personal.

**** We need to add a set of D-rings off the back of the frame rail****

Hoist and mount

1. The hoist cylinder shall be single acting hoist power up and gravity down.
2. Six-inch four stage with 56,540 lb of lift @ 2,000 PSI on the six-inch stage.
3. The inside of the dump body shall be free and clear of any hoist mounting obstructions.
4. Dump body shall have front mount A-frame hoist bail assembly.
5. The hoist cylinder shall be freestanding forward of the dash panel.
6. The A-frame and hoist assembly shall mount free and clear forward of the dash panel.
7. The A-frame mounting arms shall be 1"x 3-1/2" A572-50 high tensile steel.
8. The A-frame assembly shall be fabricated from 3/8"x 3" A572 high tensile steel.
9. The lower A-frame bearings blocks shall have screw in grease fittings.
10. The lower mounting pins shall be 1-1/4-inch AISI 4140 turned, ground, and polished.
11. The upper hoist bearing blocks shall be 1/2-inch A572-50 high tensile steel.
12. The upper hoist pin shall be 1-1/4-inch AISI 4140 turned, ground, and polished.
13. A tool box mounted between cab and box and the A-Frame

Hydraulics

1. The PTO shall be hot shift with extend shaft mounted on an Allison 4500 transmission
2. 98cc 14 spline Eaton 620
3. A return line filter shall be installed.
4. One full flow ball valve shall be installed between the hydraulic tank and pump.
5. The hydraulic oil shall be AW-32.

Valve

- (Qty. 1) Danfoss PVG 100 (48 GPM) Single Acting Hoist
(Qty. 2) Danfoss PVG 32 (20 GPM) Double Acting Plow Up/Down and Left/Right
(Qty. 1) Auger (15 GPM)/Spinner (10 GPM)/Prewet (10 GPM)/Anti-Ice (15 GPM) Outlet Manifold
(Qty. 1) Power Float (Blade Save) with In-Cab operator adjustable pressure setting. (Moray Jr)
(Qty. 1) high lift tailgate

Cirus Black Tip 210 Controls Mount & Gopher Floor Mounted Arm Unit on Two Way Adjustable Pedestal

1.1 The in-cab control system shall be a self-contained system with Black Tip TM integrated plow control with circuit panel, optional spreader control and multi-axis (X, Y) proportional plow control joystick. The unit shall be tooled for pedestal mount (**with extra wiring to go up and down**) or a padded console (for bench seat application). The system will include up to (3) 10-amp rate auxiliary switches and 2 12-volt indicator lights protected with a 10-amp fuse.

1.2 The control lever must be a true joystick with multi-axis (X&Y) proportional control. The joystick shall be capable of proportional control of up to four (4) bi-directional valves using up to 8 independent PWM signals for:
A 4-function: Hoist: lever must have safety trigger protection for hoist function.
A 4 function: Plows, Control lever will include settable plow float function.

******Pup function is not included ******

1.3 The controller must include integrated protection and diagnosis systems:
a) Channel Safe™: to protect the system and help diagnose shorted or open circuits that is external to the controller;
b) Safe Stik™: that shuts down the output channels if a joystick fails;

1.4 User settable speed control using Mako Trim TM for all hydraulic functions: the Mako TM control system will allow the user to set the speed of each direction of motion on a PC for all hydraulic devices controlled by the joystick without modification to the hydraulic system.

1.5 The system will integrate with Spread Smart Rx™ spreader control system

1.6 Power Safe™ Wiring Design: For safety reasons, grounding or cutting any wire at any point between any valve coil and the controller must not cause any valve to actuate. One lead from each hydraulic valve coil must be wired to a common ground point. The system must supply pulsed +12-volt power to the other lead from each individual valve coil.

1.7 IP 68 rated Cables: all connections inside the hydraulic valve/electronic control junction box will be supplied integral with the control system. The outside the cab harness will be IP 68 rated up to the valve coil connection. All connections will be labeled with appropriate descriptions for each connection to individual solenoids of the hydraulic actuating cylinders.

1.8 Integrated Accessory Control Switches: the system will include up to 4 switches and up to 4 warning indicator lights mounted in the controller. Each switch will handle 12v up to 10amp load and can be operated as on/off, momentary or on/off/on as needed.

Spread Smart Rx™ - 7" Color TFT Display

1. The spreader controller shall be capable of operating a spreader with auger/conveyor, spinner, pre-wetting system, and 3 boom Anti-Ice systems. Each function shall operate individually or simultaneously without additional controller hardware.
2. Spreader control system shall be capable of ground speed orientated Closed or Open Loop operation. Controller will be capable of spreading in Lbs/mile (linear spreading) or Lbs/lane mile (area spreading). The system controller shall be capable of ground speed oriented, closed or open loop spinner control. System shall provide a means for operator to reset and/or indicate current volume of liquid in anti-ice and pre-wet tank(s) as part of power-up routine. System shall display current liquid volume in tank(s) while pre-wet and/or anti-ice system is active. The system controller shall be capable of managing of up to three Anti-ice boom operations with individual boom selection in a single or dual tier arrangement.
3. The controller shall be capable of Temp Response TM operating mode, automatically applying material in correlation to measured road temperature.
4. The controller shall include Load and Rate Calculation™ to set spreading rates and track remaining materials for all granular and liquid materials.
5. The controller shall include the capability of ground speed-oriented control of a hydraulically driven, closed loop gate for a spreader body with a center conveyor.
6. Spreader controller shall have a single 7" Color TFT Display. Display shall be remotely mounted with adjustable swivel bracket. Display shall be capable of simultaneous display of Granular, Pre-Wet, and Anti-Ice application rates. Display shall also show other sensors (Temp, GPS, etc.) as well as actual ground speed and all active alarms.
7. Spreader controller must provide "on-screen help" documentation of all main operating functions as well as on screen diagnostics for system issues. On-screen help shall be sufficient to enable users to operate the system by following the on-screen instructions, without referring to the printed operations manual.
8. System shall alarm either audibly or visually for the following conditions: off rate, sensor failure, low liquid remaining, low liquid flow shutoff.
9. Material rates, granular or liquids shall be by toggle actuation (+/-). Toggle actuation shall cause the display to respond accordingly: The first toggle touch shall cause the display to show the current rate set point. The second toggle touch and all subsequent toggle actuations shall increase or decrease the current rate set point.
10. System shall provide up to 10 "supervisor settable" application rates in each of granular, Anti-Ice, & Pre-Wet materials. Controller must provide the ability to name each material with up to five characters. Rate increments shall be individually settable for each material.
11. The controller shall offer multiple layers of access control to set up files:
 - a) "Factory standard" password protected access to operating functions and setup files;
 - b) Supervisor re-set capability for each password;
 - c) "Laptop computer only" access control for higher security.
12. The controller shall have a Blast feature that is capable of operating as: Latched On, Timed on or Momentary On. Blast is active only while operator is activating Blast switch and is disabled in absence of ground

speed signal. The controller will default to the pass mode upon startup of the system to prevent spreading in the yard or shop.

13. **Wiring Design:** The system controller shall have one each from each hydraulic valve coil wired to a common ground point. The system must supply pulsed +12-volt power to the other lead for each individual valve coil. For safety reasons, grounding or cutting any wire at any point between any valve coil and the controller must not cause any valve to actuate. The system shall include minimum rated IP69 connections for all “outside the cab” connections.

14. The spreader controller shall be capable of collecting time, date and location stamped events for all operating modes, errors and alarms, and for all material dispensed. Also, the system shall be capable of recording digital or analog data that comes from up to 4 sensors (such as granular hopper level, gate height opening, granular material flow, plow position, hydraulic pressure, etc.). The spreader control system shall be capable of collecting and storing position data directly from a compatible GPS antenna without additional hardware as well as collecting and storing temperature from a vehicle mounted temperature sensors (Road Watch or QTT brand).

15. **Data Collection:** System must contain at least 1 gigabyte of non-volatile memory on board and have capacity to store spreading data for a minimum of 224 days at 24 hours per day (5,376 continuous spreading hours).

16. Spreader control system must interface with Drive by Download™ for automatic downloading of data in a wireless fashion directly to a base station computer without an intermediate device; system must be capable of downloading data at a minimum of 1.5 mega- bits per second (mbps). System must be capable of storing downloaded data in a format that is compatible with the standard data input format for GIS systems (“shape file format”).

17. Spreader control system must be able to output its data in a standard serial data stream format to any brand AVL system that is able to accept serial data.

**** We have installed an extra pause blast switch that needs to be installed, and we will need to figure out where to install the switch for the high lift gate. ****

Hydraulic hoses

1. The hydraulic system shall include a return line filter.
2. The hydraulic system will operate @ 2,300 PSI.
3. The hydraulic pressure hoses shall be rated @ 3,000 PSI minimum.
4. Hydraulic pressure fittings shall be JIC 37 degree and O-ring boss.
5. Hoses shall be routed to minimize exposure to tire throw-off.
6. Hoses shall not be routed closer than 6-inches from heat sources.
7. Hoses shall be protected from heat sources.
8. Hoses shall not come in contact with moving parts.
9. Hoses shall be protected from sharp edges.)
10. Four Port Quick Coupler Drain Manifold for Plow connections at front of truck

Safety prop, flaps, and miscellaneous

1. One body safety prop shall be mounted on the left side of the chassis.
2. The body shall have 6-inch full length 5/16 rubber spray guards over the tires.
3. Mud flaps shall be black mounted ahead and behind drive tires.
4. The rear flap mounts shall be Clackamas County quick change design. (With extra flap and mount)
5. Two shovel holders shall be provided.
6. One hammer holder shall be provided (between shovel holders and low to reach)
7. All frame attachment shall be made with grade 8 bolts or Huck fasteners.

8. Rebar steps inside and out and assist grab handles on both side of body.

Plow Bumper

1. The plow bumper shall be ODOT Style SB120. (Made out of 7/8 steel)
2. The plow couplers shall be mounted on the road side and recessed under the bumper channel.
3. The plow couplers shall in the following order from the inside out (angle 8010-5 male, angle 8010-5 male, 4050-5 male hoist)
4. **The county is responsible to be sure this plow hitch design is combatable with the new plow configuration**
5. **Plow light installed on truck hood using factory provided wiring and using Ecco EW 4010 lights**

****** The plow bumper has been modified to work with the new plows Josh recommends a meeting******

Welding

1. Excessive distortion of assembled parts in not acceptable.
2. The dump body and other fabricated components shall have good welds. A good weld will have proper penetration and be relatively uniform in appearance.
3. All welds shall conform to or exceed American Welding Society Standards and shall provide a metal-to-metal bond, with adequate penetration using proper flux and or welding materials.
4. Down hand welds are not recommended for steel thicker than .150. If down hand welds are used, they shall have proper penetration.
5. Some characteristics of an unacceptable weld are the following: cracks, undercut, overlap, excessive splatter, slag entrapment, inadequate penetration, excessive distortion, blowholes, and inclusions, excessive porosity, concave or convex.

Body lights and reflectors

1. Truck-Lite LED 60 series stop, tail, and turn recessed legal lights.
2. Truck-Lite LED 10 series marker lights and reflectors shall be installed where necessary.
3. Truck-Lite 50 series sealed wire harness system.

Electrical

1. Isolate all electrical circuits installed by body builder from truck chassis with 30-amp resettable breaker, continual duty solenoid and six-section fuse block.
2. Truck-Lite 50 series sealed wire harness lighting system. (Use 3 J boxes)
3. Wiring shall be stranded copper.
4. Aluminum wire is not acceptable.
5. Wire insulation shall be cross-linked polyethylene.
6. Wire shall be sized so that the voltage drop for the wire run is less than 5 percent.
7. Wiring for lighting on the truck bed shall be no smaller than 14 gauge.
8. Wiring shall be routed to minimize exposure to tire throw-off.
9. Wires shall not be routed closer than 6 inches from heat sources.
10. Wires shall not come in contact with moving parts.
11. Wires shall be protected from sharp edges.
12. Self-stripping wiring connectors (scotch locks) shall not be used.
13. Lighting and reflectors shall comply with FMVSS 108.
14. Seven wire trailer connectors to be wired as per Clackamas County specification. (No ISO plug)
15. The aftermarket plow light harness shall be wired to factory chassis plow light provision.

- 16. Plow lights with brackets shall be mounted on the right and left side of the engine hood. Using Ecco EW4010 12-watt LED.
- 17. Body up light
 **** Both the body up and the sander empty lights need to be in the dash****

Air system installation

- 1. All air hoses shall be DOT approved.
- 2. The bend radius of airlines shall be not less than the manufacturer's recommended minimum.
- 3. Airlines shall not come in contact with moving parts.
- 4. Airlines shall not be routed through holes or across sharp edges without protection from being chafed or cut.
- 5. Airlines shall be adequately clamped or tied to supporting structures.
- 6. Airline's routing shall be so that low points are minimized.
- 7. Hoses shall be of sufficient length to prevent stretching, distortion, or disconnecting.

Pre paint inspection

- 1. Clackamas County requires inspection of the up fit and chassis prior to paint

Paint

- 1. All metal surfaces shall be free of contaminates that may cause loss of adhesion. (Grease, oil, etc.)
- 2. The first primer undercoat shall be a metal-etching primer (DuPont Met-o-loc).
- 3. The second primer undercoat shall be epoxy base, lead and chromate free.
- 4. The second primer undercoat shall have a film thickness of one 3 to 5 mils or greater when dry using DuPont (#1380) low VOC high solids epoxy primer.
- 5. Topcoat shall be DuPont Centari 5000 lead free paint, low VOC, high solids acrylic urethane. (N0006EZ)
- 6. Topcoat shall have a film thickness of 3 to 5 mils.
- 7. Substrates must be between 50 and 110 degrees in a controlled environment during the primer and paint application.
- 8. Compressed air supply must not exceed 20% humidity during the spray process.

Manuals

- 1. Body builder/installer shall supply one owner's manual with each dump body.
- 2. The manual shall include information about the safe operation of the dump body.
- 3. The manual shall also include parts information and electrical and hydraulic schematics of the equipment installed on the chassis.

Base Price----- \$ 106,000.00
Option: High lift tailgate----- \$ 3000.00

TOTAL SALES PRICE PER UNIT FOB CLACKAMAS, OREGON \$109,000.00

**** Note: These prices do not include FET or any taxes or user fees****

****** Quote good for 45 days******

Due to more frequent and unexpected increases in materials costs and volatility throughout the supply chain beyond the control of Columbia Body Manufacturing Co., and depending on the actual date of manufacturing based solely on the date of Customer acceptance of this quote when compared to actual date of delivery of chassis to Columbia Body Manufacturing Co., a Materials costs surcharge may apply. Under no circumstances will a materials costs surcharge apply if delivery of chassis to Columbia Body Manufacturing Co. is within 90 days of date of Customer acceptance of this quote.

The purpose of the materials costs surcharge would be to offset any unexpected and significant Increases in costs of materials that are included in this quote. The materials costs surcharge would be additional charges that would be added to the base price and/or separately stated Price options.

Customer will be notified of any applicable materials costs surcharge in writing, prior to the start Of the manufacturing process.

If Customer cancels quote after signing acceptance or issuing a related purchase order, but prior to the beginning of the manufacturing process, a 10% restocking fee will be applied to materials Costs included in this quote.

Any custom materials or parts specific to this quote will require 100% prepayment at time of Customer quote acceptance, and will subsequently be considered owned by Customer if Customer cancels quote.

Customer Acceptance Signature _____

Date _____

COVER SHEET

- New Agreement/Contract
- Amendment/Change/Extension to _____
- Other _____

Originating County Department: _____

Other party to contract/agreement: _____

Description:

After recording please return to: **X** _____

County Admin

Procurement

If applicable, complete the following:

Board Agenda Date/Item Number: _____