G-S PRODUCTS MODEL COLLECSTAR 9131A

SPECIFICATIONS FOR 31 CUBIC YARD AUTOMATED, FULL EJECT

SCOPE

This specification describes a truck mounted, hydraulic refuse packer. This machine must be equipped with an automated loading mechanism on the curb side of the material receiving hopper near the front of the body. Body must be designed so that optimum load distribution can be achieved when installed on a 62,000-66,000 G.V.W. truck cab and chassis. Body installation shall not require modification to a standard truck chassis forward of the rear suspension. (NO DROP FRAME) THIS BODY MUST BE FULL EJECT MODEL. NO DUMP BODIES ALLOWED.

I. BODY

A. CAPACITY

1. The body shall have a usable capacity of thirty-one (31) cubic yards including the tailgate.

B. DIMENSIONS

- 1. Body length 301" (including bustle tailgate).
- 2. Overall height above chassis 102" (lift mechanism in "down" position).
- 3. Overall height above chassis –MUST NOT EXCEED 120" (lift mechanism in full "up" position with 90-100 gallon cart in grabbers).
- 4. Overall width-102"- with arm in parked position.

1. CONSTRUCTION

- 1. The body floor shall be constructed of 1/4" HARDOX 450 steel plate.
- The body floor shall have 8" x 13.5 lbs./ft. structural channel long members.
- 3. Body sides shall be curved shell style, eleven (11) gauge HARDOX 450,175,000 P.S.I. steel sheet.
- 4. Body roof shall be curved shell style, eleven (11) gauge HARDOX 450 steel sheet.
- 5. All external welds shall be continuous.

II. TAILGATE

A. CAPACITY

1. The tailgate shall have a usable capacity of 6.30 cubic yards minimum.

B. CONSTRUCTION

1. Body tailgate shall be bustle type, top hinged, with heavy-duty hinges and tapered-pin plunger style locks. Lock pins must have

- grease fittings located towards the outside edge of the body for easy access.
- 2. Tailgate shall be equipped with a flow control device to assure smooth, even operation.
- 3. Tailgate to be constructed from 10 gauge HARDOX 450 steel sheet and framed with formed steel channel.
- 4. Gate shall have a seal across the bottom and at least 17" up each side to control liquid leakage.

C. OPERATION

- 1. For greater operational stability and safety the tailgate shall be raised and lowered with two 2 ½" bore x 28" stroke double acting hydraulic cylinders.
- 2. All tailgate controls shall be located inside the truck cab within easy reach of the operator's position. I.E. tailgate operation shall not require exit of the cab by the driver. Controls shall be electric/air/hydraulic and spring returned to the "neutral" position.
- 3. Tailgate to lock and release hydraulically through the use of positive acting, tapered rod, plunger-style locks.
- 4. Tailgate ajar and lock status warning light and alarm to be installed in the truck cab.
- 5. Safety prop for tailgate to be included.
- 6. All exterior welds to be continuous.
- 7. Tailgate lock lube points must be at or below body floor level for service convenience. All gate pivot points must be equipped with greaseless bearings.

III. PACKER HOPPER

A. FUNCTION

- 1. The receiving hopper shall have 6.0 cubic yards capacity minimum.
- 2. Hopper shall act as receiving chamber for materials dumped by the lifting mechanism.

B. CONSTRUCTION

- 1. Hopper floor to be constructed of 1/4" HARDOX 450,175,000 P.S.I steel plate with a 1/4" HARDOX 450 overlay extending 18" past the hopper.
- 2. Hopper side walls to be 1/4" HARDOX 450,175,000 P.S.I. steel plate.
- All welds in areas that may be damaged by abrasive material such as fine glass MUST be "HARD SURFACED" with appropriate composite over-weld.

C. HOPPER ACCESS

 Hopper must have access ladder on curb-side of vehicle.
 Entry area must have O.H.S.A. compliant ladder and system kill Switch.

IV. COMPACTOR

A. FUNCTION

1. Compactor is to move the material dumped by the arm from the receiving hopper into the body chamber. Also, compactor is to compress the loaded material to such an extent that the vehicle is loaded to its recommended capacity.

B. OPERATION

- 1. Compactor to be powered by one (1), 6" bore x 84" stroke, single section, dual acting hydraulic cylinder.
- 2. Packer cycle shall be 35 seconds @ 1200 R.P.M.
- When fully extended, compactor must penetrate the body by 18" minimum. This aids compaction of the material and reduces fallback into the loading hopper.
- 4. Compactor shall displace 2.6 cubic yards/cycle minimum.
- 5. Compactor shall have "on-demand" style controls with both "AUTOMATIC PACK" and "MANUAL PACK" selector console mounted in the truck cab and convenient from both sides of cab.
- Compactor stroke shall be automatically reversible through the use of high quality automotive grade switches sensitive to both position and pressure.
- 7. Unit to be equipped with a "near-loaded" warning alarm to alert operator that body is approaching its maximum capacity.

C. CONSTRUCTION

- 1. Compactor to be guided by a floor mounted "T" track beam.
- 2. Both the "T" track beam and compactor guide shoes must be made of HARDOX 450,175,000 P.S.I. steel plate.
- 3. The compactor shall be constructed of engineered steel sections and fully tested using state-of-the-art Finite Stress Analysis technology.

V. AUTOMATED LOADING ARM

A. FUNCTION

- Loading arm shall be sleeve mounted on the curbside of the loading hopper. Arm horizontal and vertical supports shall be centered in relation to the hopper and the load to be lifted. No part of the loading arm shall be mounted underneath the chassis frame, inside the hopper, or in front of the body. Due to operational stresses under load and over time, NO OFF-SET OR CANTILEVER DESIGNS ARE ACCEPTABLE.
- 2. Arm must have the ability to pick up containers, dump and return without the need to extend.

- 3. Once can is engaged, lift MUST move vertically for the first 41" before tipping. This allows cans that may be placed above grade on snow banks or retaining walls to be safely serviced. This vertical movement must be controllable by the operator as needed from the in-cab control position.
- 4. Arm must have horizontal extension of 120" (144" reach to can center line without tilting or any vertical motion).
- 5. The container "lift" motion must be operated by one (1) 2" bore x 41" stroke hydraulic cylinder.
- 6. The container tilt/dump must be operated by one 3" bore x 12 3/8" stroke hydraulic cylinder with 1 3/4" cushion in rod end and 1" cushion in base end.
- 7. Lift cycle time shall be approximately seven (7) seconds (ground to ground) at engine idle.
- 8. Lifted container shall not "arc" outboard more than 25" during ground to ground movement.
- 9. Lift must stow within legal width with lift in down/grab open position.
- 10. Container dump cycle shall not exceed thirteen (13) feet, six (6) inches from the ground at its highest point. (May vary slightly with different chassis.)
- 11. Container dump angle when in full "up" position shall be 55 degrees minimum.
- 12. Lift vertical motion shall be track guided by replaceable, reversible, non-grease, NYLATRON NSM wear shoes. Guides MUST be replaceable without track or lift dis-assembly.
- 13. Lift cycle shall be smooth, non-binding and non-violent.
- 14. Lift load capacity shall be 1,000 lbs. at full extension.
- 15. Lift horizontal movement shall be track guided by NYLATRON NSM non-grease wear guides. Guides MUST be replaceable without track or lift dis-assembly.
- 16. Lift in/out motion shall be sequenced so that the first 48 inches of motion (stage 1) always extends first. This essentially eliminates wear to stage 2 wear guides since reach beyond 48" is used in less than 5% of average route conditions.
- 17. Grabbers shall be belt-type capable of handling containers ranging in size from 32 gallon to 110 gallon interchangeably. Grab pressure must be adjustable to suit different types of container manufacturing methods and materials.

B. CONSTRUCTION

- Loading lifting arms must be constructed of solid high tensile steel plate. Due to their tendency to deflect under load, tubular load lifting components are NOT acceptable.
- 2. All tilt mechanism connecting pins shall be 1.25" minimum diameter with self-aligning bearings.

- 3. Lift shall have a top rotator shaft that lifts grab mechanism through its motion while powered by a single hydraulic cylinder.
- 4. Top shaft shall be retained by replaceable NYLATRON NSM nongrease split bearings (two sets) and grade 8 bolts.
- 5. Lift arm rotator cam must have NYLATRON NSM non-grease bearing rotating on a 3" diameter shaft. Bearing MUST be replaceable without shaft removal.
- 6. Cylinder pivots for grab, in-out as well as up/down shall be Teflon backed self-aligning greaseless bearings properly installed with 1" grade 8 bolts or polished chrome pins.
- 7. Grab pivots must use chromed steel pins with fiber filled greaseless bearings.
- 8. Grab cylinders (2) shall be 2" bore x 6 3/8" stroke.
- 9. In-out cylinders shall be two (2) 2" bore x 60" stroke with rubberized bumper on base end.
- 10. Up-down cylinder shall be 2" bore x 41" stroke.
- 11. Tilt cylinder must be 3" bore x 12 3/8" stroke
- 12. Lift shall have only two(2) locations that require lube on a weekly basis.

C. CONTROLS

- 1. Outside controls for loading mechanism shall be located in the chassis cab and convenient for operator access from the ground.
- 2. In-cab control to be a joystick or rocker- style switches mounted in cab. Joystick or rocker switches shall control in/out, up/down/dump and grab functions.
- 3. Lift functions <u>must operate without the need for computers, PLC's,</u> proximity switches, or relays.

VI. BODY UNLOADING

A. FUNCTION

- 1. Body payload to be offloaded by hydraulically powered HORIZONTAL EJECTION.
- 2. Ejector panel to be operated by two (2), 4" bore x 116" stroke, SINGLE- SECTION, DOUBLE ACTING hydraulic cylinders. NO MULTI-STAGE TELESCOPIC CYLINDERS ALLOWED.
- 3. Ejector operation shall be sequenced so that panel will "extend" only when packer panel is in full "extend" position and tailgate is fully "up".
- Controls to be mounted convenient to operator's in-cab driving location.

B. CONSTRUCTION

- 1. Ejector panel to have a structural steel tubular frame.
- 2. Panel guide tracks to be formed 3/16" steel plate.
- 3. Panel guide/cylinder enclosure tube shall be 5" x 7" x 3/16" structural steel tube equipped with HARDOX 450 steel wear strips.

- 4. Floor level wear pads must be HARDOX 450.
- 5. HOIST TO DUMP OR MULTI- STAGE EJECTION CYLINDERS ARE UNACCEPTABLE.

VII. HYDRAULICS

A. PUMP

All body and lift functions shall be powered by a tandem-section gear type pump (36 G.P.M. @ 700 R.P.M.). Tandem Vane type pump is optional. This pump shall be powered by a transmission mounted Chelsea Model 890 power take- off. Front engine driven pump is optional. Each pump section shall automatically unload to tank when factory flow settings are exceeded. This feature prevents unintended or accidental over-speed of the system.

B. BODY CONTROL VALVES

- The body main valve must be a Parker hydraulics model VA-35 with main system pressure set @ 2,500 P.S.I. This valve must have one (1) control section to act as directional control for the packer. This valve must be electric/air/hydraulic controlled by automotive style relays. NO COMPUTERS OR PLC'S.
- 2. The valve assembly that controls all other lift and body functions shall be Parker hydraulics model VA-20 with relief set @ 2,500 P.S.I. Valve spool controls must be pneumatic. Lift functions must operate with no computers, PLC's, limit switches, or proximity switches.

C. HYDRAULIC RESERVOIR

The body shall be equipped with a "street-side" body mounted hydraulic reservoir with a minimum capacity of seventy (70) gallons. This reservoir shall be equipped with a fill cap, in-tank return filter, breather, fluid level indicator and temperature gauge. Under normal operating conditions, hydraulic oil temperature MUST NOT EXCEED 75 degrees above ambient temperature without the need for external cooling. NO AUXILIARY COOLING ALLOWED. NO EXCEPTIONS.

D. FILTRATION AND SERVICE

System cleanliness and protection against contamination shall be accomplished through the use of the following devices:

1. All oil shall be routed through a 10 micron return line filter. This filter shall be installed at or near the front of the hydraulic reservoir and properly sized so that 100% of the flow is filtered under normal operating conditions without bypass. Filter must be located so that all periodic service can be performed from ground level. Filter service must be possible without loss of fluid.

2. IN-LINE SHUTOFF.

For ease of service the suction line shall be equipped with a shutoff valve plumbed adjacent to the reservoir.

3. SUCTION STRAINER.

A 100-mesh oil strainer must be installed in the hydraulic system suction line. This strainer must be serviceable without draining the system reservoir.

E. PLUMBING

All body and lift plumbing not requiring flexibility to complete its function must be constructed of seamless steel hydraulic tubing correctly sized for each operation. Plumbing requiring hoses shall be routed in such a way as to prevent rubbing, chafing and undue bending.

VIII. IN-CAB CONTROLS

The following controls must be mounted inside the truck cab for safe and convenient operation.

- 1. Hydraulic system on/off switch.
- 2. Body tailgate control.
- 3. Body ejector control.
- 4. Work light and strobe light switches.
- 5. Hopper cover control.
- 6.Lift joystick/ Rocker Switches
- 7. Packer over-ride switch

IX. LIGHTS

- 1. Standard lights shall be supplied in accordance with FMVSS#108.
- 2. All body lights must be TRUCKLITE Model "SUPER 44" L.E.D. with SERIES 50 wiring harness.
- 3. Automated lift working area must have implement style adjustable work lights.
- 4. Body must be equipped with Petersen SMART-LITE system with tailgate mounted upper and lower turn/stop and safety signal lighting as well as two front facing flashing lights.

X. ACCESSORIES

- 1. Federal under-ride bumper shall be installed.
- 2. Tailgate safety prop shall be provided.
- 3. Tailgate "ajar" and tailgate "unlock" alarm shall be provided.
- 4. Back up alarm shall be provided.
- 5. Both body and hopper shall have access doors on each side for cleaning behind the packer and ejector panels. Doors must be sealed when closed.
- 6 Hydraulically operated hopper cover/crusher panel...
- 7.Unit shall equipped with a QUAD CAMERA SYSTEM by ZONE DEFENSE, MODEL ZD.323.1 LCD 2 camera system MODEL CAM 313C

(other camera systems available on request) camera with 7" color LCD 22 pin, soft button monitor. Must include ASSC-400D PanaVice HD adjustable mount and all cables.

XI. PAINTING PROCEDURES

- 1. The body and lift shall be free of all weld slag, dirt and grease and be prepared prior to painting in accordance with the paint manufacturers specifications.
- 2. Body and loading mechanism shall receive at least one coat of primer and two finish coats of polyurethane enamel. Primer shall be approved for use with the finish coat material.

XII. WARRANTY

- 1. A minimum one-year warranty against manufacturing defects shall be provided by the manufacturer.
- 2. BODY MANUFACTURER MUST BE EQUIPPED TO PROVIDE ON-SITE SERVICE IF NEEDED.
- 3. SUFFICIENT ON-SITE TRAINING FOR BOTH OPERATORS AND MECHANICS SHALL BE CONDUCTED WHEN COMPLETED UNIT IS DELIVERED.
- XIII. BODY MUST BE MANUFACTURED IN THE U.S.A.



56 K

SPECIFICATION PROPOSAL

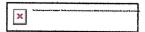
Weight Weight Description Front Rear **Price Level** M2 PRL-27M (EFF:MY24 ORDERS) **Data Version** SPECPRO21 DATA RELEASE VER 015 **Vehicle Configuration** M2 106 CONVENTIONAL CHASSIS 5,709 3,450 2024 MODEL YEAR SPECIFIED SET BACK AXLE - TRUCK STRAIGHT TRUCK PROVISION LH PRIMARY STEERING LOCATION **General Service** TRUCK CONFIGURATION DOMICILED, USA 50 STATES (INCLUDING CALIFORNIA AND CARB OPT-IN STATES) REFUSE SERVICE SANITATION BUSINESS SEGMENT DRY BULK COMMODITY TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN TRANSIT, IS SPENT ON PAVED ROADS **MAXIMUM 8% EXPECTED GRADE** SMOOTH CONCRETE OR ASPHALT PAVEMENT -MOST SEVERE IN-TRANSIT (BETWEEN SITES) **ROAD SURFACE** MEDIUM TRUCK WARRANTY EXPECTED FRONT AXLE(S) LOAD: 16000.0 lbs EXPECTED REAR DRIVE AXLE(S) LOAD: 40000.0 lbs **EXPECTED GROSS VEHICLE WEIGHT CAPACITY**

Truck Service

RECYCLING BODY

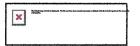
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Description

GSP MARKETING

EXPECTED BODY/PAYLOAD CG HEIGHT ABOVE
FRAME "XX" INCHES: 32.0 in

Engine

CUM L9 360 HP @ 2200 RPM, 2200 GOV RPM, 1150 LB-FT @ 1200 RPM, REFUSE

Electronic Parameters

69 MPH ROAD SPEED LIMIT

CRUISE CONTROL SPEED LIMIT SAME AS ROAD SPEED LIMIT

PTO MODE ENGINE RPM LIMIT - 1500 RPM

PTO MODE BRAKE OVERRIDE - SERVICE BRAKE APPLIED

PTO RPM WITH CRUISE SET SWITCH - 900 RPM PTO RPM WITH CRUISE RESUME SWITCH - 900 RPM

PTO MODE CANCEL VEHICLE SPEED - 5 MPH PTO GOVERNOR RAMP RATE - 250 RPM PER SECOND

ONE REMOTE PTO SPEED

PTO SPEED 1 SETTING - 700 RPM

ENGINE BRAKE WITH CRUISE CONTROL ENABLED AT 2 MPH ABOVE SET SPEED, 2 MPH INCREMENT BETWEEN BRAKING LEVELS

PTO MINIMUM RPM - 700

REGEN INHIBIT SPEED THRESHOLD - 5 MPH

Engine Equipment

2010 EPA/CARB/GHG21 CONFIGURATION

2008 CARB EMISSION CERTIFICATION - CLEAN IDLE (INCLUDES 6X4 INCH LABEL ON LOWER FORWARD CORNER OF DRIVER DOOR)

STANDARD OIL PAN

ENGINE MOUNTED OIL CHECK AND FILL

SIDE OF HOOD AIR INTAKE WITH FIREWALL MOUNTED DONALDSON AIR CLEANER

DR 12V 160 AMP 28-SI QUADRAMOUNT PAD ALTERNATOR WITH REMOTE BATTERY VOLT SENSE

(2) DTNA GENUINE, FLOODED STARTING, MIN 2000CCA, 370RC, THREADED STUD BATTERIES

BATTERY BOX FRAME MOUNTED

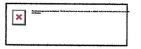
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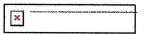
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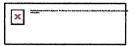
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Description	Wei Fr	ght W ont	/eight Rear
STANDARD BATTERY JUMPERS			
LH BATTERY BOX MOUNTED AS POSSIBLE, NO GREATER THAN BACK OF CAB			
WIRE GROUND RETURN FOR BA WITH ADDITIONAL FRAME GROU			
NON-POLISHED BATTERY BOX (COVER		
POSITIVE AND NEGATIVE POST JUMPSTART LOCATED ON FRAM STARTER		2	
CUMMINS TURBOCHARGED 18.7 COMPRESSOR WITH INTERNAL	CFM AIR SAFETY VALVE		
STANDARD MECHANICAL AIR CO GOVERNOR	OMPRESSOR		
AIR COMPRESSOR DISCHARGE	LINE		
ELECTRONIC ENGINE INTEGRAL PROTECTION SYSTEM	SHUTDOWN		
C-BRAKE BY JACOBS WITH LOW BRAKING DASH SWITCH	//OFF/HIGH	80	
* RH INBOARD FRAME MOUNTED AFTERTREATMENT SYSTEM AS: HORIZONTAL TAILPIPE		-50	-50
ENGINE AFTERTREATMENT DE\ AUTOMATIC OVER THE ROAD R AND DASH MOUNTED REGENER REQUEST SWITCH	EGENERATION		
STANDARD EXHAUST SYSTEM L	ENGTH		
RH STANDARD HORIZONTAL TA	LPIPE		
6 GALLON DIESEL EXHAUST FLU	JID TANK		
100 PERCENT DIESEL EXHAUST	FLUID FILL		
LH MEDIUM DUTY STANDARD DI FLUID TANK LOCATION	ESEL EXHAUST		
STANDARD DIESEL EXHAUST FL MOUNTING	UID PUMP		
STANDARD DIESEL EXHAUST FL	UID TANK CAP		
AIR POWERED ON/OFF ENGINE	FAN CLUTCH		
AUTOMATIC FAN CONTROL WITI SWITCH, NON ENGINE MOUNTEI	1001 27 (011		
CUMMINS SPIN ON FUEL FILTER			
COMBINATION FULL FLOW/BYPA	SS OIL FILTER		
1100 SQUARE INCH ALUMINUM F	RADIATOR	70	
ANTIFREEZE TO -34F, OAT (NITR SILICATE FREE) EXTENDED LIFE			

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	Description	Weight Front	Weight Rear	
	GATES BLUE STRIPE COOLANT HOSES OR EQUIVALENT			
	CONSTANT TENSION HOSE CLAMPS FOR COOLANT HOSES			
	RADIATOR DRAIN VALVE			
	LOWER RADIATOR GUARD			
	PHILLIPS-TEMRO 1000 WATT/115 VOLT BLOCK HEATER	4		
	BLACK PLASTIC ENGINE HEATER RECEPTACLE MOUNTED UNDER LH DOOR			
	ALUMINUM FLYWHEEL HOUSING			
	ELECTRIC GRID AIR INTAKE WARMER			
	DELCO 12V 38MT HD STARTER WITH INTEGRATED MAGNETIC SWITCH			
Transmission				
	ALLISON 3000 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION	200	60	

ALLISON VOCATIONAL PACKAGE 170 -AVAILABLE ON 3000/4000 PRODUCT FAMILIES WITH VOCATIONAL MODEL RDS AND EVS

ALLISON VOCATIONAL RATING FOR REFUSE APPLICATIONS AVAILABLE WITH ALL PRODUCT FAMILIES

PRIMARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY

SECONDARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY

PRIMARY SHIFT SCHEDULE RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE

SECONDARY SHIFT SCHEDULE RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE

PRIMARY SHIFT SPEED RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE

SECONDARY SHIFT SPEED RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE

ENGINE BRAKE RANGE PRESELECT RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE

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Transmission Equipment



Weight

Front

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Weight

Rear

Prepared by: Jacob Bringe **FYDA FREIGHTLINER PITTSBURGH** 20 FYDA DRIVE CANONSBURG, PA 15317 Phone: 724-514-2055

Description

ENGINE BRAKE RANGE ALTERNATE PRESELECT RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE

FUEL SENSE 2.0 DISABLED - PERFORMANCE -**TABLE BASED**

DRIVER SWITCH INPUT - DEFAULT - NO **SWITCHES**

DIRECTION CHANGE ENABLED WITH MULTIPLEXED SERVICE BRAKES - ALLISON 5TH **GEN TRANSMISSIONS**

VEHICLE INTERFACE WIRING CONNECTOR WITHOUT BLUNT CUTS, AT BACK OF CAB

ELECTRONIC TRANSMISSION CUSTOMER ACCESS CONNECTOR FIREWALL MOUNTED

CUSTOMER INSTALLED CHELSEA 280 SERIES

PTO MOUNTING, LH SIDE OF MAIN TRANSMISSION ALLISON

MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSION DRAIN, AXLE(S) FILL AND

PUSH BUTTON ELECTRONIC SHIFT CONTROL, DASH MOUNTED

TRANSMISSION PROGNOSTICS - ENABLED 2013

WATER TO OIL TRANSMISSION COOLER, IN RADIATOR END TANK

TRANSMISSION OIL CHECK AND FILL WITH **ELECTRONIC OIL LEVEL CHECK**

SYNTHETIC TRANSMISSION FLUID (TES-295 COMPLIANT)

Front Axle and Equipment

DETROIT DA-F-16.0-5 16,000# FL1 71.0 KPI/3.74

DROP SINGLE FRONT AXLE

MERITOR 16.5X6 Q+ CAST SPIDER CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED

SHOES

NON-ASBESTOS FRONT BRAKE LINING

CAST IRON OUTBOARD FRONT BRAKE DRUMS

FRONT BRAKE DUST SHIELDS

FRONT OIL SEALS

VENTED FRONT HUB CAPS WITH WINDOW, **CENTER AND SIDE PLUGS - OIL**

STANDARD SPINDLE NUTS FOR ALL AXLES

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	Description	Weight Front	Weight Rear	
	MERITOR AUTOMATIC FRONT SLACK		· Nour	-
	ADJUSTERS			
	TRW TAS-85 POWER STEERING	40		
	POWER STEERING PUMP			
	2 QUART SEE THROUGH POWER STEERING RESERVOIR			
	OIL/AIR POWER STEERING COOLER	5		
	CURRENT AVAILABLE SYNTHETIC 75W-90 FRONT AXLE LUBE			
Front Suspension				
	16,000# TAPERLEAF FRONT SUSPENSION	200		
	MAINTENANCE FREE RUBBER BUSHINGS - FRONT SUSPENSION			
	FRONT SHOCK ABSORBERS			
Rear Axle and Equip	oment			
	MT-40-14X 40,000# R-SERIES TANDEM REAR AXLE		2,500	
	6.14 REAR AXLE RATIO			
	IRON REAR AXLE CARRIER WITH OPTIONAL HEAVY DUTY AXLE HOUSING		30	
	MXL 17T MERITOR EXTENDED LUBE MAIN DRIVELINE WITH HALF ROUND YOKES	40	40	
	MXL 17T MERITOR EXTENDED LUBE INTERAXLE DRIVELINE WITH HALF ROUND YOKES			
	DRIVER CONTROLLED TRACTION DIFFERENTIAL - BOTH TANDEM REAR AXLES		30	
	(1) INTERAXLE LOCK VALVE, (1) DRIVER CONTROLLED DIFFERENTIAL LOCK FORWARD- REAR AND REAR-REAR AXLE VALVE			
	BLINKING LAMP WITH EACH INTERAXLE LOCK SWITCH, INTERAXLE UNLOCK DEFAULT WITH IGNITION OFF			
	BLINKING LAMP WITH EACH MODE SWITCH, DIFFERENTIAL UNLOCK WITH IGNITION OFF, ACTIVE <5 MPH			
	MERITOR 16.5X8.62 Q+ CAST SPIDER CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES			
	NON-ASBESTOS REAR BRAKE LINING			
	STANDARD BRAKE CHAMBER LOCATION			
	CAST IRON OUTBOARD REAR BRAKE DRUMS		40	
	REAR BRAKE DUST SHIELDS		10	

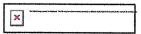
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	Description	Weight Front	Weight Rear	
	REAR OIL SEALS			
	WABCO TRISTOP-D LONGSTROKE 30/36 2- DRIVE AXLE SPRING PARKING CHAMBERS		20	
	HALDEX AUTOMATIC REAR SLACK ADJUSTERS			
	CURRENT AVAILABLE SYNTHETIC 75W-90 REAR AXLE LUBE			
Rear Suspension				
*	HENDRICKSON HN462 @46,000# REAR SUSPENSION		810	
*	CUSTOM RIDE HEIGHT RIDE HEIGHT 9.56"			
	STANDARD AXLE SEATS IN AXLE CLAMP GROUP			
*	54 INCH AXLE SPACING			
*	HENDRICKSON HN,HAULMAAX AND ULTIMAAX SERIES STEEL BEAMS WITH BAR PIN			
*	FORE/AFT AND TRANSVERSE CONTROL RODS			
*	REAR SHOCK ABSORBERS - TWO AXLES (TANDEM)		40	
Brake System				
	AIR BRAKE PACKAGE			
	WABCO 4S/4M ABS			
	REINFORCED NYLON, FABRIC BRAID AND WIRE BRAID CHASSIS AIR LINES			
	FIBER BRAID PARKING BRAKE HOSE			
	STANDARD BRAKE SYSTEM VALVES			
	STANDARD AIR SYSTEM PRESSURE PROTECTION SYSTEM			
	PROTECTION SYSTEM			
	PROTECTION SYSTEM STD U.S. FRONT BRAKE VALVE RELAY VALVE WITH 5-8 PSI CRACK PRESSURE,	20		
	PROTECTION SYSTEM STD U.S. FRONT BRAKE VALVE RELAY VALVE WITH 5-8 PSI CRACK PRESSURE, NO REAR PROPORTIONING VALVE	20		
	PROTECTION SYSTEM STD U.S. FRONT BRAKE VALVE RELAY VALVE WITH 5-8 PSI CRACK PRESSURE, NO REAR PROPORTIONING VALVE BW AD-9 BRAKE LINE AIR DRYER WITH HEATER	20		
	PROTECTION SYSTEM STD U.S. FRONT BRAKE VALVE RELAY VALVE WITH 5-8 PSI CRACK PRESSURE, NO REAR PROPORTIONING VALVE BW AD-9 BRAKE LINE AIR DRYER WITH HEATER AIR DRYER MOUNTED INBOARD ON LH RAIL STEEL AIR TANKS MOUNTED AFT INSIDE AND/OR BELOW FRAME JUST FORWARD OF	20		,

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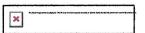


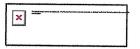
UPGRADED CHASSIS MULTIPLEXING UNIT UPGRADED BULKHEAD MULTIPLEXING UNIT



	Description	Weight Front	Weight Rear
Wheelbase & Frame			
	6400MM (252 INCH) WHEELBASE		
	11/32X3-1/2X10-15/16 INCH STEEL FRAME (8.73MMX277.8MM/0.344X10.94 INCH) 120KSI	390	150
	1/4 INCH (6.35MM) C-CHANNEL INNER FRAME REINFORCEMENT	210	420
	2450MM (96 INCH) REAR FRAME OVERHANG		
	FRAME OVERHANG RANGE: 91 INCH TO 100 INCH	-60	260
	CALC'D BACK OF CAB TO REAR SUSP C/L (CA): 186.42 in		
	CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA): 183.42 in		
	CALC'D FRAME LENGTH - OVERALL: 377.86 in		
	CALCULATED FRAME SPACE LH SIDE: 101.87 in		
	CALCULATED FRAME SPACE RH SIDE: 97.89 in		
	SQUARE END OF FRAME		
	FRONT CLOSING CROSSMEMBER		
	LIGHTWEIGHT HEAVY DUTY ALUMINUM ENGINE CROSSMEMBER	-12	
	STANDARD CROSSMEMBER BACK OF TRANSMISSION		
	STANDARD MIDSHIP #1 CROSSMEMBER(S)		
	STANDARD REARMOST CROSSMEMBER		
	STANDARD SUSPENSION CROSSMEMBER		
Chassis Equipment			
	THREE-PIECE 14 INCH PAINTED STEEL BUMPER WITH COLLAPSIBLE ENDS	30	
	FRONT TOW HOOKS - FRAME MOUNTED	15	
	BUMPER MOUNTING FOR SINGLE LICENSE PLATE		
	BETTS B-25 PAINTED MUDFLAP BRACKETS		15
	BLACK MUDFLAPS		15
	FENDER AND FRONT OF HOOD MOUNTED FRONT MUDFLAPS		
	GRADE 8 THREADED HEX HEADED FRAME FASTENERS		
	CLEAR FRAME RAILS (EXCEPT AIR DRYER) OUTBOARD BOTH RAILS BACK OF CAB TO REAR SUSPENSION		

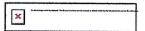
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	Description	Weight Front	Weight Rear	
Fuel Tanks				
	70 GALLON/264 LITER ALUMINUM FUEL TANK - LH	30		
	23 INCH DIAMETER FUEL TANK(S)			
	PLAIN ALUMINUM/PAINTED STEEL FUEL/HYDRAULIC TANK(S) WITH PAINTED BANDS			
	FUEL TANK(S) FORWARD			
	30 GALLONS ADDITIONAL FUEL			
	PLAIN STEP FINISH			
	FUEL TANK CAP(S)			
	DETROIT FUEL WATER SEPARATOR WITH WATER IN FUEL SENSOR, HAND PRIMER AND 12 VOLT PREHEATER"	-5		
	EQUIFLO INBOARD FUEL SYSTEM			
	HIGH TEMPERATURE REINFORCED NYLON FUEL LINE			
	FUEL COOLER MOUNTED LEFT HAND IN RAIL	10		
Tires				
	MICHELIN X WORKS Z 315/80R22.5 20 PLY RADIAL FRONT TIRES	100		
	MICHELIN X WORKS Z 315/80R22.5 20 PLY RADIAL REAR TIRES		400	
Hubs				
	CONMET PRESET PLUS PREMIUM IRON FRONT HUBS			
	CONMET PRESET PLUS PREMIUM IRON REAR HUBS			
Wheels				
	MAXION WHEELS 10041 22.5X9.00 10-HUB PILOT 5.25 INSET 5-HAND STEEL DISC FRONT WHEELS	66		
	MAXION WHEELS 10047 22.5X9.00 10-HUB PILOT 5-HAND STEEL DISC REAR WHEELS		184	
	FRONT WHEEL MOUNTING NUTS			
	REAR WHEEL MOUNTING NUTS			
Cab Exterior				
	106 INCH BBC FLAT ROOF ALUMINUM			
	CONVENTIONAL CAB			
	AIR CAB MOUNTING			
	LH AND RH GRAB HANDLES			

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	Description	Weight Front	Weight Rear	
	PAINTED PLASTIC GRILLE			
	ARGENT SILVER HOOD MOUNTED AIR INTAKE GRILLE			
	FIBERGLASS HOOD			
	SINGLE 14 INCH ROUND POLISHED AIR HORN ROOF MOUNTED	4		
	SINGLE ELECTRIC HORN			
	SINGLE HORN SHIELD			
	REAR LICENSE PLATE MOUNT END OF FRAME			
	INTEGRAL HEADLIGHT/MARKER ASSEMBLY			
	(5) AMBER MARKER LIGHTS			
	INTEGRAL STOP/TAIL/BACKUP LIGHTS			
	STANDARD FRONT TURN SIGNAL LAMPS			
	DUAL WEST COAST BRIGHT FINISH HEATED MIRRORS WITH LH AND RH REMOTE			
	DOOR MOUNTED MIRRORS			
	102 INCH EQUIPMENT WIDTH			
	LH AND RH 8 INCH BRIGHT FINISH CONVEX MIRRORS MOUNTED UNDER PRIMARY MIRRORS			
	RH AND LH 8 INCH STAINLESS STEEL FENDER MOUNTED CONVEX MIRRORS WITH TRIPOD BRACKETS	8		
	STANDARD SIDE/REAR REFLECTORS			
	63X14 INCH TINTED REAR WINDOW			
	TINTED DOOR GLASS LH AND RH WITH TINTED NON-OPERATING WING WINDOWS			
	MANUAL DOOR WINDOW REGULATORS			
	1-PIECE SOLAR GREEN GLASS WINDSHELD			
	2 GALLON WINDSHIELD WASHER RESERVOIR WITHOUT FLUID LEVEL INDICATOR, FRAME MOUNTED			
CONTRACTOR AND AND ASSESSMENT OF A STATE OF				

Cab Interior

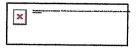
OPAL GRAY CLOTH INTERIOR

MOLDED PLASTIC DOOR PANEL WITHOUT VINYL INSERT WITH ALUMINUM KICKPLATE LOWER DOOR

MOLDED PLASTIC DOOR PANEL WITHOUT VINYL INSERT WITH ALUMINUM KICKPLATE LOWER DOOR

BLACK MATS WITH SINGLE INSULATION

Schlieburg wards Agent No Broken word, wond, a shield his fact he gasts in soon in street,



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Description	Weight Front	Weight Rear	
FORWARD ROOF MOUNTED CONSOLE WITH UPPER STORAGE COMPARTMENTS WITHOUT NETTING			
IN DASH STORAGE BIN			
(2) CUP HOLDERS LH AND RH DASH			
GRAY/CHARCOAL FLAT DASH			
5 LB. FIRE EXTINGUISHER	10		
HEATER, DEFROSTER AND AIR CONDITIONER			
STANDARD HVAC DUCTING			
MAIN HVAC CONTROLS WITH RECIRCULATION SWITCH			
STANDARD HEATER PLUMBING WITH BALL SHUTOFF VALVES			
VALEO HEAVY DUTY A/C REFRIGERANT COMPRESSOR			
BINARY CONTROL, R-134A			
STANDARD INSULATION			
SOLID-STATE CIRCUIT PROTECTION AND FUSES			
12V NEGATIVE GROUND ELECTRICAL SYSTEM			
DOME LIGHT WITH 3-WAY SWITCH ACTIVATED BY LH AND RH DOORS			
DOOR LOCKS AND IGNITION SWITCH KEYED THE SAME			
KEY QUANTITY OF 2			
CAB DOOR LATCHES WITH MANUAL DOOR LOCKS			
(1) 12 VOLT POWER SUPPLY IN DASH			
TRIANGULAR REFLECTORS WITHOUT FLARES	10		
BASIC ISRINGHAUSEN HIGH BACK AIR SUSPENSION DRIVERS SEAT WTIH MECHANICAL LUMBAR AND INTEGRATED CUSHION EXTENSION	30		
BASIC ISRINGHAUSEN HIGH BACK AIR SUSPENSION PASSENGER SEAT WTIH MECHANICAL LUMBAR AND INTEGRATED CUSHION EXTENSION	25	10	
LH AND RH INTEGRAL DOOR PANEL ARMRESTS			
VINYL WITH VINYL INSERT DRIVER SEAT			
VINYL WITH VINYL INSERT PASSENGER SEAT			
HIGH VISIBILITY ORANGE SEAT BELTS			
ADJUSTABLE TILT AND TELESCOPING STEERING COLUMN	10		





Description

Weight Front Weight Rear

4-SPOKE 18 INCH (450MM) STEERING WHEEL DRIVER AND PASSENGER INTERIOR SUN VISORS

Instruments & Controls

GRAY DRIVER INSTRUMENT PANEL

GRAY CENTER INSTRUMENT PANEL

ENGINE REMOTE INTERFACE WITH PARK BRAKE AND NEUTRAL INTERLOCKS

BLACK GAUGE BEZELS

LOW AIR PRESSURE INDICATOR LIGHT AND AUDIBLE ALARM

2 INCH PRIMARY AND SECONDARY AIR PRESSURE GAUGES

INTAKE MOUNTED AIR RESTRICTION INDICATOR WITHOUT GRADUATIONS

ELECTRONIC CRUISE CONTROL WITH

SWITCHES IN LH SWITCH PANEL
KEY OPERATED IGNITION SWITCH AND
INTEGRAL START POSITION; 4 POSITION

ICU3S, 132X48 DISPLAY WITH DIAGNOSTICS, 28 LED WARNING LAMPS AND DATA LINKED

HEAVY DUTY ONBOARD DIAGNOSTICS INTERFACE CONNECTOR LOCATED BELOW LH DASH

2 INCH ELECTRIC FUEL GAUGE

OFF/RUN/START/ACCESSORY

ENGINE REMOTE INTERFACE WITH INCREMENT/DECREMENT

ENGINE REMOTE INTERFACE CONNECTOR AT BACK OF CAB

ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE

TRANSMISSION OIL TEMPERATURE INDICATOR LIGHT

ENGINE AND TRIP HOUR METERS INTEGRAL WITHIN DRIVER DISPLAY

CUSTOMER FURNISHED AND INSTALLED PTO CONTROLS

NO DR ASSIST SYSTEM

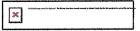
ELECTRIC ENGINE OIL PRESSURE GAUGE

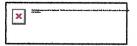
NO OVERHEAD INSTRUMENT PANEL

AM/FM/WB WORLD TUNER RADIO WITH AUXILIARY INPUT, J1939

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Description

Weight Front Weight Rear

DASH MOUNTED RADIO

(2) RADIO SPEAKERS IN CAB

AM/FM ANTENNA MOUNTED ON FORWARD LH ROOF

ELECTRONIC MPH SPEEDOMETER WITH SECONDARY KPH SCALE, WITHOUT ODOMETER

STANDARD VEHICLE SPEED SENSOR

ELECTRONIC 3000 RPM TACHOMETER

IDLE LIMITER, ELECTRONIC ENGINE

(2) OVERHEAD MOUNTED LANYARD CONTROLS: (1) OFFICER AIR HORN AND (1) DRIVER AIR HORN

WORK BRAKE WITH RETURN TO GEAR, AUTO NEUTRAL, FOR DRIVE AXLE SERVICE BRAKES

DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY

SINGLE ELECTRIC WINDSHIELD WIPER MOTOR WITH DELAY

MARKER LIGHT SWITCH INTEGRAL WITH HEADLIGHT SWITCH

ONE VALVE PARKING BRAKE SYSTEM WITH DASH VALVE CONTROL AUTONEUTRAL AND WARNING INDICATOR

SELF CANCELING TURN SIGNAL SWITCH WITH DIMMER, WASHER/WIPER AND HAZARD IN HANDLE

INTEGRAL ELECTRONIC TURN SIGNAL FLASHER WITH HAZARD LAMPS OVERRIDING STOP LAMPS

Design

PAINT: ONE SOLID COLOR

Color

CAB COLOR A: L0006EY WHITE ELITE EY BLACK, HIGH SOLIDS POLYURETHANE CHASSIS PAINT

POWDER WHITE (N0006EA) FRONT WHEELS/RIMS (PKWHT21, TKWHT21, W, TW)

POWDER WHITE (N0006EA) REAR

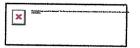
WHEELS/RIMS (PKWHT21, TKWHT21, W, TW) BUMPER PAINT: FP24812 ARGENT SILVER

DUPONT FLEX

STANDARD E COAT/UNDERCOATING

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Description

Weight Front Weight Rear

Certification / Compliance

U.S. FMVSS CERTIFICATION, EXCEPT SALES CABS AND GLIDER KITS

Secondary Factory Options

SHIP TO FONTAINE (MOUNT HOLLY, NC) PRIOR TO DELIVERY

Sales Programs

NO SALES PROGRAMS HAVE BEEN SELECTED

TOTAL VEHICLE SUMMARY

Weight Summary			
	Weight Front	Weight Rear	Total Weight
Factory Weight ⁺	8056 lbs	8464 lbs	16520 lbs
Total Weight ⁺	8056 lbs	8464 lbs	16520 lbs

Extended Warranty

TOWING: 1 YEAR/UNLIMITED MILES/KM EXTENDED TOWING COVERAGE \$750 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.

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