



11 MONROE DRIVE
PELHAM, AL 35124
800.749.2783

CUSTOMER:	HUMPHREYS COUNTY MISSISSIPPI	PREPARED BY:	INGRAM EQUIPMENT COMPANY, LLC
CONTACT:		SALESMAN:	JEFF MARTIN
PHONE/EMAIL:		QUOTE NO.:	PD9128
CITY, STATE:	BELZONI, MISSISSIPPI		
DATE:	10/28/21	Quote Expires in 30 Days	

QTY.	DESCRIPTION		
1	HEIL-PT1000 20CY REAR LOADER		
	INSTALLATION		
	REMOTE MOUNT GEAR PUMP		
	HOT SHIFT PTO W/OS PROTECTION		
	HOPPER WORK LIGHT - IN CAB SWITCH		
	MULTI-FUNCTION "SMART" LIGHTS - TAILGATE		
	DUAL TAILGATE BUZZERS		
	DUAL BAYNE MBTL180 CART TIPPERS		
	MUD FLAPS AHEAD OF REAR TIRES		
	MUD FLAPS BEHIND REAR TIRES		
	REAR VISION CAMERA SYSTEM		
	3 YEAR BODY WARRANTY		
	3 YEAR BODY WARRANTY		
1	2022 FREIGHTLINER M2-106 1FVACXFE5NHNA9792		
	5YR/150K ENGINE & AT WARRANTY		
	5YR/UNLIMITED TRANSMISSION WARRANTY		
	PAINT: WHITE		
	UNIT IN PRODUCTION - ETA DECEMBER 2021		
	SUBJECT TO PRIOR SALE		

Subtotal A: \$ 172,175.00

B. FREIGHT/DELIVERY

F.O.B. POINT: BELZONI, MS

INCLUDED

Subtotal B: \$ -

C. Discounts/Credits (Trade-In, etc.)

Subtotal C: \$ -

Total Each: \$ 172,175.00

Quantity: 1

TOTAL NET DELIVERED \$ 172,175.00

Customer Signature:

Comments:

Customer PO #

Terms:

Net at Delivery

Date:



11 MONROE DRIVE
PELHAM, AL 35124
800.749.2783

October 29, 2021

Humphreys County Mississippi
P.O. Box 547
Belzoni, Mississippi

RE: Trade-In Offer – Heil PT1000 on 2022 Freightliner

Dear Gentlemen:

Ingram Equipment Company, LLC ("Ingram") hereby offers a trade-in value of **\$90,120.00 (Ninety Thousand, One Hundred Twenty and 00/100 Dollars)** for the rear loader garbage truck as identified on **Quote Number PD9128**.

Notwithstanding the foregoing, Ingram's offer is contingent upon the return of the Equipment by the Humphreys County, Mississippi, at the time of new equipment purchase from Ingram Equipment, in full and complete satisfaction of and compliance with all of the "Equipment Trade-In Terms, Conditions and Limitations" which are attached to this letter. This offer is good up to **three (3) years** after purchase of quoted equipment.

Thank you very much.

Sincerely,

Ingram Equipment Company, LLC

By: Jeff Martin
President

Trade-In Equipment Terms, Conditions & Limitations

At the time a vehicle is turned in, it must be capable of passing any applicable state and federal safety and emissions inspection. It must also meet or exceed the following Terms and Conditions. These requirements have been carefully defined to establish the operating condition of a used truck, as agreed to by both the seller and the buyer.

General

1. The purchaser reserves the right to inspect the vehicle prior to the trade-in date.
2. All standard and optional equipment, on or in truck chassis, must be in good working order, must be roadworthy, and must be on the truck as delivered.
3. Truck must pass DOT inspection and be able to go in service without any repairs.
4. Any unit that has been wrecked and sustained damages greater than 15% of the original contract price must be disclosed. **The purchaser reserves the right to reject any and all units that have not been repaired in accordance with acceptable standards or workmanship.**
5. Units (including bodies) must be maintained in accordance to the original manufacturer's published maintenance requirements. At the sole discretion of Ingram Equipment Co., LLC., proof of maintenance may be required before unit turn-in.
6. Vehicles must have a minimum of twenty (20) gallons of fuel at turn-in time.

Documents

1. A current Federal Annual and State (if applicable) inspection sticker valid for at least 120 days after the date of return must be on vehicle at time of delivery.
2. Payment for the truck will not be made until Ingram Equipment Company, LLC receives clear title/ownership. Truck must be free and clear of all liens and encumbrances.

Engine

1. Engine must be the original engine produced in the truck. If the engine has been replaced, owner must identify it as such and valuation may be altered based on engine age, mileage and other factors.
2. Engine must operate at a minimum of 80% of the original manufacturer's rated horsepower after allowing for driveline losses and as verified by a chassis dynamometer test.
3. Engine must be mechanically sound and within the manufacturer's specifications relating to oil pressure, coolant temperature and pressure and fuel pressure. Engine must have no leaks and be free from contamination. Crankcase blow-by must be within specification. Engine password must be cleared.
4. Engine air compressor must meet the manufacturer's performance specifications and must not exceed the manufacturer's maximum tolerances for oil blow-by (oil blown into the air system).
5. Batteries, starter, alternator and other ignition system components must be in sound condition. Batteries must be original CCA rating, capable of holding a charge and start the truck unassisted.
6. Air conditioning compressor must be operational and system must be free from defects and operate as intended.

Drivetrain

1. Clutch, Transmission, front and rear axles must be roadworthy and free from defects with no visible bends, cracks or leaks.
2. The clutch must be in adjustment or must be replaced if it cannot be adjusted to within acceptable tolerances.
3. Allison automatic transmission must shift smoothly and operate as originally intended.

Trade-In Equipment Terms, Conditions & Limitations

Brakes

1. Brake linings must have at least 50% remaining wear. Brake drums must be free from breaks or cracks and cannot be worn in excess.

Tires

1. Steer: Matched original equipment tread type tires. Minimum 9/32" tread depth measured at the lowest point. Recaps are not acceptable.
2. Drive: Matched original equipment tread type tires. Minimum 12/32" tread depth measured at the lowest point. Recaps are acceptable – must be first time recapped casings
3. All tires must be free from cuts, bulges, gouges and have no irregular tread wear pattern, such as dishing, cupping, edging, feathering, etc.

Cab / Bodies and Equipment

1. Paint and/or body damage must not exceed \$500.00 total per unit, including, but not limited to, the sheet metal, bumper, grill, fuel tanks, fairings, dents, rust damage, etc, etc.
2. All decals, permits, unit numbers and any other customer installed identification must be removed and done so in a manner as to not damage the original paint. Any damage resulting from de-identifying the truck must be repaired.
3. Upholstery must be free from tears or open seams. Tears, open seams, holes and punctures must be repaired.
4. All glass shall be free from cracks, chips and scratches.
5. Dash panel and interior trim pieces must not be missing and must be free from holes, cracks and/or breaks.
6. All instruments, gauges, warning lights, radio, switches and knobs must be free from defect and operate as originally intended.
7. Bodies such as dump, refuse, flatbed, etc must be free from defects and perform as originally designed for by the manufacturer.
8. There shall be no leaks of the hydraulic system.
9. Any repairs performed on body, including its hydraulic system, must be made with original equipment parts.



Ingram Equipment Company, since 1979, is a family owned and operated company. We are your Environmental Equipment Experts!

Our Core Values: Teamwork, Integrity, Excellence, Proactive Hard Work, Service, Win/Win Transactions, Positive Attitude, Social Responsibility.

80% of equipment failures can be prevented by better maintenance procedures.

Service Agreement – Body Inspection for Rear Loaders – 90 Day Cycle

Each service:

- Complete exterior inspection of body & internal weldments.
- Function test battery disconnect switch.
- Inspect battery box condition, mounting brackets, hold-downs, terminals, cables and fluid levels.
- Inspect condition of body props & alarms.
- Inspect all safety switches & adjust as needed.
- Inspect condition of handles, steps & ladders.
- Inspect & adjust control linkage as needed.
- Grease entire unit with special attention to weldments & tracks.
- Replace grease fittings as needed.
- Inspect for abnormal wear to pins, bushings & wear pads.
- Inspect cylinders for leaks & rod end damage.
- Inspect all steel lines & hoses for wear, leaks & to ensure proper routing and clamps.
- Inspect operation of all lights & electrical functions.
- Inspect wiring harness for damage.
- Inspect tailgate seal.
- Inspect reeving cylinder system (if applicable).
- Inspect the operation of tailgate locks.
- Inspect body mounts.
- Inspect the operation of all valves, blocks and tippers (if applicable).
- Check for proper detent, pressures and overall cycle times.
- Inspect operation of pump & PTO.
- Reset all pressures as needed.
- Check chassis coolant levels, inspect engine compartment and drivetrain for leaks.
- Inspect for correct operation of all chassis lights.
- Inspect condition of hydraulic fluid & sight glass.
- Every 90-days install new hydraulic filter. "OIL SAMPLE TAKEN".
- Every 6-months install new tailgate seal.
- Every 12-months install new hydraulic fluid, filters & sight glass.

Cost: \$3,495.00 per unit, per year (does not include travel costs). ACCEPTED: _____

Please note: Our team will address any warranty issues on your behalf within the guidelines of your warranty terms. Additionally, any damaged and/or worn parts will be addressed and quoted for immediate repair. Approval will be needed to any additional repair work that is not part of this Service Agreement.

HUMPHREYS COUNTY MISSISSIPPI

20 CUBIC YARD REAR LOADING REFUSE COLLECTION TRUCK

**BIDDER SHALL COMPLETE BY CHECKING THE FOLLOWING.
IF NOT COMPLIANT, STATE SPECIFICALLY ITEM BEING OFFERED.**

YES NO COMPLY

Body sides shall be minimum 10 gauge high tensile sheet, 50,000 PSI minimum yield steel.

☒ YES ☐ NO _____

Body perimeter side bolsters shall be 6.38" wide x 10 gauge high tensile, 50,000 PSI minimum yield steel boxed shaped formed channels at the front and 13.25" wide x 10 gauge high tensile 50,000 PSI minimum yield steel at the rear. Reinforcement braces shall be full welded to the body side sheets. Unit must be supplied with vertical body side bracing at both the front and rear corners.

☒ YES ☐ NO _____

The body shall have a street side access door to allow entrance to body for service. Door is to have a minimum dimension of 34" x 34". Door to be equipped with a safety interlock to shut down pump when open.

☒ YES ☐ NO without sidedoor interlock

Body floor shall be minimum 10 gauge high tensile 50,000 PSI minimum yield steel.

☒ YES ☐ NO _____

Floor longitudinal long members shall be minimum 8 gauge 50,000 PSI minimum yield formed channels.

☒ YES ☐ NO _____

Floor cross members shall be boxed shaped 5" x 4" x 10 gauge, high tensile 50,000 PSI yield steel. Cross members will be interlaced through the long members on approximately 26" centers to fully support the floor. Cross members shall be single piece full width. **No Exception**

☒ YES ☐ NO _____

TAILGATE DIMENSIONS

Maximum overall width at the hopper opening shall be 85-1/2" outside to outside hopper bolsters.

☒ YES ☐ NO _____

Inside tailgate loading width shall be minimum of 80

☒ YES ☐ NO _____

Hopper opening height shall be minimum of 68"

☒ YES ☐ NO _____

Overall height above the chassis frame with the tailgate raised shall not exceed 165".

☒ YES ☐ NO _____

TAILGATE CONSTRUCTION

Tailgate sides shall be 10 gauge 50,000 PSI minimum yield steel and include an 11 gauge, 400 BHN 145,000 PSI yield overlay.

☒ YES ☐ NO _____

Tailgate side reinforcement shall consist of 2.5" x 5" formed channels and fully welded to the rear perimeter edge of the tailgate side sheets. An interlaced network of 2.5" x 5" and 2" x 5" formed 11 gauge hi-tensile channels plus an 2.25" x 8" x 0.25" hi-tensile channel shall be fully welded to the tailgate sides for superior structural support.

☒ YES ☐ NO _____

Hopper floor shall be minimum 3/16" AR400 abrasion resistant plate steel with typical 184,000 PSI tensile strength and 145,000 PSI yield strength.

☒ YES ☐ NO _____

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REFUSE COLLECTION TRUCK

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YES NO COMPLY

Inner slide shall be mounted to the tailgate hinge structure with two (2), 1.5" diameter chrome plated, stress proof steel pins. The same pins shall support the base ends of the slide cylinders. Four (4) bearing bars shall be bolted to the upper and lower surfaces of the guide tubes, which interface with the outer slide.

☒ ☐ _____

Outer slide shall be pulled over the inner slide by two (2) double acting, 4.5" bore x 2.0" rod x 26.5" stroke cushioned hydraulic cylinders. Abrasion resistant steel wear bars shall make contact with inner slide bearings to provide smooth linear movement.

☒ ☐ _____

The packing blade shall be mounted to the outer slide with two (2), 2.25" diameter, induction hardened C1045 cold drawn steel pins. The blade shall be constructed with 3/16", 150,000 PSI yield strength steel. Two (2) double acting, 4" bore x 2.5" rod x 21.62" stroke, cushioned hydraulic cylinders this shall exert a packing force of 70,100 pounds on the refuse. The resultant packing face pressure shall be a minimum of 30.2 PSI.

☒ ☐ _____

Linear movement of the packing blade shall be accomplished with solid cast bronze alloy blade shoes. Rollers shall not be used. The 9" x 2" shoes shall ride in a track integral to the tailgate sides. Pivotal movement of the blade shall be around 2.25" diameter induction hardened C1045 cold drawn steel pins retained in the packing blade. The pins shall be located such that release from bearing load shall be accomplished from outside of the tailgate. Pin retrieval and replacement shall be accomplished from inside the tailgate.

☒ ☐ _____

All packing mechanism cylinders shall be within the confines of the tailgate shell to avoid hose damage from limbs and to protect the operator from contact.

☒ ☐ _____

Each hopper full of material shall be compressed between the packing blade and ejector panel. The ejector shall be automatically advanced by a relief valve. No operator attention shall be required to advance the ejector panel.

☒ ☐ _____

The packing mechanism shall be equipped with an "automatic crowd" pressure sensing device, which will enable the packing mechanism to find a path through the load which will neither stall the mechanism nor damage the structure thereby prolonging the hopper floor and mechanism life.

☒ ☐ _____

DISHCHARGE OF LOAD

The load shall be discharged by means of a positive ejection system. A double acting, telescopic hydraulic cylinder (4 stage, 6.5" bore, 110.12" stroke) shall extend and retract the ejector panel the full length of the body.

☒ ☐ _____

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YES NO COMPLY

The hydraulic system shall incorporate adjustable relief valves to protect all components from excessive pressure and overloads.

☒ ☐ _____

All roof mounted hydraulic tubes shall be securely clamped to prevent vibration, abrasion, and excessive noise.

☒ ☐ _____

All hydraulic hoses shall conform to S.A.E. standards for designed pressure. Bends shall not be less than recommended by S.A.E. standards. Flat spots in hoses are not acceptable.

☒ ☐ _____

The hydraulic oil reservoir shall have a gross capacity of 45 gallons and a useable capacity of 35 gallons when filled with hydraulic fluid.

☒ ☐ _____

The tank shall be complete with a screened fill pipe and cap, filter breather, clean out cover, a 2" suction line cut off, and a level/temperature sight gauge.

☒ ☐ _____

A ten (10) micron return line filter shall protect the hydraulic system.

☒ ☐ _____

All multi-spool control valves shall be of a sectional design such that servicing would not require replacement of the entire valve assembly.

☒ ☐ _____

HYDRAULIC CYLINDERS

All cylinders must have a working pressure of 2750 PSI.

☒ ☐ _____

Packing and slide cylinders must be of the internal cushion design so that hydraulic shock and audible noise is minimized. This shall be accomplished by a design which will decrease the speed of the cylinder for the last one-half (.5") inch of cylinder stroke on both directions of travel.

☒ ☐ _____

Rods of packing and slide cylinders must be induction hardened to a surface hardness of 55-65 Rockwell C scale and shall be chrome plated.

☒ ☐ _____

All rod end pin lugs shall be inertia welded to the cylinder rods.

☒ ☐ _____

ELECTRICAL

All electrical wiring connectors to be automotive double-seal, with wiring in split convoluted loom.

☒ ☐ _____

All wiring connections to be soldered with rubber-molded covering or crimp type connectors with shrink-wrap. Unprotected wiring in any application is unacceptable.

☒ ☐ _____

All electrical limit switches shall be epoxy impregnated to minimize effects of excess moisture.

☒ ☐ _____

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YES NO COMPLY

ENGINE & EQUIPMENT

300 HP Diesel engine	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
860 lb/ft Torque @ 1300 RPM	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Engine mounted oil check and fill	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Side of hood air intake with firewall mounted Donaldson air cleaner	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
DR 12V 160 AMP 28-SI quadramount pad alternator with remote battery volt sense	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Two (2) Alliance Model 1131, Group 31, 12 Volt maintenance free 1850 CCA threaded stud batteries	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>2000 CCA</u>
Single battery box frame mounted LH side under cab	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Positive load disconnects with cab mounted control switch mounted outboard driver seat	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
18.7 CFM air compressor with internal safety valve	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Electronic engine integral shutdown protection system	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Exhaust brake integral with variable geometry turbo with on/off dash switch	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
RH outboard under step mounted horizontal aftertreatment system assembly with RH B-Pillar mounted vertical tailpipe	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Engine aftertreatment device, automatic over the road regeneration and dash mounted regeneration request switch	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
11' 6" Exhaust system height	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
11 Gallon diesel exhaust fluid tank	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>legal</u>
Aluminum aftertreatment device/muffler/tailpipe shield(s)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
On/off fan drive	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Automatic fan control without dash switch, non engine mounted	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Spin on fuel filter	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
1000 Square Inch aluminum radiator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>900 sq in</u>
1000 Watt/115 Volt block heater	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Aluminum flywheel housing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

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YES NO COMPLY

6.14 Rear axle ratio	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
MXL 17T Meritor extended lube main driveline with half round yokes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Driver controlled traction differential – single rear axle	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Meritor 16.5"x7" Q+ Cam rear brakes, double anchor, fabricated shoes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Rear brake dust shields	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Rear oil seals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Haldex Goldseal Longstroke HD 30/36 1-drive axle spring parking chambers	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Wabco Tristop
Automatic rear slack adjusters	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Synthetic 75W-90 front axle lube	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
26,000 lb. Flat leaf spring rear suspension with helper and radius rod	<input checked="" type="checkbox"/>	<input type="checkbox"/>	30,000 lb.
Fore/Aft control rods	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
BRAKE SYSTEM			
Air brake package	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Wabco 4S/4M ABS without traction control	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
BW AD-9 Brake line air dryer with heater	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Wabco system saver
Steel air brake reservoirs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Pull cables on all air reservoirs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
FRAME & EQUIPMENT			
207" WB, 132"-140" CA, 61" – 71" AF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
11/32" x 3 1/2" x 10-15/16" Steel frame, 120,000 PSI yield steel	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Three-piece 14" painted steel bumper with flexible plastic ends	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Front tow hooks – frame mounted	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Fender and front of hood mounted front mud flaps	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
75 Gallon rectangular aluminum fuel tank – LH	<input checked="" type="checkbox"/>	<input type="checkbox"/>	80 gallon

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YES NO COMPLY

Two (2) man tool box, mid-back non-suspension passenger seat

☒ ☐ _____

Adjustable tilt & telescoping steering column

☒ ☐ _____

INSTRUMENTS & CONTROLS

Wood grain driver & center instrument panels

☒ ☐ _____

Low air pressure light and buzzer

☒ ☐ _____

Primary and secondary air pressure gauges

☒ ☐ _____

Intake mounted air restriction indicator without graduations

☒ ☐ _____

Electronic cruise control with switches in LH switch panel

☒ ☐ _____

Odometer/Trip/Hour/Diagnostic/Voltage Display

☒ ☐ _____

Diagnostic interface connector, 9 Pin, below dash

☒ ☐ _____

Electric fuel gauge

☒ ☐ _____

Electrical engine coolant temperature gauge

☒ ☐ _____

Transmission oil temperature gauge

☒ ☐ _____

Engine and trip hour meters integral within driver display

☒ ☐ _____

Electric engine oil pressure gauge

☒ ☐ _____

AM/FM/WB Radio with front auxiliary input

☒ ☐ _____

PAINT

Color: white

☒ ☐ _____

Smarter By Design, With Loyalty Built In

The PT1000 was specifically designed to maximize your efficiency on daily collection routes.



Performance Specifications

Compaction	Up to 800 lbs. per yd ³
Hopper Size	3.0 yd ³
Packing Cycle Time	15-17 seconds
Reload Time	6-8 seconds
FET Exempt	13 yd ³ , 16 yd ³ , 18 yd ³ & 20 yd ³

All weights, specifications, and components are subject to change. All the regulations, side discharges, and any other special options. Body included here is for the standard purposes only and will not include the standard suitability of use and for any other purposes. All specifications may vary with the conditions specified. The only warranty is our 100% satisfaction warranty. We warrant for the first year of the life of the product.

Hydraulic Specifications

PUMP	
Type	High pressure gear
Maximum Operating Pressure	2,750 psi
GPM	48 GPM
OIL RESERVOIR	
Tank Capacity (net)	45 gallons (170.3 liters)
Filters	3 micron return filter, 140 micron suction line
VALVES	
Shutoff	Ball type
Packing Control	Spool type
Ejector and Tailgate Raise	Spool type

Tailgate Specifications

	18 yd ³ & 20 yd ³			25 yd ³
	yd ³	3	3	3
Hopper Capacity	m ³	2.3	2.3	2.3
Sill Height Below Chassis Frame ⁽¹⁾	in.	0.5	3.5	3.5
	mm	12.7	88.9	88.9
	in.	80	80	80
Hopper Loading Width	mm	2,032	2,032	2,032
Hopper Opening Height	in.	67	67	67
	mm	1,700	1,700	1,700
	complete	15-17	15-17	15-17
Cycle Time (seconds)	reload	5-6	5-6	5-6

PT1000 Specifications

Typical Chassis Configuration		13 yd ³	16 yd ³	18 yd ³	20 yd ³	25 yd ³
Minimum GVWR ⁽¹⁾	front	29,000	30,000	30,000	33,000	48,000
	rear	9,000	9,000	9,000	10,000	14,000
Minimum GAWR	in.	20,000	21,000	21,000 ⁽²⁾	23,000 ⁽²⁾	34,000
	mm	96	102-110	117-125	132-140	N/A
Usable CA	in.	2,440	2,590-2,790	2,972-3,175	3,353-3,556	N/A
	mm	N/A	N/A	N/A	114-120	146-154
Usable CT	in.	N/A	N/A	N/A	2,896-3,048	3,734-3,886
	mm	N/A	N/A	N/A	32	51
Minimum Platform	in.	32	32	32	32	51
	mm	813	813	813	813	1,295

Any chassis sent to Heil Environmental with less than these minimum GVWR/GVARs will not be mounted.

(1) If CA/CT is not as recommended, contact Heil Environmental for applicable weight distribution and GVWR/GVAR requirements. (2) Require 30,000 lbs. spring package

Body Specifications

		13 yd ³	16 yd ³	18 yd ³	20 yd ³	25 yd ³
		yd ³	16	18	20	25
Body Capacity	m ³	9.93	12.23	13.76	15.28	19.11
	in.	189.25	206.75	220	234	269
Overall Length	mm	4,807	5,251	5,588	5,944	6,833
	in.	229.25	246.75	272	286	321
Overall Length With Tailgate Raised	mm	5,823	6,267	6,909	7,264	8,154
	in.	96	96	96	96	96
Overall Width	mm	2,438	2,438	2,438	2,438	2,438
	in.	94	94	94	94	94
Overall Height Above Frame	mm	2,388	2,388	2,388	2,388	2,388
	in.	162	162	162	162	162
Overall Height With Tailgate Raised	mm	4,115	4,115	4,115	4,115	4,115
	lbs.	10,350	10,800	11,100	11,400	12,300
Gross Weight (approximate)	kg.	4,899	4,899	5,035	5,170	5,580

Cylinder Specifications

Body Cylinders	Type	Model	Stages	Bore	
				in.	mm
Tailgate Raise	Single Acting	ALL	1	in.	3
				mm	76.2
Packer Sweep	Double Acting	ALL	1	in.	4
				mm	101.6
Upper Panel	Double Acting	ALL	1	in.	4.5
				mm	114.3
Ejection	Double Acting Telescopic	ALL	4	in.	6.5
				mm	165

Prepared for:
HEIL ENVIRONMENTAL BB
2030 HAMILTON PLACE BLVD
CHATTANOOGA, TN 37421
Phone: 423-899-9100



Q U O T A T I O N

M2 106 CONVENTIONAL CHASSIS

SET BACK AXLE - TRUCK
CUM L9 300 HP @ 2200 RPM; 2200 GOV RPM, 860 LB-FT
@ 1200 RPM
ALLISON 3500 RDS AUTOMATIC TRANSMISSION WITH
PTO PROVISION
RS-23-161 23,000# R-SERIES SINGLE REAR AXLE
30,000# FLAT LEAF SPRING REAR SUSPENSION WITH
HELPER AND RADIUS ROD

DETROIT DA-F-10.0-3 10,000# FF1 71.5 KPI/3.74 DROP
SINGLE FRONT AXLE
12,000# DUAL TAPERLEAF FRONT SUSPENSION
106 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL
CAB
5250MM (207 INCH) WHEELBASE
11/32X3-1/2X10-3/16 INCH STEEL FRAME
(8.73MMX258.8MM/0.344X10.19 INCH) 120KSI
1625MM (64 INCH) REAR FRAME OVERHANG

COMMENTS:

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

APPROVAL:

Please indicate your acceptance of this quotation by signing below:

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

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Prepared for:
 HEIL ENVIRONMENTAL BB
 2030 HAMILTON PLACE BLVD
 CHATTANOOGA, TN 37421
 Phone: 423-899-9100



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-23M	M2 PRL-23M (EFF:01/21/20)		
Data Version			
DRL-042	SPECPRO21 DATA RELEASE VER 042		
Interior Convenience/Driver Retention Package			
055-004	INTERIOR CONVENIENCE PACKAGE WITH CB PROVISION		
Vehicle Configuration			
001-172	M2 106 CONVENTIONAL CHASSIS	5,709	3,503
004-222	2022 MODEL YEAR SPECIFIED		
002-004	SET BACK AXLE - TRUCK		
019-002	STRAIGHT TRUCK PROVISION		
003-001	LH PRIMARY STEERING LOCATION		
General Service			
AA1-002	TRUCK CONFIGURATION		
AA6-001	DOMICILED, USA 50 STATES (INCLUDING CALIFORNIA AND CARB OPT-IN STATES)		
A85-001	REFUSE SERVICE		
A84-1SA	SANITATION BUSINESS SEGMENT		
AA4-013	MOIST BULK 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		
995-091	MEDIUM TRUCK WARRANTY		
A66-99D	EXPECTED FRONT AXLE(S) LOAD : 10000.0 lbs		
A68-99D	EXPECTED REAR DRIVE AXLE(S) LOAD : 23000.0 lbs		
A63-99D	EXPECTED GROSS VEHICLE WEIGHT CAPACITY : 33000.0 lbs		



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Data Code	Description	Weight Front	Weight Rear
Truck Service			
AA3-061	REFUSE, SIDE LOAD OR REAR PACKER BODY - UNLOADS IN A LANDFILL		
AF3-119	HEIL ENVIRONMENTAL		
AF7-99D	EXPECTED BODY/PAYLOAD CG HEIGHT ABOVE FRAME "XX" INCHES : 32.0 in		
Engine			
101-3BN	CUM L9 300 HP @ 2200 RPM; 2200 GOV RPM, 860 LB-FT @ 1200 RPM	640	30
Electronic Parameters			
79A-069	69 MPH ROAD SPEED LIMIT		
79B-000	CRUISE CONTROL SPEED LIMIT SAME AS ROAD SPEED LIMIT		
79K-007	PTO MODE ENGINE RPM LIMIT - 1100 RPM		
79M-001	PTO MODE BRAKE OVERRIDE - SERVICE BRAKE APPLIED		
79P-002	PTO RPM WITH CRUISE SET SWITCH - 700 RPM		
79Q-003	PTO RPM WITH CRUISE RESUME SWITCH - 800 RPM		
79S-001	PTO MODE CANCEL VEHICLE SPEED - 5 MPH		
79U-007	PTO GOVERNOR RAMP RATE - 250 RPM PER SECOND		
80G-002	PTO MINIMUM RPM - 700		
80J-002	REGEN INHIBIT SPEED THRESHOLD - 5 MPH		
Engine Equipment			
99C-021	2016 ONBOARD DIAGNOSTICS/2010 EPA/CARB/GHG21 CONFIGURATION		
99D-011	2008 CARB EMISSION CERTIFICATION - CLEAN IDLE (INCLUDES 6X4 INCH LABEL ON LOWER FORWARD CORNER OF DRIVER DOOR)		
13E-001	STANDARD OIL PAN		
105-001	ENGINE MOUNTED OIL CHECK AND FILL		
014-099	SIDE OF HOOD AIR INTAKE WITH FIREWALL MOUNTED DONALDSON AIR CLEANER		
124-1D7	DR 12V 160 AMP 28-SI QUADRAMOUNT PAD ALTERNATOR WITH REMOTE BATTERY VOLT SENSE		
292-235	(2) DTNA GENUINE, FLOODED STARTING, MIN 2000CCA, 370RC, THREADED STUD BATTERIES	10	
290-017	BATTERY BOX FRAME MOUNTED		
281-001	STANDARD BATTERY JUMPERS		
282-001	SINGLE BATTERY BOX FRAME MOUNTED LH SIDE UNDER CAB		



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291-017	WIRE GROUND RETURN FOR BATTERY CABLES WITH ADDITIONAL FRAME GROUND RETURN		
289-001	NON-POLISHED BATTERY BOX COVER		
87P-001	CAB AUXILIARY POWER CABLE	5	
293-058	POSITIVE LOAD DISCONNECT WITH CAB MOUNTED CONTROL SWITCH MOUNTED OUTBOARD DRIVER SEAT	8	
295-029	POSITIVE AND NEGATIVE POSTS FOR JUMPSTART LOCATED ON FRAME NEXT TO STARTER	2	
107-032	CUMMINS TURBOCHARGED 18.7 CFM AIR COMPRESSOR WITH INTERNAL SAFETY VALVE		
108-002	STANDARD MECHANICAL AIR COMPRESSOR GOVERNOR		
131-013	AIR COMPRESSOR DISCHARGE LINE		
152-041	ELECTRONIC ENGINE INTEGRAL SHUTDOWN PROTECTION SYSTEM		
128-076	CUMMINS ENGINE INTEGRAL BRAKE WITH VARIABLE GEOMETRY TURBO ON/OFF	20	
016-1C2	RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE	30	25
28F-002	ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD REGENERATION AND DASH MOUNTED REGENERATION REQUEST SWITCH		
239-038	11 FOOT 06 INCH (138 INCH+0/-5.9 INCH) EXHAUST SYSTEM HEIGHT		
237-1CR	RH CURVED VERTICAL TAILPIPE B-PILLAR MOUNTED ROUTED FROM STEP		
23U-001	6 GALLON DIESEL EXHAUST FLUID TANK		
30N-003	100 PERCENT DIESEL EXHAUST FLUID FILL		
43X-002	LH MEDIUM DUTY STANDARD DIESEL EXHAUST FLUID TANK LOCATION		
23Y-001	STANDARD DIESEL EXHAUST FLUID PUMP MOUNTING		
43Y-001	STANDARD DIESEL EXHAUST FLUID TANK CAP		
242-011	ALUMINUM AFTERTREATMENT DEVICE/MUFFLER/TAILOPIPE SHIELD(S)		
273-018	HORTON DRIVEMASTER ADVANTAGE ON/OFF FAN DRIVE		
276-001	AUTOMATIC FAN CONTROL WITHOUT DASH SWITCH, NON ENGINE MOUNTED		
110-003	CUMMINS SPIN ON FUEL FILTER		
118-008	COMBINATION FULL FLOW/BYPASS OIL FILTER		



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Data Code	Description	Weight Front	Weight Rear
120-009	FLEETGUARD PLAIN COOLANT FILTER		
266-101	900 SQUARE INCH ALUMINUM RADIATOR	15	
103-039	ANTIFREEZE TO -34F, OAT (NITRITE AND SILICATE FREE) EXTENDED LIFE COOLANT		
171-007	GATES BLUE STRIPE COOLANT HOSES OR EQUIVALENT		
172-001	CONSTANT TENSION HOSE CLAMPS FOR COOLANT HOSES		
270-016	RADIATOR DRAIN VALVE		
168-002	LOWER RADIATOR GUARD		
138-011	PHILLIPS-TEMRO 1000 WATT/115 VOLT BLOCK HEATER	4	
140-053	BLACK PLASTIC ENGINE HEATER RECEPTACLE MOUNTED UNDER LH DOOR		
134-001	ALUMINUM FLYWHEEL HOUSING		
132-004	ELECTRIC GRID AIR INTAKE WARMER		
155-058	DELCO 12V 38MT HD STARTER WITH INTEGRATED MAGNETIC SWITCH		

Transmission

342-584	ALLISON 3500 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION	200	60
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Transmission Equipment

343-312	ALLISON VOCATIONAL PACKAGE 142 - AVAILABLE ON 3000/4000 PRODUCT FAMILIES WITH VOCATIONAL MODEL RDS
84B-013	ALLISON VOCATIONAL RATING FOR REFUSE 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-005	1500 RPM PRIMARY MODE SHIFT SPEED
84H-005	1500 RPM SECONDARY MODE SHIFT SPEED
84J-000	ENGINE BRAKE RANGE PRESELECT RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE



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84K-000	ENGINE BRAKE RANGE ALTERNATE PRESELECT RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE		
84N-200	FUEL SENSE 2.0 DISABLED - PERFORMANCE - TABLE BASED		
84U-000	DRIVER SWITCH INPUT - DEFAULT - NO SWITCHES		
353-067	VEHICLE INTERFACE WIRING CONNECTOR WITH PDM AND BLUNT CUTS, AT BACK OF CAB		
34C-010	ELECTRONIC TRANSMISSION CUSTOMER ACCESS CONNECTOR, BLUNT CUT, MOUNTED BETWEEN DRIVER AND PASSENGER SEATS		
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		
370-015	WATER TO OIL TRANSMISSION COOLER, IN RADIATOR END TANK		
346-003	TRANSMISSION OIL CHECK AND FILL WITH ELECTRONIC OIL LEVEL CHECK		
35T-001	SYNTHETIC TRANSMISSION FLUID (TES-295 COMPLIANT)		

Front Axle and Equipment

400-1A5	DETROIT DA-F-10.0-3 10,000# FF1 71.5 KPI/3.74 DROP SINGLE FRONT AXLE	
402-049	MERITOR 16.5X5 Q+ CAST SPIDER CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES	
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	
408-004	CR STEEL VENTED FRONT HUB CAPS WITH WINDOW AND CENTER PLUG - OIL	
416-022	STANDARD SPINDLE NUTS FOR ALL AXLES	
405-002	MERITOR AUTOMATIC FRONT SLACK ADJUSTERS	
536-050	TRW THP-60 POWER STEERING	





Data Code	Description	Weight Front	Weight Rear
539-003	POWER STEERING PUMP		
534-015	2 QUART SEE THROUGH POWER STEERING RESERVOIR		
40T-002	CURRENT AVAILABLE SYNTHETIC 75W-90 FRONT AXLE LUBE		
Front Suspension			
620-1F0	12,000# DUAL TAPERLEAF FRONT SUSPENSION	42	
619-005	MAINTENANCE FREE RUBBER BUSHINGS - FRONT SUSPENSION		
410-001	FRONT SHOCK ABSORBERS		
Rear Axle and Equipment			
420-037	RS-23-161 23,000# R-SERIES SINGLE REAR AXLE		174
421-614	6.14 REAR AXLE RATIO		
424-001	IRON REAR AXLE CARRIER WITH STANDARD AXLE HOUSING		
386-073	MXL 17T MERITOR EXTENDED LUBE MAIN DRIVELINE WITH HALF ROUND YOKES	20	20
452-001	DRIVER CONTROLLED TRACTION DIFFERENTIAL - SINGLE REAR AXLE		20
878-018	(1) DRIVER CONTROLLED DIFFERENTIAL LOCK REAR VALVE FOR SINGLE DRIVE AXLE		
87B-005	BUZZER AND BLINKING LAMP WITH EACH MODE SWITCH, DIFFERENTIAL UNLOCK WITH IGNITION OFF, ACTIVE <5 MPH		
423-033	MERITOR 16.5X7 Q+ CAST SPIDER HEAVY DUTY CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES		
433-002	NON-ASBESTOS REAR BRAKE LINING		
434-012	BRAKE CAMS AND CHAMBERS ON REAR SIDE OF DRIVE AXLE(S)		
451-023	CONMET CAST IRON REAR BRAKE DRUMS		
425-002	REAR BRAKE DUST SHIELDS		5
440-006	REAR OIL SEALS		
426-100	WABCO TRISTOP D LONGSTROKE 1-DRIVE AXLE SPRING PARKING CHAMBERS		
428-002	MERITOR AUTOMATIC REAR SLACK ADJUSTERS		
41T-002	CURRENT AVAILABLE SYNTHETIC 75W-90 REAR AXLE LUBE		
Rear Suspension			
622-1DF	30,000# FLAT LEAF SPRING REAR SUSPENSION WITH HELPER AND RADIUS ROD		230
621-001	SPRING SUSPENSION - NO AXLE SPACERS		



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Data Code	Description	Weight Front	Weight Rear
431-001	STANDARD AXLE SEATS IN AXLE CLAMP GROUP		
623-005	FORE/AFT CONTROL RODS		
Brake System			
018-002	AIR BRAKE PACKAGE		
490-100	WABCO 4S/4M ABS		
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		
432-003	RELAY VALVE WITH 5-8 PSI CRACK PRESSURE, NO REAR PROPORTIONING VALVE		
480-088	WABCO SYSTEM SAVER HP WITH INTEGRAL AIR GOVERNOR AND HEATER		
479-012	AIR DRYER MOUNTED UNDER HOOD		
460-008	STEEL AIR BRAKE RESERVOIRS MOUNTED INSIDE RAIL		
477-004	PULL CABLES ON ALL AIR RESERVOIR(S)		
Trailer Connections			
335-004	UPGRADED CHASSIS MULTIPLEXING UNIT		
32A-002	UPGRADED BULKHEAD MULTIPLEXING UNIT		
Wheelbase & Frame			
545-525	5250MM (207 INCH) WHEELBASE		
546-100	11/32X3-1/2X10-3/16 INCH STEEL FRAME (8.73MMX258.8MM/0.344X10.19 INCH) 120KSI	150	80
552-018	1625MM (64 INCH) REAR FRAME OVERHANG		
55W-006	FRAME OVERHANG RANGE: 61 INCH TO 70 INCH		
AC8-99D	CALC'D BACK OF CAB TO REAR SUSP C/L (CA) : 141.14 in		
AE8-99D	CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA) : 138.14 in		
AE4-99D	CALC'D FRAME LENGTH - OVERALL : 309.67		
FSS-0LH	CALCULATED FRAME SPACE LH SIDE : 81.23 in		
FSS-0RH	CALCULATED FRAME SPACE RH SIDE : 127.19 in		
AM6-99D	CALC'D SPACE AVAILABLE FOR DECKPLATE : 141.45 in		
553-001	SQUARE END OF FRAME		





Data Code	Description	Weight Front	Weight Rear
550-001	FRONT CLOSING CROSSMEMBER		
559-001	STANDARD WEIGHT ENGINE CROSSMEMBER		
561-001	STANDARD CROSSMEMBER BACK OF TRANSMISSION		
562-001	STANDARD MIDSHIP #1 CROSSMEMBER(S)		
572-001	STANDARD REARMOST CROSSMEMBER		
565-001	STANDARD SUSPENSION CROSSMEMBER		
Chassis Equipment			
556-1AP	THREE-PIECE 14 INCH PAINTED STEEL BUMPER WITH COLLAPSIBLE ENDS	30	
558-001	FRONT TOW HOOKS - FRAME MOUNTED	15	
574-001	BUMPER MOUNTING FOR SINGLE LICENSE PLATE		
586-024	FENDER AND FRONT OF HOOD MOUNTED FRONT MUDFLAPS		
551-007	GRADE 8 THREADED HEX HEADED FRAME FASTENERS		
Fuel Tanks			
204-034	80 GALLON/302 LITER RECTANGULAR ALUMINUM FUEL TANK - LH	40	10
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)		
122-1H4	DETROIT FUEL/WATER SEPARATOR WITH WATER IN FUEL SENSOR AND 12 VOLT PREHEATER	-5	
216-020	EQUIFLO INBOARD FUEL SYSTEM		
202-016	HIGH TEMPERATURE REINFORCED NYLON FUEL LINE		
Tires			
093-1V4	CONTINENTAL HSR2 11R22.5 14 PLY RADIAL FRONT TIRES	16	
094-2F6	CONTINENTAL HDR2 11R22.5 14 PLY RADIAL REAR TIRES		92
Hubs			
418-060	CONMET PRESET PLUS PREMIUM IRON FRONT HUBS		
450-060	CONMET PRESET PLUS PREMIUM IRON REAR HUBS		



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Data Code	Description	Weight Front	Weight Rear
Wheels			
502-523	MAXION WHEELS 90262 22.5X8.25 10-HUB PILOT 6.19 INSET 5-HAND STEEL DISC FRONT WHEELS	18	
505-523	MAXION WHEELS 90262 22.5X8.25 10-HUB PILOT 5-HAND STEEL DISC REAR WHEELS		36
496-011	FRONT WHEEL MOUNTING NUTS		
497-011	REAR WHEEL MOUNTING NUTS		
Cab Exterior			
829-071	106 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB		
650-008	AIR CAB MOUNTING		
678-001	LH AND RH GRAB HANDLES		
646-023	HOOD MOUNTED CHROMED PLASTIC GRILLE		
65X-003	CHROME HOOD MOUNTED AIR INTAKE GRILLE		
644-004	FIBERGLASS HOOD		
727-1AF	SINGLE 14 INCH ROUND HADLEY AIR HORN UNDER LH DECK	4	
726-002	DUAL ELECTRIC HORNS		
728-001	SINGLE HORN SHIELD		
657-001	DOOR LOCKS AND IGNITION SWITCH KEYED THE SAME		
78G-002	KEY QUANTITY OF 2		
575-001	REAR LICENSE PLATE MOUNT END OF FRAME		
312-038	INTEGRAL HEADLIGHT/MARKER ASSEMBLY WITH CHROME BEZEL		
302-047	LED AERODYNAMIC MARKER LIGHTS		
311-001	DAYTIME RUNNING LIGHTS		
294-001	INTEGRAL STOP/TAIL/BACKUP LIGHTS		
300-015	STANDARD FRONT TURN SIGNAL LAMPS		
744-1BM	DUAL WEST COAST BRIGHT FINISH HEATED MIRRORS		
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		
74B-056	RH AND LH VELVAC 8 INCH BRIGHT FINISH HOOD MOUNTED CONVEX MIRRORS FOR LANE CHANGE WITH SWING ARM BRACKETS	8	
729-001	STANDARD SIDE/REAR REFLECTORS		
768-043	63X14 INCH TINTED REAR WINDOW		



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Data Code	Description	Weight Front	Weight Rear
661-003	TINTED DOOR GLASS LH AND RH WITH TINTED NON-OPERATING WING WINDOWS		
654-003	MANUAL DOOR WINDOW REGULATORS		
663-013	1-PIECE 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		
691-008	FORWARD ROOF MOUNTED CONSOLE WITH UPPER STORAGE COMPARTMENTS WITHOUT NETTING		
694-010	IN DASH STORAGE BIN		
742-007	(2) CUP HOLDERS LH AND RH DASH		
680-006	GRAY/CHARCOAL FLAT DASH		
860-004	SMART SWITCH EXPANSION MODULE		
720-003	5 LB. FIRE EXTINGUISHER	10	
700-002	HEATER, DEFROSTER AND AIR CONDITIONER		
701-001	STANDARD HVAC DUCTING		
703-005	MAIN HVAC CONTROLS WITH RECIRCULATION SWITCH		
170-019	STANDARD HEATER PLUMBING WITH BALL SHUTOFF VALVES		
130-041	VALEO HEAVY DUTY A/C REFRIGERANT COMPRESSOR		
702-002	BINARY CONTROL, R-134A		
739-033	STANDARD INSULATION		
285-013	SOLID-STATE CIRCUIT PROTECTION AND FUSES		
280-007	12V NEGATIVE GROUND ELECTRICAL SYSTEM		
324-1AJ	LH AND RH DOOR ACTIVATED DOME LIGHTS, DUAL READING LIGHTS AND LH AND RH DOOR MOUNTED COURTESY LIGHTS		
655-001	CAB DOOR LATCHES WITH MANUAL DOOR LOCKS		
284-023	(1) 12 VOLT POWER SUPPLY IN DASH		



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Data Code	Description	Weight Front	Weight Rear
722-002	TRIANGULAR REFLECTORS WITHOUT FLARES	10	
756-1J3	BASIC HIGH BACK AIR SUSPENSION DRIVER SEAT WITH MECHANICAL LUMBAR AND INTEGRATED CUSHION EXTENSION	30	
760-235	2 MAN TOOL BOX MID BACK NON SUSPENSION PASSENGER SEAT	20	
711-004	LH AND RH INTEGRAL DOOR PANEL ARMRESTS		
758-022	BLACK MORDURA CLOTH DRIVER SEAT COVER		
761-023	BLACK MORDURA CLOTH PASSENGER SEAT COVER		
763-101	BLACK SEAT BELTS		
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

732-003	WOODGRAIN DRIVER INSTRUMENT PANEL		
734-003	WOODGRAIN CENTER INSTRUMENT PANEL		
87L-005	ENGINE REMOTE INTERFACE WITHOUT INTERLOCKS		
870-001	BLACK GAUGE BEZELS		
486-001	LOW AIR PRESSURE INDICATOR LIGHT AND AUDIBLE ALARM		
840-002	2 INCH PRIMARY AND SECONDARY AIR PRESSURE GAUGES		
198-025	INTAKE MOUNTED AIR RESTRICTION INDICATOR WITHOUT GRADUATIONS		
721-001	97 DB 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		
148-070	ENGINE REMOTE INTERFACE WITH PRESET FAST IDLE		
163-013	ENGINE REMOTE INTERFACE CONNECTOR IN CAB BETWEEN DRIVER AND PASSENGER SEATS		



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Data Code	Description	Weight Front	Weight Rear
33U-012	TMC RP170 INTERFACE CONNECTOR		
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		
746-115	AM/FM/WB WORLD TUNER RADIO WITH BLUETOOTH AND 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		
749-016	CB WIRING ONLY TO ROOF/OVERHEAD CONSOLE; NO MOUNTING PROVISION		
752-017	MULTI-BAND AM/FM/WB/CB LH MIRROR MOUNTED ANTENNA SYSTEM	2	
810-027	ELECTRONIC MPH SPEEDOMETER WITH SECONDARY KPH SCALE, WITHOUT ODOMETER		
817-001	STANDARD VEHICLE SPEED SENSOR		
812-001	ELECTRONIC 3000 RPM TACHOMETER		
162-011	IDLE LIMITER, ELECTRONIC ENGINE		
81Y-001	PRE-TRIP LAMP INSPECTION, ALL OUTPUTS FLASH, WITH SMART SWITCH		
836-015	DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY		
660-008	SINGLE ELECTRIC WINDSHIELD WIPER MOTOR WITH DELAY		
304-001	MARKER LIGHT SWITCH INTEGRAL WITH HEADLIGHT SWITCH		
882-009	ONE 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		

Design



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Data Code	Description	Weight Front	Weight Rear
065-000	PAINT: ONE SOLID COLOR		
Color			
980-5F6	CAB COLOR A: L0006EY WHITE ELITE EY		
986-020	BLACK, HIGH SOLIDS POLYURETHANE CHASSIS PAINT		
962-972	POWDER WHITE (N0006EA) FRONT WHEELS/RIMS (PKWHT21, TKWHT21, W, TW)		
966-972	POWDER WHITE (N0006EA) REAR WHEELS/RIMS (PKWHT21, TKWHT21, W, TW)		
964-6Z7	BUMPER PAINT: FP24812 ARGENT SILVER DUPONT FLEX		
963-003	STANDARD E COAT/UNDERCOATING		

Certification / Compliance

996-001	U.S. FMVSS CERTIFICATION, EXCEPT SALES CABS AND GLIDER KITS
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Secondary Factory Options

998-001	CORPORATE PDI CENTER IN-SERVICE ONLY
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Raw Performance Data

AE8-99D	CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA) : 138.14 in
AM6-99D	CALC'D SPACE AVAILABLE FOR DECKPLATE : 141.45 in

TOTAL VEHICLE SUMMARY

Weight Summary

	Weight Front	Weight Rear	Total Weight
Factory Weight ⁺	7078 lbs	4288 lbs	11366 lbs
Total Weight ⁺	7078 lbs	4288 lbs	11366 lbs

Extended Warranty

WAG-011	TOWING: 2 YEARS/UNLIMITED MILES/KM EXTENDED TOWING COVERAGE \$550 CAP FEX APPLIES
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(+) Weights shown are estimates only.

If weight is critical, contact Customer Application Engineering.

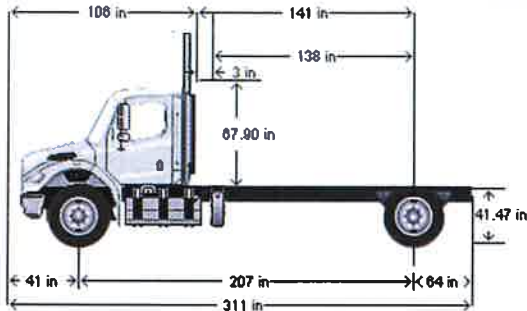
(***) All cost increases for major components (Engines, Transmissions, Axles, Front and Rear Tires) and government mandated requirements, tariffs, and raw material surcharges will be passed through and added to factory invoices.



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DIMENSIONS



VEHICLE SPECIFICATIONS SUMMARY - DIMENSIONS

Model.....	M2106
Wheelbase (545).....	5250MM (207 INCH) WHEELBASE
Rear Frame Overhang (552).....	1625MM (64 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).....	106 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Sleeper (682).....	NO SLEEPER BOX/SLEEPER CAB
Exhaust System (016).....	RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE

TABLE SUMMARY - DIMENSIONS



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Dimensions	Inches
Bumper to Back of Cab (BBC)	106.3
Bumper to Centerline of Front Axle (BA)	40.7
Min. Cab to Body Clearance (CB)	3.0
Back of Cab to Centerline of Rear Axle(s) (CA)	141.1
Effective Back of Cab to Centerline of Rear Axle(s) (Effective CA)	138.1
Back of Cab Protrusions (Exhaust/Intake) (CP)	0.0
Back of Cab Protrusions (Side Extenders/Trim Tab) (CP)	0.0
Back of Cab Protrusions (CNG Tank)	0.0
Back of Cab Clearance (CL)	3.0
Back of Cab to End of Frame	205.1
Cab Height (CH)	67.9
Wheelbase (WB)	206.7
Frame Overhang (OH)	64.0
Overall Frame Length	309.7
Overall Length (OAL)	311.4
Rear Axle Spacing	0.0
Unladen Frame Height at Centerline of Rear Axle	41.5

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



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GVWR

VEHICLE SPECIFICATIONS SUMMARY - GVWR

Model.....M2106
Cab Size (829)106 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Expected Front Axle(s) Load (lbs)10000.0
Expected Pusher Axle(s) Load (lbs)0.0
Expected Rear Axle(s) Load (lbs)23000.0
Expected Tag Axle(s) Load (lbs)0.0
Expected GVW (lbs)33000
Expected GCW (lbs)0.0
Front Axle (400)DETROIT DA-F-10.0-3 10,000# FF1 71.5 KPI/3.74 DROP SINGLE FRONT AXLE
Front Suspension (620)12,000# DUAL TAPERLEAF FRONT SUSPENSION
Front Hubs (418)CONMET PRESET PLUS PREMIUM IRON FRONT HUBS
Front Disc Wheels (502) MAXION WHEELS 90262 22.5X8.25 10-HUB PILOT 6.19 INSET 5-HAND STEEL DISC FRONT WHEELS
Front Tires (093)CONTINENTAL HSR2 11R22.5 14 PLY RADIAL FRONT TIRES
Front Brakes (402)MERITOR 16.5X5 Q+ CAST SPIDER CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES
Steering Gear (536)TRW THP-60 POWER STEERING
Rear Axle (420)RS-23-161 23,000# R-SERIES SINGLE REAR AXLE
Rear Suspension (622)30,000# FLAT LEAF SPRING REAR SUSPENSION WITH HELPER AND RADIUS ROD
Rear Hubs (450)CONMET PRESET PLUS PREMIUM IRON REAR HUBS
Rear Disc Wheels (505)MAXION WHEELS 90262 22.5X8.25 10-HUB PILOT 5-HAND STEEL DISC REAR WHEELS
Rear Tires (094)CONTINENTAL HDR2 11R22.5 14 PLY RADIAL REAR TIRES
Rear Brakes (423) ..MERITOR 16.5X7 Q+ CAST SPIDER HEAVY DUTY CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES
Pusher / Tag Axle (443)NO PUSHER OR TAG AXLE
Pusher / Tag Suspension (626)NO PUSHER OR TAG SUSPENSION
Pusher / Tag Hubs (449)NO PUSHER OR TAG HUBS
Pusher/Tag Disc Wheels (509)NO PUSHER/TAG DISC WHEELS
Pusher / Tag Tires (095)NO PUSHER/TAG TIRES
Pusher / Tag Brakes (456)NO PUSHER/TAG BRAKES



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TABLE SUMMARY - GVWR

	Front	Rear
Axle Component Weight Ratings		
Axles	10000	23000
Suspension	12000	30000
Hubs	14700	26000
Brakes	14700	23000
Wheels	14800	29600
Tires	12350	23360
Power Steering	13300	N/A
GAWR (per axle)	10000	23000
GAWR (per axle system)	10000	23000
Expected Load (per axle system)	10000	23000
GVWR due to Frame	90000	
GVWR due to Transmission	80000	
Vehicle GVWR Summary		
Calculated GVWR	33000	
Expected GVWR	33000	
All weights displayed in pounds		

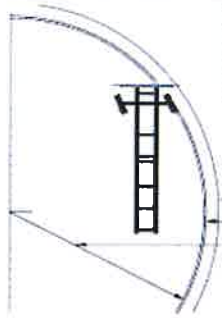
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TURNING RADIUS



Turning radius graphic and data provided strictly for comparisons between model configurations. Weather, road surfaces, and tire treads affect the results. It is strongly suggested that actual vehicles be measured before constructing any roads/driveways using this information. For specific figures regarding your configuration, please contact your CAE representative.

	Dimensions	Tolerance
Wall to Wall Diameter (ft)	57.1	+/- 3.0
Curb to Curb Diameter (ft)	55.4	+/- 3.0
Turning Radius (ft)	27.3	+/- 1.5

VEHICLE SPECIFICATIONS SUMMARY - TURNING RADIUS

Model.....M2106
Cab Size (829)106 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Wheelbase (545)5250MM (207 INCH) WHEELBASE
Front Tires (093)CONTINENTAL HSR2 11R22.5 14 PLY RADIAL FRONT TIRES
Width (in)11.1
Front Axle (400)DETROIT DA-F-10.0-3 10,000# FF1 71.5 KPI/3.74 DROP SINGLE FRONT AXLE
Kingpin Intersection (in)71.5
Bumper (556)THREE-PIECE 14 INCH PAINTED STEEL BUMPER WITH COLLAPSIBLE ENDS
Width (in)93.5
Bumper Miter to Front Axle (in)21.458
Primary Steering Location (003)LH PRIMARY STEERING LOCATION
Steering Gear (536)TRW THP-60 POWER STEERING
Dual Steering GearNONE
RamNONE
Rear Axle (420)RS-23-161 23,000# R-SERIES SINGLE REAR AXLE
Axle Spacing (624)NO AXLE SPACING

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FRAME RBM

VEHICLE SPECIFICATIONS SUMMARY - FRAME RBM

Wheelbase (545)..... 5250MM (207 INCH) WHEELBASE
Frame Rails (546) 11/32X3-1/2X10-3/16 INCH STEEL FRAME (8.73MMX258.8MM/0.344X10.19 INCH) 120KSI(546)
Yield Strength (psi)..... 120000
Section Modulus (per rail) (cu in)..... 15.069
RBM (per rail) (lbf-in)..... 1808400
Inner Frame Reinforcement (547) NO INNER FRAME REINFORCEMENT
Outer Frame Reinforcement (548) NO OUTER FRAME REINFORCEMENT

TABLE SUMMARY - FRAME RBM

Item	Description / Value
Wheelbase	5250MM (207 INCH) WHEELBASE
Frame	11/32X3-1/2X10-3/16 INCH STEEL FRAME (8.73MMX258.8MM/0.344X10.19 INCH) 120KSI
Inner Frame Reinforcement	NO INNER FRAME REINFORCEMENT
Outer Frame Reinforcement	NO OUTER FRAME REINFORCEMENT
Yield Strength (psi)	120000
Section Modulus - per rail (cu. in.)	15.07
Frame RBM - per rail (lbf-in)	1808400

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

