



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.:	PE8524
CITY, STATE:	BELZONI, MISSISSIPPI		
DATE:	10/28/21	Quote Expires in 30 Days	

QTY.	DESCRIPTION		
1	2019 HEIL-PT1000 20CY REAR LOADER S/N: 4F1303113		
	REMOTE MOUNT PUMP		
	HOT SHIFT PTO W/OS PROTECTION		
	HOPPER WORK LIGHTS		
	DUAL TAILGATE BUZZERS		
	MULTI-FUNCTION "SMART" LIGHTS - TAILGATE		
	DUAL BAYNE MBTL180 CART TIPPERS		
	15,000 LB REEVING CYLINDER W/LIP & LATCH KIT		
	REAR VISION CAMERA SYSTEM		
	PAINT: WHITE		
1	2019 FREIGHTLINER M2-106 VIN: 1FVACXFE5KHKP2284		
	REMAINDER OF CHASSIS ENGINE & AFTERTREATMENT WARRANTY		
	1/22/2024 OR 150,000 MILES		
	REMAINDER OF TRANSMISSION WARRANTY		
	UNIT AVAILABLE APPROXIMATELY JAN/FEB 2022		
	<b>**SUBJECT TO PRIOR SALE**</b>		

Subtotal A:		\$	120,515.00
<b>B. FREIGHT/DELIVERY</b>			
F.O.B. POINT:		BELZONI, MS	INCLUDED
Subtotal B:		\$	-
<b>C. Discounts/Credits (Trade-In, etc.)</b>			
Subtotal C:		\$	-
Total Each:		\$	120,515.00
Quantity:			1
TOTAL NET DELIVERED		\$	120,515.00

Customer Signature:	Comments:  Terms: Net at Delivery
Customer PO #	
Date:	



11 MONROE DRIVE  
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October 29, 2021

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

RE: Trade-In Offer – Heil PT1000 on 2019 Freightliner

Dear Gentlemen:

Ingram Equipment Company, LLC ("Ingram") hereby offers a trade-in value of **\$42,180.00 (Forty-two Thousand, One Hundred Eighty and 00/100 Dollars)** for the rear loader garbage truck as identified on **Quote Number PE8524**.

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.

☒ ☐ \_\_\_\_\_

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.

☒ ☐ \_\_\_\_\_

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.

☒ ☐ *without side door interlock*

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

☒ ☐ \_\_\_\_\_

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

☒ ☐ \_\_\_\_\_

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*

☒ ☐ \_\_\_\_\_

### TAILGATE DIMENSIONS

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

☒ ☐ \_\_\_\_\_

Inside tailgate loading width shall be minimum of 80

☒ ☐ \_\_\_\_\_

Hopper opening height shall be minimum of 68"

☒ ☐ \_\_\_\_\_

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

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### 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.

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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.

☒ ☐ \_\_\_\_\_

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.

☒ ☐ \_\_\_\_\_

**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**

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.

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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.

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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.

☒ ☐ \_\_\_\_\_

# HUMPHREYS COUNTY MISSISSIPPI

## 20 CUBIC YARD REAR LOADING REFUSE COLLECTION TRUCK

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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.

☒ ☐ \_\_\_\_\_



2019  
Freightliner

# **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**

## **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"/>	
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"/>	legal.
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"/>	1100sqin.
1000 Watt/115 Volt block heater	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Aluminum flywheel housing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

# HUMPHREYS COUNTY MISSISSIPPI

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**YES   NO   COMPLY**

6.14 Rear axle ratio

☒ ☐ \_\_\_\_\_

MXL 17T Meritor extended lube main driveline with half round yokes

☒ ☐ \_\_\_\_\_

Driver controlled traction differential – single rear axle

☒ ☐ \_\_\_\_\_

Meritor 16.5"x7" Q+ Cam rear brakes, double anchor, fabricated shoes

☒ ☐ \_\_\_\_\_

Rear brake dust shields

☒ ☐ \_\_\_\_\_

Rear oil seals

☒ ☐ \_\_\_\_\_

Haldex Goldseal Longstroke HD 30/36 1-drive axle spring parking chambers

☒ ☐ Wabco  
Tristop D

Automatic rear slack adjusters

☒ ☐ \_\_\_\_\_

Synthetic 75W-90 front axle lube

☒ ☐ \_\_\_\_\_

26,000 lb. Flat leaf spring rear suspension with helper and radius rod

☒ ☐ 30,000 lb

Fore/Aft control rods

☒ ☐ \_\_\_\_\_

### **BRAKE SYSTEM**

Air brake package

☒ ☐ \_\_\_\_\_

Wabco 4S/4M ABS without traction control

☒ ☐ \_\_\_\_\_

BW AD-9 Brake line air dryer with heater

☒ ☐ Wabco 55-1200 +  
Heated

Steel air brake reservoirs

☒ ☐ \_\_\_\_\_

Pull cables on all air reservoirs

☒ ☐ \_\_\_\_\_

### **FRAME & EQUIPMENT**

207" WB, 132"-140" CA, 61" – 71" AF

☒ ☐ \_\_\_\_\_

11/32" x 3 1/2" x 10-15/16" Steel frame, 120,000 PSI yield steel

☒ ☐ \_\_\_\_\_

Three-piece 14" painted steel bumper with flexible plastic ends

☒ ☐ \_\_\_\_\_

Front tow hooks – frame mounted

☒ ☐ \_\_\_\_\_

Fender and front of hood mounted front mud flaps

☒ ☐ \_\_\_\_\_

75 Gallon rectangular aluminum fuel tank – LH

☒ ☐ 80 gallon

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	<u>YES</u>	<u>NO</u>	<u>COMPLY</u>
Two (2) man tool box, mid-back non-suspension passenger seat	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Adjustable tilt & telescoping steering column	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>INSTRUMENTS &amp; CONTROLS</b>			
Wood grain driver & center instrument panels	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Low air pressure light and buzzer	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Primary and secondary air pressure gauges	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Intake mounted air restriction indicator without graduations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Electronic cruise control with switches in LH switch panel	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Odometer/Trip/Hour/Diagnostic/Voltage Display	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Diagnostic interface connector, 9 Pin, below dash	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Electric fuel gauge	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Electrical engine coolant temperature gauge	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Transmission oil temperature gauge	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Engine and trip hour meters integral within driver display	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Electric engine oil pressure gauge	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
AM/FM/WB Radio with front auxiliary input	<input checked="" type="checkbox"/>	<input type="checkbox"/>	without Aux Input
<b>PAINT</b>			
Color: white	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

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



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

## Hydraulic Specifications

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

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

## Typical Chassis Configuration

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

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

Body Capacity	yd³	13	16	18	20	25
	m³	9.93	12.23	13.76	15.29	19.11
Overall Length	in.	189.25	206.75	220	234	269
	mm	4,807	5,251	5,588	5,944	6,833
Overall Length With Tailgate Raised	in.	229.25	246.75	272	286	321
	mm	5,823	6,267	6,909	7,264	8,154
Overall Width	in.	90	96	96	96	96
	mm	2,438	2,438	2,438	2,438	2,438
Overall Height Above Frame	in.	94	94	94	94	94
	mm	2,388	2,388	2,388	2,388	2,388
Overall Height With Tailgate Raised	in.	162	162	162	162	162
	mm	4,115	4,115	4,115	4,115	4,115
Gross Weight (approximate)	lbs.	10,350	10,600	11,100	11,400	12,300
	kg	4,699	4,899	5,035	5,170	5,560

Body Cylinders	Type	Model	Stages	Bore
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:  
Larry Angel  
Heil Environmental  
2030 Hamilton Place Blvd  
Suite 200  
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 @ 2000 RPM, 2200 GOV RPM, 860 LB/FT  
@ 1300 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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## 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
<b>Price Level</b>			
PRL-16M	M2 PRL-16M (EFF:04/25/17)		
<b>Data Version</b>			
DRL-026	SPECPRO21 DATA RELEASE VER 026		
<b>Interior Convenience/Driver Retention Package</b>			
055-004	INTERIOR CONVENIENCE PACKAGE WITH CB PROVISION		
<b>Vehicle Configuration</b>			
001-172	M2 106 CONVENTIONAL CHASSIS	5,759	3,503
004-219	2019 MODEL YEAR SPECIFIED		
002-004	SET BACK AXLE - TRUCK		
019-002	STRAIGHT TRUCK PROVISION		
003-001	LH PRIMARY STEERING LOCATION		
<b>General Service</b>			
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
<b>Truck Service</b>			
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		
<b>Engine</b>			
101-22P	CUM L9 300 HP @ 2000 RPM, 2200 GOV RPM, 860 LB/FT @ 1300 RPM	640	30
<b>Electronic Parameters</b>			
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		
<b>Engine Equipment</b>			
99C-017	2016 ONBOARD DIAGNOSTICS/2010 EPA/CARB/FINAL GHG17 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		
133-004	ONE PIECE VALVE COVER		
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		
292-098	(2) ALLIANCE MODEL 1231, GROUP 31, 12 VOLT MAINTENANCE FREE 2250 CCA THREADED STUD BATTERIES		
290-017	BATTERY BOX FRAME MOUNTED		
281-001	STANDARD BATTERY JUMPERS		



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Data Code	Description	Weight Front	Weight Rear
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	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 EXHAUST BRAKE INTEGRAL WITH VARIABLE GEOMETRY TURBO WITH ON/OFF DASH SWITCH	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		





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Data Code	Description	Weight Front	Weight Rear
118-008	COMBINATION FULL FLOW/BYPASS OIL FILTER		
120-009	FLEETGUARD PLAIN COOLANT FILTER		
266-013	1100 SQUARE INCH ALUMINUM RADIATOR	20	
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-000	PRIMARY SHIFT SCHEDULE RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE
84F-000	SECONDARY SHIFT SCHEDULE RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE
84G-000	PRIMARY SHIFT SPEED RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE



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Data Code	Description	Weight Front	Weight Rear
84H-000	SECONDARY SHIFT SPEED RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE		
84L-000	LOAD BASED SHIFT SCHEDULE AND VEHICLE ACCELERATION CONTROL RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED VOCATIONAL USAGE		
84N-000	NEUTRAL AT STOP - DISABLED, FUELSENSE - DISABLED		
84U-000	DRIVER SWITCH INPUT - DEFAULT - NO SWITCHES		
84V-998	TCU-DIRECTION CHNG,NOT CONFIGURED		
84M-998	TCU-PUMP MODE OPTION NOT CONFIGURED		
85B-998	TCU-RANGE INDICATION NOT CONFIGURED		
353-022	VEHICLE INTERFACE WIRING CONNECTOR WITHOUT BLUNT CUTS, AT BACK OF CAB		
34C-001	ELECTRONIC TRANSMISSION CUSTOMER ACCESS CONNECTOR FIREWALL MOUNTED		
362-035	CUSTOMER INSTALLED CHELSEA 277 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
409-006	FRONT OIL SEALS

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Data Code	Description	Weight Front	Weight Rear
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		
539-003	POWER STEERING PUMP		
534-015	2 QUART SEE THROUGH POWER STEERING RESERVOIR		
40T-002	SYNTHETIC 75W-90 FRONT AXLE LUBE		
<b>Front Suspension</b>			
620-1F0	12,000# DUAL TAPERLEAF FRONT SUSPENSION	42	
619-005	MAINTENANCE FREE RUBBER BUSHINGS - FRONT SUSPENSION		
62H-998	NO FRONT SUSPENSION SPRING BRACKET OPTIONS		
410-001	FRONT SHOCK ABSORBERS		
<b>Rear Axle and Equipment</b>			
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
393-998	NO DRIVELINE GUARD		
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		
440-006	REAR OIL SEALS		
426-100	WABCO TRISTOP D LONGSTROKE 1-DRIVE AXLE SPRING PARKING CHAMBERS		

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Data Code	Description	Weight Front	Weight Rear
428-002	MERITOR AUTOMATIC REAR SLACK ADJUSTERS		
41T-002	SYNTHETIC 75W-90 REAR AXLE LUBE		
<b>Rear Suspension</b>			
622-1DF	30,000# FLAT LEAF SPRING REAR SUSPENSION WITH HELPER AND RADIUS ROD		230
621-001	SPRING SUSPENSION - NO AXLE SPACERS		
431-001	STANDARD AXLE SEATS IN AXLE CLAMP GROUP		
623-005	FORE/AFT CONTROL RODS		
<b>Brake System</b>			
018-002	AIR BRAKE PACKAGE		
490-100	WABCO 4S/4M ABS WITHOUT TRACTION CONTROL		
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		
480-083	WABCO SS-1200 PLUS AIR DRYER WITH INTEGRAL AIR GOVERNOR AND HEATER		
479-012	AIR DRYER MOUNTED UNDER HOOD		
460-001	STEEL AIR BRAKE RESERVOIRS		
477-004	PULL CABLES ON ALL AIR RESERVOIR(S)		
<b>Trailer Connections</b>			
335-004	UPGRADED CHASSIS MULTIPLEXING UNIT		
32A-002	UPGRADED BULKHEAD MULTIPLEXING UNIT		
30L-998	NO HIGH CURRENT TRAILER/BODY CABLE		
<b>Wheelbase &amp; Frame</b>			
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) : 141.45 in		



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Data Code	Description	Weight Front	Weight Rear
AE8-99D	CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA) : 138.45 in		
AE4-99D	CALC'D FRAME LENGTH - OVERALL : 300.39		
AM6-99D	CALC'D SPACE AVAILABLE FOR DECKPLATE : 141.45 in		
FSS-0LH	CALCULATED FRAME SPACE LH SIDE : 118.83 in		
FSS-0RH	CALCULATED FRAME SPACE RH SIDE : 126.52 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		
565-001	STANDARD SUSPENSION CROSSMEMBER		
<b>Chassis Equipment</b>			
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		
489-998	NO TIRE PRESSURE CONTROL/SENSOR		
<b>Fuel Tanks</b>			
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		
<b>Tires</b>			



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Data Code	Description	Weight Front	Weight Rear
093-1V4	CONTINENTAL HSR2 11R22.5 14 PLY RADIAL FRONT TIRE	16	
094-2F6	CONTINENTAL HDR2 11R22.5 14 PLY RADIAL REAR TIRES		92
<b>Hubs</b>			
418-060	CONMET PRESET PLUS PREMIUM IRON FRONT HUBS	20	
450-060	CONMET PRESET PLUS PREMIUM IRON REAR HUBS		
<b>Wheels</b>			
502-1EF	ALCOA LVL ONE 88367X 22.5X8.25 10-HUB PILOT 5.79 INSET ALUMINUM DISC FRONT WHEELS	-50	
505-1EF	ALCOA LVL ONE 88367X 22.5X8.25 10-HUB PILOT ALUMINUM DISC REAR WHEELS		-100
50W-998	NO RIM/WHEEL TIRE PRESSURE SENSOR		
496-011	FRONT WHEEL MOUNTING NUTS		
497-011	REAR WHEEL MOUNTING NUTS		
<b>Cab Exterior</b>			
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		
657-1CV	DOOR LOCKS AND IGNITION SWITCH KEYED THE SAME WITH (4) KEYS		
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		



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796-001	102 INCH EQUIPMENT WIDTH		
743-204	LH AND RH 8 INCH BRIGHT FINISH CONVEX MIRRORS MOUNTED UNDER PRIMARY MIRRORS		
74B-080	RH AND LH 8 INCH STAINLESS STEEL FENDER MOUNTED CONVEX MIRRORS WITH TRIPOD BRACKETS	8	
729-001	STANDARD SIDE/REAR REFLECTORS		
768-043	63X14 INCH TINTED REAR WINDOW		
661-003	TINTED DOOR GLASS LH AND RH WITH TINTED NON-OPERATING WING WINDOWS		
654-003	MANUAL DOOR WINDOW REGULATORS		
663-013	TINTED 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		
130-033	DENSO HEAVY DUTY AIR CONDITIONER COMPRESSOR		
702-002	BINARY CONTROL, R-134A		
739-033	STANDARD INSULATION		



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Data Code	Description	Weight Front	Weight Rear
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		
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		
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		





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Data Code	Description	Weight Front	Weight Rear
160-038	HEAVY DUTY ONBOARD DIAGNOSTICS INTERFACE CONNECTOR LOCATED BELOW LH DASH		
844-001	2 INCH ELECTRIC FUEL GAUGE		
148-003	PROGRAMMABLE RPM CONTROL - ELECTRONIC ENGINE		
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		
73B-998	NO LANE DEPARTURE WARNING SYSTEM		
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		
813-998	NO VEHICLE PERFORMANCE MONITOR	-5	
8D1-998	NO DETROIT CONNECT SERVICES SELECTED		
8Z1-998	NO ZONAR SERVICES SELECTED		
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		



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Data Code	Description	Weight Front	Weight Rear
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		
869-998	NO MISCELLANEOUS GAUGES		

#### Design

065-000 PAINT: ONE SOLID COLOR

#### Color

980-5F6 CAB COLOR A: L0006EB WHITE ELITE BC  
 986-020 BLACK, HIGH SOLIDS POLYURETHANE CHASSIS PAINT  
 98K-998 NO FUEL TANK CABINET PAINT  
 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

#### Secondary Factory Options

998-001 CORPORATE PDI CENTER IN-SERVICE ONLY

### TOTAL VEHICLE SUMMARY

#### Weight Summary

	Weight Front	Weight Rear	Total Weight
Factory Weight <sup>+</sup>	7065 lbs	4147 lbs	11212 lbs
Total Weight <sup>+</sup>	7065 lbs	4147 lbs	11212 lbs

#### Extended Warranty

WAG-011 TOWING: 2 YEARS/UNLIMITED MILES/KM EXTENDED TOWING COVERAGE \$550 CAP FEX APPLIES

F19-229 2019 M2 106 20yd



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(+) Weights shown are estimates only.

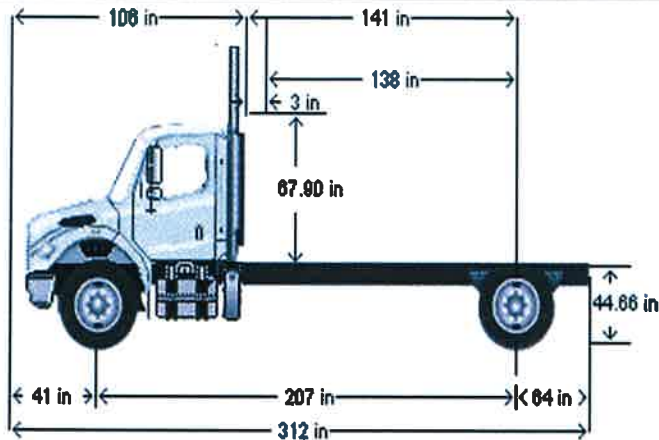
If weight is critical, contact Customer Application Engineering.



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## D I M E N S I O N S



## 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



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## TABLE SUMMARY - DIMENSIONS

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)	141.4
Effective Back of Cab to Centerline of Rear Axle(s) (Effective CA)	138.4
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	205.4
Cab Height (CH)	67.9
Wheelbase (WB)	207.0
Frame Overhang (OH)	64.0
Overall Length (OAL)	311.7
Rear Axle Spacing	0.0
Unladen Frame Height at Centerline of Rear Axle	44.7

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).....ALCOA LVL ONE 88367X 22.5X8.25 10-HUB PILOT 5.79 INSET ALUMINUM DISC FRONT WHEELS  
Front Tires (093).....CONTINENTAL HSR2 11R22.5 14 PLY RADIAL FRONT TIRE  
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).....ALCOA LVL ONE 88367X 22.5X8.25 10-HUB PILOT ALUMINUM 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
<b>Axle Component Weight Ratings</b>		
<b>Axes</b>	10000	23000
<b>Suspension</b>	12000	30000
<b>Hubs</b>	14700	26000
<b>Brakes</b>	14700	23000
<b>Wheels</b>	14800	29600
<b>Tires</b>	12350	23360
<b>Power Steering</b>	13300	N/A
<b>GAWR (per axle)</b>	10000	23000
<b>GAWR (per axle system)</b>	10000	23000
<b>Expected Load (per axle system)</b>	10000	23000
<b>Vehicle GVWR Summary</b>		
<b>Calculated GVWR</b>	33000	
<b>Expected GVWR</b>	33000	
<b>All weights displayed in pounds</b>		

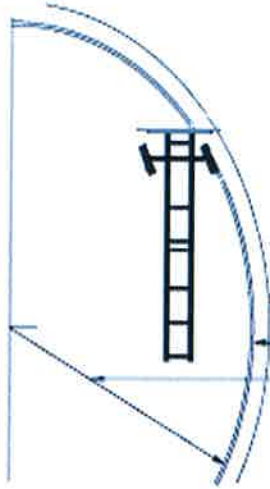
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## TURNING RADIUS



Turning radius graphic and data provided for general estimate purposes only. For specific figures regarding your configuration, please contact your CAE representative.

	Left Turn	Right Turn	Tolerance
Wall to Wall Diameter (ft)	57.2	58.5	+/- 3.0
Curb to Curb Diameter (ft)	55.5	56.8	+/- 3.0
Turning Radius (ft)	27.3	28.0	+/- 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 TIRE  
 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 Gear.....NONE  
 Ram.....NONE  
 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.

