

BID SUBMITTAL FORM
Alabama County Joint Bidding Program
Heavy Equipment – Bid Items: 3.65 CY Wheel Loader Option A

Company Name: THOMPSON TRACTOR COMPANY

Address: P.O. BOX 10367

BIRMINGHAM, AL 35202-0367

Bid Submitted by: JAY SMITH
(Name of company representative)

Title: SALES OPERATIONS MANAGER e-mail address: JAYSMITH@THOMPSONTRACTOR.COM

Phone: (205) 849-4242 Fax: (205) 849-4394

By submitting this bid, we agree:

Initials

The equipment model number identified below meets the bid specs for this bid item

JS

That the bid price will be honored for all counties for the period from Jan. 1, 2021 to Dec. 31, 2021.

JS

The equipment will be delivered at the bid price to all counties participating in the joint bid program.

JS

The company acknowledges the freight preparation and delivery price is to be included in the total bid price for the standard machine.

JS

The company representative listed above will be the contact person for purchasing this bid item under the joint bid program.

JS

The bid is accompanied by a current catalog or model specification document for the model number identified below.

JS

The bid is accompanied by a copy of the manufacturer's standard warranty as required in the bid specifications.

JS

The bid includes the e-verify documentation required by Alabama law.

JS

If awarded the bid, a performance bond will be provided upon request.

JS

The bid documents include the **Manufacturer's Suggested Retail Price Sheet (MSRP) for the Standard Machine.**

JS

Total Bid Price for Standard Machine: \$ 198,617

(Total Bid Price for Standard Machine Includes Freight Preparation, Delivery and Standard Warranty Costs) *

Freight Preparation and Delivery: \$ 5,485

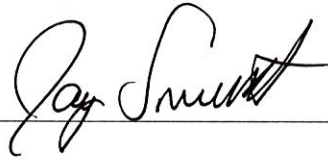
(Included in Standard Machine Bid Price)

Manufacturer's Suggested Retail Price for Standard Machine: \$ 280,715

Equipment Model #: CATERPILLAR 938M

Description: WHEEL LOADER

Signature of company representative submitting bid: _____



Title: SALES OPERATIONS MANAGER

* **NOTE:** Award will be made based on the total cost of the **Standard Machine**. The total cost of the standard machine is to include the freight preparation, delivery and standard warranty cost. Freight preparation, delivery will be excluded from the total bid price of the standard machine in determining the percentage discount for any available options.

BID SUBMITTAL FORM: OPTION COST SHEET

By submitting this bid, we agree:

To offer any available options at the percent difference between the Manufacturer's Suggested Retail Price Sheet and the actual bid price on the Standard Machine*

JB

The bid documents include the **Manufacturer's Suggested Retail Price Sheet (MSRP)** for the Standard Machine

JB

Equipment Model #: CATERPILLAR 938M

Description: WHEEL LOADER

Signature of company representative submitting bid: Jay Smith

Title: SALES OPERATIONS MANAGER

***Note:** The percent difference between the **Manufacturer's Suggested Retail Price Sheet (MSRP)** for the standard machine as specified by these **Bid Specifications** and the actual price bid by the vendor will be calculated to determine the percentage discount to be applied to any available options. The bid price of the freight preparation, delivery cost shall be excluded in determining the percentage discount to be applied to available options. Any individual county may choose to add any available option to the standard machine at the percentage discount at the time of purchase.

938M	3.65 CY WHEEL LOADER OPTION A	2021 Pricing
541-2673	938M WHEEL LOADER	\$242,036
430-2943	PREP PACK FOR UNITED STATES	\$0
333-6858	STANDARD STEERING	\$0
349-8014	OPEN REAR DIFFERENTIAL	\$0
536-5320	STANDARD ENVIRONMENT (dustbowl precleaner & standard fan)	\$0
454-0612	STANDARD WEATHER	\$0
527-0422	ENGINE ARRANGEMENT	\$0
536-5341	2 VALVE PIN-ON HYDRAULICS, STANDARD LIFT	\$0
536-5284	STANDARD HYDRAULICS	\$0
536-5329	NO AUXILIARY LINES	\$0
536-5339	NO JUMPER LINES	\$0
488-1112	STANDARD HALOGEN LIGHTS	\$0
541-3066	HALOGEN ROADING LIGHTS	\$0
549-0451	DELUXE CAB	\$4,212
563-5967	DELUXE AIR SUSPENSION SEAT	\$1,092
372-1868	BLUETOOTH RADIO	\$0
565-0908	CELLULAR PRODUCT LINK PL641	\$0
366-6882	20.5-R25 MX * XHA2 * L3 MICHELIN TIRES	\$13,686
366-8150	STANDARD FENDERS	\$0
467-7990	HEAVY COUNTERWEIGHT	\$2,733
491-7922	TOOLBOX	\$513
0P-2491	SERIALIZED TECHNICAL MEDIA KIT	\$0
430-2860	RIDE CONTROL	\$4,125
349-8163	CRANKCASE GUARD	\$978
345-2828	3.80 YD3 PIN ON GP BUCKET	\$10,413
345-2758	BOLT ON CUTTING EDGE	\$926
	TOTAL BID PRICE FOR STANDARD MACHINE	\$198,617
	FREIGHT PREPARATION AND DELIVERY	\$5,485
	TOTAL MANUFACTURER'S SUGGESTED RETAIL PRICE FOR STANDARD MACHINE	\$280,715

BID SPECIFICATIONS FOR 3.65 CY WHEEL LOADER – OPTION A

GENERAL

These specifications shall be construed as the minimum acceptable standards for a 3.65-yard wheel loader. Should the manufacturer's current published data or specifications exceed these standards, the manufacturer's standards shall be considered minimum and shall be furnished. All integral parts not specifically mentioned in the scope of these specifications that are necessary to provide a complete working unit shall be furnished. Additionally, the machine offered for bid shall include all standard manufacturer's equipment. The wheel loader must be a new current production model and shall meet all EPA and other applicable standards at the time of manufacture.

The use of specific names and numbers in the specification is not intended to restrict the bidder or any seller or manufacturer, but is intended solely for the purpose of indicating the type, size and quality of equipment considered best adapted to the uses of counties participating in this joint bid.

BID SUBMITTAL FORM

Each bidder must submit his or her bid on the Bid Submittal Form included in the Invitation to Bid package. All written warranties to be submitted shall be attached to the Bid Submittal Form.

BID PRICE

The bid price shall include all destination charges, delivery charges, title fees, rebates, and all other applicable costs and refunds.

MANUALS

Each unit shall be provided with one (1) copy of the operator's manual, one (1) copy of the repair manual and one (1) copy of the current parts manual. Units will not be accepted for delivery until the manuals as outlined above are received by the purchaser.

REPLACEMENT PARTS AVAILABILITY

Parts must be available for 5 years or 7,500 hours of use for the piece of equipment bid. If replacement parts are not delivered within three (3) working days of an order being placed, the bidder will deliver an equivalent machine for the county to use at no cost to the county until such time as the parts are delivered to the county so it can affect repairs on its machine.

WARRANTY

Bidders shall submit a copy of the manufacturer's standard warranty.
Warranty shall include service response time of maximum of 36 hours within notification by county.

Yes ☒ No ☐
Page#
or
Attachment ☒

DUMP CLEARANCE

The wheel loader dump clearance shall be no less than 9' 3" at full height and 45-degree dump angle.

Yes X No
Page # 30

GENERAL OPERATING SPECIFICATIONS AND DIMENSIONS

Straight static tipping load shall be at least **25,800 lbs.** and the Full turn static tipping load shall be at least **21,900 lbs** with machine equipped with ROPS cab and a minimum **3.65 cubic yard** General Purpose bucket.

Yes X No
Page # 22

Breakout force shall not be less than **29,000 lbs.** with the minimum 3.65 cubic yard General Purpose bucket.

Yes X No
Page # 22

Machine ground clearance shall not be less than **1' 3"**.

Yes X No
Page # 16

BRAKES

-Machine shall have oil cooled multiple disc-type, adjustment-free service brakes, which are inboard mounted and sealed.

Yes X No
Page # 13, 35

STEERING/HITCH

Machine shall have center-point articulation with an articulation angle of at least $\pm 40^\circ$.

Yes X No
Page # 16

OIL SAMPLES

Oil sample analysis shall be provided, at no cost to the county, through the standard periods. Oil sample kits are to be provided and are to include a sample gun. Oil sampling ports shall be standard for quick and clean access to various machine oils (such as hydraulic, engine oil, transmission).

Yes X No
Page #

FRONT AND REAR FRAMES/STRUCTURES

Machine shall be equipped with a rear towing and retrieval connection.

Yes X No
Page # 35

Machine shall have lifting/tie down eyes for transportation.

Yes X No
Page # BID spec p 5

Machine shall be equipped with outside toolbox.

Yes ☒ No ☐
Page # RID SPEC P4

ENGINE AND RELATED COMPONENTS

Engine shall be fully equipped, six cylinder, four stroke diesel type with all necessary operating accessories.

Yes ☒ No ☐
Page # 13, 35

Engine Shall be designed and manufactured by the machine manufacturer

Yes ☒ No ☐
Page # 1, 5

Engine shall meet or exceed current U.S. EPA Tier IV emissions levels.

Yes ☒ No ☐
Page # 1, 5, 13

Engine shall have a total displacement of not less than **425 cubic inches**

Yes ☒ No ☐
Page # 13

Engine shall develop at least **182 net HP** at no more than 1800 RPM. Standard engine equipment for rating shall include fan, air cleaner, water pump, lubrication oil pump, fuel pump, muffler and alternator.

Yes ☒ No ☐
Page # 13

Engine shall develop at least **640 lb-ft** maximum net torque at no less than 1400 RPM.

Yes ☒ No ☐
Page # 13

The cooling fan for the engine coolant, A/C system, hydraulic oil, and inlet air shall be hydraulically driven, electronically controlled, and temperature sensing. It shall also compensate for horsepower draw and adjust engine fuel setting to result in a constant net horsepower.

Yes ☒ No ☐
Page # 35

The coolant level shall be able to be checked via a ground-level sight gauge.

Yes ☒ No ☐
Page # 12

Machine shall be equipped with 24V electric system for starting and operating, with a minimum 65-amp alternator.

Yes ☒ No ☐
Page # 35

GENERAL MACHINE CONFIGURATION

Machine basic operating weight shall not be less than **36,000 lbs.** Comparably equipped weight includes lubricants, coolant, full fuel tank, operator, General Purpose bucket with bolt-on cutting edge, 20.5-R25 tires and ROPS cab.

Yes ☒ No ☐
Page # 1, 18

Machine shall be equipped with a minimum **3.65 cubic yard** ISO/SAE heaped General Purpose bucket with bolt-on cutting edge.

Yes ☒ No ☐
Page # 22

Machine shall have 20.5 R25 L3 XHA traction-type tires.

Yes ☒ No ☐
Page # 16

Machine shall have four front and two rear working lights and two rear stop and taillights.

Yes ☒ No ☐
Page # 1, 3

Machine shall have front fenders and rear platform extensions.

Yes ☒ No ☐
Page # 11, 35

Machine shall have a back-up alarm

Yes ☒ No ☐
Page # 12, 35

OPERATOR'S STATION

Integral ROPS and sound suppressed cab shall be standard and shall meet both current OSHA and MSHA standards for operator and spectator sound.

Yes ☒ No ☐
Page # 13

Machine shall be equipped with a multilevel warning system, which will signal machine and component malfunctions. System should differentiate between major and minor malfunctions. Warning system shall record occurrences of periodic malfunctions.

Yes ☒ No ☐
Page # 35, B & spec p. 3

Instrument gauges shall include digital gear range indicator, engine coolant temperature, fuel level, hydraulic oil temperature, speedometer, and transmission oil temperature.

Yes ☒ No ☐
Page # 35

Operator's seat shall be air suspension-type with adjustments for height, weight, fore/aft and suspension dampening, and adjustable armrests on left and right.

Yes ☒ No ☐
Page # 8, 35

Cab shall have internally and externally-mounted rearview mirrors.

Yes ☒ No ☐
Page # 8, 35

Cab shall have air conditioner, heater

Yes ☒ No ☐
Page # 8, 9, 35

Machine shall be equipped with a Fire Extinguisher

Yes ☒ No ☐
Page # VENDOR PURCHASE

Machine shall be equipped with retractable 3" seat belt.

Yes ☒ No ☐
Page # 35

TRANSMISSION/POWERTRAIN

Transmission and other major power train components, such as the axles, shall be **designed and manufactured by the equipment manufacturer.**

Yes ☒ No ☐
Page # 10, 15

Automatic transmission shall be of countershaft power shift design.

Yes ☒ No ☐
Page # BID SPEC P. 2

Transmission shall be electronically controlled for smooth clutch modulation.

Yes ☒ No ☐
Page # BID SPEC P. 2

Transmission shall automatically select gears above first. The operator shall be able to select the highest gear to which the transmission will automatically shift.

Yes ☒ No ☐
Page # BID SPEC P. 2

Transmission shall offer full manual shifting option as well as auto shifting.

Yes ☒ No ☐
Page # BID SPEC P. 2

Machine shall be have a minimum of **4-forward** and **4-reverse** gears and be able to achieve a speed of at least **25 mph in both forward and reverse.**

Yes ☒ No ☐
Page # 15

Rear axle shall not have more than 20° total oscillation.

Yes ☒ No ☐
Page # 17

Wheel loader shall be equipped with a crankcase guard.

Yes ☒ No ☐
Page # 11

HYDRAULICS

Hydraulic pressure taps shall be provided for checking pressure in the hydraulic implements and steering systems.

Yes ☒ No ☐
Page # 813 spec p 2

Steering hydraulic system shall have a dedicated pump and be independent of the implement hydraulics.

Yes ☒ No ☐
Page # 17

Hydraulic total cycle time shall be no more than 11 seconds, measured with a rated bucket load.

Yes ☒ No ☐
Page # 17

Machine shall have a ground-level hydraulic sight gauge showing hydraulic fluid level.

Yes ☒ No ☐
Page # 12

Shall have a minimum flow of **50 gallons/minute**.

Yes ☒ No ☐
Page # 14

926M, 930M, 938M

Wheel Loaders



	926M	930M	938M
Engine Model*	Cat® C7.1 ACERT™	Cat C7.1 ACERT	Cat C7.1 ACERT
Maximum Rated Gross Power:			
ISO 14396	114 kW (153 hp)	122 kW (164 hp)	140 kW (188 hp)
ISO 14396 (DIN)	114 kW (155 hp)	122 kW (166 hp)	140 kW (190 hp)
Bucket Capacity	1.9-5.0 m³ (2.5-6.5 yd³)	2.1-5.0 m³ (2.7-6.5 yd³)	2.5-5.0 m³ (3.3-6.5 yd³)
Full Turn Tip Load	7524 kg (16,587 lb)	8469 kg (18,670 lb)	10 028 kg (22,107 lb)
Operating Weight	13 050 kg (28,770 lb)	14 007 kg (30,879 lb)	16 427 kg (36,216 lb)

*Engine meets U.S. EPA Tier 4 Final/EU Stage IV emission standards.

Making Your Choice Easy

Efficiently Powerful

Experience Hybrid like fuel efficiency with an intelligent hydrostatic power train and industry leading fuel savings. For your toughest and most demanding applications a new Performance Mode will boost the power and hydraulic speed.

Work Made Easy

Move more with Caterpillar's patented quick loading Performance Series buckets and optimized Z-bar linkage. The parallel lift and high tilt forces allow you to safely handle loads. Multi-function work has never been easier with dedicated pumps and a flow sharing implement valve.

Enjoy All Day Comfort

Have a seat in the M Series Small Wheel Loader and enjoy, whisper quiet sound levels, all around visibility and seat mounted joystick controls. The large spacious cab combined with Caterpillar's exclusive hydraulic cylinder damping make this the most comfortable seat on your job site.

Customize Your Experience

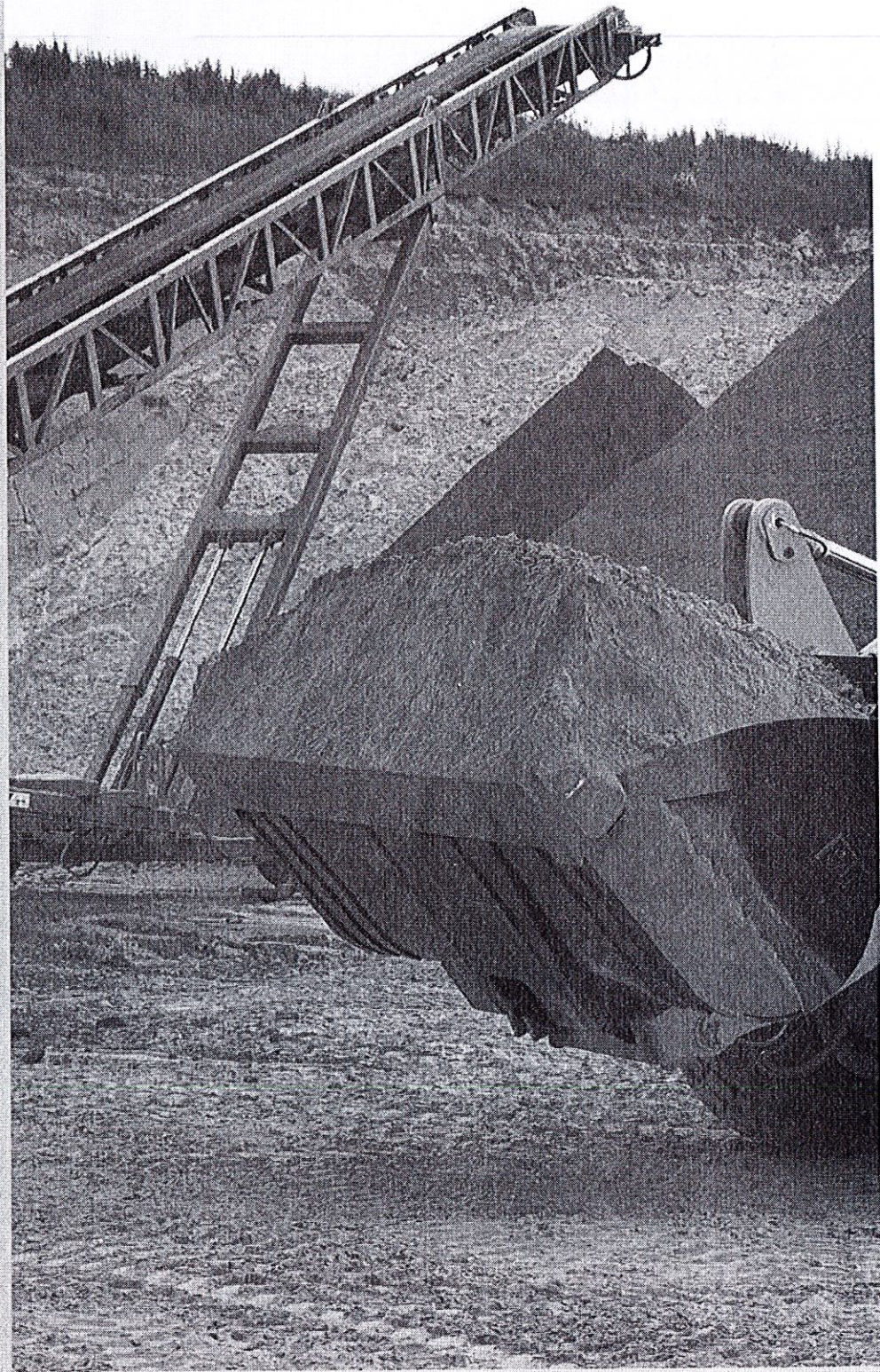
Meet your application requirements and individual preferences with Caterpillar's industry first Power Train Modes. Fine tune machine performance with adjustments at your fingertips through soft touch buttons and secondary display.

Configured for Success

A complete range of optional equipment gives you the versatility to configure an M Series Small Wheel Loader to be successful in your business.

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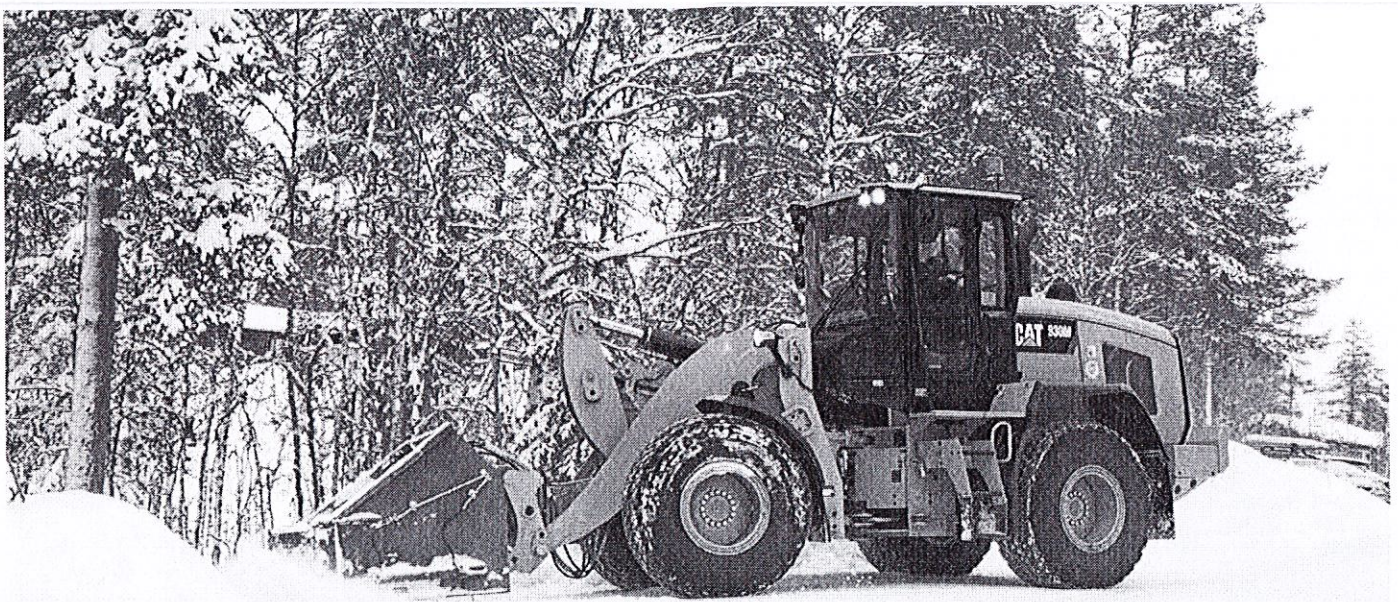
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*Environmental and customer friendly –
up to 95% recyclable content by weight*



The Cat 926M, 930M and 938M Small Wheel Loaders set the standard for productivity, fuel efficiency and operator comfort. The improved optimized Z-bar loader linkage delivers the quick loading performance of a traditional Z-bar with the parallelism and load handling capability of a tool carrier. A high torque, low speed C7.1 ACERT engine works in concert with an intelligent hystat power train to deliver fuel efficiency as standard. Meets Tier 4 Final/Stage IV emission standards with an environmentally friendly, Clean Emission Module designed to manage itself so you can concentrate on your work. Experience the new industry benchmark.



Efficiently Powerful

Experience hybrid-like fuel efficiency with more power when you need it.

Intelligent Power Management

The Caterpillar exclusive Intelligent Power Management system has been further enhanced to monitor operator input and power availability to keep the machine working at peak efficiency and provide the operator with greater customization to suit their application.

Power on Demand

A choice of Power Modes allows you to choose between maximum fuel efficiency or boosted power along with hydraulic speed.



Standard Power Mode

- Saves up to 10% fuel compared to K Series Cat loader.
- Delivers equal performance compared to K Series Cat Loader.
- Reduces cab sound levels down to a whisper quiet 64 dB(A) typical.
- Biggest gains seen during load and carry, snow removal and roading applications.

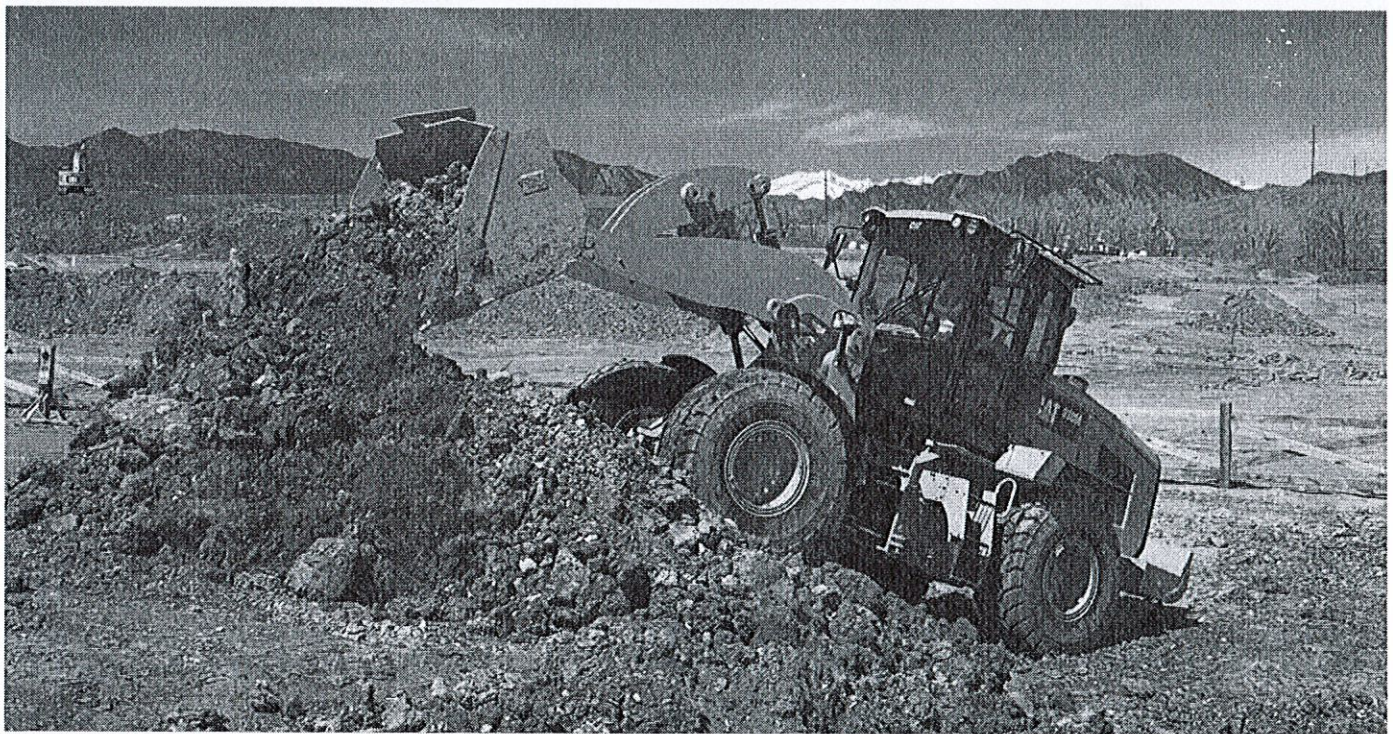
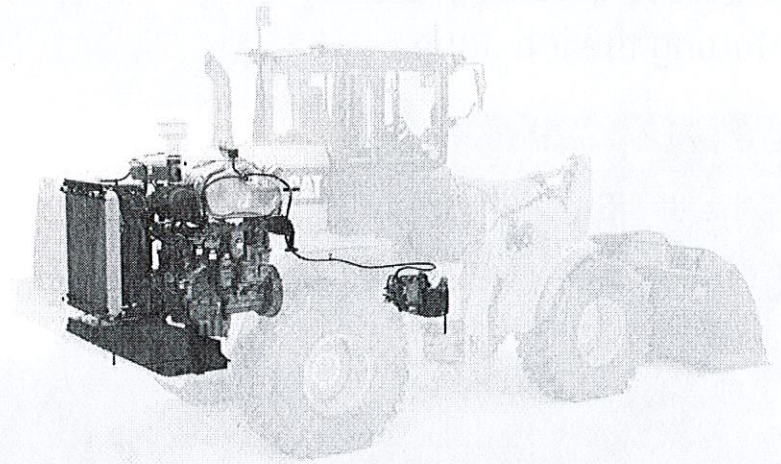
Performance Power Mode

- Enabled at the push of a button (HP+).
- Boosts engine power by up to 10% and engine speed by over 12%.
- Increases hydraulic cycle times and productivity.

Six Cylinders of Efficient Power

The Cat C7.1 ACERT engine provides cleaner, quieter operation while delivering superior performance and durability through a high torque, low speed design. The engine meets Tier 4 Final and Stage IV emission standards with a Clean Emissions Module that is designed to manage itself so you can concentrate on your work.

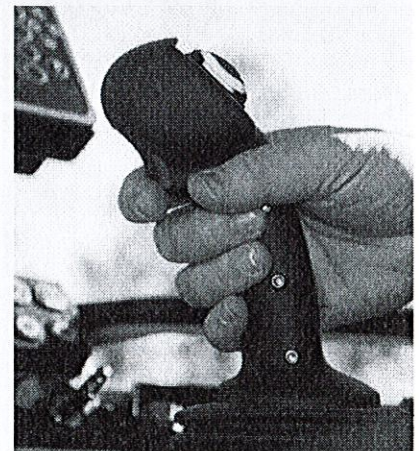
- **No downtime for regeneration** with a passive low temperature system that keeps you on the job.
- **Fit for Life Diesel Particulate Filter (DPF)** that is designed to exceed the engine overhaul life.
- **Extended fluid fill intervals** with minimal use of Diesel Exhaust Fluid (DEF) also referred to as Adblue™ with up to four fuel tank fills per DEF fill.
- **Configurable auto idle shut down** based on time and ambient temperature to further reduce fuel burn and keep operating costs low.



Power to the Ground

Lock up and go with fully locking front differential axles that can be engaged on the move at full torque with the pull of a trigger on the seat mounted joystick. Maximize your traction with optional Limited Slip Differential on the rear axle to keep you climbing.

Independent service brakes on front and rear axles provide robust stopping performance while a push button electronic park brake allows you to safely secure the machine with ease.



Work Made Easy

Getting the job done.



Optimized Z-bar Linkage

The Caterpillar patented optimized Z-bar linkage combines the digging efficiency of a traditional Z-bar with integrated tool carrier capabilities for great performance and versatility.

- **Perfect Parallelism** functionality available in Fork Mode gives truly predictable performance while high tilt forces throughout the working range help you safely and confidently handle loads with precise control.
- **Visibility** to bucket corners and fork tips at ground level remain excellent while sight lines at maximum lift are improved with a Generation II lift arm design.
- **Lift higher and reach further** with optional High Lift linkage available on all three models.

Quick Loading Performance Series Buckets

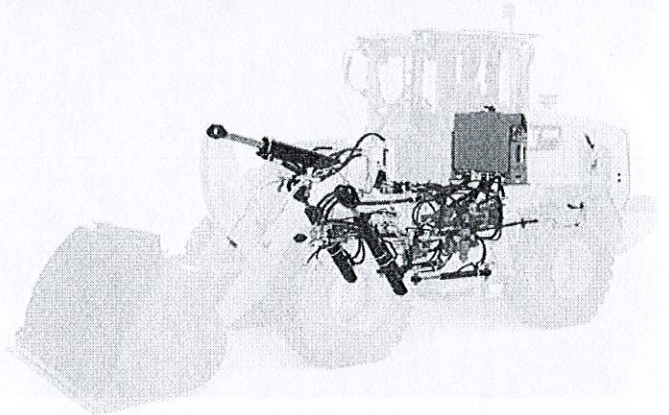
Performance Series Buckets deliver up to 10% higher fill factors and better material retention for significant productivity and fuel efficiency improvements. The buckets feature a longer floor to take a bigger bite of the pile, an open throat to heap higher and curved side bars to help with material retention. This optimized shape is echoed across the General Purpose, Light Material and High Dump bucket families.



Smooth and Predictable Multi-Function Performance

M Series machines feature an electro-hydraulic control system that is governed by the Intelligent Power Management system for peak efficiency. The load-sensing, variable flow system senses work demand and adjusts flow and pressure to match the operators request.

- **Multi-Function without compromise** through dedicated hydraulic systems featuring one pump for the Intelligent Hydrostatic drive, a 2nd pump for the implements, and a 3rd pump for the steering system. Drive, Lift and Steer simultaneously with smooth predictable control. The M Series simply does what you ask it to.
- **Programmable in-cab kick-outs** are easy to set on the go for tilt, lower and lift. This feature is ideal for applications where the work cycle is repeatable allowing you to quickly return to programmed set points such as ground and level.
- **Fine tune hydro-mechanical performance** with fully adjustable 3rd and 4th function flow through the secondary display (when equipped) for a perfect marriage between machine and work tool.



A black and white photograph showing the interior of a CAT machine cab. The view is from the driver's perspective, looking towards the front windshield. A large, dark, textured seat with a CAT logo on the backrest is the central focus. To the left of the seat is the steering wheel and a control panel with various buttons and a small LCD display. Above the seat, there are several gauges and a larger display screen. The cab has large windows providing a view of the outside environment, which appears to be a wooded area. The overall design is functional and ergonomic.

Enjoy All Day Comfort

Best seat on your job site.

Have a Seat and Experience:

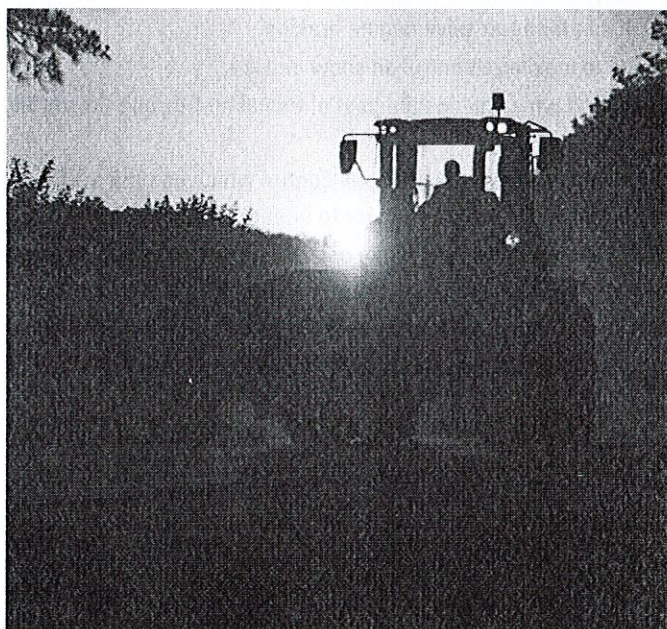
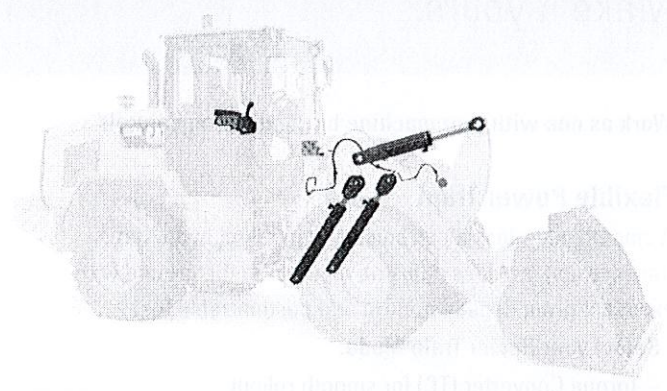
- **Seat-mounted controls** featuring a low effort joystick for lift and tilt functions along with integrated Forward/Neutral/Reverse switch, differential lock trigger and optional third and fourth auxiliary functions.
- **Superior all around visibility** with single piece front windshield, new parabolic external mirrors, redesigned Generation II linkage and clean hydraulic lines routing.
- **Automatic climate control** with heated rear glass and external mirrors for a quick defrost.
- **Fully adjustable controls** including steering column, joystick and seat suspension.
- **Information at a glance** with large primary LCD display and optional secondary display.
- **An extra eye on the job site** with optional rearview camera and integrated object detection.
- **A heated and cooled seat option** for added comfort in a wide range of climates.

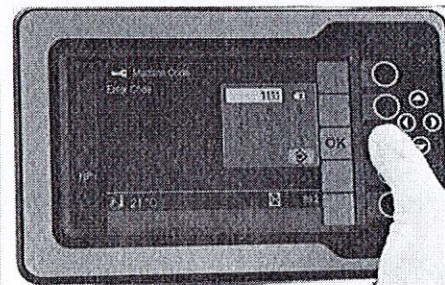
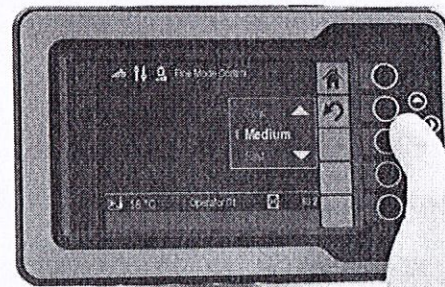
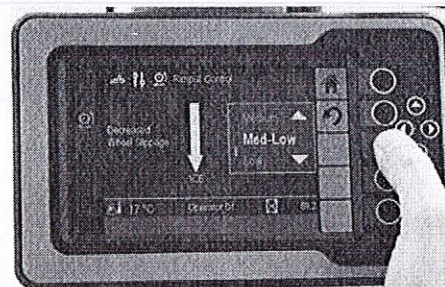
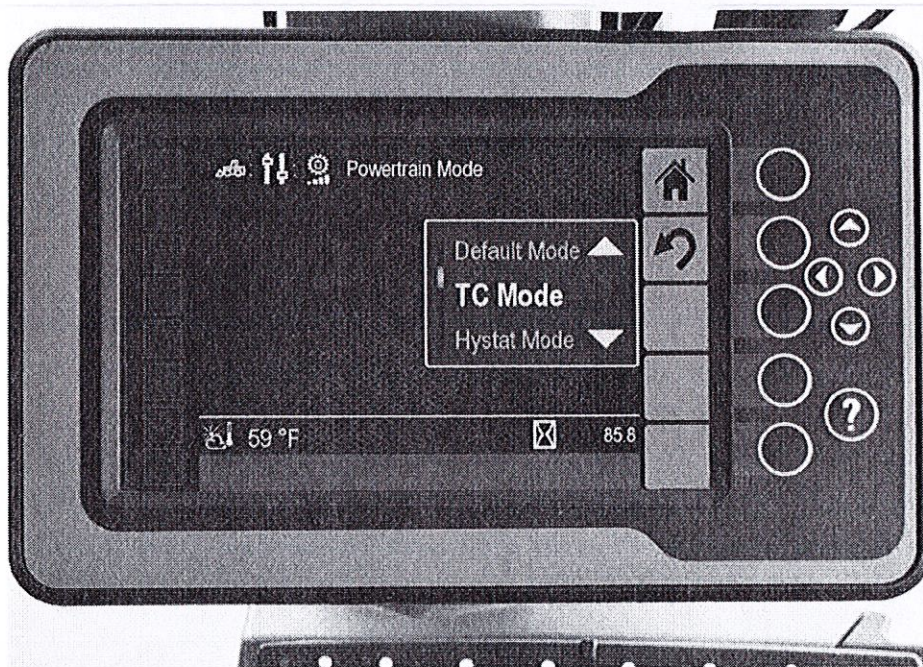


Enjoy coming to work with:

- **A spacious, safe, quiet operator environment** featuring ergonomic controls, seat belt notification and optional bluetooth radio with integrated microphone plus an MP3 port.
- **Easy access to vital machine parameters** with the optional* secondary display that works in conjunction with the standard soft touch panel to allow real time adjustments to machine features and an integrated help button with over 25 languages.
- **Comfortable soft stops at cylinder end stroke** conditions and programmed kick-out points with Caterpillar's exclusive electro-hydraulic cylinder snubbing.
- **An even smoother ride** with optional Ride Control when working unloaded and loaded with excellent material retention.
- **Early starts and late finishes** are made easier with optional LED lighting package that includes engine compartment lighting to illuminate the way for checking oil, and coolant level along with re-fueling the machine in dark conditions.

**Standard in Europe*





Customize Your Experience

Make it yours.

Work as one with your machine by customizing controls.

Flexible Power Train

A smooth, step-less electronically controlled hydrostatic transmission provides adjustable power to the ground with excellent groundspeed control and customizable feel.

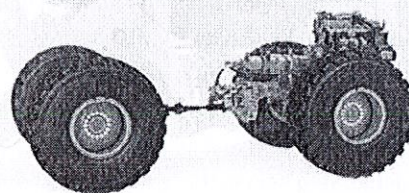
- **Select your Power Train Mode:**

- Torque Converter (TC) for smooth rollout.
- Hystat for aggressive engine braking.
- Ice to maximize control on snow and ice.
- Default which blends the best of Hystat and Torque Converter characteristic.

- **Reduce tire wear** using Rimpull control which enables you to match available tractive power to underfoot conditions.

- **Fine tune ground speed** when using work tools such as brooms, snow blowers and brush cutters with Creeper Control.

- **Set Directional Shift Response**, soft and smooth for material handling applications or sharp for aggressive operation.



Adjustable Electro-Hydraulic Controls

Easily customize hydraulic performance to meet your needs.

- **Optimize hydraulic modulation** with Fine Mode control when working with forks, material handling arms, and large tools.
- **Quicker hydraulic response** for fine grading at speed and agriculture applications through Lift and Tilt response settings.
- **Fully adjustable ride control** activation speed along with 3rd and 4th function auxiliary flows.

Operator Profiles and Coded Start

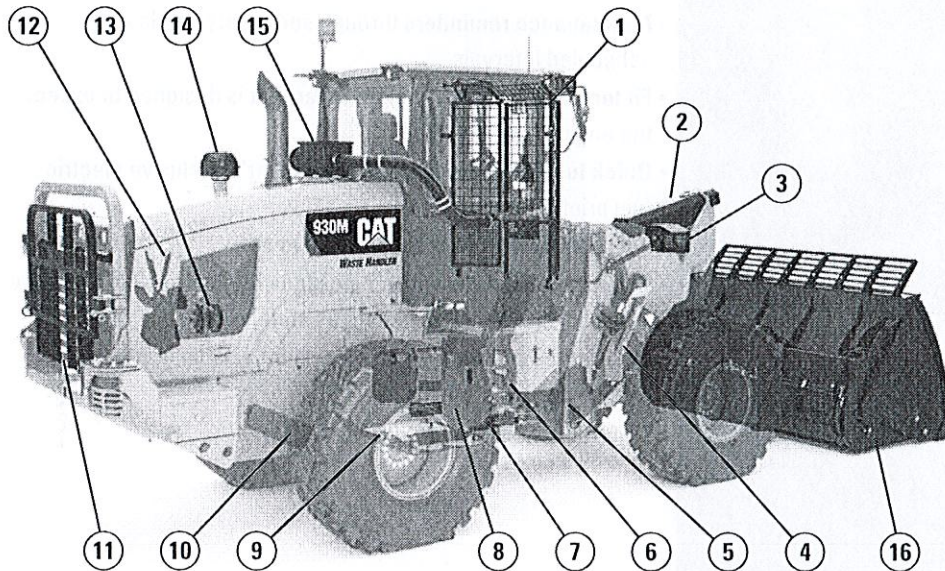
- The M Series Wheel Loaders will remember you and your personal settings with unique operator codes to make this machine truly yours and keep it secure.

Configured for Success

Ready to work for you.

The Way You Want It

A complete range of optional equipment and work tools give you the versatility to configure an M Series wheel loader to be successful in your business. Get with your Cat dealer to configure yours.



Guards:

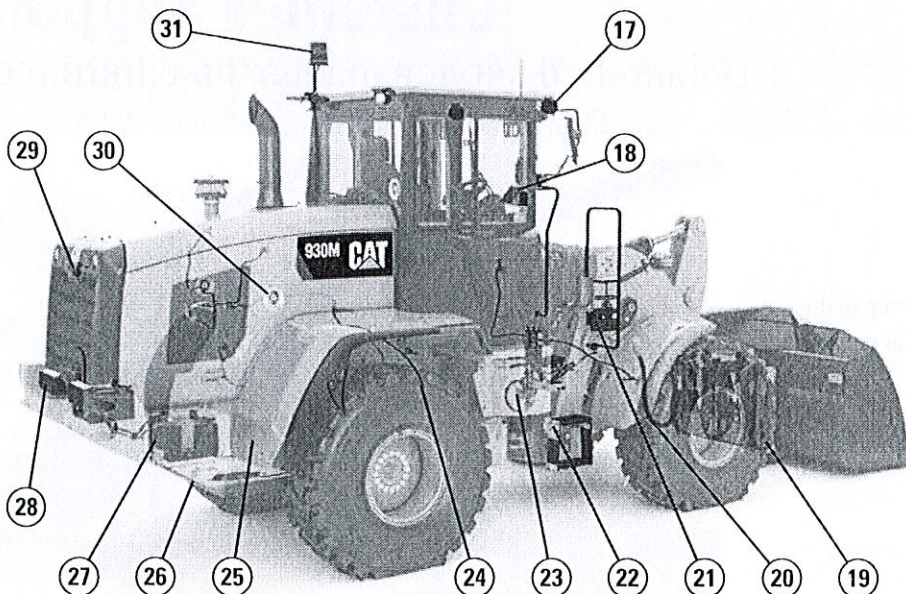
- 1) Windshield
- 2) Tilt cylinder
- 3) Lights
- 4) Fender deflectors
- 5) Drive shaft
- 6) Hitch
- 7) Steering cylinders
- 8) Side power train
- 9) Lower power train
- 10) Crank case
- 11) Rear radiator (930M and 938M only)

Debris Packages:

- 12) Reversing fan
- 13) Sealed alternator
- 14) Turbine precleaner
- 15) RESPA precleaner

Work Tools:

- 16) Full range of attachments



Other Options:

- 17) LED auxiliary lights
- 18) Secondary display*
- 19) Coupler: Fusion and ISO
- 20) Auxiliary hydraulics: 3rd and 4th
- 21) Autolube
- 22) Windshield washing platform
- 23) Ride control
- 24) Elevated breathers: axles and gear box
- 25) Fenders: extended and full coverage
- 26) Counterweights: heavy and Log/Agg
- 27) Cold start package
- 28) Rear object detection
- 29) Rearview camera*
- 30) Blue Angel certification
- 31) Beacon

*Standard equipment in Europe

Service

Schedule your downtime to maximize your up time.

Get up and running quickly with ground level, daily service access and optional engine compartment lighting. Three large service doors can be opened and closed in any order to give full access to filters and service points. Extended service intervals on hydraulic and power train filters reduce service time and maximize uptime. Additional service features include:



- **Product Link™ PRO standard** with three year subscription to VisionLink®.
- **Maintenance reminders** through secondary display at scheduled intervals.
- **Fit for Life Diesel Particulate Filter** that is designed to exceed the engine overhaul life.
- **Quick fuel filter service** with Caterpillar's exclusive electric fuel priming pump.
- **Jump start studs** as standard equipment.
- **Extended cleanouts** with single plane cooling system and wide spaced 6 fins per inch coolers as standard.
- **Integrated Autolube** (optional) with adjustable greasing frequency.

Customer Support

Unmatched service makes the difference.

Renowned Cat Dealer Support

Rely on your Cat dealer to help you every step of the way with new or used machine sales, rental or rebuild options to meet your business needs.

Maximize your machine uptime with unsurpassed worldwide parts availability, trained technicians and customer support agreements.

Let us earn your business. Experience an M Series Small Wheel Loader and join the Caterpillar family.



926M, 930M, 938M Wheel Loader Specifications

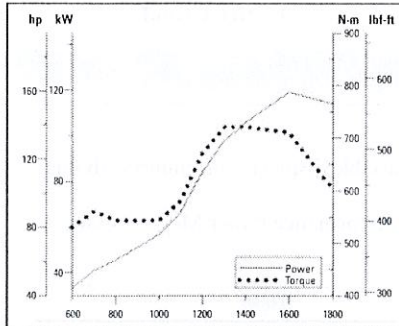
Engine

Cat C7.1 ACERT	926M				930M				938M			
Power Mode	Performance (HP+)		Standard		Performance (HP+)		Standard		Performance (HP+)		Standard	
	Range 1-4		Range 1-3*		Range 1-4		Range 1-3*		Range 1-4		Range 1-3*	
Maximum Rated Gross Power	kW	hp	kW	hp	kW	hp	kW	hp	kW	hp	kW	hp
Maximum Engine Speed	1,800 rpm		1,600 rpm		1,800 rpm		1,600 rpm		1,800 rpm		1,600 rpm	
ISO 14396	114	153	109	146	122	164	119	160	140	188	129	173
ISO 14396 (DIN)	114	155	109	148	122	166	119	162	140	190	129	175
Rated Net Power	1,800 rpm		1,600 rpm		1,800 rpm		1,600 rpm		1,800 rpm		1,600 rpm	
SAE J1349 at Minimum Fan Speed	110	148	105	141	117	157	115	154	136	182	125	168
ISO 9249 (1977)/EEC 80/1269 at Minimum Fan Speed	111	149	106	142	119	160	116	156	137	184	126	169
ISO 9249 (DIN) at Minimum Fan Speed	111	151	106	144	119	162	116	158	137	186	126	171
Maximum Gross Torque	N-m	lbf-ft	N-m	lbf-ft	N-m	lbf-ft	N-m	lbf-ft	N-m	lbf-ft	N-m	lbf-ft
ISO 14396	721	531	721	531	804	592	804	592	879	648	879	648
Maximum Net Torque												
SAE J1349	694	511	694	511	768	566	768	566	843	621	843	621
ISO 9249 (1977)/EEC 80/1269	702	517	702	517	776	572	776	572	852	628	852	628
Displacement	427 in ³		7.01 L		427 in ³		7.01 L		427 in ³		7.01 L	
Bore	4 in		105 mm		4 in		105 mm		4 in		105 mm	
Stroke	5 in		135 mm		5 in		135 mm		5 in		135 mm	

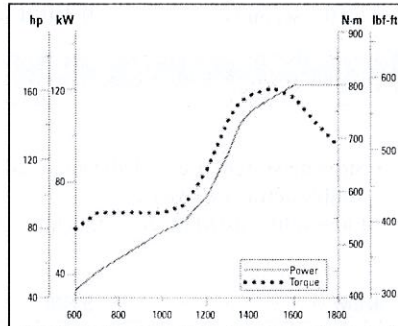
- * Range 4 power and torque is equal to Performance Mode with Caterpillar Power by Range technology.
- Net power ratings are tested at the reference conditions for the specified standard and denote power available at the flywheel when the engine is equipped with alternator, air cleaner, emission components and fan at specified speed.
- No derating required up to 3000 m (10,000 ft) altitude. Auto derate protects hydraulic and transmission systems.
- The Cat C7.1 ACERT engine meets Tier 4 Final/Stage IV off-highway emission standards.

Engine Torque

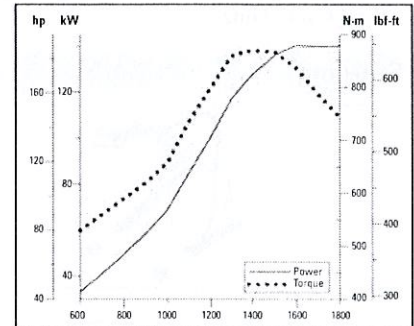
926M



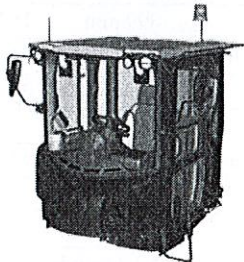
930M



938M



Cab

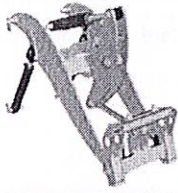


- ROPS: SAE J1040 MAY94, ISO 3471-1994.
- FOPS: SAE J/ISO 3449 APR98, Level II, ISO 3449 1992 Level II.
- The declared dynamic operator around pressures levels per ISO 6396:2008* while running in Performance Power Mode:
 - Standard cab: 68 ±3 dB(A) and Deluxe cab: 66 ±2 dB(A)

* The measurements were conducted with the cab doors and windows closed and at 70% of maximum engine cooling fan speed. The sound level may vary at different engine cooling fan speeds.

926M, 930M, 938M Wheel Loader Specifications

Loader Hydraulic System



- Implement system uses a dedicated load sensing variable displacement pump with dual double acting lift cylinders and a single double acting tilt cylinder.
- Flow values listed are for a machine running in Performance Power Mode (1,800 rpm).

* 3rd and 4th function flow is fully adjustable from 20% to 100% of maximum flow through the secondary display when equipped.

	926M		930M		938M	
Maximum Flow – Implement Pump	150 L/min	40 gal/min	190 L/min	50 gal/min	190 L/min	50 gal/min
3rd Function Maximum Flow*	150 L/min	40 gal/min	190 L/min	50 gal/min	190 L/min	50 gal/min
4th Function Maximum Flow*	150 L/min	40 gal/min	160 L/min	42 gal/min	160 L/min	42 gal/min
Maximum Working Pressure – Implement Pump	26 000 kPa	3,771 psi	25 000 kPa	3,626 psi	28 000 kPa	4,061 psi
Relief Pressure – Tilt Cylinder	28 000 kPa	4,061 psi	28 000 kPa	4,061 psi	30 000 kPa	4,351 psi
3rd and 4th Function Maximum Working Pressure	26 000 kPa	3,771 psi	25 000 kPa	3,626 psi	28 000 kPa	4,061 psi
3rd and 4th Function Relief Pressure	28 000 kPa	4,061 psi	28 000 kPa	4,061 psi	30 000 kPa	4,351 psi
Lift Cylinder: Double Acting						
Bore Diameter	110 mm	4.3 in	120 mm	4.7 in	120 mm	4.7 in
Rod Diameter	60 mm	2.4 in	65 mm	2.6 in	65 mm	2.6 in
Stroke	728 mm	28.7 in	728 mm	28.7 in	789 mm	31.1 in
Tilt Cylinder: Double Acting						
Bore Diameter	130 mm	5.1 in	150 mm	5.9 in	150 mm	5.9 in
Rod Diameter	70 mm	2.8 in	90 mm	3.5 in	90 mm	3.5 in
Stroke	555 mm	21.9 in	555 mm	21.9 in	555 mm	21.9 in
Cycle Times: Performance (HP+) at 1,800 rpm/ Standard Power Mode at 1,600 rpm						
Raise (Ground Level to Maximum Lift)	5.5/6.2 seconds		5.1/5.7 seconds		5.5/6.2 seconds	
Dump (at Maximum Lift Height)	1.5/1.7 seconds		1.5/1.7 seconds		1.5/1.7 seconds	
Float Down (Maximum Lift to Ground Level)	2.6/2.6 seconds		2.7/2.7 seconds		2.7/2.7 seconds	
Total Cycle Time	9.6/10.5 seconds		9.3/10.1 seconds		9.7/10.6 seconds	

Steering

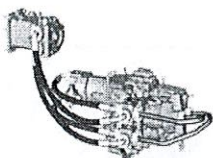


- Steering system uses a dedicated load sensing variable displacement pump with dual double acting cylinders.
- Flow values listed are for a machine running in Performance Power Mode (1,800 rpm).

	926M		930M		938M	
Steering Cylinder: Double Acting						
Bore Diameter	70 mm	2.8 in	70 mm	2.8 in	80 mm	3.1 in
Rod Diameter	40 mm	1.6 in	40 mm	1.6 in	50 mm	2 in
Stroke	438 mm	17.2 in	438 mm	17.2 in	399 mm	15.7 in
Maximum Flow – Steering Pump	130 L/min	34 gal/min	130 L/min	34 gal/min	130 L/min	34 gal/min
Maximum Working Pressure – Steering Pump	24 130 kPa	3,500 psi	24 130 kPa	3,500 psi	24 130 kPa	3,500 psi
Maximum Steering Torque						
0° (Straight Machine)	50 375 N·m	37,155 lbf-ft	50 375 N·m	37,155 lbf-ft	57 630 N·m	42,506 lbf-ft
40° (Full Turn)	37 620 N·m	27,747 lbf-ft	37 620 N·m	27,747 lbf-ft	42 570 N·m	31,398 lbf-ft
Steering Cycle Times (Full Left to Full Right)						
Minimum RPM: Pump Flow Limited	2.8 seconds		2.8 seconds		3.1 seconds	
Maximum RPM: 90 rpm Steering Wheel Speed	2.4 seconds		2.4 seconds		2.3 seconds	

926M, 930M, 938M Wheel Loader Specifications

Transmission



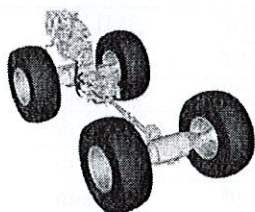
* Creeper control allows maximum speed range adjustability from 1 km/h (0.6 mph) to 13 km/h (8 mph) in Range 1 through the secondary display when equipped. Factory default is 7 km/h (4.4 mph).

	926M		930M		938M	
Forward and Reverse						
Range 1*	1-13 km/h	0.6-8 mph	1-13 km/h	0.6-8 mph	1-13 km/h	0.6-8 mph
Range 2	13 km/h	8 mph	13 km/h	8 mph	13 km/h	8 mph
Range 3	27 km/h	17 mph	27 km/h	17 mph	27 km/h	17 mph
Range 4	40 km/h	25 mph	40 km/h	25 mph	40 km/h	25 mph

Service Refill Capacities

	926M		930M		938M	
Fuel Tank	195 L	51.5 gal	195 L	51.5 gal	195 L	51.5 gal
Diesel Exhaust Fluid (DEF) Tank	19 L	5.0 gal	19 L	5.0 gal	19 L	5.0 gal
Cooling System	30 L	7.9 gal	30 L	7.9 gal	32 L	8.5 gal
Engine Crankcase	20 L	5.3 gal	20 L	5.3 gal	20 L	5.3 gal
Transmission (Gear Box)	8.5 L	2.2 gal	8.5 L	2.2 gal	11 L	2.9 gal
Front Axles	21 L	5.5 gal	26 L	6.9 gal	35 L	9.2 gal
Rear Axles	21 L	5.5 gal	25 L	6.6 gal	35 L	9.2 gal
Hydraulic System (Including Tank)	160 L	42.3 gal	165 L	43.6 gal	170 L	44.9 gal
Hydraulic Tank	90 L	23.8 gal	90 L	23.8 gal	90 L	23.8 gal

Power Train



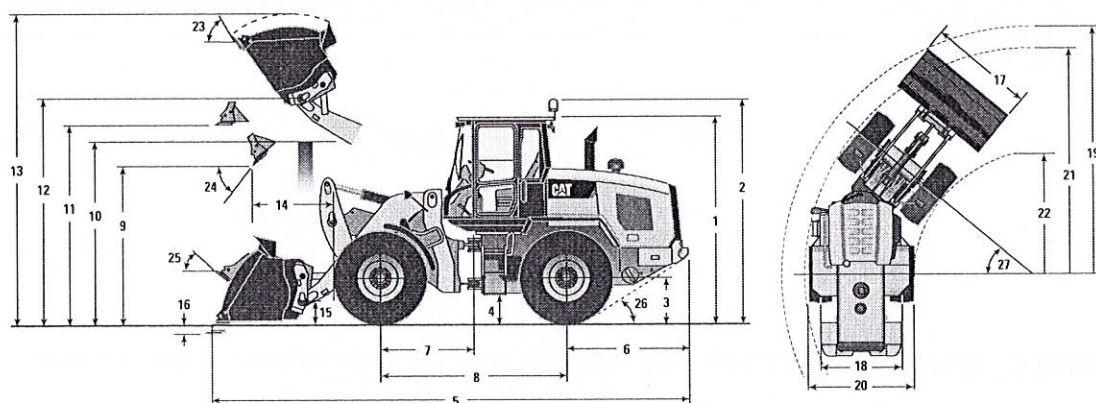
* Power train is governed by the Caterpillar exclusive Intelligent Power Management system to deliver peak performance and efficiency.

* Differential front locking axle can be engaged on the go at full torque to 10 km/h (6.2 mph) on the 926M/930M and up to 20 km/h (12.4 mph) on the 938M.

	926M	930M	938M
Front Axle	Fixed	Fixed	Fixed
Traction Aid (standard)	Locking differential	Locking differential	Locking differential
Rear Axle	Oscillating	Oscillating	Oscillating
Oscillation Angle by Tire Size			
17.5 R25	± 13.5 degrees	—	—
20.5 R25, 550/65, 600/65, 650/65	± 10.5 degrees	± 10.5 degrees	± 10.5 degrees
23.5 R25	—	—	± 7 degrees
Flexports, 750/65, 620/65, Skidder	± 7 degrees	± 7 degrees	± 7 degrees
Traction Aid (optional)	Limited slip differential	Limited slip differential	Limited slip differential
Brakes			
Service	Inboard wet disc	Inboard wet disc	Outboard wet disc
Park	Spring applied hydraulically released	Spring applied hydraulically released	Spring applied hydraulically released

926M, 930M, 938M Wheel Loader Specifications

Dimensions with Bucket



*Vary with bucket.

**Vary with tire.

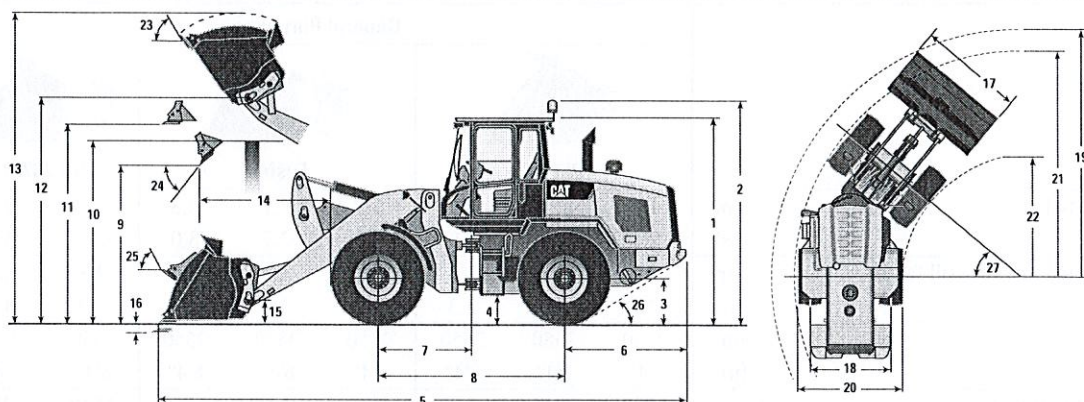
	Standard Lift					
	926M		930M		938M	
** 1 Height: Ground to Cab	3340 mm	10'11"	3340 mm	10'11"	3340 mm	10'11"
** 2 Height: Ground to Beacon	3707 mm	12'1"	3707 mm	12'1"	3707 mm	12'1"
** 3 Height: Ground Axle Center	685 mm	2'2"	685 mm	2'2"	685 mm	2'2"
** 4 Height: Ground Clearance	397 mm	1'3"	397 mm	1'3"	386 mm	1'3"
* 5 Length: Overall	7451 mm	24'5"	7530 mm	24'8"	7656 mm	25'1"
6 Length: Rear Axle to Bumper	1986 mm	6'6"	1993 mm	6'6"	1968 mm	6'5"
7 Length: Hitch to Front Axle	1500 mm	4'11"	1500 mm	4'11"	1525 mm	5'0"
8 Length: Wheel Base	3000 mm	9'10"	3000 mm	9'10"	3050 mm	10'0"
* 9 Clearance: Bucket at 45°	2885 mm	9'5"	2828 mm	9'3"	2834 mm	9'3"
** 10 Clearance: Load over Height	3330 mm	10'11"	3331 mm	10'11"	3354 mm	11'0"
** 11 Clearance: Level Bucket	3580 mm	11'8"	3580 mm	11'8"	3641 mm	11'11"
** 12 Height: Bucket Pin	3907 mm	12'9"	3907 mm	12'9"	3969 mm	13'0"
** 13 Height: Overall	5076 mm	16'7"	5147 mm	16'10"	5273 mm	17'3"
* 14 Reach: Bucket at 45°	1024 mm	3'4"	1064 mm	3'5"	1146 mm	3'9"
15 Carry Height: Bucket Pin	460 mm	1'6"	460 mm	1'6"	473 mm	1'6"
** 16 Dig Depth	100 mm	3.9"	100 mm	3.9"	101 mm	3.9"
17 Width: Bucket	2550 mm	8'4"	2550 mm	8'4"	2750 mm	9'0"
18 Width: Tread Center	1930 mm	6'3"	1930 mm	6'3"	2083 mm	6'10"
19 Turning Radius: Over Bucket	5924 mm	19'5"	5946 mm	19'6"	6134 mm	20'1"
20 Width: Over Tires	2540 mm	8'4"	2540 mm	8'4"	2693 mm	8'10"
21 Turning Radius: Outside of Tires	5402 mm	17'8"	5402 mm	17'8"	5546 mm	18'2"
22 Turning Radius: Inside of Tires	2851 mm	9'4"	2851 mm	9'4"	2843 mm	9'3"
23 Rack Angle at Full Lift	54°		54°		54°	
24 Dump Angle at Full Lift	50°		49°		49°	
25 Rack Angle at Carry	45°		45°		46°	
26 Departure Angle	33°		33°		33°	
27 Articulation Angle	40°		40°		40°	

Unless otherwise noted, all Standard Lift dimensions and specifications listed are for a machine configured with the following:

Optional Equipment	Full Fluids, 80 kg (176 lb) Operator, Secondary Steering, Ride Control, Crankcase, Power Train and Driveshaft Guards, Bucket with Bolt-on Cutting Edge					
Tires – Michelin	20.5R25 (L-3) XHA2		20.5R25 (L-3) XHA2		20.5R25 (L-3) XHA2	
Pressure in Front Tires	4.14 bar	60 psi	4.14 bar	60 psi	4.48 bar	65 psi
Pressure in Rear Tires	2.76 bar	40 psi	2.76 bar	40 psi	2.76 bar	40 psi
Counterweight Group	Heavy		Heavy		Heavy	

926M, 930M, 938M Wheel Loader Specifications

Dimensions with Bucket



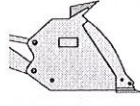


		High Lift					
		926M		930M		938M	
*Vary with bucket.							
**Vary with tire.							
** 1	Height: Ground to Cab	3340 mm	10'11"	3340 mm	10'11"	3340 mm	10'11"
** 2	Height: Ground to Beacon	3707 mm	12'1"	3707 mm	12'1"	3707 mm	12'1"
** 3	Height: Ground Axle Center	685 mm	2'2"	685 mm	2'2"	685 mm	2'2"
** 4	Height: Ground Clearance	397 mm	1'3"	397 mm	1'3"	386 mm	1'3"
* 5	Length: Overall	8093 mm	26'6"	8324 mm	27'3"	8397 mm	27'6"
6	Length: Rear Axle to Bumper	1986 mm	6'6"	1993 mm	6'6"	1968 mm	6'5"
7	Length: Hitch to Front Axle	1500 mm	4'11"	1500 mm	4'11"	1525 mm	5'0"
8	Length: Wheel Base	3000 mm	9'10"	3000 mm	9'10"	3050 mm	10'0"
* 9	Clearance: Bucket at 45°	3378 mm	11'0"	3421 mm	11'2"	3415 mm	11'2"
** 10	Clearance: Load over Height	3550 mm	11'7"	3540 mm	11'7"	3561 mm	11'8"
** 11	Clearance: Level Bucket	4073 mm	13'4"	4173 mm	13'8"	4222 mm	13'10"
** 12	Height: Bucket Pin	4400 mm	14'5"	4500 mm	14'9"	4550 mm	14'11"
** 13	Height: Overall	5569 mm	18'3"	5740 mm	18'9"	5853 mm	19'2"
* 14	Reach: Bucket at 45°	1261 mm	4'1"	1385 mm	4'6"	1413 mm	4'7"
15	Carry Height: Bucket Pin	644 mm	2'1"	684 mm	2'2"	682 mm	2'2"
** 16	Dig Depth	135 mm	5.3"	135 mm	5.3"	135 mm	5.3"
17	Width: Bucket	2550 mm	8'4"	2550 mm	8'4"	2750 mm	9'0"
18	Width: Tread Center	1930 mm	6'3"	1930 mm	6'3"	2083 mm	6'10"
19	Turning Radius: Over Bucket	6234 mm	20'5"	6328 mm	20'9"	6490 mm	21'3"
20	Width: Over Tires	2540 mm	8'4"	2540 mm	8'4"	2693 mm	8'10"
21	Turning Radius: Outside of Tires	5402 mm	17'8"	5402 mm	17'8"	5546 mm	18'2"
22	Turning Radius: Inside of Tires	2851 mm	9'4"	2851 mm	9'4"	2843 mm	9'3"
23	Rack Angle at Full Lift	51°		53°		53°	
24	Dump Angle at Full Lift	49°		48°		47°	
25	Rack Angle at Carry	49°		50°		50°	
26	Departure Angle	33°		33°		33°	
27	Articulation Angle	40°		40°		40°	

Unless otherwise noted, all High Lift dimensions and specifications listed are for a machine configured with the following:

Optional Equipment	Full Fluids, 80 kg (176 lb) Operator, Secondary Steering, Ride Control, Crankcase, Power Train and Driveshaft Guards, Bucket with Bolt-on Cutting Edge					
Tires – Michelin	20.5R25 (L-3) XHA2		20.5R25 (L-3) XHA2		20.5R25 (L-3) XHA2	
Pressure in Front Tires	4.14 bar	60 psi	4.14 bar	60 psi	4.48 bar	65 psi
Pressure in Rear Tires	2.76 bar	40 psi	2.76 bar	40 psi	2.76 bar	40 psi
Counterweight Group	Heavy		Heavy		Standard	

Bucket Specifications

926M Operating Specifications with Buckets

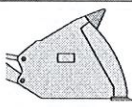
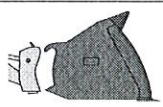
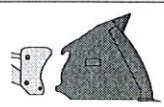
		General Purpose								High Lift
										
		Pin On			Fusion			ISO 23727		
Capacity – rated	m³	1.9	2.1	2.3	1.9	2.1	2.3	2.1	2.3	–
	yd³	2.5	2.7	3.0	2.5	2.7	3.0	2.7	3.0	–
Capacity – rated at 110% fill factor	m³	2.1	2.3	2.5	2.1	2.3	2.5	2.3	2.5	–
	yd³	2.7	3.0	3.3	2.7	3.0	3.3	3.0	3.3	–
17 Width: bucket	mm	2550	2550	2550	2550	2550	2550	2550	2550	–
	ft/in	8'4"	8'4"	8'4"	8'4"	8'4"	8'4"	8'4"	8'4"	–
Nominal material density, 110% fill factor	kg/m³	1889	1696	1529	1800	1612	1457	1530	1383	–
	lb/yd³	3,223	2,879	2,584	3,072	2,736	2,462	2,598	2,338	–
9 Clearance: full lift, 45° dump	mm	2912	2855	2807	2885	2828	2779	2727	2677	+493
	ft/in	9'6"	9'4"	9'2"	9'5"	9'3"	9'1"	8'11"	8'9"	+1'7"
14 Reach: full lift, 45° dump	mm	992	1033	1070	1024	1064	1102	1190	1227	+237
	ft/in	3'3"	3'4"	3'6"	3'4"	3'5"	3'7"	3'10"	4'0"	+9"
Reach: 2130 mm (7'0") clearance, 45° dump	mm	1547	1560	1573	1566	1578	1590	1649	1657	+572
	ft/in	5'0"	5'1"	5'1"	5'1"	5'2"	5'2"	5'4"	5'5"	+1'10"
Reach: level arm, level bucket	mm	2278	2350	2413	2320	2392	2455	2553	2616	+523
	ft/in	7'5"	7'8"	7'11"	7'7"	7'10"	8'0"	8'4"	8'6"	+1'8"
16 Dig depth	mm	100	100	100	100	100	100	94	94	+35
	in	3.9"	3.9"	3.9"	3.9"	3.9"	3.9"	3.7"	3.7"	+1.4"
5 Length: overall	mm	7409	7481	7544	7451	7523	7586	7679	7742	+642
	ft/in	24'3"	24'6"	24'9"	24'5"	24'8"	24'10"	25'2"	25'4"	+2'1"
13 Height: overall	mm	5052	5122	5180	5076	5147	5205	5255	5313	+493
	ft/in	16'6"	16'9"	16'11"	16'7"	16'10"	17'0"	17'2"	17'5"	+1'7"
19 Turning radius: over bucket	mm	5912	5933	5951	5924	5946	5964	5975	5995	+311
	ft/in	19'4"	19'5"	19'6"	19'5"	19'6"	19'6"	19'7"	19'8"	+1'0"
Tipping load – straight, ISO 14397-1*	kg	9179	9115	9008	8786	8701	8621	8268	8190	–2171
	lb	20,235	20,094	19,859	19,370	19,182	19,005	18,227	18,056	–4,786
Tipping load – straight, rigid tire**	kg	9561	9494	9384	9152	9064	8980	8612	8531	–2262
	lb	21,078	20,931	20,687	20,177	19,982	19,797	18,987	18,808	–4,985
Tipping load – full turn, ISO 14397-1*	kg	7894	7836	7737	7524	7445	7371	7070	6999	–1911
	lb	17,403	17,276	17,057	16,587	16,414	16,251	15,587	15,429	–4,213
Tipping load – full turn, rigid tire**	kg	8398	8336	8231	8004	7921	7842	7522	7445	–2033
	lb	18,514	18,378	18,145	17,646	17,461	17,288	16,582	16,414	–4,482
Breakout force	kg	10 685	9966	9388	10 229	9552	9023	8235	7822	–494
	lb	23,557	21,972	20,697	22,550	21,059	19,893	18,154	17,245	–1,089
Operating weight	kg	12 696	12 715	12 778	13 050	13 094	13 132	13 060	13 098	+278
	lb	27,989	28,031	28,171	28,770	28,867	28,950	28,792	28,876	+613

*Full compliance to ISO 14397-1 (2007) Sections 1 thru 6, which requires 2% verification between calculation and testing.

**Compliance to ISO 14397-1 (2007) Sections 1 thru 5.

Bucket Specifications

926M Operating Specifications with Buckets

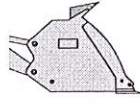


		Light Material								High Lift
										
		Pin On			Fusion			ISO 23727		
Capacity – rated	m³	3.1	3.5	3.8	3.1	3.5	3.8	3.5	4.1	–
	yd³	4.1	4.6	5.0	4.0	4.6	5.0	4.6	5.4	–
Capacity – rated at 110% fill factor	m³	3.4	3.9	4.2	3.4	3.9	4.2	3.9	4.5	–
	yd³	4.5	5.0	5.5	4.4	5.0	5.5	5.0	5.9	–
17 Width: bucket	mm	2750	2750	2750	2750	2750	2750	2750	2750	–
	ft/in	9'0"	9'0"	9'0"	9'0"	9'0"	9'0"	9'0"	9'0"	–
Nominal material density, 110% fill factor	kg/m³	1094	951	860	1058	904	817	864	709	–
	lb/yd³	1,828	1,614	1,441	1,785	1,534	1,369	1,466	1,194	–
9 Clearance: full lift, 45° dump	mm	2703	2631	2573	2672	2600	2543	2527	2407	+505
	ft/in	8'10"	8'7"	8'5"	8'9"	8'6"	8'4"	8'3"	7'10"	+1'7"
14 Reach: full lift, 45° dump	mm	1066	1138	1196	1094	1167	1225	1206	1326	+256
	ft/in	3'5"	3'8"	3'11"	3'7"	3'9"	4'0"	3'11"	4'4"	+10"
Reach: 2130 mm (7'0") clearance, 45° dump	mm	1509	1538	1559	1521	1549	1569	1538	1571	+592
	ft/in	4'11"	5'0"	5'1"	4'11"	5'0"	5'1"	5'0"	5'1"	+1'11"
Reach: level arm, level bucket	mm	2500	2603	2685	2543	2645	2726	2724	2894	+523
	ft/in	8'2"	8'6"	8'9"	8'4"	8'8"	8'11"	8'11"	9'5"	+1'8"
16 Dig depth	mm	100	100	100	100	100	100	125	125	+35
	in	3.9"	3.9"	3.9"	3.9"	3.9"	3.9"	4.9"	4.9"	+1.4"
5 Length: overall	mm	7632	7734	7816	7674	7776	7858	7875	8045	+642
	ft/in	25'0"	25'4"	25'7"	25'2"	25'6"	25'9"	25'10"	26'4"	+2'1"
13 Height: overall	mm	5179	5284	5356	5204	5309	5383	5385	5552	+493
	ft/in	16'11"	17'4"	17'6"	17'0"	17'5"	17'7"	17'8"	18'2"	+1'7"
19 Turning radius: over bucket	mm	6068	6099	6124	6082	6112	6138	6126	6183	+313
	ft/in	19'10"	20'0"	20'1"	19'11"	20'0"	20'1"	20'1"	20'3"	+1'0"
Tipping load – straight, ISO 14397-1*	kg	8719	8566	8424	8359	8181	8042	7824	7543	–2100
	lb	19,221	18,884	18,570	18,428	18,035	17,730	17,248	16,628	–4,630
Tipping load – straight, rigid tire**	kg	9082	8923	8775	8707	8522	8378	8150	7857	–2188
	lb	20,022	19,671	19,344	19,196	18,786	18,469	17,967	17,321	–4,823
Tipping load – full turn, ISO 14397-1*	kg	7463	7321	7190	7124	6957	6830	6652	6390	–1851
	lb	16,452	16,139	15,852	15,706	15,337	15,058	14,664	14,088	–4,080
Tipping load – full turn, rigid tire**	kg	7939	7788	7649	7579	7401	7266	7076	6798	–1969
	lb	17,503	17,169	16,863	16,708	16,316	16,019	15,600	14,987	–4,341
Breakout force	kg	8616	7890	7768	8301	7609	7490	7094	5961	–423
	lb	18,995	17,393	17,124	18,301	16,774	16,513	15,638	13,141	–932
Operating weight	kg	13 006	13 092	13 158	13 337	13 455	13 521	13 375	13 538	+278
	lb	28,674	28,862	29,008	29,403	29,663	29,808	29,487	29,847	+613

*Full compliance to ISO 14397-1 (2007) Sections 1 thru 6, which requires 2% verification between calculation and testing.

**Compliance to ISO 14397-1 (2007) Sections 1 thru 5.

Bucket Specifications

930M Operating Specifications with Buckets

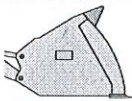


		General Purpose								High Lift
										
		Pin On			Fusion			ISO 23727		
Capacity – rated	m³	2.1	2.3	2.5	2.1	2.3	2.5	2.1	2.3	–
	yd³	2.7	3.0	3.3	2.7	3.0	3.3	2.7	3.0	–
Capacity – rated at 110% fill factor	m³	2.3	2.5	2.8	2.3	2.5	2.8	2.3	2.5	–
	yd³	3.0	3.3	3.6	3.0	3.3	3.6	3.0	3.3	–
17 Width: bucket	mm	2550	2550	2550	2550	2550	2550	2550	2550	–
	ft/in	8'4"	8'4"	8'4"	8'4"	8'4"	8'4"	8'4"	8'4"	–
Nominal material density, 110% fill factor	kg/m³	1921	1733	1571	1833	1658	1505	1742	1575	–
	lb/yd³	3,260	2,929	2,645	3,112	2,803	2,535	2,957	2,662	–
9 Clearance: full lift, 45° dump	mm	2855	2807	2761	2828	2779	2733	2727	2677	+593
	ft/in	9'4"	9'2"	9'0"	9'3"	9'1"	8'11"	8'11"	8'9"	+1'11"
14 Reach: full lift, 45° dump	mm	1033	1070	1109	1064	1102	1140	1190	1227	+320
	ft/in	3'4"	3'6"	3'7"	3'5"	3'7"	3'8"	3'10"	4'0"	+13"
Reach: 2130 mm (7'0") clearance, 45° dump	mm	1560	1573	1587	1578	1590	1603	1649	1657	+717
	ft/in	5'1"	5'1"	5'2"	5'2"	5'2"	5'3"	5'4"	5'5"	+2'4"
Reach: level arm, level bucket	mm	2350	2413	2475	2392	2455	2517	2553	2616	+653
	ft/in	7'8"	7'11"	8'1"	7'10"	8'0"	8'3"	8'4"	8'6"	+2'1"
16 Dig depth	mm	100	100	100	100	100	100	94	94	+35
	in	3.9"	3.9"	3.9"	3.9"	3.9"	3.9"	3.7"	3.7"	+1.4"
5 Length: overall	mm	7488	7551	7613	7530	7593	7655	7686	7749	+794
	ft/in	24'6"	24'9"	24'11"	24'8"	24'10"	25'1"	25'2"	25'5"	+2'7"
13 Height: overall	mm	5122	5180	5239	5147	5205	5264	5255	5313	+593
	ft/in	16'9"	16'11"	17'2"	16'10"	17'0"	17'3"	17'2"	17'5"	+1'11"
19 Turning radius: over bucket	mm	5933	5951	5970	5946	5964	5983	5975	5995	+384
	ft/in	19'5"	19'6"	19'7"	19'6"	19'6"	19'7"	19'7"	19'8"	+1'3"
Tipping load – straight, ISO 14397-1*	kg	10 370	10 258	10 119	9941	9855	9734	9450	9367	–2823
	lb	22,862	22,615	22,309	21,915	21,726	21,460	20,834	20,651	–6,222
Tipping load – straight, rigid tire**	kg	10 802	10 685	10 541	10 355	10 265	10 140	9844	9758	–2940
	lb	23,814	23,557	23,239	22,828	22,631	22,354	21,702	21,511	–6,482
Tipping load – full turn, ISO 14397-1*	kg	8873	8769	8639	8469	8390	8278	8047	7971	–2471
	lb	19,561	19,332	19,045	18,670	18,497	18,249	17,740	17,572	–5,448
Tipping load – full turn, rigid tire**	kg	9439	9329	9190	9009	8926	8806	8560	8480	–2629
	lb	20,810	20,566	20,260	19,862	19,678	19,414	18,872	18,694	–5,795
Breakout force	kg	12 891	12 158	11 488	12 371	11 698	11 080	10 707	10 182	–299
	lb	28,419	26,803	25,326	27,274	25,790	24,427	23,604	22,448	–658
Operating weight	kg	13 627	13 691	13 789	14 007	14 044	14 127	13 973	14 011	+232
	lb	30,042	30,182	30,400	30,879	30,962	31,144	30,804	30,888	+511

*Full compliance to ISO 14397-1 (2007) Sections 1 thru 6, which requires 2% verification between calculation and testing.

**Compliance to ISO 14397-1 (2007) Sections 1 thru 5.

Bucket Specifications

930M Operating Specifications with Buckets

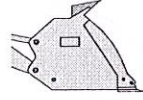


		Light Material									High Lift
											
		Pin On			Fusion			ISO 23727			
Capacity – rated	m ³	3.5	3.8	4.2	3.5	3.8	4.2	3.5	5.0	–	
	yd ³	4.6	5.0	5.5	4.6	5.0	5.5	4.6	6.5	–	
Capacity – rated at 110% fill factor	m ³	3.9	4.2	4.6	3.9	4.2	4.6	3.9	5.5	–	
	yd ³	5.0	5.5	6.0	5.0	5.5	6.0	5.0	7.2	–	
17 Width: bucket	mm	2750	2750	2750	2750	2750	2750	2750	2750	–	
	ft/in	9'0"	9'0"	9'0"	9'0"	9'0"	9'0"	9'0"	9'0"	–	
Nominal material density, 110% fill factor	kg/m ³	1083	981	874	1034	936	834	989	665	–	
	lb/yd ³	1,838	1,643	1,484	1,755	1,568	1,416	1,678	1,120	–	
9 Clearance: full lift, 45° dump	mm	2631	2573	2510	2600	2543	2480	2527	2357	+607	
	ft/in	8'7"	8'5"	8'2"	8'6"	8'4"	8'1"	8'3"	7'8"	+1'11"	
14 Reach: full lift, 45° dump	mm	1138	1196	1259	1167	1225	1287	1206	1377	+342	
	ft/in	3'8"	3'11"	4'1"	3'9"	4'0"	4'2"	3'11"	4'6"	+13"	
Reach: 2130 mm (7'0") clearance, 45° dump	mm	1538	1559	1579	1549	1569	1588	1538	1581	+746	
	ft/in	5'0"	5'1"	5'2"	5'0"	5'1"	5'2"	5'0"	5'2"	+2'5"	
Reach: level arm, level bucket	mm	2603	2685	2773	2645	2726	2815	2724	2966	+653	
	ft/in	8'6"	8'9"	9'1"	8'8"	8'11"	9'2"	8'11"	9'8"	+2'1"	
16 Dig depth	mm	100	100	100	100	100	100	125	125	+35	
	in	3.9"	3.9"	3.9"	3.9"	3.9"	3.9"	4.9"	4.9"	+1.4"	
5 Length: overall	mm	7741	7823	7911	7783	7865	7953	7882	8124	+794	
	ft/in	25'4"	25'7"	25'11"	25'6"	25'9"	26'1"	25'10"	26'7"	+2'7"	
13 Height: overall	mm	5284	5356	5445	5309	5383	5471	5385	5840	+593	
	ft/in	17'4"	17'6"	17'10"	17'5"	17'7"	17'11"	17'8"	19'1"	+1'11"	
19 Turning radius: over bucket	mm	6099	6124	6152	6112	6138	6166	6126	6208	+386	
	ft/in	20'0"	20'1"	20'2"	20'0"	20'1"	20'2"	20'1"	20'4"	+1'3"	
Tipping load – straight, ISO 14397-1*	kg	9796	9643	9512	9395	9247	9118	8988	8667	–2712	
	lb	21,596	21,260	20,969	20,713	20,386	20,102	19,814	19,107	–5,978	
Tipping load – straight, rigid tire**	kg	10 204	10 045	9908	9787	9632	9498	9362	9028	–2825	
	lb	22,496	22,145	21,843	21,576	21,235	20,940	20,639	19,904	–6,227	
Tipping load – full turn, ISO 14397-1*	kg	8337	8198	8077	7960	7825	7707	7613	7313	–2377	
	lb	18,378	18,072	17,805	17,549	17,251	16,990	16,783	16,121	–5,241	
Tipping load – full turn, rigid tire**	kg	8869	8721	8592	8468	8325	8199	8099	7780	–2529	
	lb	19,552	19,226	18,942	18,669	18,352	18,075	17,854	17,150	–5,575	
Breakout force	kg	10 278	10 140	9024	9926	9792	8740	9293	7810	–250	
	lb	22,658	22,354	19,895	21,883	21,588	19,267	20,488	17,218	–551	
Operating weight	kg	14 004	14 070	14 134	14 367	14 433	14 497	14 288	14 510	+232	
	lb	30,874	31,019	31,160	31,674	31,819	31,960	31,498	31,990	+511	

*Full compliance to ISO 14397-1 (2007) Sections 1 thru 6, which requires 2% verification between calculation and testing.

**Compliance to ISO 14397-1 (2007) Sections 1 thru 5.

Bucket Specifications

938M Operating Specifications with Buckets

		General Purpose								High Lift
										
		Pin On			Fusion			ISO 23727		
Capacity – rated	m ³	2.5	2.7	2.9	2.5	2.7	2.9	2.5	2.7	–
	yd ³	3.3	3.5	3.8	3.3	3.5	3.8	3.3	3.5	–
Capacity – rated at 110% fill factor	m ³	2.8	3.0	3.2	2.8	3.0	3.2	2.8	3.0	–
	yd ³	3.6	3.9	4.2	3.6	3.9	4.2	3.6	3.9	–
17 Width: bucket	mm	2750	2750	2750	2750	2750	2750	2750	2750	–
	ft/in	9'0"	9'0"	9'0"	9'0"	9'0"	9'0"	9'0"	9'0"	–
Nominal material density, 110% fill factor	kg/m ³	1912	1755	1622	1823	1673	1546	1751	1605	–
	lb/yd ³	3,220	2,947	2,716	3,070	2,809	2,589	2,949	2,695	–
9 Clearance: full lift, 45° dump	mm	2869	2822	2786	2834	2787	2751	2739	2691	+581
	ft/in	9'4"	9'3"	9'1"	9'3"	9'1"	9'0"	8'11"	8'9"	+1'10"
14 Reach: full lift, 45° dump	mm	1108	1146	1178	1146	1185	1216	1264	1302	+267
	ft/in	3'7"	3'9"	3'10"	3'9"	3'10"	3'11"	4'1"	4'3"	+11"
Reach: 2130 mm (7'0") clearance, 45° dump	mm	1637	1652	1664	1658	1672	1684	1725	1736	+666
	ft/in	5'4"	5'5"	5'5"	5'5"	5'5"	5'6"	5'7"	5'8"	+2'2"
Reach: level arm, level bucket	mm	2452	2514	2563	2504	2566	2615	2655	2717	+607
	ft/in	8'0"	8'2"	8'4"	8'2"	8'5"	8'6"	8'8"	8'10"	+1'11"
16 Dig depth	mm	100	100	100	101	101	101	94	94	+35
	in	3.9"	3.9"	3.9"	4"	4"	4"	3.7"	3.7"	+1.4"
5 Length: overall	mm	7604	7666	7715	7656	7718	7767	7802	7864	+740
	ft/in	24'11"	25'1"	25'3"	25'1"	25'3"	25'5"	25'7"	25'9"	+2'5"
13 Height: overall	mm	5242	5301	5348	5273	5332	5379	5375	5434	+581
	ft/in	17'2"	17'4"	17'6"	17'3"	17'5"	17'7"	17'7"	17'9"	+1'10"
19 Turning radius: over bucket	mm	6117	6136	6150	6134	6152	6167	6160	6180	+357
	ft/in	20'0"	20'1"	20'2"	20'1"	20'2"	20'2"	20'2"	20'3"	+1'2"
Tipping load – straight, ISO 14397-1*	kg	12 344	12 245	12 161	11 820	11 721	11 641	11 349	11 245	–3607***
	lb	27,214	26,995	26,810	26,057	25,840	25,663	25,019	24,791	–7,952
Tipping load – straight, rigid tire**	kg	12 859	12 755	12 668	12 312	12 210	12 126	11 822	11 714	–3757***
	lb	28,348	28,120	27,928	27,143	26,917	26,732	26,062	25,824	–8,284
Tipping load – full turn, ISO 14397-1*	kg	10 517	10 426	10 350	10 028	9938	9864	9632	9536	–3125***
	lb	23,186	22,986	22,817	22,107	21,909	21,747	21,234	21,024	–6,890
Tipping load – full turn, rigid tire**	kg	11 189	11 092	11 011	10 668	10 572	10 494	10 246	10 145	–3325***
	lb	24,666	24,453	24,274	23,518	23,307	23,135	22,589	22,366	–7,330
Breakout force	kg	13 813	13 082	12 552	13 170	12 498	12 009	11 583	11 039	–502
	lb	30,451	28,841	27,673	29,035	27,553	26,474	25,537	24,336	–1,107
Operating weight	kg	16 001	16 046	16 082	16 427	16 472	16 508	16 316	16 367	–102***
	lb	35,276	35,374	35,455	36,216	36,313	36,393	35,970	36,083	–224

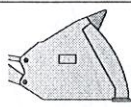
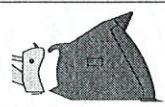
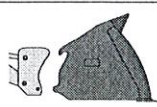
*Full compliance to ISO 14397-1 (2007) Sections 1 thru 6, which requires 2% verification between calculation and testing.

**Compliance to ISO 14397-1 (2007) Sections 1 thru 5.

***938M High Lift is configured with standard counterweight.

Bucket Specifications

938M Operating Specifications with Buckets

		Light Material								High Lift
										
		Pin On			Fusion			ISO 23727		
Capacity – rated	m³	3.8	4.2	5.0	3.8	4.2	5.0	4.2	5.0	–
	yd³	5.0	5.5	6.5	5.0	5.5	6.5	5.4	6.5	–
Capacity – rated at 110% fill factor	m³	4.2	4.6	5.5	4.2	4.6	5.5	4.5	5.5	–
	yd³	5.5	6.0	7.2	5.5	6.0	7.2	5.9	7.2	–
17 Width: bucket	mm	2750	2750	2750	2750	2750	2750	2750	2750	–
	ft/in	9'0"	9'0"	9'0"	9'0"	9'0"	9'0"	9'0"	9'0"	–
Nominal material density, 110% fill factor	kg/m³	1198	1068	897	1141	1019	853	1005	822	–
	lb/yd³	2,007	1,813	1,510	1,912	1,730	1,437	1,693	1,384	–
9 Clearance: full lift, 45° dump	mm	2633	2571	2571	2596	2534	2534	2468	2417	+598
	ft/in	8'7"	8'5"	8'5"	8'6"	8'3"	8'3"	8'1"	7'11"	+1'11"
14 Reach: full lift, 45° dump	mm	1232	1294	1294	1268	1331	1331	1362	1413	+292
	ft/in	4'0"	4'2"	4'2"	4'1"	4'4"	4'4"	4'5"	4'7"	+11"
Reach: 2130 mm (7'0") clearance, 45° dump	mm	1631	1654	1654	1644	1666	1666	1650	1664	+695
	ft/in	5'4"	5'5"	5'5"	5'4"	5'5"	5'5"	5'4"	5'5"	+2'3"
Reach: level arm, level bucket	mm	2723	2812	2812	2775	2864	2864	2932	3004	+607
	ft/in	8'11"	9'2"	9'2"	9'1"	9'4"	9'4"	9'7"	9'10"	+1'11"
16 Dig depth	mm	100	100	100	101	101	101	125	125	+35
	in	3.9"	3.9"	3.9"	4"	4"	4"	4.9"	4.9"	+1.4"
5 Length: overall	mm	7875	7964	7964	7928	8016	8016	8105	8177	+740
	ft/in	25'10"	26'1"	26'1"	26'0"	26'3"	26'3"	26'7"	26'9"	+2'5"
13 Height: overall	mm	5418	5507	5786	5450	5539	5820	5614	5902	+581
	ft/in	17'9"	18'0"	18'11"	17'10"	18'2"	19'1"	18'5"	19'4"	+1'10"
19 Turning radius: over bucket	mm	6198	6227	6227	6216	6244	6244	6258	6282	+365
	ft/in	20'4"	20'5"	20'5"	20'4"	20'5"	20'5"	20'6"	20'7"	+1'2"
Tipping load – straight, ISO 14397-1*	kg	11 794	11 637	11 636	11 289	11 151	11 120	10 728	10 713	–3443***
	lb	26,002	25,654	25,653	24,887	24,582	24,515	23,652	23,617	–7,591
Tipping load – straight, rigid tire**	kg	12 286	12 122	12 121	11 759	11 615	11 583	11 175	11 159	–3586***
	lb	27,085	26,723	26,722	25,924	25,607	25,537	24,637	24,601	–7,907
Tipping load – full turn, ISO 14397-1*	kg	10 015	9870	9866	9542	9416	9383	9059	9040	–2986***
	lb	22,078	21,758	21,750	21,037	20,759	20,686	19,972	19,930	–6,583
Tipping load – full turn, rigid tire**	kg	10 654	10 499	10 495	10 152	10 017	9982	9638	9617	–3177***
	lb	23,487	23,147	23,138	22,380	22,084	22,007	21,247	21,202	–7,004
Breakout force	kg	11 603	10 331	10 292	11 122	9942	9888	9023	8977	–437
	lb	25,581	22,775	22,690	24,519	21,918	21,798	19,891	19,791	–963
Operating weight	kg	16 270	16 347	16 394	16 694	16 757	16 835	16 653	16 713	–102***
	lb	35,870	36,039	36,143	36,802	36,943	37,114	36,713	36,845	–224

*Full compliance to ISO 14397-1 (2007) Sections 1 thru 6, which requires 2% verification between calculation and testing.

**Compliance to ISO 14397-1 (2007) Sections 1 thru 5.

***938M High Lift is configured with standard counterweight.

Bucket Selection Tables

General Purpose Bucket Selection – Standard Lift

Material Type		Fill Factor %												Tip Load Full Turn*																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
		m ³	yd ³	Counter-weight	kg/m ³ lb/yd ³	105%	110%	105%	110%	105%	110%	105%	110%	kg	lb																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
926M	Pin On	1.9	(2.5)	Log/Agg Heavy																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																

Material density, fill factor, and counterweight options are key variables when choosing the appropriate size of the bucket. The long floor and open throat design of the Performance Series Buckets along with the aggressive rack angles of the optimized linkage will demonstrate fill factors greater than 100% ISO rated. Refer to the expected fill factor % per material type at the top of the table and find a matching counterweight and fill factor along the side for proper bucket sizing.

*Full compliance to ISO 14397-1 (2007) Sections 1 thru 6, which requires 2% verification between calculation and testing.

Bucket Selection Tables

Light Material Bucket Selection – Standard Lift

Material Type																	Tip Load Full Turn*	
			Fill Factor %															
			926M															
			930M															
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Material density, fill factor, and counterweight options are key variables when choosing the appropriate size of the bucket. The long floor and open throat design of the Performance Series Buckets along with the aggressive rack angles of the optimized linkage will demonstrate fill factors greater than 100% ISO rated. Refer to the expected fill factor % per material type at the top of the table and find a matching counterweight and fill factor along the side for proper bucket sizing.

*Full compliance to ISO 14397-1 (2007) Sections 1 thru 6, which requires 2% verification between calculation and testing.

Bucket Selection Tables

General Purpose Bucket Selection – High Lift

Material Type		Fill Factor %														Tip Load Full Turn*		
		105% Fertilizer, Mixed	110% Coal Anthracite, Washed	110% Gypsum, Pulverized	110% Peat, Wet	110% Coal Anthracite, Raw	110% Earth, Loam, Dry	105% Salt, Fine	110% Heavy Metal Scrap, Loose	110% Shale	1345 (2,266)	1390 (2,342)	1435 (2,418)	1480 (2,494)				
926M High Lift	Pin On	m ³	Counter-weight	kg/m ³ lb/yd ³	1030 (1,736)	1075 (1,811)	1120 (1,887)	1165 (1,963)	1210 (2,039)	1255 (2,115)	1300 (2,191)	1345 (2,266)	1390 (2,342)	1435 (2,418)	1480 (2,494)	kg	lb	
		1.9 (2.5)	Log/Agg Heavy	Not Available								115%	110%	105%	100%	5970	(13,161)	
		2.1 (2.7)	Log/Agg Heavy	Not Available					115%	110%	105%		100%				5926	(13,065)
		2.3 (3.0)	Log/Agg Heavy	Not Available		115%	110%	105%	100%								5837	(12,869)
		2.5 (3.3)	Log/Agg Heavy	Not Available														
			Log/Agg Heavy	Not Available														
	Fusion	1.9 (2.5)	Log/Agg Heavy	Not Available							115%	110%	105%		100%		5628	(12,407)
		2.1 (2.7)	Log/Agg Heavy	Not Available							100%						5561	(12,259)
		2.3 (3.0)	Log/Agg Heavy	Not Available														
		2.5 (3.3)	Log/Agg Heavy	Not Available														
			Log/Agg Heavy	Not Available														
		2.7 (3.6)	Log/Agg Heavy	Not Available														5497

930M High Lift	Pin On	m ³	Counter-weight	kg/m ³ lb/yd ³	1030 (1,736)	1075 (1,811)	1120 (1,887)	1165 (1,963)	1210 (2,039)	1255 (2,115)	1300 (2,191)	1345 (2,266)	1390 (2,342)	1435 (2,418)	1480 (2,494)	kg	lb		
		2.1 (2.7)	Log/Agg Heavy	Not Available								115%	110%	105%		100%	6384	(14,074)	
		2.3 (3.0)	Standard						115%	110%	105%	100%						5989	(13,203)
			Log/Agg Heavy	Not Available					115%	110%	105%	100%						6297	(13,883)
		2.5 (3.3)	Standard						115%	110%	105%	100%						5906	(13,021)
			Log/Agg Heavy	Not Available					115%	110%	105%	100%						6185	(13,635)
	Fusion	2.1 (2.7)	Log/Agg Heavy	Not Available															
		2.3 (3.0)	Log/Agg Heavy	Not Available							115%	110%	105%	100%			6014	(13,259)	
			Log/Agg Heavy	Not Available														5952	(13,122)
		2.5 (3.3)	Log/Agg Heavy	Not Available															
			Log/Agg Heavy	Not Available															
		2.7 (3.6)	Log/Agg Heavy	Not Available														5860	(12,919)

938M High Lift	Pin On	m ³	Counter-weight	kg/m ³ lb/yd ³	1030 (1,736)	1075 (1,811)	1120 (1,887)	1165 (1,963)	1210 (2,039)	1255 (2,115)	1300 (2,191)	1345 (2,266)	1390 (2,342)	1435 (2,418)	1480 (2,494)	kg	lb	
		2.5 (3.3)	Log/Agg Heavy	Not Available														
		2.7 (3.5)	Standard															
			Log/Agg Heavy	Not Available														
		2.9 (3.8)	Standard															
			Log/Agg Heavy	Not Available														
	Fusion	2.5 (3.3)	Log/Agg Heavy	Not Available														
		2.7 (3.5)	Standard															
			Log/Agg Heavy	Not Available														
		2.9 (3.8)	Standard															
			Log/Agg Heavy	Not Available														
		3.1 (4.2)	Log/Agg Heavy	Not Available														6815

Material density, fill factor, and counterweight options are key variables when choosing the appropriate size of the bucket. The long floor and open throat design of the Performance Series Buckets along with the aggressive rack angles of the optimized linkage will demonstrate fill factors greater than 100% ISO rated. Refer to the expected fill factor % per material type at the top of the table and find a matching counterweight and fill factor along the side for proper bucket sizing.

*Full compliance to ISO 14397-1 (2007) Sections 1 thru 6, which requires 2% verification between calculation and testing.

Bucket Selection Tables

Light Material Bucket Selection – High Lift

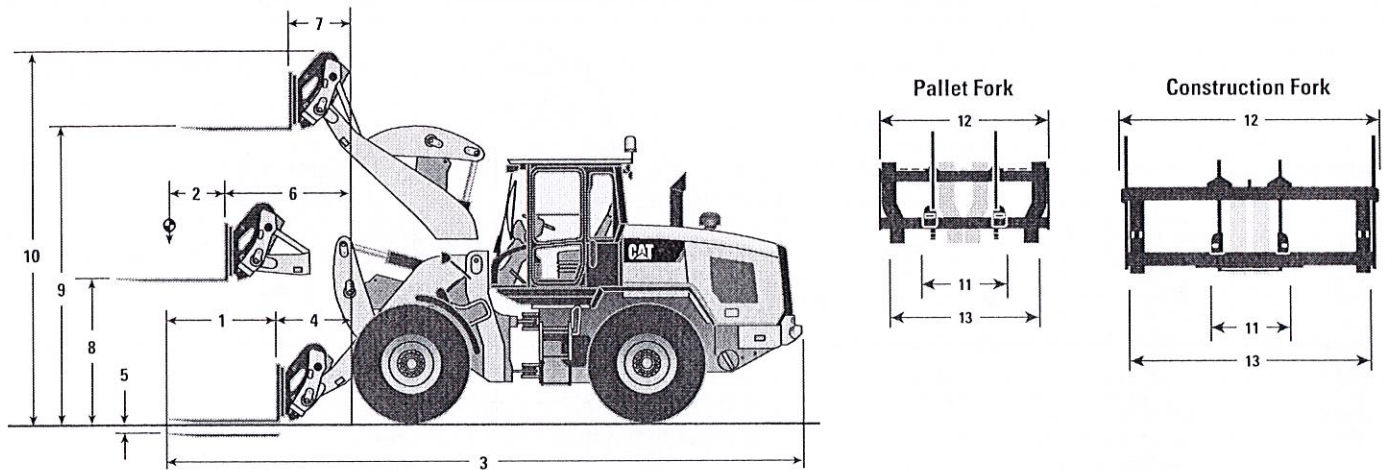
Material Type																Tip Load Full Turn*								
		Fill Factor %																						
926M High Lift	Pin On	m ³	yd ³	Counter-weight	kg/m ³ lb/yd ³	115% Mulch, Wet	115% Municipal Solid Waste	110% Flour, Wheat	115% Compacted Solid Waste	100% Barley, Bulk	100% Buckwheat, Bulk		110% Asphalt, Crushed	100% Soy Beans, Bulk	100% Corn Shelled, Bulk	105% Glass, Semi Crushed		100% Wheat, Bulk	110% Construction and Demolition	115% Silage, Packed	110% Manure/Muck, Wet	kg	lb	
						550 (927)	580 (977)	610 (1,028)	640 (1,078)	670 (1,129)	700 (1,180)	730 (1,230)	760 (1,281)	790 (1,331)	820 (1,382)	850 (1,432)								
	3.1 (4.1)	Log/Agg	Heavy	Not Available														115%	110%	105%	100%		5587	(12,317)
		Log/Agg	Heavy	Not Available																			5467	(12,052)
		Log/Agg	Heavy	Not Available																			5358	(11,812)
	3.8 (5.0)	Log/Agg	Heavy	Not Available																				
		Log/Agg	Heavy	Not Available																				
		Log/Agg	Heavy	Not Available																				
	3.5 (4.6)	Log/Agg	Heavy	Not Available																				
		Log/Agg	Heavy	Not Available																				
		Log/Agg	Heavy	Not Available																				
3.8 (5.0)	Log/Agg	Heavy	Not Available																					
	Log/Agg	Heavy	Not Available																					
	Log/Agg	Heavy	Not Available																					
930M High Lift	Pin On	m ³	yd ³	Counter-weight	kg/m ³ lb/yd ³	550 (927)	580 (977)	610 (1,028)	640 (1,078)	670 (1,129)	700 (1,180)	730 (1,230)	760 (1,281)	790 (1,331)	820 (1,382)	850 (1,432)						kg	lb	
	3.5 (4.6)	Log/Agg	Heavy	Not Available																				
		Standard																						
		Log/Agg	Heavy	Not Available																				
	3.8 (5.0)	Log/Agg	Heavy	Not Available																				
		Standard																						
		Log/Agg	Heavy	Not Available																				
	4.2 (5.5)	Log/Agg	Heavy	Not Available																				
		Standard																						
		Log/Agg	Heavy	Not Available																				
4.5 (5.8)	Log/Agg	Heavy	Not Available																					
	Standard																							
	Log/Agg	Heavy	Not Available																					
4.8 (6.1)	Log/Agg	Heavy	Not Available																					
	Standard																							
	Log/Agg	Heavy	Not Available																					
938M High Lift	Pin On	m ³	yd ³	Counter-weight	kg/m ³ lb/yd ³	550 (927)	580 (977)	610 (1,028)	640 (1,078)	670 (1,129)	700 (1,180)	730 (1,230)	760 (1,281)	790 (1,331)	820 (1,382)	850 (1,432)						kg	lb	
	3.8 (5.0)	Log/Agg	Heavy	Not Available																				
		Standard																						
		Log/Agg	Heavy	Not Available																				
	4.2 (5.5)	Log/Agg	Heavy	Not Available																				
		Standard																						
		Log/Agg	Heavy	Not Available																				
	5.0 (6.5)	Log/Agg	Heavy	Not Available																				
		Standard																						
		Log/Agg	Heavy	Not Available																				
5.8 (7.5)	Log/Agg	Heavy	Not Available																					
	Standard																							
	Log/Agg	Heavy	Not Available																					
938M High Lift	Pin On	m ³	yd ³	Counter-weight	kg/m ³ lb/yd ³	550 (927)	580 (977)	610 (1,028)	640 (1,078)	670 (1,129)	700 (1,180)	730 (1,230)	760 (1,281)	790 (1,331)	820 (1,382)	850 (1,432)						kg	lb	
	3.8 (5.0)	Log/Agg	Heavy	Not Available																				
		Standard																						
		Log/Agg	Heavy	Not Available																				
	4.2 (5.5)	Log/Agg	Heavy	Not Available																				
		Standard																						
		Log/Agg	Heavy	Not Available																				
	5.0 (6.5)	Log/Agg	Heavy	Not Available																				
		Standard																						
		Log/Agg	Heavy	Not Available																				
5.8 (7.5)	Log/Agg	Heavy	Not Available																					
	Standard																							
	Log/Agg	Heavy	Not Available																					

Material density, fill factor, and counterweight options are key variables when choosing the appropriate size of the bucket. The long floor and open throat design of the Performance Series Buckets along with the aggressive rack angles of the optimized linkage will demonstrate fill factors greater than 100% ISO rated. Refer to the expected fill factor % per material type at the top of the table and find a matching counterweight and fill factor along the side for proper bucket sizing.

*Full compliance to ISO 14397-1 (2007) Sections 1 thru 6, which requires 2% verification between calculation and testing.

Operating Specifications

Operating Specifications with Forks

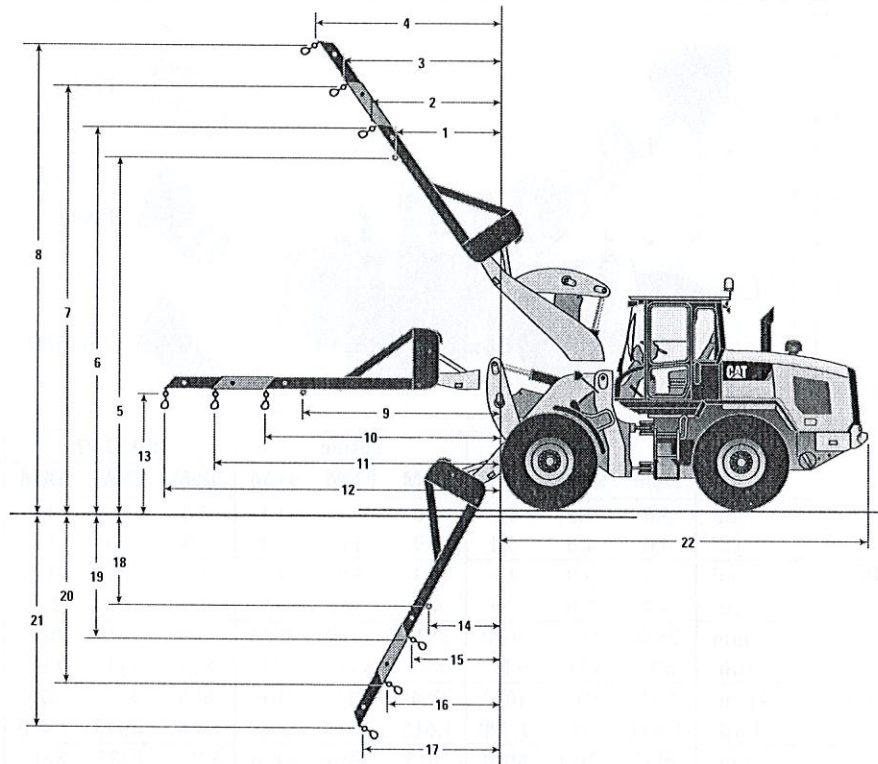


	Pallet Fork – Fusion						Construction Fork – Fusion					
	926M		930M		938M		926M		930M		938M	
	mm	ft/in	mm	ft/in	mm	ft/in	mm	ft/in	mm	ft/in	mm	ft/in
1 Fork tine length	1220	4'0"	1220	4'0"	1220	4'0"	1524	5'0"	1524	5'0"	1524	5'0"
2 Load center	610	2'0"	610	2'0"	610	2'0"	762	2'6"	762	2'6"	762	2'5"
3 Length: overall	7875	25'10"	7882	25'10"	7942	26'0"	8298	27'2"	8305	27'2"	8366	27'5"
4 Reach: ground	926	3'0"	926	3'0"	961	3'1"	1045	3'5"	1045	3'5"	1081	3'6"
5 Dig depth	47	1.9"	47	1.9"	44	1.7"	120	4.7"	120	4.7"	119	4.7"
6 Reach: level arm	1569	5'1"	1569	5'1"	1617	5'3"	1627	5'4"	1627	5'4"	1675	5'5"
7 Reach: full lift	767	2'6"	767	2'6"	814	2'8"	825	2'8"	825	2'8"	872	2'10"
8 Clearance: level arm	1792	5'10"	1792	5'10"	1830	6'0"	1729	5'8"	1729	5'8"	1766	5'9"
9 Clearance: full lift	3693	12'1"	3693	12'1"	3758	12'3"	3630	11'10"	3630	11'10"	3693	12'1"
10 Height: overall	4676	15'4"	4676	15'4"	4740	15'6"	4935	16'2"	4935	16'2"	0	0'0"
11 Minimum fork spacing	300	0'11"	300	0'11"	300	0'11"	300	0'11"	300	0'11"	300	0'11"
12 Carriage width	1566	5'1"	1566	5'1"	1566	5'1"	2498	8'2"	2498	8'2"	2498	8'2"
13 Maximum fork spacing	1550	5'1"	1550	5'1"	1550	5'1"	2375	7'9"	2375	7'9"	2375	7'9"
	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb
Tipping load – straight, ISO 14397-1*	6756	14,895	7689	16,951	9274	20,445	6049	13,335	6919	15,254	8405	18,528
Tipping load – full turn, ISO 14397-1*	5807	12,801	6577	14,499	7909	17,437	5168	11,394	5887	12,978	7136	15,731
Operating weight	12 759	28,129	13 671	30,140	15 932	35,123	13 094	28,866	14 006	30,877	16 266	35,861
Rated load % of full turn tip:												
50% of tip: SAE J1197**	2903	6,400	3288	7,249	3955	8,718	2584	5,697	2943	6,489	3568	7,865
60% of tip: rough terrain EN474-3**	3484	7,680	3946	8,699	4746	10,462	3101	6,836	3532	7,786	4281	9,438
80% of tip: firm and level EN474-3**	4645	10,240	5261	11,599	6327	13,949	4135	9,115	4709	10,382	5708	12,584

*Full compliance to ISO 14397-1 (2007) Sections 1 thru 6, which requires 2% verification between calculation and testing.

**Full compliance to EN474-3 and SAE J1197.

Operating Specifications with Material Handling Arm



Material Handling Arm – Fusion

	926M		930M		938M			926M		930M		938M	
1	2113 mm	6'11"	2113 mm	6'11"	2144 mm	7'0"	12	5327 mm	17'5"	5327 mm	17'5"	5376 mm	17'7"
2	2333 mm	7'7"	2333 mm	7'7"	2362 mm	7'8"	13	1854 mm	6'0"	1854 mm	6'0"	1890 mm	6'2"
3	2919 mm	9'6"	2919 mm	9'6"	2943 mm	9'7"	14	863 mm	2'9"	863 mm	2'9"	906 mm	2'11"
4	3505 mm	11'6"	3505 mm	11'6"	3525 mm	11'6"	15	1045 mm	3'5"	1045 mm	3'5"	1089 mm	3'6"
5	5257 mm	17'2"	5257 mm	17'2"	5343 mm	17'6"	16	1276 mm	4'2"	1276 mm	4'2"	1324 mm	4'4"
6	5568 mm	18'3"	5568 mm	18'3"	5655 mm	18'6"	17	1507 mm	4'11"	1507 mm	4'11"	1559 mm	5'1"
7	6112 mm	20'0"	6112 mm	20'0"	6204 mm	20'4"	18	1975 mm	6'5"	1975 mm	6'5"	1983 mm	6'6"
8	6657 mm	21'10"	6657 mm	21'10"	6754 mm	22'1"	19	2310 mm	7'6"	2310 mm	7'6"	2316 mm	7'7"
9	3354 mm	11'0"	3354 mm	11'0"	3403 mm	11'1"	20	3076 mm	10'1"	3076 mm	10'1"	3081 mm	10'1"
10	3727 mm	12'2"	3727 mm	12'2"	3775 mm	12'4"	21	3842 mm	12'7"	3842 mm	12'7"	3846 mm	12'7"
11	4527 mm	14'10"	4527 mm	14'10"	4575 mm	15'0"	22	5730 mm	18'9"	5737 mm	18'9"	5762 mm	18'10"

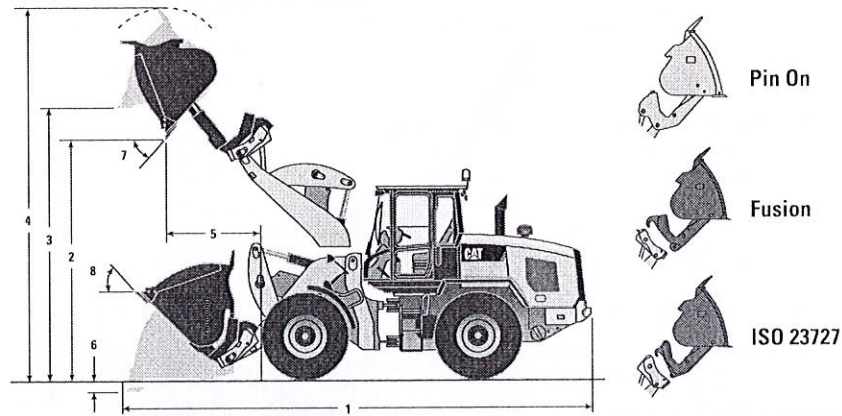
	926M		930M		938M	
Operating weight	12 626 kg	27,835 lb	13 538 kg	29,847 lb	15 799 kg	34,830 lb
Rated load* (50% of full turn tip** SAE J1197)						
Fixed tab (9)	2081 kg	4,588 lb	2356 kg	5,193 lb	2844 kg	6,269 lb
Minimum extension (10)	1908 kg	4,205 lb	2159 kg	4,760 lb	2610 kg	5,753 lb
Middle extension (11)	1618 kg	3,567 lb	1832 kg	4,037 lb	2217 kg	4,887 lb
Maximum extension (12)	1405 kg	3,097 lb	1590 kg	3,505 lb	1927 kg	4,248 lb

*Full compliance to ISO 14397-1 (2007) Sections 1 thru 6, which requires 2% verification between calculation and testing.

**Full compliance to EN474-3 and SAE J1197.

Operating Specifications

Operating Specifications with High Dump Buckets



		Pin On			Fusion			ISO 23727			High Lift		
		926M	930M	938M	926M	930M	938M	926M	930M	938M	926M	930M	938M
Rated Capacity	m ³	3.0	3.5	4.1	3.0	3.5	4.1	3.0	3.5	4.1	—	—	—
	yd ³	4.0	4.6	5.4	3.9	4.6	5.4	3.9	4.6	5.4	—	—	—
Capacity – Rated at 110%	m ³	3.3	3.9	4.5	3.3	3.9	4.5	3.3	3.9	4.5	—	—	—
Fill Factor	yd ³	4.4	5.0	5.9	4.3	5.0	5.9	4.3	5.0	5.9	—	—	—
Bucket Width	mm	2528	2728	3030	2528	2728	3032	2528	2728	3032	—	—	—
	ft/in	8'3"	8'11"	9'11"	8'3"	8'11"	9'11"	8'3"	8'11"	9'11"	—	—	—
Nominal Material Density	kg/m ³	962	946	1062	954	915	916	885	867	878	—	—	—
110% Fill Factor	lb/yd ³	1,604	1,605	1,790	1,615	1,553	1,544	1,498	1,473	1,480	—	—	—
1 Length: Overall	mm	7907	7914	8044	7913	7986	8126	8176	8183	8313	+642	+794	+737
	ft/in	25'11"	25'11"	26'4"	25'11"	26'2"	26'7"	26'9"	26'10"	27'3"	+2'1"	+2'7"	+2'5"
2 Dump Clearance:	mm	4252	4252	4264	4275	4332	4354	4399	4523	4539	+440	+568	+545
Full Lift Rolled Out	ft/in	13'11"	13'11"	13'11"	14'0"	14'2"	14'3"	14'5"	14'10"	14'10"	+1'5"	+1'10"	+1'9"
3 Clearance: Level Bucket	mm	4592	4592	4647	4606	4609	4725	4751	4849	4904	+451	+574	+553
	ft/in	15'0"	15'0"	15'2"	15'1"	15'1"	15'6"	15'7"	15'10"	16'1"	+1'5"	+1'10"	+1'9"
4 Height: Overall	mm	6255	6298	6367	6268	6315	6446	6413	6555	6605	+451	+574	+553
	ft/in	20'6"	20'7"	20'10"	20'6"	20'8"	21'1"	21'0"	21'6"	21'8"	+1'5"	+1'10"	+1'9"
5 Reach: Full Lift Rolled Out	mm	1425	1425	1489	1421	1458	1530	1613	1561	1626	+253	+329	+278
	ft/in	4'8"	4'8"	4'10"	4'7"	4'9"	5'0"	5'3"	5'1"	5'4"	+0'9"	+1'0"	+0'10"
6 Dig Depth	mm	80	80	96	100	100	116	94	94	109	+35	+35	+35
	in	3.2"	3.2"	3.8"	3.9"	3.9"	4.6"	3.7"	3.7"	4.3"	+1.4"	+1.4"	+1.4"
7 Maximum Dump Angle	degree	52	52	51	50	49	49	55	48	48	—	—	—
8 Rack Angle at Carry	degree	43	43	55	45	45	46	43	43	44	—	—	—
Tipping Load –	kg	7560	8637	11 395	7465	8389	9903	6941	7967	9494	–1946	–2473	–3161***
Straight ISO 14397-1*	lb	16,666	19,041	25,120	16,457	18,495	21,832	15,301	17,564	20,931	–4,290	–5,450	–6,966
Tipping Load –	kg	7875	8997	11 869	7776	8739	10 315	7230	8299	9890	–2027	–2576	–3292***
Straight Rigid Tire**	lb	17,360	19,834	26,167	17,143	19,265	22,741	15,938	18,295	21,803	–4,469	–5,677	–7,256
Tipping Load –	kg	6404	7281	9580	6299	7043	8266	5844	6680	7921	–1717	–2171	–2742***
Full Turn ISO 14397-1*	lb	14,117	16,051	21,119	13,886	15,528	18,223	12,884	14,726	17,462	–3,784	–4,784	–6,043
Tipping Load –	kg	6812	7746	10 191	6701	7493	8794	6217	7106	8426	–1826	–2309	–2917***
Full Turn Rigid Tire**	lb	15,018	17,076	22,467	14,773	16,519	19,386	13,706	15,666	18,577	–4,026	–5,089	–6,429
Breakout Force	kg	6560	8584	9491	6727	8373	8959	5500	7258	7845	–361	–219	–369
	lb	14,463	18,925	20,923	14,829	18,458	19,750	12,125	16,000	17,295	–795	–482	–812
Operating Weight	kg	13 531	14 534	17 014	13 834	14 836	17 427	13 793	14 795	17 327	+278	+232	–102***
	lb	29,830	32,042	37,509	30,499	32,706	38,419	30,409	32,616	38,199	612	511	–224

*Full compliance to ISO 14397-1 (2007) Sections 1 thru 6, which requires 2% verification between calculation and testing.

**Compliance to ISO 14397-1 (2007) Sections 1 thru 5.

***938M High Lift is configured with standard counterweight.

Bucket Selection Tables

High Dump Bucket Selection – Standard Lift

		Material Type														Tip Load Full Turn*											
		Fill Factor %																									
		m³	yd³	Counter-weight	kg/m³	lb/ft³	Mulch, Wet	Municipal Solid Waste	Flour, Wheat	Compacted Solid Waste	Barley, Bulk	Asphalt, Crushed	Soy Beans, Bulk	Corn Shelled, Bulk	Glass, Semi Crushed	Bulk Grain	Silage, Packed	Manure/Muck, Wet	Coal Bituminous, Wet	Peat, Moist	Coal Bituminous, Raw	Sugar, Raw Cane	Fertilizer, Mixed	Coal Anthracite, Washed	kg	lb	
							115%	115%	110%	115%	100%	110%	100%	105%	100%	110%	115%	110%	110%	110%	110%	105%	105%	105%	110%	1160	
926M	Pin On	3.0	(3.9)	Log/Agg																						6792	(14,973)
		3.5	(4.6)	Heavy																						6404	(14,118)
		4.1	(5.4)	Log/Agg																						6720	(14,815)
		4.1	(5.4)	Heavy																						6328	(13,950)
		4.1	(5.4)	Log/Agg																						6298	(13,883)
		4.1	(5.4)	Heavy																						5913	(13,035)
	Fusion	3.0	(3.9)	Log/Agg																						6690	(14,748)
		3.5	(4.6)	Heavy																						6299	(13,886)
		4.1	(5.4)	Log/Agg																						6482	(14,290)
		4.1	(5.4)	Heavy																						6097	(13,441)
		4.1	(5.4)	Log/Agg																						6076	(13,395)
		4.1	(5.4)	Heavy																						5689	(12,542)
930M	Pin On	3.0	(3.9)	Log/Agg																						7672	(16,913)
		3.5	(4.6)	Heavy																						7281	(16,051)
		4.1	(5.4)	Standard																						6811	(15,015)
		4.1	(5.4)	Log/Agg																						7241	(15,962)
		4.1	(5.4)	Heavy																						6855	(15,113)
		4.1	(5.4)	Standard																						6396	(14,100)
	Fusion	3.5	(4.6)	Log/Agg																						7427	(16,373)
		4.1	(5.4)	Heavy																						7043	(15,527)
		4.1	(5.4)	Log/Agg																						7011	(15,456)
		4.1	(5.4)	Heavy																						6634	(14,625)
		5.0	(6.5)	Log/Agg																						6860	(15,123)
		5.0	(6.5)	Heavy																						6481	(14,288)
938M	Pin On	4.1	(5.4)	Log/Agg																						9988	(22,018)
		4.1	(5.4)	Heavy																						9580	(21,120)
		5.0	(6.5)	Standard																						9077	(20,012)
		5.0	(6.5)	Log/Agg																						8750	(19,290)
		5.0	(6.5)	Heavy																						8384	(18,483)
		5.0	(6.5)	Standard																						7930	(17,482)
	Fusion	4.1	(5.4)	Log/Agg																						8635	(19,036)
		4.1	(5.4)	Heavy																						8266	(18,222)
		5.0	(6.5)	Log/Agg																						8480	(18,695)
		5.0	(6.5)	Heavy																						8112	(17,883)
		5.0	(6.5)	Log/Agg																							
		5.0	(6.5)	Heavy																							

Material density, fill factor, and counterweight options are key variables when choosing the appropriate size of the bucket. The long floor and open throat design of the Performance Series Buckets along with the aggressive rack angles of the optimized linkage will demonstrate fill factors greater than 100% ISO rated. Refer to the expected fill factor % per material type at the top of the table and find a matching counterweight and fill factor along the side for proper bucket sizing.

*Full compliance to ISO 14397-1 (2007) Sections 1 thru 6, which requires 2% verification between calculation and testing.

Bucket Selection Tables

High Dump Bucket Selection – High Lift

		Material Type														Tip Load Full Turn*						
		Fill Factor %																				
926M High Lift	Pin On	m ³	Counter-weight	kg/m ³ lb/yd ³	115% Paper, Semi Compacted Yard Waste	115% Food Scraps	110% Glass, Whole Bottles Brewers Grain	105% Woodchips, Dry	115% Mulch, Wet	115% Municipal Solid Waste	110% Flour, Wheat	115% Compacted Solid Waste	100% Barley, Bulk	110% Asphalt, Crushed	100% Soy Beans, Bulk	100% Corn Shelled, Bulk	105% Glass, Semi Crushed	100% Bulk Grain	kg	lb		
		yd ³	Log/Agg Heavy	Not Available										115%	110%	105%	100%		4736	(10,441)		
		3.5	Log/Agg Heavy	Not Available						115%	110%	105%	100%						4655	(10,262)		
		4.1	Log/Agg Heavy	Not Available															4272	(9,418)		
		3.0	Log/Agg Heavy	Not Available										115%	110%	105%	100%		4584	(10,105)		
		3.5	Log/Agg Heavy	Not Available						115%	110%	105%	100%						4424	(9,753)		
	Fusion	4.1	Log/Agg Heavy	Not Available															4043	(8,912)		
					115%	110%	105%	100%														
	930M High Lift	Pin On	m ³	Counter-weight	kg/m ³ lb/yd ³	115% Paper, Semi Compacted Yard Waste	115% Food Scraps	110% Glass, Whole Bottles Brewers Grain	105% Woodchips, Dry	115% Mulch, Wet	115% Municipal Solid Waste	110% Flour, Wheat	115% Compacted Solid Waste	100% Barley, Bulk	110% Asphalt, Crushed	100% Soy Beans, Bulk	100% Corn Shelled, Bulk	105% Glass, Semi Crushed	100% Bulk Grain	kg	lb	
			yd ³	Log/Agg Heavy	Not Available										115%	110%	105%	100%		5110	(11,265)	
			3.5	Standard							115%	110%	105%	100%						4746	(10,463)	
			4.1	Log/Agg Heavy	Not Available															4723	(10,412)	
			5.0	Standard							115%	110%	105%	100%						4362	(9,617)	
			3.5	Log/Agg Heavy	Not Available															4560	(10,053)	
Fusion		4.1	Standard							115%	110%	105%	100%						4200	(9,259)		
		3.5	Log/Agg Heavy	Not Available															4872	(10,740)		
		4.1	Log/Agg Heavy	Not Available															4494	(9,906)		
5.0		Log/Agg Heavy	Not Available															4370	(9,634)			
		Standard																				
938M High Lift		Pin On	m ³	Counter-weight	kg/m ³ lb/yd ³	115% Paper, Semi Compacted Yard Waste	115% Food Scraps	110% Glass, Whole Bottles Brewers Grain	105% Woodchips, Dry	115% Mulch, Wet	115% Municipal Solid Waste	110% Flour, Wheat	115% Compacted Solid Waste	100% Barley, Bulk	110% Asphalt, Crushed	100% Soy Beans, Bulk	100% Corn Shelled, Bulk	105% Glass, Semi Crushed	100% Bulk Grain	kg	lb	
			yd ³	Log/Agg Heavy	Not Available																6412	(14,136)
			4.1	Standard												115%	110%	105%	100%			
			5.0	Log/Agg Heavy	Not Available																5700	(12,566)
	4.1		Standard																	5527	(12,184)	
	5.0		Log/Agg Heavy	Not Available																5390	(11,882)	
		Standard																				
		Standard																				
		Standard																				
		Standard																				
		Standard																				
		Standard																				
		Standard																				
		Standard																				

Material density, fill factor, and counterweight options are key variables when choosing the appropriate size of the bucket. The long floor and open throat design of the Performance Series Buckets along with the aggressive rack angles of the optimized linkage will demonstrate fill factors greater than 100% ISO rated. Refer to the expected fill factor % per material type at the top of the table and find a matching counterweight and fill factor along the side for proper bucket sizing.

*Full compliance to ISO 14397-1 (2007) Sections 1 thru 6, which requires 2% verification between calculation and testing.

Supplemental Specifications

Optional Equipment

	926M				930M				938M			
	Operating weight		Tipping load – full turn		Operating weight		Tipping load – full turn		Operating weight		Tipping load – full turn	
Change with options removed:	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb
Heavy counterweight	N/A	N/A	N/A	N/A	-320	-705	-502	-1,107	-320	-705	-494	-1,089
Guard, crankcase	-11	-23	-16	-34	-11	-23	-13	-29	-11	-24	-17	-36
Guard, power train lower	-77	-170	-77	-168	-77	-170	-69	-151	-68	-150	-67	-146
Guard, driveshaft	-44	-96	-12	-26	-44	-96	-12	-26	-45	-100	-12	-27
Secondary steer	-69	-152	-75	-165	-69	-152	-73	-160	-69	-152	-74	-163
Ride control	-49	-108	-27	-59	-49	-108	-26	-57	-49	-108	-27	-59
Change with options added:												
Logger/Aggregate counterweight	+298	+656	+417	+919	+298	+656	+415	+914	+299	+659	+402	+886
Guard, front window	+34	+74	+17	+37	+34	+74	+18	+39	+34	+74	+18	+39
Guard, rear waste gate	N/A	N/A	N/A	N/A	+264	+582	+456	+1,005	+284	+626	+478	+1,053
Guard, power train side	+11	+24	+10	+22	+11	+24	+9	+19	+11	+24	+10	+22
Cold start package	+54	+119	+104	+229	+54	+119	+74	+163	+54	+119	+101	+222
Roading fenders	+18	+39	+28	+61	+18	+39	+24	+52	+18	+39	+28	+61

Tire Options



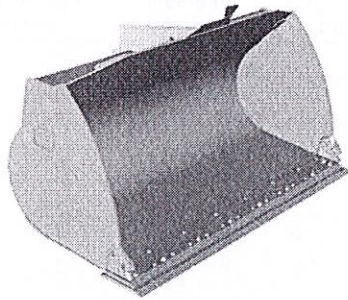
	926M				930M				938M			
	550/65 R25		17.5 R25 (L-3)		600/65 R25		20.5R25 (L-5)		23.5R25 R25*		Flexport**	
Change with tire option as compared to 20.5R25 L3 tire	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
Vertical heights	-70	-2.8"	-65	-2.6"	-15	-0.6"	+35	+1.4"	65	-2.6"	+59	+2.3"
Reach: bucket at 45°	+43	+1.7"	+73	+2.9"	+29	+1.1"	-21	-0.8"	-63	-2.5"	-23	-0.9"
Width: Over tires	+10	+0.4"	-69	-2.7"	+98	+3.9"	0	0"	+38	+1.5"	-12	-0.5"
Turning radius: Outside of tires	+0	+0"	-45	-1.8"	+42	+1.7"	+1	0"	+14	+0.6"	+23	+0.9"
	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb
Tipping load – straight	-83	-182	-212	-466	+9	+19	+444	+978	+486	+1,071	+1564	+3,447
Tipping load – full turn	-72	-157	-183	-403	+8	+17	+384	+846	+421	+927	+1352	+2,979
Operating weight	-126	-277	-322	-709	+14	+30	+678	+1,494	+748	+1,648	+2405	+5,300

*938M compatible with standard counterweight for general construction and heavy counterweight for Aggregate or Forest Handlers.

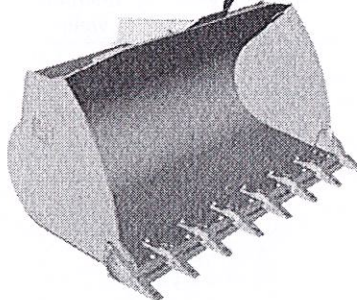
**938M compatible with standard counterweight (Flexport) only.

Supplemental Specifications

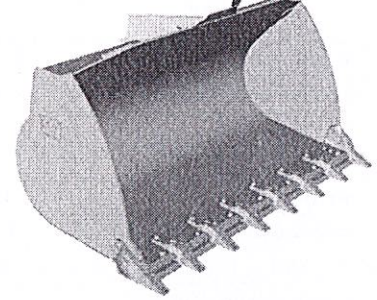
Ground Engagement Options



Bolt-on Cutting Edge



Long Teeth and Segments



Short Teeth and Segments

Change with Ground Engagement option compared to Bolt-on Cutting Edge	926M				930M				938M			
	Long Teeth and Segments		Short Teeth and Segments		Long Teeth and Segments		Short Teeth and Segments		Long Teeth and Segments		Short Teeth and Segments	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
Dig depth	+12	+0.5"	+5	+0.2"	+11	+0.4"	+5	+0.2"	+11	+0.4"	+5	+0.2"
Length: overall	+146	+5.7"	+121	+4.8"	+146	+5.7"	+121	+4.8"	+146	+5.7"	+121	+4.8"
Dump clearance	-103	-4.1"	-82	-3.2"	-104	-4.1"	-83	-3.3"	-105	-4.1"	-84	-3.3"
Reach	+104	+4.1"	+89	+3.5"	+103	+4.1"	+88	+3.5"	+102	+4"	+87	+3.4"
	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb
Tipping Load – straight	-148	-325	-142	-311	-150	-329	-143	-315	-138	-305	-132	-291
Tipping Load – full turn	-145	-318	-139	-305	-146	-322	-140	-309	-136	-298	-130	-285
Breakout force	-121	-266	-115	-254	-121	-266	-115	-254	-112	-245	-106	-234
Operating weight	+120	+264	+116	+255	+120	+264	+116	+255	+111	+244	+106	+233

926M, 930M, 938M Standard and Optional Equipment

Standard Equipment

Standard equipment may vary. Consult your Cat dealer for details.

POWER TRAIN

- Axle seal guards
- Auto idle shut down feature
- Cat C7.1 ACERT engine
 - Power Modes (Standard and Performance)
 - Power by Range (High Power in Range 4)
 - Turbocharged and aftercooled
 - Diesel particulate filter (Fit for Life)
- Coolant protection to -34° C (-29° F)
- Differential lock in front axle
- Dry type air cleaner
- Enclosed wet disc full hydraulic brakes
- Fuel priming pump, automatic
- Fuel water separator
- Hydraulically driven demand cooling fan
- Intelligent hydrostatic transmission
 - Power train modes
 - Directional Shift Aggressiveness
 - Rimpull control, adjust wheel torque
 - Creeper control, adjust ground speed
- Lubed for life driveshafts
- Parking brake, electric
- Wide spaced 6 fins per inch cooling package
- S-O-SSM sampling ports
- Throttle lock and maximum speed limiter

HYDRAULICS

- Automatic lift, lower and tilt kickouts
- Bucket and Fork Modes, adjustable in-cab
- Cylinder damping at kickout and end stops
- Fine Mode control in Fork Mode
- Hydraulic Response setting
- Load sensing hydraulics and steering
- Seat-mounted hydraulic joystick controls

ELECTRICAL

- Alternator, 115-amp, heavy duty
- 12V power supply in cab (2)
- Batteries, 1,000 CCA (2) 24 volt system
- Back-up alarm
- Emergency shutdown switch
- Heavy duty gear reduction starter
- Product Link PRO with subscription
- Remote jump start post
- Resettable critical function breakers

OPERATOR ENVIRONMENT

- 75 mm (3 in) retractable seat belt, with audible alarm and indicator
- Automatic temperature control
- Cab, enclosed and pressurized
- Cup holders
- External heated mirrors with lower parabolic
- Ground level cab door release

Gauges

- Digital hour, odometer, tachometer, ground speed and direction indicator
- Engine coolant temperature gauge
- Fuel and Diesel Exhaust Fluid level
- Hydraulic oil temperature gauge
- Hydraulic control lockout
- Interior cab lighting, door and dome
- Interior rearview mirrors (2)
- Lunch box storage
- Operator warning system indicators
- Radio ready speakers
- Rear window defrost, electric
- Seat-mounted controls, adjustable
- Sliding glass on the side windows
- Column mounted multi function control – lights, wipers, turn signal
- Suspension seat, fabric
- Tilt and telescopic steering wheel
- Wet arm wiper/washer, front and rear

OTHER STANDARD EQUIPMENT

- Large-access enclosure doors
- Parallel lift loader linkage
- Recovery hitch with pin
- Remote mounted lubrication points
- Lockable compartments and enclosures

Optional Equipment

Optional equipment may vary. Consult your Cat dealer for details.

- Antifreeze/coolant, extended-life
- Auto lube, integrated in secondary display
- Auxiliary flow, third and fourth function
- Axles, differential, limited slip, rear
- Beacon light, strobe
- Cab, deluxe (standard in Europe):
 - Automatic blower control
 - Electrically adjustable heated mirrors (2)
 - LED interior lighting
 - Secondary display to adjust settings
- Ride control adjustable speed activation
- Preventative maintenance reminders
- Integrated help function (26 languages)
 - Sunscreen, front and rear
- Camera, rearview (standard in Europe)
- Cold start package:
 - Ether starting aid, block heater and additional batteries, 1,000 CCA (4 total)

- Counterweight, (heavy and logger)
- Coupler, (Fusion and ISO 23727)
- Debris packages (low, medium, high)
- Fenders (extended cover and full coverage)
- Guards
 - Power train, (lower, side, driveshaft and crankcase)
 - Windshield and lights
 - Cylinders, tilt and steering
 - Rear radiator, heavy duty
- Linkage, high lift
- Lights, auxiliary, halogen or LED with engine compartment lights
- Object Detection
- Radio packages:
 - Radio ready with Bluetooth
 - Radio, AM/FM with Bluetooth and clock
 - Radio, AM/FM with CD player deluxe, weatherband, Bluetooth and clock

Seats:

- Deluxe seat – fully adjustable fabric air suspension seat with mid seat backrest
- Premium seat – fully adjustable leather and fabric air suspension with high backrest and air lumbar support. Heated and cooled bottom cushion and backrest.
- Steering:
 - Dual mode and Secondary
- Tires:
 - Bias ply, 17.5, 20.5-25, Skidder
 - Radial, 17.5, 20.5, 23.5, 550/65, 600/65, 650/65 R25
 - Flexport, 620/65, 750/65 Agriculture
- Work tools

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at www.cat.com

AEHQ7475 (06-2015)

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Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

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938 BID SPEC

938 WHEEL LOADER		GOVBIDSPEC.COM
BID SPECIFICATION FOR 938 OR EQUIVALENT		
BASIC SPECIFICATIONS		
Y___ N___	Engine net power according to ISO 9249 shall be at least 180 hp (134 kW).	
Y___ N___	Engine gross power according to SAE J1995 shall be at least 197 hp (147 kW).	
Y___ N___	Basic operating weight shall be no less than 35,273 lb (16,004 kg). Weight shall be based on standard machine configuration (with 20.5-R25 L2 tires and 3.25 cubic yard general purpose quick coupler bucket with bolt-on edges).	
Y___ N___	Machine height to top of ROPS shall be 11'0" (3356 mm).	
Y___ N___	Machine height to top of hood shall be 7'11" (2415 mm).	
Y___ N___	Ground clearance with 20.5-R25 tires shall be 1'3" (397 mm).	
Y___ N___	Machine wheelbase shall be 9'11" (3020 mm).	
Y___ N___	B-Pin maximum height shall be at least 12'10" (3933 mm).	
Y___ N___	Maximum bucket capacity shall be at least 3.66 cubic yards (3.0 cubic meters).	
ENGINE		
Y___ N___	Engine shall be EPA Tier III compliant.	
Y___ N___	Engine shall be fully equipped, six cylinder, four stroke diesel type with all necessary operating accessories.	
Y___ N___	Engine shall be configured to provide constant net horsepower at full parasitic load.	
Y___ N___	Engine electronic control modules and sensors shall be completely sealed against moisture and dust.	
Y___ N___	Deutsche connectors and electrical wire braiding shall ensure that electrical connections resist corrosion and premature wear.	
Y___ N___	An electrical disconnect switch shall be standard.	
Y___ N___	Engine shall have a total displacement of no less than 402.8 cubic inches (6.6 liters).	
Y___ N___	Engine bore shall be 4.1" (105 mm) and stroke shall be 5" (127 mm).	
Y___ N___	Net Peak torque at 1400 rpm shall be 620 ft-lb (840 N-m).	
Y___ N___	Engine shall have four idle control settings to help maximize fuel efficiency: hibernate allows idle speed to drop after a preset time, work provides flexibility in working engine idle speeds, warm-up helps keep the engine from dropping below a set temperature in cold conditions, and low voltage mode prevents battery drain due to high electrical loads from attachments.	
Y___ N___	Machine shall have a 24-volt starting and charging system with a minimum 65-amp alternator.	
Y___ N___	Electric fuel priming pump shall be standard.	
Y___ N___	A heavy-duty electric starter shall be standard.	
Y___ N___	Machine shall have a 24-volt starting receptacle as standard.	
Y___ N___	Cooling system shall be isolated from the engine compartment by a non-metallic shield.	
Y___ N___	Standard radiator shall be a square-wave core design with 6-fins-per-inch.	
Y <input checked="" type="checkbox"/> N___	Variable speed fan shall draw air in from the rear of the machine and exhaust out the sides and top of the hood.	
Y <input checked="" type="checkbox"/> N___	Engine shall be enclosed in a non-metallic, one-piece tilting hood that allows complete and unrestricted access to the engine and related components.	
Y___ N___	Wheel loader can be equipped with an engine coolant heater to be powered by a 120 V external electric power source.	
Y___ N___	Engine shall have available an externally mounted pre-cleaner.	

TRANSMISSION/POWERTRAIN	
Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Transmission and other major powertrain components, such as the axles, shall be designed and manufactured by the equipment manufacturer.
Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Automatic transmission shall be of countershaft powershift design.
Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Transmission shall be electronically controlled for smooth clutch modulation.
Y <input type="checkbox"/> N <input type="checkbox"/>	Machine shall have a fuel economy mode that allows the transmission to upshift at lower RPM's.
Y <input type="checkbox"/> N <input type="checkbox"/>	Machine shall four speeds forward with a maximum of 26.8 mph (43.2 km/h) and three speeds reverse with a minimum of 15.8 mph (25.5 km/h).
Y <input type="checkbox"/> N <input type="checkbox"/>	Machine shall have an electronically controlled, variable on-demand speed fan.
Y <input type="checkbox"/> N <input type="checkbox"/>	Machine shall be equipped with a bottom crankcase and fuel tank guards.
Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Transmission shall have a cooler bypass valve enabling faster warm-up in low ambient conditions- providing smoother shifts in cold weather.
Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Transmission shall automatically select gears above first. The operator shall be able to select the highest gear to which the transmission will automatically shift.
Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Machine shall have a transmission gear kick-down button capable of making fourth to third, third to second and second to first gear shifts in automatic mode.
Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Transmission shall offer full manual shifting for first, second, third and fourth gear.
Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Final drives shall be of planetary design and outward mounted.
Y <input type="checkbox"/> N <input type="checkbox"/>	Control throttle shifting shall regulate engine speed during high-energy directional changes for smoother shifting and longer component life.
Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Machine shall provide a transmission neutralizer that also incorporates downshifting logic and is adjustable through the machine graphical display.
STEERING	
Y <input type="checkbox"/> N <input type="checkbox"/>	Machine shall have center-point articulation with an articulation angle of at least $\pm 40^\circ$.
Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Machine shall have full hydraulic load sensing steering piston pump.
Y <input type="checkbox"/> N <input type="checkbox"/>	Machine turning diameter shall not exceed 39' 2" (11,946 mm) as measured at the outside tip of the manufacturer's general purpose bucket.
BRAKES	
Y <input type="checkbox"/> N <input type="checkbox"/>	Machine shall have oil cooled 2 disc-type per wheel, adjustment-free service brakes which are outboard mounted and sealed from water, mud and dust.
Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Service brake actuation shall be of independent front and rear hydraulic circuits providing effective braking in the event of partial system malfunction.
Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Service brakes shall have a sealed brake wear indicator with an external port that allows a visual brake wear pin inspection.
HYDRAULIC SYSTEM	
Y <input type="checkbox"/> N <input type="checkbox"/>	Machine shall feature load-sensing hydraulics to automatically adjust to operating conditions and provide only hydraulic flow required by the implement.
Y <input type="checkbox"/> N <input type="checkbox"/>	Hydraulic pump output for the bucket/work tool system shall be 77.9 gal/min (295 L/min).
Y <input type="checkbox"/> N <input type="checkbox"/>	Hydraulic system shall be filtered and completely sealed.
Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Hydraulic pressure taps shall be provided for checking pressure in the hydraulic implement and steering systems.
Y <input type="checkbox"/> N <input type="checkbox"/>	A third hydraulic valve with control lever and hydraulic lines to the end of the lift arms for operating auxiliary equipment shall be available.
Y <input type="checkbox"/> N <input type="checkbox"/>	Hydraulic cycle time shall be no more than 10.4 seconds.
Y <input type="checkbox"/> N <input type="checkbox"/>	Loader shall have automatic bucket positioner and lift kick-out. Bucket positioner and lift kick-out shall be adjustable to different bucket angles and lift heights, respectively.

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Y___ N___	Available joystick with integrated F-N-R switch shall be available.
Y <input checked="" type="checkbox"/> N___	Locking devices shall be capable of temporarily disabling the levers which control the hydraulics.
AXLES	
Y___ N___	Wheel loader shall have an axle oil cooler available for applications where extreme braking or operating needs heat axle oil quickly.
Y___ N___	Axles shall be axle oil cooler ready with pre-dilled and tapped axle housings along with pre-routed internal steel lines and mounting hardware.
Y___ N___	Wheel loader shall have a front hydraulic locking differential
Y <input checked="" type="checkbox"/> N___	Wheel loader shall have available an automatic hydraulic locking front/rear differentials.
Y___ N___	Wheel loader shall have standard front and rear axle temperature monitoring.
Y___ N___	Rear axle shall not have less than a 24-degree total oscillation.
OPERATORS STATION	
Y___ N___	Integral ROPS and sound suppressed cab shall be standard.
Y___ N___	Cab shall include a heater and defroster.
Y___ N___	Cab shall not have any curved glass.
Y <input checked="" type="checkbox"/> N___	Cab shall have pressurized and filtered air circulation system.
Y___ N___	Cab shall be mounted on the rear frame of the machine.
Y <input checked="" type="checkbox"/> N___	Machine shall be equipped with a multilevel warning system, which shall signal machine and component malfunctions. System should differentiate between major and minor malfunctions. Warning system shall record occurrences of periodic malfunctions.
Y___ N___	Machine shall be equipped with a graphical display system (Messenger) that provides onboard machine diagnostics, machine system parameters, settings, and operator specific profiles.
Y___ N___	Single lever joystick control of implement levers with integrated switch for transmission forward-neutral-reverse shift capabilities shall be available.
Y <input checked="" type="checkbox"/> N___	A single control lever mounted on the steering column shall actuate directional and gear changes.
Y___ N___	Machine bucket/work tool controls shall have available a two-lever design.
Y <input checked="" type="checkbox"/> N___	Transmission shall have a software feature that allows operator to vary shift points by adjusting value in the graphical machine display.
Y <input checked="" type="checkbox"/> N___	Steering wheel, gauge panel, and transmission control lever shall be adjustable as a single unit.
Y___ N___	Operator's seat shall be a cloth-covered suspension-type with adjustments for height, weight, fore/aft, and suspension dampening.
Y___ N___	Seat shall include adjustable armrests on left and right.
Y___ N___	Cab shall be pre-wired with electric voltage converter, speakers, and antenna for installation of an entertainment radio.
Y___ N___	Cab shall be equipped with a wiring harness having a harness connector to simplify servicing by avoiding the need to cut electrical wires when removing the cab.
Y___ N___	Operator's compartment can include a retractable 2" (51 mm) wide seat belt.
Y___ N___	Cab shall have windshield wipers with an in-the-blade washer delivery system for the front and rear windows. Front wipers shall have intermittent capability.
Y___ N___	Cab shall have internally mounted rear-view mirrors.
Y___ N___	Machine shall have floor-mounted pedals for greater operator comfort.
Y___ N___	Machine shall have front fenders and may be equipped with rear platform extensions.

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Y___ N___	Machine shall have a back-up alarm.
Y <input checked="" type="checkbox"/> N___	Machine shall have sloped hood for improved rearward visibility and improved work environment safety.
Y <input checked="" type="checkbox"/> N___	Machine shall have audible alarm and warning light to alert the operator if the service brake actuating pressure drops below a safe operating level. If service brake actuating pressure drops below a safe operating level, the secondary brake shall be applied automatically.
Y <input checked="" type="checkbox"/> N___	Machine shall have two brake pedals. Left brake pedal to switch between a brake/neutralizer or brake only function through the machine graphical display.
Y___ N___	Directional signals shall be standard.
Y <input checked="" type="checkbox"/> N___	Machine shall be available with an outside toolbox.
Y___ N___	Machine shall be available with rear vision camera with 7" in cab monitor.
LOADER LINKAGE	
Y___ N___	Loader linkage shall be parallel lift type with high breakout force.
Y___ N___	Loader bucket tilt lever shall be of a cast design for durability and strength.
Y___ N___	Full turn static tipping load shall be at least 21,179 lb (9,610 kg).
Y___ N___	Breakout force shall not be less than 30,239 lb (134.6 kN).
Y___ N___	Dump clearance at full lift and 45° discharge shall be a minimum of 9'0" (2733 mm) when equipped with a 3.25 cubic yard (2.5 cubic meter) quick coupler bucket with bolt-on cutting edge.
Y___ N___	Minimum bucket rack-back angle shall be at least 50 degrees in carry position.
WORK TOOL OPTIONS	
Y___ N___	Loader bucket shall have bolt-on bottom wear plates.
SERVICEABILITY	
Y___ N___	Oil sampling ports shall be standard for quick and clean access to various machine oils (such as hydraulic, transmission and engine oil).
Y___ N___	S.O.S sampling ports shall be accessible from ground level
Y___ N___	Sight gauges for the transmission oil, hydraulic oil and radiator coolant shall be easy to see and will eliminate the risk of contaminants entering the system during daily checks.
Y___ N___	Machine shall have maintenance-free batteries located in a built-in battery box.
Y___ N___	Machine shall have electrically actuated fuel priming pump to simplify fuel filter changes.
Y___ N___	Grill, a/c condenser and hydraulic oil cooler should swing open for easy access.
Y___ N___	Powertrain shall use a vertically mounted filter to minimize oil spillage during filter change.
Y___ N___	Articulation joint shall have a single mechanical locking device to prevent frame articulation while servicing or transporting machine.
Y___ N___	Transmission oil and hydraulic filters shall be located behind the hinged, right-side access platform in an enclosed compartment. The hydraulic oil tank shall be drainable from this location.
Y <input checked="" type="checkbox"/> N___	Standard Ecology Drains on engine, transmission, and hydraulic oil shall allow clean draining of fluids with minimal spillage.
MINIMUM SERVICE FILL CAPACITIES	
Y___ N___	Cooling system shall have a capacity of 9.5 gal (36 L).
Y___ N___	Fuel tank shall have a capacity of 65.3 gal (247 L).
Y___ N___	Transmission shall have a capacity of 11.4 gal (43 L).

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Y___ N___	Crankcase shall have a capacity of 4.6 gal (17.4 L).
Y___ N___	Hydraulic System (including tank) shall have a capacity of 23.5 gal (89L).
OWNING & OPERATING COSTS	
Y___ N___	Engine shall have a recommended 500 hour oil change interval for lower operating maintenance costs
Y___ N___	Extended life coolant shall be standard for lower service intervals and reduced maintenance costs.
ADDITIONAL FEATURES	
Y___ N___	Wheel loader shall have an automatic bucket suspension system available that uses an accumulator in the lift arm circuit to reduce material spillage when traveling over rough or uneven surfaces.
Y___ N___	The distance from the bottom of the upper hitch pin to the top of the lower hitch pin shall not be less than 23" (584 mm) for torsion stress distribution and better hitch bearing durability.
Y X N___	Articulation joint shall have double tapered roller bearings in the upper and lower hitch for extended life.
Y___ N___	Machine shall be equipped with a rear retrieval connection.
Y X N___	Machine shall be equipped with a standard counterweight 2,959 lb (1,342 kg).
Y X N___	Machine shall have lifting/tie down eyes for transportation.
Y___ N___	Machine shall have available a machine electronic security system that can lock out unauthorized usage of the machine.
Y___ N___	Machine should have standard a satellite-based system available that allows real-time retrieval of machine information and location.
<p>Bid specs are intended for use by North American buyers only and are subject to change. Model configuration may change depending on country of use. Please contact your local Caterpillar dealer for the most up-to-date specifications for your area.</p>	

Effective with sales to the first user on or after November 1, 2010

CATERPILLAR LIMITED WARRANTY

For Selected Machine Models Designated by Caterpillar With 12 Month/Unlimited Hour Warranty

Worldwide

Caterpillar Inc. or any of its subsidiaries ("Caterpillar") warrants the following products sold by it to be free from defects in material and workmanship:

This warranty does not apply to new replacement engines.

This warranty does not apply to selected models or new replacement engines designated by Caterpillar in India and China.

(In other areas different warranties may apply. Copies of applicable warranties may be obtained by writing to Caterpillar Inc., 100 N.E. Adams St., Peoria, IL 61629.)

- New earthmoving, construction, material handling, forestry product, paving product, compact wheel loader, mini hydraulic excavator, skid steer loader, multi terrain loader, and compact track loader machines designated by Caterpillar as having 12 -months/unlimited hour warranty. See your Cat dealer for a complete listing of covered models.

- Attachments/work tools installed on such machines prior to delivery (unless covered by the Cat Work Tool warranty statement or another manufacturer's warranty). Hammer tool points and compacting plates used on hydraulic hammers are not warranted.

An additional warranty against breakage is applicable to certain Cat ground engaging tools. An additional warranty against wear is applicable to all landfill compactor tips when used in residential waste landfills. Refer to the applicable warranty statements for coverage detail.

This warranty does not apply to Cat batteries, Mobil-trac belts, rubber tracks used on multi terrain loaders, compact track loaders, and mini hydraulic excavators, or Cat Work Tools, which are covered by other Caterpillar warranties.

This warranty is subject to the following:

Warranty Period

For new machines and work tools/attachments the warranty period is 12-months/unlimited hours, starting from date of delivery to the first user.

Note: For hydraulic line's quick connect/disconnect components sold on compact wheel loaders, mini hydraulic excavators, skid steer loaders, multi terrain loaders, and compact track loader machines, the warranty period is 50 hours starting from the date of delivery to the first user.

Caterpillar Responsibilities

If a defect in material or workmanship is found during the warranty period, Caterpillar will, during normal working hours and at a place of business of a Cat dealer or other source approved by Caterpillar:

- Provide (at Caterpillar's choice) new, remanufactured, or Caterpillar approved repaired parts or assembled components needed to correct the defect.

Note: New, remanufactured, or Caterpillar approved replacement parts provided under the terms of this warranty are warranted for the remainder of the warranty period applicable to the product in which installed as if such parts were original components of that product. Items replaced under this warranty become the property of Caterpillar.

- Replace lubricating oil, filters, antifreeze, and other service items made unusable by the defect.

- Provide reasonable and customary labor needed to correct the defect, except in the case of a new replacement engine originally installed by other than a Cat dealer or source approved by Caterpillar. In this

case, labor is limited to repair only, and removal and installation is the user's responsibility.

User Responsibilities

The user is responsible for:

- Providing proof of delivery date to the first user.
- Labor costs, except as stated under "Caterpillar Responsibilities."
- Transportation costs, except as stated under "Caterpillar Responsibilities."
- Premium or overtime labor costs.
- Parts shipping charges in excess of those, that are considered usual and customary.
- Local taxes, if applicable.
- Costs to investigate complaints, unless the problem is caused by a defect in Caterpillar material or workmanship.

- Giving timely notice of a warrantable failure and promptly making the product available for repair.

- Performance of the required maintenance (including use of proper fuel, oil, lubricants, and coolant) and items replaced due to normal wear and tear.

- Allowing Caterpillar access to all electronically stored data.

(continued on the reverse side...)

Limitations

Caterpillar is not responsible for:

- Failures resulting from any use or installation that Caterpillar judges improper.
- Failures resulting from attachments, accessory items, and parts not sold or approved by Caterpillar.
- Failures resulting from abuse, neglect, and/or improper repair.
- Failures resulting from user's delay in making the product available after being notified of a potential product problem.
- Failures resulting from unauthorized repair or adjustments, and unauthorized fuel setting changes.

For products operating outside of Australia, Fiji, Nauru, New Caledonia, New Zealand, Papua New Guinea, the Solomon Islands, and Tahiti, the following is applicable:

NEITHER THE FOREGOING EXPRESS WARRANTY NOR ANY OTHER WARRANTY BY CATERPILLAR, EXPRESS OR IMPLIED, IS APPLICABLE TO ANY ITEM CATERPILLAR SELLS THAT IS WARRANTED DIRECTLY TO THE USER BY ITS MANUFACTURER.

THIS WARRANTY IS EXPRESSLY IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, EXCEPT CATERPILLAR EMISSION-RELATED COMPONENTS WARRANTY FOR NEW ENGINES, WHERE APPLICABLE. REMEDIES UNDER THIS WARRANTY ARE LIMITED TO THE PROVISION OF MATERIAL AND SERVICES, AS SPECIFIED HEREIN.

CATERPILLAR IS NOT RESPONSIBLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

CATERPILLAR EXCLUDES ALL LIABILITY FOR OR ARISING FROM ANY NEGLIGENCE ON ITS PART OR ON THE PART OF ANY OF ITS EMPLOYEES, AGENTS, OR REPRESENTATIVES IN RESPECT OF THE MANUFACTURE OR SUPPLY OF GOODS OR THE PROVISION OF SERVICES RELATING TO THE GOODS.

IF OTHERWISE APPLICABLE, THE VIENNA CONVENTION ON CONTRACTS FOR THE INTERNATIONAL SALE OF GOODS IS EXCLUDED IN ITS ENTIRETY.

For products operating in Australia, Fiji, Nauru, New Caledonia, New Zealand, Papua New Guinea, the Solomon Islands, and Tahiti, the following is applicable:

THIS WARRANTY IS IN ADDITION TO WARRANTIES AND CONDITIONS IMPLIED BY STATUTE AND OTHER STATUTORY RIGHTS AND OBLIGATIONS THAT BY ANY APPLICABLE LAW CANNOT BE EXCLUDED, RESTRICTED OR MODIFIED ("MANDATORY RIGHTS"). ALL OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED (BY STATUTE OR OTHERWISE), ARE EXCLUDED.

NEITHER THIS WARRANTY NOR ANY OTHER CONDITION OR WARRANTY BY CATERPILLAR, EXPRESS OR IMPLIED (SUBJECT ONLY TO THE MANDATORY RIGHTS), IS APPLICABLE TO ANY ITEM CATERPILLAR SELLS THAT IS WARRANTED DIRECTLY TO THE USER BY ITS MANUFACTURER.

TO THE EXTENT PERMITTED UNDER THE MANDATORY RIGHTS, IF CATERPILLAR IS THE SUPPLIER TO THE USER, CATERPILLAR'S LIABILITY SHALL BE LIMITED AT ITS OPTION TO (a) IN THE CASE OF SERVICES, THE SUPPLY OF THE SERVICES AGAIN OR THE PAYMENT OF THE COST OF HAVING THE SERVICES SUPPLIED AGAIN, AND (b) IN THE CASE OF GOODS, THE REPAIR OR REPLACEMENT OF THE GOODS, THE SUPPLY OF EQUIVALENT GOODS, THE PAYMENT OF THE COST OF SUCH REPAIR OR REPLACEMENT OR THE ACQUISITION OF EQUIVALENT GOODS.

CATERPILLAR EXCLUDES ALL LIABILITY FOR OR ARISING FROM ANY NEGLIGENCE ON ITS PART OR ON THE PART OF ANY OF ITS EMPLOYEES, AGENTS OR REPRESENTATIVES IN RESPECT OF THE MANUFACTURE OR SUPPLY OF GOODS OR THE PROVISION OF SERVICES RELATING TO THE GOODS.

CATERPILLAR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES UNLESS IMPOSED UNDER MANDATORY RIGHTS.

IF OTHERWISE APPLICABLE, THE VIENNA CONVENTION (CONTRACTS FOR THE INTERNATIONAL SALE OF GOODS) IS EXCLUDED IN ITS ENTIRETY.

This warranty covers every major component of the products. Claims under this warranty should be submitted to a place of business of a Cat dealer or other source approved by Caterpillar. For further information concerning either the location to submit claims or Caterpillar as the issuer of this warranty, write Caterpillar Inc., 100 N. E. Adams St., Peoria, IL USA 61629.

CONTROL YOUR COSTS MINIMIZE YOUR RISKS

This plan safeguards your investments in new, used and rebuilt machines beyond the standard warranty period. It includes all parts and labor to protect you against failures caused by defects in materials and workmanship. With the Powertrain Equipment Protection Plan, you can increase the predictability of service and maintenance costs—and reduce unplanned downtime.

WHAT WE DO

- Perform necessary inspections to confirm eligibility
- Install parts approved by Caterpillar on covered repairs
- Validate your enrollment in the program

WHAT YOU DO

- Operate equipment according to the Cat Operation & Maintenance Manual (OMM)
- Have recommended preventive maintenance performed at intervals specified in the OMM
- Upon request, provide proof of preventive maintenance compliance (receipts, copies of work orders, invoices)
- Promptly provide the machine for repair in the event of a covered failure

EXCLUSIONS

If a component is not listed, it may not be included in the plan. Other exclusions include:

- > Improper or abusive use of the machine
- > Lubricating oil, antifreeze, filters, consumables and other maintenance items replaced during the covered component repair, unless such items are rendered unusable by a covered component failure
- > Failures caused by normal wear-out
- > Freight charges for parts shipments
- > Travel time and mileage involved in getting to a job site
- > Hauling costs and / or retrieval costs
- > Overtime labor costs
- > Repair costs resulting from the failure of any non-covered components
- > Downtime loss
- > Equipment rental charges
- > Any incidental / consequential damages or costs incurred as a result of a covered component failure.
- > Modifications unless approved by Caterpillar

Examples of covered and excluded components or items are listed here. The actual dealer contract will govern. For a complete list of included components and more information on Cat Equipment Protection Plans, contact your local Cat dealer.

COVERED COMPONENTS

Engine - Internal Components	Camshaft & Camshaft Bearings	Hydrostatic Pumps & Drive Motors
Oil Cooler	Timing / Accessory Gears	Linkage / Lines Connected to Hystat Pump
Manifolds	Timing Chain / Belt	Drive (pilot / eh) Control Valves
Fan Motor	Inlet / Exhaust Valve	Bevel and Transfer Case
Water Pump	Valve Cover & Base	
Fuel Injection Pumps	Valve Spring & Guide	
Injectors	Rocker Arm	
Lift / Transfer Pump	Rocker Shaft Assembly	
Senders / Solenoids / Sensors	Push Rod	
Thermostat	Balancer	
Flywheel & Torque Converter	Fuel Pump / Governor Drive	
Engine Oil Filter Mount	Oil Pump	
Turbocharger	Oil Pan Group	
AC Compressor / Condenser	Fan & Fan Drive	
Electronic Control Modules		
Oil Hoses / Lines (non-hydrostatic)		
Cylinder Block		
Piston		
Piston Rings		
Piston & Connecting Rod		
Crankshaft, Main Bearings & Rod Bearings		
	Transmissions	
	Hydraulic Controls	
	Transmission Oil Filter Base	
	Transmission Gears	
	Final Drives/Planetary	
	Drive Shafts	
	Transfer Case	
	Steering Clutch	
	Steering Clutch & Brake Control Valve	
	Hydraulic Oil Coolers	



Employment Eligibility Verification

Welcome
Teresa McElon

User ID
TMOFS-102

Last Login
09:22 AM - 01/06/2012 Log Out



Click any for help

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My Cases

New Case

View Cases

Search Cases

My Profile

Edit Profile

Change Password

Change Security Questions

My Company

Edit Company Profile

Add New User

View Existing Users

Close Company Account

My Reports

View Reports

My Resources

View Essential Resources

Take Tutorial

View User Manual

Contact Us

Company Information

Company Name: Thompson Tractor Co., Inc.

[View / Edit](#)

Company ID Number: 47130

Doing Business As (DBA)
Name:

DUNS Number:

Physical Location:

Address 1: 2401 Pinson Highway

Address 2:

City: Birmingham

State: AL

Zip Code: 35217

County: JEFFERSON

Mailing Address:

Address 1: P O. Box 10367

Address 2:

City: Birmingham

State: AL

Zip Code: 35202-0367

Additional Information:

Employer Identification Number: 630377478

Total Number of Employees: 1,000 to 2,499

Parent Organization:

Administrator:

Organization Designation:

Employer Category:

NAICS Code: 423 - MERCHANT WHOLESALERS, DURABLE GOODS

[View / Edit](#)

Total Hiring Sites: 40

[View / Edit](#)

Total Points of Contact: 3

[View / Edit](#)

[View MOU](#)

Request for Taxpayer
Identification Number and Certification

Give form to the
requester. Do not
send to the IRS.

Print or type
See Specific Instructions on page 2.

Name (as shown on your income tax return) Thompson Tractor Co., Inc. DBA Thompson Power Systems, Thompson Lift Truck Co.	
Business name, if different from above and The Cat Rent Store	
Check appropriate box: <input type="checkbox"/> Individual/Sole proprietor <input checked="" type="checkbox"/> Corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Limited liability company. Enter the tax classification (D=disregarded entity, C=corporation, P=partnership) ▶ <input type="checkbox"/> Other (see instructions) ▶	<input checked="" type="checkbox"/> Exempt payee
Address (number, street, and apt. or suite no.) P O Box 10367 2401 Pinson Hwy. Tarrant, AL 35217	
City, state, and ZIP code Birmingham, AL 35202-0367	
List account number(s) here (optional) Lockbox Remit To: P O Box 934065, Atlanta, GA 31193-4005	

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on Line 1 to avoid backup withholding. For individuals, this is your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I Instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN* on page 3.

Note. If the account is in more than one name, see the chart on page 4 for guidelines on whose number to enter.

Social security number : : :
or
Employer identification number 63 : 0377478

Part II Certification

Under penalties of perjury, I certify that:

- The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me), and
- I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding, and
- I am a U.S. citizen or other U.S. person (defined below).

Certification Instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the Certification, but you must provide your correct TIN. See the Instructions on page 4.

Sign Here Signature of U.S. person ▶ *Linda L. Duncan, Controller*

Date ▶

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Purpose of Form

A person who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) to report, for example, income paid to you, real estate transactions, mortgage interest you paid, acquisition or abandonment of secured property, cancellation of debt, or contributions you made to an IRA.

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN to the person requesting it (the requester) and, when applicable, to:

- Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),
- Certify that you are not subject to backup withholding, or
- Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income.

Note. If a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.

Definition of a U.S. person. For federal tax purposes, you are considered a U.S. person if you are:

- An individual who is a U.S. citizen or U.S. resident alien,
- A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States,
- An estate (other than a foreign estate), or
- A domestic trust (as defined in Regulations section 301.7701-7).

Special rules for partnerships. Partnerships that conduct a trade or business in the United States are generally required to pay a withholding tax on any foreign partners' share of income from such business. Further, in certain cases where a Form W-9 has not been received, a partnership is required to presume that a partner is a foreign person, and pay the withholding tax. Therefore, if you are a U.S. person that is a partner in a partnership conducting a trade or business in the United States, provide Form W-9 to the partnership to establish your U.S. status and avoid withholding on your share of partnership income.

The person who gives Form W-9 to the partnership for purposes of establishing its U.S. status and avoiding withholding on its allocable share of net income from the partnership conducting a trade or business in the United States is in the following cases:

- The U.S. owner of a disregarded entity and not the entity.

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THE E-VERIFY PROGRAM FOR EMPLOYMENT VERIFICATION

MEMORANDUM OF UNDERSTANDING

ARTICLE I

PURPOSE AND AUTHORITY

This Memorandum of Understanding (MOU) sets forth the points of agreement between the Social Security Administration (SSA), the Department of Homeland Security (DHS) and **Thompson Tractor Co., Inc.** (Employer) regarding the Employer's participation in the Employment Eligibility Verification Program (E-Verify). E-Verify is a program in which the employment eligibility of all newly hired employees will be confirmed after the Employment Eligibility Verification Form (Form I-9) has been completed.

Authority for the E-Verify program is found in Title IV, Subtitle A, of the Illegal Immigration Reform and Immigrant Responsibility Act of 1996 (IIRIRA), Pub. L. 104-208, 110 Stat. 3009, as amended (8 U.S.C. § 1324a note).

ARTICLE II

FUNCTIONS TO BE PERFORMED

A. RESPONSIBILITIES OF THE SSA

1. Upon completion of the Form I-9 by the employee and the Employer, and provided the Employer complies with the requirements of this MOU, SSA agrees to provide the Employer with available information that allows the Employer to confirm the accuracy of Social Security Numbers provided by all newly hired employees and the employment authorization of U.S. citizens.
2. The SSA agrees to provide to the Employer appropriate assistance with operational problems that may arise during the Employer's participation in the E-Verify program. The SSA agrees to provide the Employer with names, titles, addresses, and telephone numbers of SSA representatives to be contacted during the E-Verify process.
3. The SSA agrees to safeguard the information provided by the Employer through the E-Verify program procedures, and to limit access to such information, as is appropriate by law, to individuals responsible for the verification of Social Security Numbers and for evaluation of the E-Verify program or such other persons or entities who may be authorized by the SSA as governed by the Privacy Act (5 U.S.C. § 552a), the Social Security Act (42 U.S.C. 1306(a)), and SSA regulations (20 CFR Part 401).
4. SSA agrees to establish a means of automated verification that is designed (in conjunction with DHS's automated system if necessary) to provide confirmation or tentative nonconfirmation of U.S. citizens' employment eligibility and accuracy of SSA records for both citizens and aliens within 3 Federal Government work days of the initial inquiry.

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5. SSA agrees to establish a means of secondary verification (including updating SSA records as may be necessary) for employees who contest SSA tentative nonconfirmations that is designed to provide final confirmation or nonconfirmation of U.S. citizens' employment eligibility and accuracy of SSA records for both citizens and aliens within 10 Federal Government work days of the date of referral to SSA, unless SSA determines that more than 10 days may be necessary. In such cases, SSA will provide additional verification instructions.

B. RESPONSIBILITIES OF THE DEPARTMENT OF HOMELAND SECURITY

1. Upon completion of the Form I-9 by the employee and the Employer and after SSA verifies the accuracy of SSA records for aliens through E-Verify, DHS agrees to provide the Employer access to selected data from DHS's database to enable the Employer to conduct:

- Automated verification checks on newly hired alien employees by electronic means, and
- Photo verification checks (when available) on newly hired alien employees.

2. DHS agrees to provide to the Employer appropriate assistance with operational problems that may arise during the Employer's participation in the E-Verify program. DHS agrees to provide the Employer names, titles, addresses, and telephone numbers of DHS representatives to be contacted during the E-Verify process.

3. DHS agrees to provide to the Employer a manual (the E-Verify Manual) containing instructions on E-Verify policies, procedures and requirements for both SSA and DHS, including restrictions on the use of E-Verify. DHS agrees to provide training materials on E-Verify.

4. DHS agrees to provide to the Employer a notice, which indicates the Employer's participation in the E-Verify program. DHS also agrees to provide to the Employer anti-discrimination notices issued by the Office of Special Counsel for Immigration-Related Unfair Employment Practices (OSC), Civil Rights Division, and U.S. Department of Justice.

5. DHS agrees to issue the Employer a user identification number and password that permits the Employer to verify information provided by alien employees with DHS's database.

6. DHS agrees to safeguard the information provided to DHS by the Employer, and to limit access to such information to individuals responsible for the verification of alien employment eligibility and for evaluation of the E-Verify program, or to such other persons or entities as may be authorized by applicable law. Information will be used only to verify the accuracy of Social Security Numbers and employment eligibility, to enforce the Immigration and Nationality Act and federal criminal laws, and to ensure accurate wage reports to the SSA.

7. DHS agrees to establish a means of automated verification that is designed (in conjunction with SSA verification procedures) to provide confirmation or tentative nonconfirmation of employees' employment eligibility within 3 Federal Government work days of the initial inquiry.

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8. DHS agrees to establish a means of secondary verification (including updating DHS records as may be necessary) for employees who contest DHS tentative nonconfirmations and photo non-match tentative nonconfirmations that is designed to provide final confirmation or nonconfirmation of the employees' employment eligibility within 10 Federal Government work days of the date of referral to DHS, unless DHS determines that more than 10 days may be necessary. In such cases, DHS will provide additional verification instructions.

C. RESPONSIBILITIES OF THE EMPLOYER

1. The Employer agrees to display the notices supplied by DHS in a prominent place that is clearly visible to prospective employees.

2. The Employer agrees to provide to the SSA and DHS the names, titles, addresses, and telephone numbers of the Employer representatives to be contacted regarding E-Verify.

3. The Employer agrees to become familiar with and comply with the E-Verify Manual.

4. The Employer agrees that any Employer Representative who will perform employment verification queries will complete the E-Verify Tutorial before that individual initiates any queries.

A. The employer agrees that all employer representatives will take the refresher tutorials initiated by the E-Verify program as a condition of continued use of E-Verify.

B. Failure to complete a refresher tutorial will prevent the employer from continued use of the program.

5. The Employer agrees to comply with established Form I-9 procedures, with two exceptions:

- If an employee presents a "List B" identity document, the Employer agrees to only accept "List B" documents that contain a photo. (List B documents identified in 8 C.F.R. § 274a.2 (b) (1) (B)) can be presented during the Form I-9 process to establish identity).
- If an employee presents a DHS Form I-551 (Permanent Resident Card) or Form I-766 (Employment Authorization Document) to complete the Form I-9, the Employer agrees to make a photocopy of the document and to retain the photocopy with the employee's Form I-9. The employer will use the photocopy to verify the photo and to assist the Department with its review of photo non-matches that are contested by employees. Note that employees retain the right to present any List A, or List B and List C, documentation to complete the Form I-9. DHS may in the future designate other documents that activate the photo screening tool.

6. The Employer understands that participation in E-Verify does not exempt the Employer from the responsibility to complete, retain, and make available for inspection Forms I-9 that relate to its employees, or from other requirements of applicable regulations or laws, except for the following modified requirements applicable by reason of the Employer's participation in E-Verify: (1) identity documents must have photos, as described in paragraph 5 above; (2) a

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rebuttable presumption is established that the Employer has not violated section 274A(a)(1)(A) of the Immigration and Nationality Act (INA) with respect to the hiring of any individual if it obtains confirmation of the identity and employment eligibility of the individual in compliance with the terms and conditions of E-Verify ; (3) the Employer must notify DHS if it continues to employ any employee after receiving a final nonconfirmation, and is subject to a civil money penalty between \$500 and \$1,000 for each failure to notify DHS of continued employment following a final nonconfirmation; (4) the Employer is subject to a rebuttable presumption that it has knowingly employed an unauthorized alien in violation of section 274A(a)(1)(A) if the Employer continues to employ any employee after receiving a final nonconfirmation; and (5) no person or entity participating in E-Verify is civilly or criminally liable under any law for any action taken in good faith on information provided through the confirmation system. DHS reserves the right to conduct Form I-9 compliance inspections during the course of E-Verify, as well as to conduct any other enforcement activity authorized by law.

7. The Employer agrees to initiate E-Verify verification procedures within 3 Employer business days after each employee has been hired (but after both sections 1 and 2 of the Form I-9 have been completed), and to complete as many (but only as many) steps of the E-Verify process as are necessary according to the E-Verify Manual. The Employer is prohibited from initiating verification procedures before the employee has been hired and the Form I-9 completed. If the automated system to be queried is temporarily unavailable, the 3-day time period is extended until it is again operational in order to accommodate the Employer's attempting, in good faith, to make inquiries during the period of unavailability. In all cases, the Employer must use the SSA verification procedures first, and use DHS verification procedures and photo screening tool only after the the SSA verification response has been given.

8. The Employer agrees not to use E-Verify procedures for pre-employment screening of job applicants, support for any unlawful employment practice, or any other use not authorized by this MOU. The Employer must use E-Verify for all new employees and will not verify only certain employees selectively. The Employer agrees not to use E-Verify procedures for re-verification, or for employees hired before the date this MOU is in effect. The Employer understands that if the Employer uses E-Verify procedures for any purpose other than as authorized by this MOU, the Employer may be subject to appropriate legal action and the immediate termination of its access to SSA and DHS information pursuant to this MOU.

9. The Employer agrees to follow appropriate procedures (see Article III.B. below) regarding tentative nonconfirmations, including notifying employees of the finding, providing written referral instructions to employees, allowing employees to contest the finding, and not taking adverse action against employees if they choose to contest the finding. Further, when employees contest a tentative nonconfirmation based upon a photo non-match, the Employer is required to take affirmative steps (see Article III.B. below) to contact DHS with information necessary to resolve the challenge.

10. The Employer agrees not to take any adverse action against an employee based upon the employee's employment eligibility status while SSA or DHS is processing the verification request unless the Employer obtains knowledge (as defined in 8 C.F.R. § 274a.1 (l)) that the employee is not work authorized. The Employer understands that an initial inability of the SSA or DHS automated verification to verify work authorization, a tentative nonconfirmation, or the finding of

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a photo non-match, does not mean, and should not be interpreted as, an indication that the employee is not work authorized. In any of the cases listed above, the employee must be provided the opportunity to contest the finding, and if he or she does so, may not be terminated or suffer any adverse employment consequences until and unless secondary verification by SSA or DHS has been completed and a final nonconfirmation has been issued. If the employee does not choose to contest a tentative nonconfirmation or a photo non-match, then the Employer can find the employee is not work authorized and take the appropriate action.

11. The Employer agrees to comply with section 274B of the INA by not discriminating unlawfully against any individual in hiring, firing, or recruitment or referral practices because of his or her national origin or, in the case of a protected individual as defined in section 274B(a)(3) of the INA, because of his or her citizenship status. The Employer understands that such illegal practices can include selective verification or use of E-Verify, discharging or refusing to hire eligible employees because they appear or sound "foreign", and premature termination of employees based upon tentative nonconfirmations, and that any violation of the unfair immigration-related employment practices provisions of the INA could subject the Employer to civil penalties pursuant to section 274B of the INA and the termination of its participation in E-Verify. If the Employer has any questions relating to the anti-discrimination provision, it should contact OSC at 1-800-255-7688 or 1-800-237-2515 (TDD).

12. The Employer agrees to record the case verification number on the employee's Form I-9 or to print the screen containing the case verification number and attach it to the employee's Form I-9.

13. The Employer agrees that it will use the information it receives from the SSA or DHS pursuant to E-Verify and this MOU only to confirm the employment eligibility of newly-hired employees after completion of the Form I-9. The Employer agrees that it will safeguard this information, and means of access to it (such as PINS and passwords) to ensure that it is not used for any other purpose and as necessary to protect its confidentiality, including ensuring that it is not disseminated to any person other than employees of the Employer who are authorized to perform the Employer's responsibilities under this MOU.

14. The Employer acknowledges that the information which it receives from SSA is governed by the Privacy Act (5 U.S.C. § 552a (i) (1) and (3)) and the Social Security Act (42 U.S.C. 1306(a)), and that any person who obtains this information under false pretenses or uses it for any purpose other than as provided for in this MOU may be subject to criminal penalties.

15. The Employer agrees to allow DHS and SSA, or their authorized agents or designees, to make periodic visits to the Employer for the purpose of reviewing E-Verify -related records, i.e., Forms I-9, SSA Transaction Records, and DHS verification records, which were created during the Employer's participation in the E-Verify Program. In addition, for the purpose of evaluating E-Verify, the Employer agrees to allow DHS and SSA or their authorized agents or designees, to interview it regarding its experience with E-Verify, to interview employees hired during E-Verify use concerning their experience with the pilot, and to make employment and E-Verify related records available to DHS and the SSA, or their designated agents or designees. Failure to comply with the terms of this paragraph may lead DHS to terminate the Employer's access to E-Verify.

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ARTICLE III

REFERRAL OF INDIVIDUALS TO THE SSA AND THE DEPARTMENT OF HOMELAND SECURITY

A. REFERRAL TO THE SSA

1. If the Employer receives a tentative nonconfirmation issued by SSA, the Employer must print the tentative nonconfirmation notice as directed by the automated system and provide it to the employee so that the employee may determine whether he or she will contest the tentative nonconfirmation.

2. The Employer will refer employees to SSA field offices only as directed by the automated system based on a tentative nonconfirmation, and only after the Employer records the case verification number, reviews the input to detect any transaction errors, and determines that the employee contests the tentative nonconfirmation. The Employer will transmit the Social Security Number to SSA for verification again if this review indicates a need to do so. The Employer will determine whether the employee contests the tentative nonconfirmation as soon as possible after the Employer receives it.

3. If the employee contests an SSA tentative nonconfirmation, the Employer will provide the employee with a referral letter and instruct the employee to visit an SSA office to resolve the discrepancy within 8 Federal Government work days. The Employer will make a second inquiry to the SSA database using E-Verify procedures on the date that is 10 Federal Government work days after the date of the referral in order to obtain confirmation, or final nonconfirmation, unless otherwise instructed by SSA or unless SSA determines that more than 10 days is necessary to resolve the tentative nonconfirmation..

4. The Employer agrees not to ask the employee to obtain a printout from the Social Security Number database (the Numident) or other written verification of the Social Security Number from the SSA.

B. REFERRAL TO THE DEPARTMENT OF HOMELAND SECURITY

1. If the Employer receives a tentative nonconfirmation issued by DHS, the Employer must print the tentative nonconfirmation notice as directed by the automated system and provide it to the employee so that the employee may determine whether he or she will contest the tentative nonconfirmation.

2. If the Employer finds a photo non-match for an alien who provides a document for which the automated system has transmitted a photo, the employer must print the photo non-match tentative nonconfirmation notice as directed by the automated system and provide it to the employee so that the employee may determine whether he or she will contest the finding.

3. The Employer agrees to refer individuals to DHS only when the employee chooses to contest a tentative nonconfirmation received from DHS automated verification process or when

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the Employer issues a tentative nonconfirmation based upon a photo non-match. The Employer will determine whether the employee contests the tentative nonconfirmation as soon as possible after the Employer receives it.

4. If the employee contests a tentative nonconfirmation issued by DHS, the Employer will provide the employee with a referral letter and instruct the employee to contact the Department through its toll-free hotline within 8 Federal Government work days.

5. If the employee contests a tentative nonconfirmation based upon a photo non-match, the Employer will provide the employee with a referral letter to DHS. DHS will electronically transmit the result of the referral to the Employer within 10 Federal Government work days of the referral unless it determines that more than 10 days is necessary.

6. The Employer agrees that if an employee contests a tentative nonconfirmation based upon a photo non-match, the Employer will send a copy of the employee's Form I-551 or Form I-766 to DHS for review by:

- Scanning and uploading the document, or
- Sending a photocopy of the document by an express mail account (furnished and paid for by DHS).

7. The Employer understands that if it cannot determine whether there is a photo match/non-match, the Employer is required to forward the employee's documentation to DHS by scanning and uploading, or by sending the document as described in the preceding paragraph, and resolving the case as specified by the Immigration Services Verifier at DHS who will determine the photo match or non-match.

ARTICLE IV

SERVICE PROVISIONS

The SSA and DHS will not charge the Employer for verification services performed under this MOU. The Employer is responsible for providing equipment needed to make inquiries. To access the E-Verify System, an Employer will need a personal computer with Internet access.

ARTICLE V

PARTIES

This MOU is effective upon the signature of all parties, and shall continue in effect for as long as the SSA and DHS conduct the E-Verify program unless modified in writing by the mutual consent of all parties, or terminated by any party upon 30 days prior written notice to the others. Any and all system enhancements to the E-Verify program by DHS or SSA, including but not limited to the E-Verify checking against additional data sources and instituting new verification procedures, will be covered under this MOU and will not cause the need for a supplemental MOU that outlines these changes. DHS agrees to train employers on all changes made to E-Verify through the use of mandatory refresher tutorials and updates to the E-Verify manual. Even

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without changes to E-Verify, the Department reserves the right to require employers to take mandatory refresher tutorials.

Termination by any party shall terminate the MOU as to all parties. The SSA or DHS may terminate this MOU without prior notice if deemed necessary because of the requirements of law or policy, or upon a determination by SSA or DHS that there has been a breach of system integrity or security by the Employer, or a failure on the part of the Employer to comply with established procedures or legal requirements. Some or all SSA and DHS responsibilities under this MOU may be performed by contractor(s), and SSA and DHS may adjust verification responsibilities between each other as they may determine.

Nothing in this MOU is intended, or should be construed, to create any right or benefit, substantive or procedural, enforceable at law by any third party against the United States, its agencies, officers, or employees, or against the Employer, its agents, officers, or employees.

Each party shall be solely responsible for defending any claim or action against it arising out of or related to E-Verify or this MOU, whether civil or criminal, and for any liability wherefrom, including (but not limited to) any dispute between the Employer and any other person or entity regarding the applicability of Section 403(d) of IIRIRA to any action taken or allegedly taken by the Employer.

The employer understands that the fact of its participation in E-Verify is not confidential information and may be disclosed as authorized or required by law and DHS or SSA policy, including but not limited to, Congressional oversight, E-Verify publicity and media inquiries, and responses to inquiries under the Freedom of Information Act (FOIA).

The foregoing constitutes the full agreement on this subject between the SSA, DHS, and the Employer.

The individuals whose signatures appear below represent that they are authorized to enter into this MOU on behalf of the Employer and DHS respectively.

To be accepted as a participant in E-Verify, you should only sign the Employer's Section of the signature page. If you have any questions, contact E-Verify Operations at 888-464-4218.

Employer Thompson Tractor Co., Inc.

Frank M Wright

Name (Please type or print)

Title

Electronically Signed

07/11/2007

Signature

Date

Department of Homeland Security – Verification Division

**INFORMATION REQUIRED
FOR THE E-VERIFY PROGRAM**

Information relating to your Company:

Company Name: Thompson Tractor Co., Inc.

Company Facility Address: 2401 Pinson Highway
Birmingham, AL 35217

Company Alternate Address: P.O. Box 10367
Birmingham, AL 35202-0367

County or Parish: JEFFERSON

Employer Identification Number: 630377478

North American Industry
Classification Systems Code: 423

Parent Company: _____

Number of Employees: 1,000 to
2,499 Number of Sites Verified for: 5

Are you verifying for more than 1 site? If yes, please provide the number of sites verified for in each State.

• GEORGIA 5 site(s)

Name:	Kimberly A Stark		
Telephone Number:	(205) 849 - 4279	Fax Number:	(205) 849 - 4565
E-mail Address:	kimberlystark@thompsoncontractor.com		
Name:	Frank M Wright		
Telephone Number:	(205) 849 - 4267	Fax Number:	(205) 849 - 4854
E-mail Address:	frankwright@thompsoncontractor.com		

Company ID Number: 47130

**INFORMATION REQUIRED
FOR THE E-VERIFY PROGRAM**

Information relating to your Company:

Company Name: Thompson Tractor Co., Inc.

Company Facility Address: 2401 Pinson Highway
Birmingham, AL 35217

Company Alternate Address: P.O. Box 10367
Birmingham, AL 35202-0367

County or Parish: JEFFERSON

Employer Identification Number: 630377478

North American Industry
Classification Systems Code: 423

Parent Company: _____

Number of Employees: 1,000 to
2,499 Number of Sites Verified for: 5

Are you verifying for more than 1 site? If yes, please provide the number of sites verified for in each State.

- GEORGIA 5 site(s)

Information relating to the Program Administrator(s) for your Company on policy questions or operational problems:

Name: **Kimberly A Stark**
Telephone Number: **(205) 849 - 4279** Fax Number: **(205) 849 - 4565**
E-mail Address: **kimberlystark@thompsontractor.com**

Name: **Frank M Wright**
Telephone Number: **(205) 849 - 4267** Fax Number: **(205) 849 - 4854**
E-mail Address: **frankwright@thompsontractor.com**

Company ID Number: 47130

USCIS Verification Division

Name (Please type or print)

Title

Electronically Signed

07/11/2007

Signature

Date