924/930/938

SMALL WHEEL LOADERS



	924	930	938
Engine Model*	Cat® C7.1	Cat C7.1	Cat C7.1
Rated Engine Power			
ISO 14396	105 kW (141 hp)	119 kW (160 hp)	140 kW (188 hp)
ISO 14396 (DIN)	143 mhp (PS)	162 mhp (PS)	190 mhp (PS)
Bucket Capacity	1.7-5.0 m³ (2.2-6.5 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	7556 kg (16,658 lb)	8599 kg (18,958 lb)	10 214 kg (22,518 lb)
Operating Weight	11 756 kg (25,918 lb)	13 084 kg (28,845 lb)	15 354 kg (33,850 lb)

*Engine meets Brazil MAR-1 emission standards, equivalent to U.S. EPA Tier 3/EU Stage IIIA.

CAT®

CAT®
924/930/938
MAKING YOUR CHOICE EASY

EFFICIENTLY POWERFUL

Experience the difference with an intelligent hydrostatic powertrain and fuel savings through a lower maximum engine speed working in combination with **auto engine speed** mode. This provides efficiency as standard with a boost in power when you need it. Optimize traction and minimize wheel slip with **auto wheel torque** on all models and **auto differential lock** system (938 only) tuned to provide peak performance while maximizing tire life and keeping operating costs low. Track your production and accurately hit your load targets with Cat® Payload*.

*Not legal for trade



ENJOY ALL DAY COMFORT

Have a seat in the Next Generation Cat Small Wheel Loader and enjoy enhanced all-around visibility and low-effort joystick controls that move with you on a fully adjustable seat suspension. A large, spacious operator environment combined with Caterpillar hydraulic cylinder dampening and smooth, predictable controls make this the most comfortable seat on your jobsite. An upgrade to **multiview camera** and rear-object detection gives you an extra eye on the jobsite while the optional **force-feedback joystick steering** keeps you feeling confident on those long shifts. The optional **operator not present** function helps to isolate the machine if you leave the environment, while seat belt notifications give you a gentle reminder to buckle up.



WORK MADE EASY

Move more with the Caterpillar patented quick-loading performance series buckets and optimized Z-bar linkage. The parallel lift and high tilt forces throughout the working range allow you to confidently handle loads with precise control. Multifunction work has never been easier with **dedicated pumps** for each system and a flow sharing implement valve governed by an intelligent power management system. Simultaneously lift, steer and drive without compromise. Upgrade to **autolube** and **tire pressure monitoring** to make service easy and get to work quicker. Light the way with auto roading lights that come on at night fall.

CUSTOMIZE YOUR EXPERIENCE

Meet your application requirements and individual preferences with Cat **Hystat™ operator modes** featuring four unique powertrain settings. Select classic torque converter mode for smooth rollout; conventional hystat mode for aggressive engine braking; ice mode that maximizes your control on slippery underfoot; or **single-pedal mode** for simplified use. Fine tune machine performance with adjustments at your fingertips through **programmable joysticks**, soft touch buttons and a **jog dial** that works in combination with a standard **touch screen display**. Quickly recall **attachment profiles** that maintain key settings for versatility on the jobsite and optimal efficiency.



EFFICIENTLY POWERFUL

EXPERIENCE THE FUTURE OF FUEL EFFICIENCY AND POWER ON DEMAND

AUTOMATIC ENGINE SPEED CONTROL

+ Reduce fuel burn with a **power on demand** logic that monitors operator inputs and automatic boosted engine speed to meet operator demands. When full speed and power is not needed to meet the operator's commands, the machine will automatically reduce engine speed to save fuel.
+ Automatic idle logic will put the machine into a hibernate speed when not working and jump to life when work is being requested.

AUTOMATIC POWER ON DEMAND

+ Technology made easy with automatic features designed to minimize fuel burn and maximize tire life come standard.



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.

AUTOMATIC WHEEL TORQUE CONTROL

+ Maximize tire life with an **automatic wheel torque** control design to optimize pushing power without spinning tires for peak performance and lower operating costs.



GET POWER TO THE GROUND

+ **Fully locking front differential axle** that can be engaged on the move at full torque.
+ **Automatic locking front differential** axle on 938 only.
+ **Limited slip differential** option on rear axle maximizes traction 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.

SIX CYLINDERS OF EFFICIENT POWER

The Cat C7.1 engine provides cleaner, quieter operation while delivering superior performance and durability through a high torque, low speed design, with a clean emissions module that is designed to manage itself so you can concentrate on your work.

+ **Reduced maintenance complexity** with automatic fuel priming system.
+ **Maximum engine speed of 1,800 rpm** and working range of 1,200 to 1,500 rpm significantly reduces fuel burn and engine wear.
+ **Configurable auto idle shut down** based on time and ambient temperature to further reduce fuel burn.





SMOOTH AND PREDICTABLE MULTIFUNCTION

Load-sensing, variable flow system senses work demand and adjusts flow and pressure to match the operator's request.

+ **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.
+ **Fine tune hydromechanical performance** with fully adjustable third and fourth function flow.
+ **Multifunction without compromise** through dedicated hydraulic systems featuring one pump for the Intelligent Hydrostatic drive, a second pump for the implements and a third pump for the steering system. Drive, lift and steer simultaneously with smooth predictable control.



CAT PAYLOAD*

Cat Payload* allows operator to accurately track payload while loading and track productivity.

+ A lifetime subscription is available.
+ Print your payload in real time with optional on-board printer.

*Not legal for trade



ENJOY ALL DAY COMFORT

BEST SEAT ON YOUR JOBSITE



HAVE A SEAT AND EXPERIENCE:

+ **Joystick steering** option with force-feedback allowing precise control at full roading speeds.
+ **Seat-mounted controls** featuring a low-effort joystick for lift and tilt functions, along with integrated Forward/Neutral/Reverse (FNR) switch and programmable buttons, optional third and fourth auxiliary functions along with jog dial for real time adjustments.
+ Optional **Operator Not Present** logic that will help isolate the machine if the operator leaves the seat.
+ **All around visibility** with single piece front windshield, enhanced side views, increased wiper coverage and parabolic external mirrors.
+ **Automatic climate control** with push button defrost or heated rear glass and external mirrors.
+ **Fully adjustable controls** denoted with yellow accents including steering column, joystick and seat suspension.
+ **Information at a glance** with standard 203-mm (8-inch) full-color touch screen display.
+ **An extra eye on the jobsite** with optional rearview camera, multiview camera or forward facing camera system and optional integrated rear object detection.
+ **A heated and cooled seat** option for added comfort in a wide range of climates.
+ **New seat fabric** and latest generation seat cushions provide all day comfort.
+ **Seat belt beacon** option provides added safety as it lights up when seat belt is connected to buckle.

ENJOY COMING TO WORK WITH:

+ **A spacious, safe, quiet operator environment** featuring ergonomic controls, seatbelt notification and optional Bluetooth® radio with integrated microphone plus multiple USB charging ports and auxiliary (AUX) audio connectors.
+ **Easy access to vital machine parameters** with touch screen display that works in conjunction with the standard soft-touch panel to allow real-time adjustments to machine features in over 25 languages.
+ **Comfortable soft stops at the end of cylinder strokes** called cylinder snubbing and preprogrammed kick-out points due to Caterpillar advanced electro hydraulics.
+ **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 automatic lights that come on when it gets dark. An optional LED lighting package includes engine compartment lighting to illuminate the way to check oil and coolant levels, along with re-fueling the machine in dark conditions.
+ **On board operator coaching** via machine help QR code on the touch-screen display.







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

Perfect parallelism functionality available in fork mode gives predictable performance while high tilt forces throughout the working range help you safely and confidently handle loads with precise control.

VISIBILITY

Visibility to bucket corners and fork tips at ground level remain excellent while sight lines at maximum lift are improved with the lift-arm design. Smaller cab pillars and increased window area combine to improve operator visibility around the machine.

HIGHER LIFT

Lift higher and reach farther with an optional high lift linkage, available on 930 and 938 models. The 938 offers even greater lift height when configured with optional 23.5 tires.

COUPLER OPTIONS

The Caterpillar patented Fusion™ coupler sits back close to the loader arms, minimizing offset, enabling increased machine performance. Optimal visibility in combination with the machine linkage makes it easier and safer to engage and disengage attachments.



FLEXIBLE POWERTRAIN

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

Select your Powertrain Mode:

+ **Torque converter (TC)** for smooth rollout.
+ **Hystat** for aggressive hydraulic braking.
+ **Single pedal** that allows right foot operation for ground speed control with a locked throttle for quick steering and implement control.
+ **Ice** to maximize control on snow and ice, regardless of tire type.

Fine-tune ground speed when using hydro-mechanical work tools such as brooms with creep control adjusted with a jog dial.

+ **Set directional shift response,** soft and smooth for material handling applications or sharp for aggressive operation.

CUSTOMIZE YOUR EXPERIENCE

MAKE IT YOURS

ADJUSTABLE ELECTROHYDRAULIC 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 third and fourth function auxiliary flows.

Operator Profiles and Coded Start

+ Next generation small wheel loaders will remember your personal settings including programmable buttons with unique operator codes to make this machine truly yours and keep it secure.



SERVICE
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 cleanouts** with single plane cooling system and wide spaced 6 fins-per-inch coolers.
+ **Maintenance reminders** through primary touch-screen display at scheduled intervals.
+ **Full flow return filter** designed to keep hydraulic oil clean across multiple systems.
+ **Product Link™ PRO standard** with optional subscription to VisionLink™.
+ **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 the next generation small wheel loader.

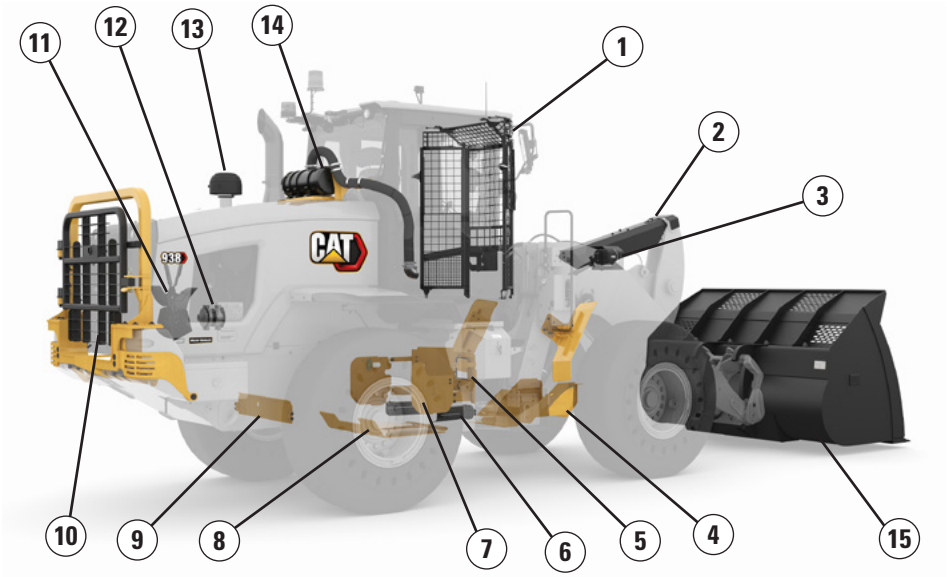


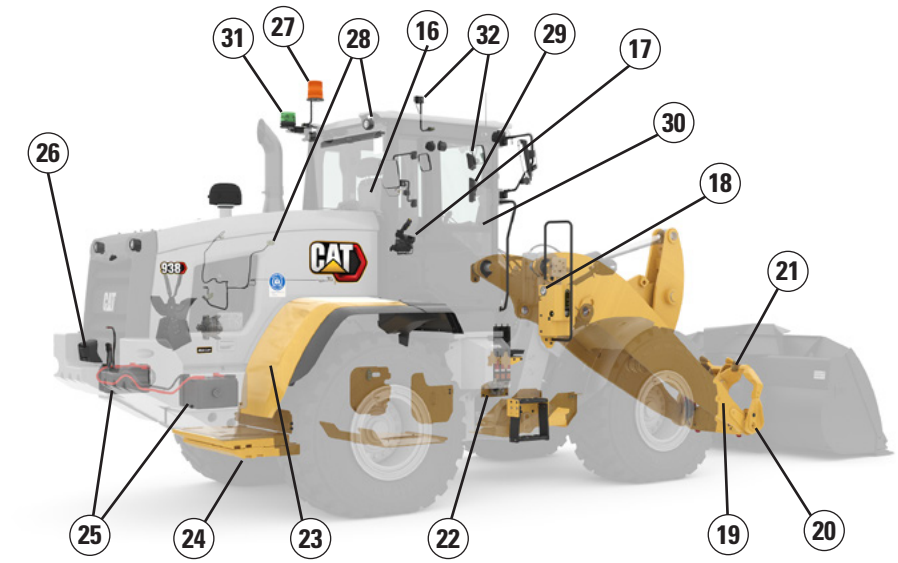
CONFIGURED FOR SUCCESS

READY TO WORK



A complete range of optional equipment and work tools give you the versatility to configure a next gen Cat small 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) *Drive shaft*
5) *Hitch*
6) *Steering cylinders*
7) *Side powertrain*
8) *Lower powertrain*
9) *Crank case*
10) *Rear radiator (930 and 938 only)*

Debris Packages:

11) *Reversing fan*
12) *Sealed alternator*
13) *Turbine pre-cleaner*
14) *RESPA pre-cleaner*

Work Tools:

15) *Full range of attachments*

Operator Environment:

16) *Seat, deluxe or premium*
17) *Joystick Steer*

Other Options:

18) *Autolube*
19) *High lift linkage*
20) *Coupler: Fusion*
21) *Auxiliary hydraulics: 3rd and 4th*
22) *Ride control*
23) *Fenders: extended and full coverage*
24) *Counterweights*
25) *Cold start package*
26) *Rear object detection*
27) *Beacon*
28) *LED auxiliary lights*
29) *Cat Payload*
30) *TPM – Tire Pressure Monitoring*
31) *Seat belt Beacon*
32) *Multi-view camera*

924/930/938 Wheel Loader Specifications

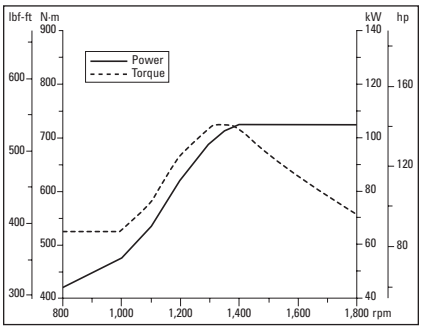
Engine

	924				930				938			
	Cat C7.1				Cat C7.1				Cat C7.1			
Performance Mode	**Power Range 1-4**		**Standard Range 1-3***		**Power Range 1-4**		**Standard Range 1-3***		**Power Range 1-4**		**Standard Range 1-3***	
	kW	**hp**	**kW**	**hp**	**kW**	**hp**	**kW**	**hp**	**kW**	**hp**	**kW**	**hp**
Rated engine power												
Engine speed	1,800 rpm		1,600 rpm		1,800 rpm		1,600 rpm		1,800 rpm		1,600 rpm	
ISO 14396	105	141	101	135	119	160	113	152	140	188	129	173
ISO 14396 (DIN)	143 mhp (PS)		137 mhp (PS)		162 mhp (PS)		154 mhp (PS)		190 mhp (PS)		175 mhp (PS)	
Rated net power												
Engine speed	1,800 rpm		1,600 rpm		1,800 rpm		1,600 rpm		1,800 rpm		1,600 rpm	
SAE J1349 at minimum fan speed	102	137	98	131	116	156	110	148	136	182	126	169
ISO 9249 (DIN) at minimum fan speed	140 mhp (PS)		135 mhp (PS)		159 mhp (PS)		151 mhp (PS)		188 mhp (PS)		173 mhp (PS)	
	N·m	**lbf·ft**	**N·m**	**lbf·ft**	**N·m**	**lbf·ft**	**N·m**	**lbf·ft**	**N·m**	**lbf·ft**	**N·m**	**lbf·ft**
Maximum gross torque												
ISO 14396	725	534	725	534	787	580	787	580	912	672	896	634
Maximum net torque												
SAE J1349	704	519	704	519	753	555	753	555	876	646	860	634
ISO 9249	711	524	711	524	761	561	761	561	886	653	870	641
Displacement	7.01 L		427 in^3		7.01 L		427 in^3		7.01 L		427 in^3	
Bore	105 mm		4 in		105 mm		4 in		105 mm		4 in	
Stroke	135 mm		5 in		135 mm		5 in		135 mm		5 in	

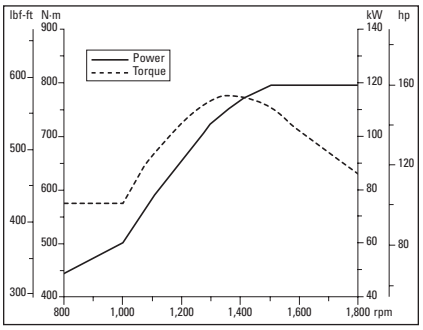
*Range 4 power and torque is equal to performance mode with Caterpillar Power by Range technology.
- Advertised power is tested per the specified standard in effect at the time of manufacture.
- Net power shown is the power available at the flywheel when the engine is equipped with alternator and air cleaner.
- The Cat C7.1 engine meets Brazil MAR-1 emission standards, equivalent to U.S. EPA Tier 3/EU Stage IIIA.

Engine Torque

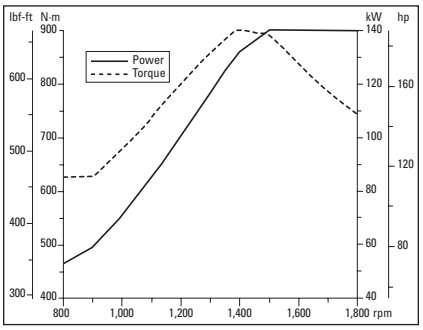
924



930



938



Cab



- Rollover Protective Structure (ROPS): ISO 3471: 2008
- Falling Object Protective Structure (FOPS): ISO 3449: 2005 LEVEL II
- The declared dynamic operator sound pressure level is 72 dB(A) when "ISO 6396:2008" is used to measure the value for an enclosed cab.
- The measurement was conducted at 70% of the maximum engine cooling fan speed, with cab doors and windows closed. The cab was properly installed and maintained. The sound level may vary at different engine cooling fan speeds.
- The declared exterior sound power level is 104 dB(A) when the value is measured according to the dynamic test procedures and the conditions that are specified in "ISO 6395:2008".

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).

*Third and fourth function flow is fully adjustable from 20% to 100% of maximum flow through the secondary display when equipped.

	924		930		938	
Maximum flow – implement pump	150 L/min	40 gal/min	190 L/min	50 gal/min	190 L/min	50 gal/min
Third function maximum flow*	150 L/min	40 gal/min	190 L/min	50 gal/min	190 L/min	50 gal/min
Fourth 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
Third and fourth function maximum Working pressure	26 000 kPa	3,771 psi	25 000 kPa	3,626 psi	28 000 kPa	4,061 psi
Third and fourth 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)	5.4/6.3 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	9.5/10.6 seconds		9.3/10.1 seconds		9.7/10.6 seconds	

Steering

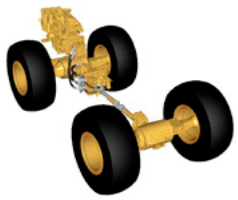


- Steering system uses a dedicated load sensing variable displacement pump with dual double acting cylinders.
- Flow values listed are for a machine running in performance power mode (1,800 rpm).

	924		930		938	
Steering cylinder						
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	2.0 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
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	

924/930/938 Wheel Loader Specifications

Powertrain



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

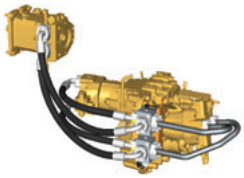
**Optional differential front locking axle can be engaged on the go at full torque to 10 km/h (6.2 mph) on the 924/930 and up to 20 km/h (12.4 mph) on the 938.

	924	930	938
Front axle	Fixed	Fixed	Fixed
Traction aid**	Open differential (standard) Locking differential (optional)	Open differential (standard) Locking differential (optional)	Open differential (standard) Locking differential (optional)
Rear axle	Oscillating	Oscillating	Oscillating
Oscillation angle by tire size			
17.5 R25	± 13.5 degrees	–	–
20.5 R25	± 11 degrees	± 11 degrees	± 11 degrees
Traction aid (optional)	Limited slip differential	Limited slip differential	Limited slip differential
Brakes			
Service	Inboard wet disc	Inboard wet disc	Inboard wet disc
Park	Spring applied hydraulically released	Spring applied hydraulically released	Spring applied hydraulically released

Service Refill Capacities

	924		930		938	
Fuel tank	195 L	51.5 gal	195 L	51.5 gal	195 L	51.5 gal
Cooling system	32 L	8.5 gal	32 L	8.5 gal	32 L	8.5 gal
Engine crankcase	19.5 L	5.2 gal	19.5 L	5.2 gal	19.5 L	5.2 gal
Transmission (gear box)	8.5 L	2.2 gal	8.5 L	2.2 gal	11 L	2.9 gal
Front axle	21 L	5.5 gal	26 L	6.9 gal	35 L	9.2 gal
Rear axle	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

Transmission

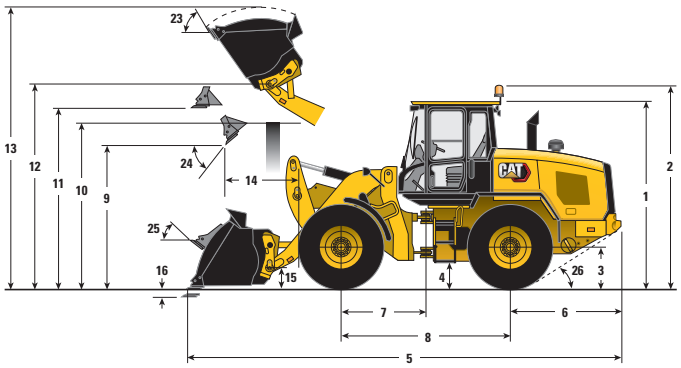


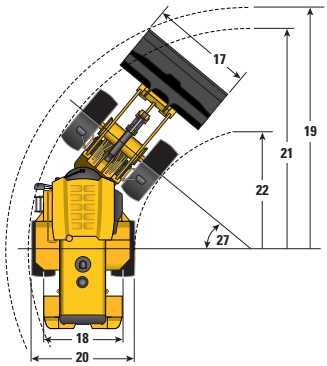
* Creep control allows maximum speed range adjustability from 1 km/h (0.6 mph) to 13 km/h (8 mph) in Range 1 through the display. Factory default is 7 km/h (4.4 mph).

	924		930		938	
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

Dimensions with Bucket

All dimensions are approximate. Dimensions will vary with bucket and tire choice. Refer to operating specifications with buckets.





*Vary with bucket.
**Vary with tire.

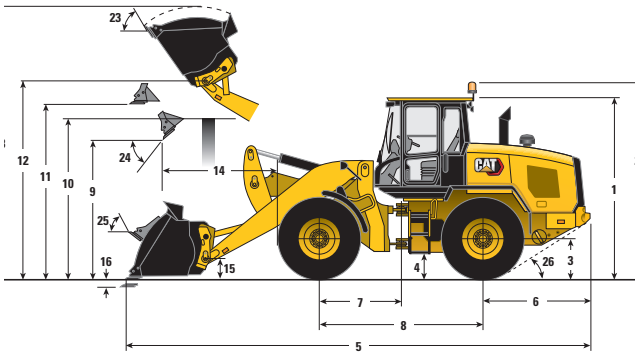
		Standard Lift							
		924		924		930		938	
** 1	Height: ground to cab	3252 mm	10'8"	3340 mm	10'11"	3340 mm	10'11"	3340 mm	10'11"
** 2	Height: ground to beacon	3619 mm	11'10"	3707 mm	12'2"	3707 mm	12'2"	3707 mm	12'2"
** 3	Height: ground to axle center	597 mm	2'0"	685 mm	2'3"	685 mm	2'3"	685 mm	2'3"
** 4	Height: ground clearance	309 mm	1'0"	397 mm	1'4"	397 mm	1'4"	386 mm	1'3"
* 5	Length: overall	7486 mm	24'7"	7418 mm	24'4"	7551 mm	24'9"	7666 mm	25'2"
6	Length: rear axle to bumper	1958 mm	6'5"	1958 mm	6'5"	1993 mm	6'6"	1968 mm	6'5"
7	Length: hitch to front axle	1500 mm	4'11"	1500 mm	4'11"	1500 mm	4'11"	1525 mm	5'0"
8	Length: wheel base	3000 mm	9'10"	3000 mm	9'10"	3000 mm	9'10"	3050 mm	10'0"
* 9	Clearance: bucket at 45°	2713 mm	8'11"	2801 mm	9'2"	2807 mm	9'3"	2822 mm	9'3"
** 10	Clearance: load over height	3220 mm	10'7"	3308 mm	10'10"	3331 mm	10'11"	3354 mm	11'0"
** 11	Clearance: level bucket	3437 mm	11'3"	3526 mm	11'7"	3580 mm	11'9"	3642 mm	11'11"
** 12	Height: bucket pin	3765 mm	12'4"	3853 mm	12'8"	3907 mm	12'10"	3969 mm	13'0"
** 13	Height: overall	4980 mm	16'4"	5068 mm	16'8"	5180 mm	17'0"	5301 mm	17'5"
* 14	Reach: bucket at 45°	1057 mm	3'6"	990 mm	3'3"	1070 mm	3'6"	1146 mm	3'9"
15	Carry height: bucket pin	408 mm	1'4"	402 mm	1'4"	410 mm	1'4"	418 mm	1'4"
** 16	Dig depth	188 mm	7.4"	100 mm	3.9"	100 mm	0'4"	100 mm	3.9"
17	Width: bucket	2550 mm	8'4"	2550 mm	8'4"	2550 mm	8'4"	2750 mm	9'0"
18	Width: tread center	1933 mm	6'4"	1933 mm	6'4"	1930 mm	6'4"	2083 mm	6'10"
19	Turning radius: over bucket	5933 mm	19'6"	5916 mm	19'5"	5943 mm	19'6"	6127 mm	20'1"
20	Width: over tires	2446 mm	8'0"	2543 mm	8'4"	2540 mm	8'4"	2693 mm	8'10"
21	Turning radius: outside of tires	5355 mm	17'7"	5404 mm	17'9"	5402 mm	17'9"	5546 mm	18'2"
22	Turning radius: inside of tires	2898 mm	9'6"	2850 mm	9'4"	2851 mm	9'4"	2843 mm	9'4"
23	Rack angle at full lift	53°		53°		54°		54°	
24	Dump angle at full lift	49°		49°		48°		49°	
25	Rack angle at carry	44°		42°		44°		44°	
26	Departure angle	33°		33°		33°		33°	
27	Articulation angle	40°		40°		40°		40°	
Tires		17.5-25 16PR L3		20.5R25 XHA2 L3		20.5R25 XHA2 L3		20.5R25 XHA2 L3	
	Pressure in front tires	4.48 bar	65 psi	4.14 bar	60 psi	4.14 bar	60 psi	4.14 bar	60 psi
	Pressure in rear tires	3.10 bar	45 psi	2.76 bar	40 psi	2.76 bar	40 psi	2.76 bar	40 psi
Counterweight group		Standard		Standard		Heavy		Heavy	

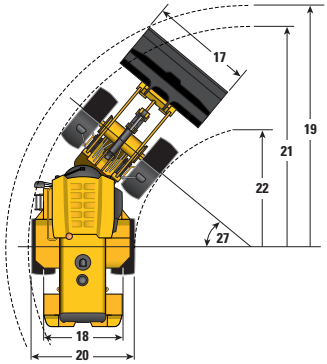
Unless otherwise noted, dimensions listed are for a machine configured with full fluids, 80 kg (176 lb) operator. Bucket volumes above are as follows, each with bolt-on cutting edges on a performance series pin-on bucket: 924 with 2.1 m^3 (2.5 yd^3), 930 with 2.3 m^3 (2.7 yd^3). 938 with 2.7 m^3 (3.3 yd^3). Tires are Michelin except 17.5 16PR are Goodyear.

924/930/938 Wheel Loader Specifications

Dimensions with Bucket

All dimensions are approximate. Dimensions will vary with bucket and tire choice. Refer to operating specifications with buckets.

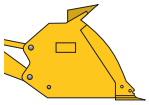




*Vary with bucket. **Vary with tire.	High Lift			
	930		938	
** 1 Height: ground to cab	3340 mm	10'11"	3340 mm	10'11"
** 2 Height: ground to beacon	3707 mm	12'2"	3707 mm	12'2"
** 3 Height: ground to axle center	685 mm	2'3"	685 mm	2'3"
** 4 Height: ground clearance	397 mm	1'4"	386 mm	1'3"
* 5 Length: overall	8345 mm	27'5"	8406 mm	27'7"
6 Length: rear axle to bumper	1993 mm	6'6"	1968 mm	6'5"
7 Length: hitch to front axle	1500 mm	4'11"	1525 mm	5'0"
8 Length: wheel base	3000 mm	9'10"	3050 mm	10'0"
* 9 Clearance: bucket at 45°	3400 mm	11'2"	3403 mm	11'2"
** 10 Clearance: load over height	3540 mm	11'7"	3561 mm	11'8"
** 11 Clearance: level bucket	4173 mm	13'8"	4223 mm	13'10"
** 12 Height: bucket pin	4500 mm	14'9"	4550 mm	14'11"
** 13 Height: overall	5773 mm	18'11"	5881 mm	19'4"
* 14 Reach: bucket at 45°	1391 mm	4'7"	1413 mm	4'8"
15 Carry Height: bucket pin	638 mm	2'1"	633 mm	2'1"
** 16 Dig depth	135 mm	5.3"	135 mm	5.3"
17 Width: bucket	2550 mm	8'4"	2750 mm	9'0"
18 Width: tread center	1930 mm	6'4"	2083 mm	6'10"
19 Turning radius: over bucket	6330 mm	20'9"	6488 mm	21'3"
20 Width: over tires	2540 mm	8'4"	2693 mm	8'10"
21 Turning Radius: outside of tires	5402 mm	17'9"	5546 mm	18'2"
22 Turning Radius: inside of tires	2851 mm	9'4"	2843 mm	9'4"
23 Rack angle at full lift	53°		53°	
24 Dump angle at full lift	47°		47°	
25 Rack angle at carry	50°		49°	
26 Departure angle	33°		33°	
27 Articulation angle	40°		40°	
Tires	20.5R25 XHA2 L3		20.5R25 XHA2 L3	
Pressure in front tires	4.14 bar	60 psi	4.14 bar	60 psi
Pressure in rear tires	2.76 bar	40 psi	2.76 bar	40 psi
Counterweight group	Heavy		Heavy	

Unless otherwise noted, dimensions listed are for a machine configured with full fluids, 80 kg (176 lb) operator. Bucket volumes above are as follows, each with bolt-on cutting edges on a Performance Series pin on bucket: 924 with 2.1 m^3 (2.5 yd^3), 930 with 2.3 m^3 (2.7 yd^3). 938 with 2.7 m^3 (3.3 yd^3). Tires are Michelin except 17.5 16PR are Goodyear.

924 Operating Specifications with Buckets

			General purpose								
											
			Pin On			Fusion			ISO 23727		17.5 Tire
	Capacity – rated	m^3	1.9	2.1	2.3	1.9	2.1	2.3	2.1	2.3	—
		yd^3	2.5	2.7	3.0	2.5	2.7	3.0	2.7	3.0	—
	Capacity – rated at 110% fill factor	m^3	2.1	2.3	2.5	2.1	2.3	2.5	2.3	2.5	—
		yd^3	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,	kg/m^3	1808	1623	1462	1718	1537	1389	1458	1317	—
	110% fill factor	lb/yd^3	3,047	2,736	2,465	2,896	2,591	2,342	2,458	2,220	—
9	Clearance: full lift, 45° dump	mm	2857	2801	2753	2830	2773	2725	2672	2623	–88
		ft/in	9'4"	9'2"	9'0"	9'3"	9'1"	8'11"	8'9"	8'7"	–0'3"
14	Reach: full lift, 45° dump	mm	950	990	1028	982	1022	1059	1147	1184	+67
		ft/in	3'1"	3'3"	3'4"	3'3"	3'4"	3'6"	3'9"	3'11"	+0'3"
	Reach: 2130 mm (7'0") clearance,	mm	1480	1492	1504	1499	1509	1520	1577	1584	+20
	45° dump	ft/in	4'10"	4'11"	4'11"	4'11"	4'11"	5'0"	5'2"	5'2"	+0'1"
	Reach: level arm, level bucket	mm	2231	2303	2366	2273	2345	2408	2506	2569	+67
		ft/in	7'4"	7'7"	7'9"	7'5"	7'8"	7'11"	8'3"	8'5"	+0'3"
16	Dig depth	mm	100	100	100	100	100	100	94	94	+88
		in	3.9"	3.9"	3.9"	3.9"	3.9"	3.9"	3.7"	3.7"	+0'3"
5	Length: overall	mm	7346	7418	7481	7388	7460	7523	7616	7679	+69
		ft/in	24'1"	24'4"	24'7"	24'3"	24'6"	24'8"	25'0"	25'2"	+0'3"
13	Height: overall	mm	4997	5068	5126	5022	5093	5151	5201	5259	–88
		ft/in	16'5"	16'8"	16'10"	16'6"	16'9"	16'11"	17'1"	17'3"	–0'3"
19	Turning radius: over bucket	mm	5894	5916	5936	5917	5939	5958	5970	5991	+16
		ft/in	19'4"	19'5"	19'6"	19'5"	19'6"	19'7"	19'7"	19'8"	+0'1"
	Tipping load – straight, ISO 14397-1*	kg	8715	8652	8547	8322	8238	8159	7819	7742	–246
		lb	19,212	19,075	18,842	18,347	18,162	17,987	17,237	17,068	–543
	Tipping load – straight, rigid tire**	kg	8892	8829	8721	8492	8406	8325	7978	7900	–251
		lb	19,604	19,464	19,227	18,721	18,532	18,354	17,589	17,416	–554
	Tipping load – full turn, ISO 14397-1*	kg	7556	7499	7399	7181	7103	7029	6737	6665	–215
		lb	16,659	16,533	16,313	15,832	15,659	15,497	14,852	14,694	–474
	Tipping load – full turn, rigid tire**	kg	7790	7731	7628	7404	7322	7247	6945	6871	–222
		lb	17,174	17,044	16,817	16,322	16,143	15,976	15,311	15,149	–489
	Breakout force	kg	10 343	9646	9085	9900	9244	8731	7965	7564	+47
		lb	22,803	21,266	20,029	21,826	20,379	19,248	17,560	16,677	+103
	Operating weight	kg	11 756	11 775	11 839	12 111	12 155	12 192	12 121	12 159	–358
		lb	25,918	25,960	26,100	26,699	26,796	26,880	26,722	26,806	–790

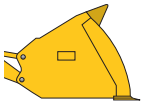
*Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculation and testing.

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

Note: Dimensions listed are for a machine configured with 20.5R25 XHA2 L-3 tires, unless otherwise noted.

924/930/938 Wheel Loader Specifications

924 Operating Specifications with Buckets

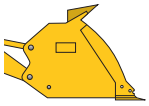
			Light material								
											
			Pin On			Fusion			ISO 23727		17.5 Tire
	Capacity – rated	m^3	3.0	3.5	3.8	3.1	3.5	3.8	3.5	4.2	—
		yd^3	3.9	4.6	5.0	4.1	4.6	5.0	4.6	5.5	—
	Capacity – rated at 110% fill factor	m^3	3.3	3.9	4.2	3.4	3.9	4.2	3.9	4.6	—
		yd^3	4.3	5.0	5.5	4.5	5.0	5.5	5.0	6.0	—
17	Width: 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,	kg/m^3	1079	906	819	994	859	776	820	655	—
	110% fill factor	lb/yd^3	1,819	1,528	1,381	1,676	1,447	1,307	1,382	1,104	—
9	Clearance: full lift, 45° dump	mm	2647	2575	2517	2617	2545	2488	2472	2301	–88
		ft/in	8'8"	8'5"	8'3"	8'7"	8'4"	8'2"	8'1"	7'7"	–0'3"
14	Reach: full lift, 45° dump	mm	1021	1094	1151	1051	1124	1181	1161	1282	+67
		ft/in	3'4"	3'7"	3'9"	3'5"	3'8"	3'11"	3'10"	4'2"	+0'3"
	Reach: 2130 mm (7'0") clearance,	mm	1436	1463	1481	1448	1473	1490	1459	1486	+9
	45° dump	ft/in	4'9"	4'10"	4'10"	4'9"	4'10"	4'11"	4'9"	4'11"	+0'0"
	Reach: level arm, level bucket	mm	2454	2556	2638	2496	2598	2680	2677	2847	+67
		ft/in	8'1"	8'5"	8'8"	8'2"	8'6"	8'9"	8'9"	9'4"	+0'3"
16	Dig depth	mm	100	100	100	100	100	100	125	125	+88
		in	3.9"	3.9"	3.9"	3.9"	3.9"	3.9"	4.9"	4.9"	+0'3"
5	Length: overall	mm	7568	7671	7752	7611	7713	7794	7812	7982	+69
		ft/in	24'10"	25'2"	25'5"	25'0"	25'4"	25'7"	25'8"	26'2"	+0'3"
13	Height: overall	mm	5125	5229	5302	5150	5254	5328	5331	5498	–88
		ft/in	16'10"	17'2"	17'5"	16'11"	17'3"	17'6"	17'6"	18'0"	–0'3"
19	Turning radius: over bucket	mm	6054	6086	6113	6076	6108	6134	6123	6182	+13
		ft/in	19'10"	20'0"	20'1"	19'11"	20'0"	20'2"	20'1"	20'3"	+0'1"
	Tipping load – straight, ISO 14397-1*	kg	8257	8106	7965	7897	7720	7584	7375	7096	–242
		lb	18,204	17,870	17,561	17,411	17,020	16,719	16,260	15,645	–533
	Tipping load – straight, rigid tire**	kg	8426	8271	8128	8059	7878	7739	7526	7241	–247
		lb	18,576	18,235	17,919	17,766	17,368	17,061	16,592	15,964	–544
	Tipping load – full turn, ISO 14397-1*	kg	7122	6979	6849	6779	6611	6485	6314	6051	–211
		lb	15,701	15,387	15,100	14,946	14,575	14,296	13,919	13,341	–466
	Tipping load – full turn, rigid tire**	kg	7342	7195	7061	6989	6816	6685	6509	6238	–218
		lb	16,187	15,863	15,567	15,408	15,026	14,739	14,350	13,753	–481
	Breakout force	kg	8334	7628	7508	8028	7355	7238	6853	5754	+39
		lb	18,373	16,817	16,552	17,699	16,215	15,958	15,108	12,684	+86
	Operating weight	kg	12 067	12 152	12 218	12 398	12 515	12 581	12 436	12 599	–358
		lb	26,603	26,792	26,937	27,332	27,592	27,737	27,416	27,776	–790

*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.

Note: Dimensions listed are for a machine configured with 20.5R25 XHA2 L-3 tires, unless otherwise noted.

930 Operating Specifications with Buckets

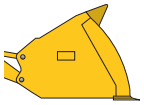
			General purpose								
											High Lift
			Pin On			Fusion			ISO 23727		
	Capacity – rated	m^3	2.1	2.3	2.5	2.1	2.3	2.5	2.1	2.3	—
		yd^3	2.7	3.0	3.3	2.7	3.0	3.3	2.7	3.0	—
	Capacity – rated at 110% fill factor	m^3	2.3	2.5	2.8	2.3	2.5	2.8	2.3	2.5	—
		yd^3	3.0	3.3	3.6	3.0	3.3	3.6	3.0	3.3	—
17	Width: 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,	kg/m^3	1861	1679	1521	1773	1604	1455	1684	1523	—
	110% fill factor	lb/yd^3	3,137	2,830	2,563	2,989	2,703	2,452	2,839	2,567	—
9	Clearance: full lift, 45° dump	mm	2855	2807	2761	2828	2779	2733	2727	2677	+593
		ft/in	9'4"	9'3"	9'1"	9'3"	9'1"	9'0"	8'11"	8'9"	+1'11"
14	Reach: full lift, 45° dump	mm	1033	1070	1109	1064	1102	1140	1190	1227	+320
		ft/in	3'5"	3'6"	3'8"	3'6"	3'7"	3'9"	3'11"	4'0"	+1'1"
	Reach: 2130 mm (7'0") clearance,	mm	1560	1573	1587	1578	1590	1603	1649	1657	+715
	45° dump	ft/in	5'1"	5'2"	5'2"	5'2"	5'3"	5'3"	5'5"	5'5"	+2'4"
	Reach: level arm, level bucket	mm	2350	2413	2475	2392	2455	2517	2553	2616	+653
		ft/in	7'9"	7'11"	8'1"	7'10"	8'1"	8'3"	8'5"	8'7"	+2'2"
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"	+0'1"
5	Length: overall	mm	7488	7551	7613	7530	7593	7655	7686	7749	+794
		ft/in	24'7"	24'9"	25'0"	24'8"	24'11"	25'1"	25'3"	25'5"	+2'7"
13	Height: overall	mm	5122	5180	5239	5147	5205	5264	5255	5313	+593
		ft/in	16'10"	17'0"	17'2"	16'11"	17'1"	17'3"	17'3"	17'5"	+1'11"
19	Turning radius: over bucket	mm	5924	5943	5961	5946	5964	5983	5975	5995	+383
		ft/in	19'5"	19'6"	19'7"	19'6"	19'7"	19'8"	19'7"	19'8"	+1'3"
	Tipping load – straight, ISO 14397-1*	kg	9986	9875	9737	9558	9473	9354	9085	9003	–2715
		lb	22,015	21,770	21,466	21,072	20,885	20,622	20,029	19,848	–5,986
	Tipping load – straight, rigid tire**	kg	10 294	10 180	10 038	9854	9766	9643	9366	9282	–2799
		lb	22,695	22,443	22,130	21,723	21,531	21,259	20,648	20,462	–6,171
	Tipping load – full turn, ISO 14397-1*	kg	8599	8495	8364	8192	8114	8001	7782	7706	–2398
		lb	18,957	18,728	18,439	18,060	17,888	17,640	17,157	16,990	–5,287
	Tipping load – full turn, rigid tire**	kg	8957	8849	8712	8533	8452	8335	8106	8028	–2498
		lb	19,747	19,508	19,207	18,813	18,634	18,375	17,872	17,698	–5,507
	Breakout force	kg	13 426	12 665	11 970	12 887	12 188	11 546	11 159	10 614	–317
		lb	29,600	27,921	26,388	28,412	26,870	25,455	24,602	23,401	–698
	Operating weight	kg	13 084	13 147	13 246	13 463	13 501	13 583	13 429	13 467	+226
		lb	28,844	28,984	29,202	29,681	29,764	29,946	29,606	29,690	+498

*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.

924/930/938 Wheel Loader Specifications

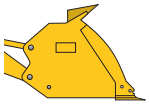
930 Operating Specifications with Buckets

			Light material								
											High Lift
			Pin On			Fusion			ISO 23727		
	Capacity – rated	m³	3.5	3.8	4.2	3.5	3.8	4.2	3.5	4.2	—
		yd³	4.6	5.0	5.5	4.6	5.0	5.5	4.6	5.5	—
	Capacity – rated at 110% fill factor	m³	3.9	4.2	4.6	3.9	4.2	4.6	3.9	4.6	—
		yd³	5.0	5.5	6.0	5.0	5.5	6.0	5.0	6.0	—
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	1047	948	844	998	903	804	954	765	—
		lb/yd³	1,764	1,597	1,423	1,682	1,522	1,355	1,608	1,290	—
9	Clearance: full lift, 45° dump	mm	2631	2573	2510	2600	2543	2480	2527	2356	+607
		ft/in	8'8"	8'5"	8'3"	8'6"	8'4"	8'2"	8'4"	7'9"	+2'0"
14	Reach: full lift, 45° dump	mm	1138	1196	1259	1167	1225	1287	1206	1326	+342
		ft/in	3'9"	3'11"	4'2"	3'10"	4'0"	4'3"	3'11"	4'4"	+1'1"
	Reach: 2130 mm (7'0") clearance, 45° dump	mm	1538	1559	1579	1549	1569	1588	1538	1571	+746
		ft/in	5'1"	5'1"	5'2"	5'1"	5'2"	5'3"	5'1"	5'2"	+2'5"
	Reach: level arm, level bucket	mm	2603	2685	2773	2645	2726	2815	2724	2894	+653
		ft/in	8'6"	8'10"	9'1"	8'8"	8'11"	9'3"	8'11"	9'6"	+2'2"
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"	+0'1"
5	Length: overall	mm	7741	7823	7911	7783	7865	7953	7882	8052	+794
		ft/in	25'5"	25'8"	25'11"	25'6"	25'10"	26'1"	25'10"	26'5"	+2'7"
13	Height: overall	mm	5284	5356	5445	5309	5383	5471	5385	5552	+593
		ft/in	17'4"	17'7"	17'10"	17'5"	17'8"	17'11"	17'8"	18'3"	+1'11"
19	Turning radius: over bucket	mm	6091	6117	6145	6112	6138	6166	6126	6183	+386
		ft/in	20'0"	20'1"	20'2"	20'1"	20'2"	20'3"	20'1"	20'3"	+1'3"
	Tipping load – straight, ISO 14397-1*	kg	9415	9265	9135	9017	8871	8744	8625	8331	–2628
		lb	20,758	20,427	20,140	19,879	19,557	19,277	19,014	18,366	–5,795
	Tipping load – straight, rigid tire**	kg	9707	9552	9418	9296	9145	9014	8891	8588	–2710
		lb	21,399	21,058	20,763	20,493	20,162	19,873	19,602	18,934	–5,974
	Tipping load – full turn, ISO 14397-1*	kg	8060	7922	7802	7682	7548	7430	7346	7071	–2323
		lb	17,770	17,466	17,199	16,935	16,639	16,379	16,194	15,589	–5,121
	Tipping load – full turn, rigid tire**	kg	8396	8252	8127	8002	7862	7739	7652	7366	–2419
		lb	18,510	18,194	17,916	17,641	17,333	17,062	16,869	16,239	–5,334
	Breakout force	kg	10 715	10 574	9413	10 350	10 214	9119	9696	8202	–260
		lb	23,622	23,311	20,753	22,819	22,517	20,103	21,376	18,082	–574
	Operating weight	kg	13 461	13 527	13 590	13 824	13 889	13 953	13 744	13 907	+226
		lb	29,676	29,821	29,962	30,476	30,621	30,762	30,300	30,660	+498

*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.

938 Operating Specifications with Buckets

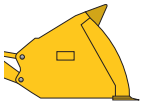
			General purpose								
											High Lift
			Pin On			Fusion			ISO 23727		
	Capacity – rated	m³	2.5	2.7	2.9	2.5	2.7	2.9	2.5	2.7	—
		yd³	3.3	3.5	3.8	3.3	3.5	3.8	3.3	3.5	—
	Capacity – rated at 110% fill factor	m³	2.8	3.0	3.2	2.8	3.0	3.2	2.8	3.0	—
		yd³	3.6	3.9	4.2	3.6	3.9	4.2	3.6	3.9	—
17	Width: Bucket	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/m³	1857	1704	1575	1768	1622	1498	1698	1556	—
		lb/yd³	3,130	2,873	2,654	2,980	2,733	2,526	2,862	2,623	—
9	Clearance: full lift, 45° dump	mm	2869	2822	2786	2834	2787	2751	2739	2691	+581
		ft/in	9'5"	9'3"	9'2"	9'4"	9'2"	9'0"	9'0"	8'10"	+1'11"
14	Reach: full lift, 45° dump	mm	1108	1146	1178	1146	1185	1216	1264	1302	+267
		ft/in	3'8"	3'9"	3'10"	3'9"	3'11"	4'0"	4'2"	4'3"	+0'10"
	Reach: 2130 mm (7'0") clearance, 45° dump	mm	1637	1652	1664	1658	1672	1684	1725	1736	+665
		ft/in	5'4"	5'5"	5'6"	5'5"	5'6"	5'6"	5'8"	5'8"	+2'2"
	Reach: level arm, level bucket	mm	2452	2514	2563	2504	2566	2615	2655	2717	+607
		ft/in	8'1"	8'3"	8'5"	8'3"	8'5"	8'7"	8'9"	8'11"	+2'0"
16	Dig depth	mm	100	100	100	101	101	101	94	94	+35
		in	3.9"	3.9"	3.9"	4.0"	4.0"	4.0"	3.7"	3.7"	+0'1"
5	Length: overall	mm	7604	7666	7715	7656	7718	7767	7802	7864	+740
		ft/in	24'11"	25'2"	25'4"	25'1"	25'4"	25'6"	25'7"	25'10"	+2'5"
13	Height: overall	mm	5242	5301	5348	5273	5332	5379	5375	5434	+581
		ft/in	17'2"	17'5"	17'7"	17'4"	17'6"	17'8"	17'8"	17'10"	+1'11"
19	Turning radius: over bucket	mm	6109	6127	6142	6134	6152	6167	6160	6180	+356
		ft/in	20'1"	20'1"	20'2"	20'1"	20'2"	20'3"	20'3"	20'3"	+1'2"
	Tipping load – straight, ISO 14397-1*	kg	11 899	11 801	11 719	11 378	11 281	11 201	10 926	10 823	–3005
		lb	26,233	26,017	25,835	25,084	24,870	24,695	24,087	23,862	–6,625
	Tipping load – straight, rigid tire**	kg	12 267	12 166	12 081	11 730	11 630	11 548	11 264	11 158	–3098
		lb	27,044	26,821	26,634	25,860	25,639	25,458	24,832	24,600	–6,830
	Tipping load – full turn, ISO 14397-1*	kg	10 214	10 123	10 047	9722	9633	9559	9340	9244	–2646
		lb	22,518	22,318	22,150	21,434	21,237	21,075	20,590	20,380	–5,834
	Tipping load – full turn, rigid tire**	kg	10 640	10 545	10 466	10 127	10 034	9958	9729	9629	–2757
		lb	23,457	23,248	23,073	22,327	22,121	21,953	21,448	21,229	–6,077
	Breakout force	kg	13 812	13 082	12 552	13 170	12 498	12 009	11 583	11 039	–507
		lb	30,451	28,841	27,673	29,035	27,554	26,474	25,537	24,337	–1,118
	Operating weight	kg	15 354	15 399	15 435	15 780	15 824	15 860	15 669	15 720	+217
		lb	33,849	33,948	34,029	34,789	34,887	34,966	34,543	34,656	+478

*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.

924/930/938 Wheel Loader Specifications

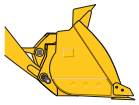
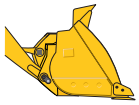
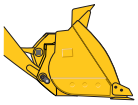
938 Operating Specifications with Buckets

			Light material								
											High Lift
			Pin On			Fusion			ISO 23727		
	Capacity – rated	m^3	3.8	4.2	5.0	3.8	4.2	5.0	4.2	5.0	—
		yd^3	5.0	5.5	6.5	5.0	5.5	6.5	5.5	6.5	—
	Capacity – rated at 110% fill factor	m^3	4.2	4.6	5.5	4.2	4.6	5.5	4.6	5.5	—
		yd^3	5.5	6.0	7.2	5.5	6.0	7.2	6.0	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	1162	1035	869	1105	986	825	949	795	—
		lb/yd^3	1,958	1,745	1,465	1,863	1,662	1,391	1,599	1,340	—
9	Clearance: full lift, 45° dump	mm	2633	2571	2571	2596	2534	2534	2417	2417	+598
		ft/in	8'8"	8'5"	8'5"	8'6"	8'4"	8'4"	7'11"	7'11"	+2'0"
14	Reach: full lift, 45° dump	mm	1232	1294	1294	1268	1331	1331	1362	1413	+292
		ft/in	4'0"	4'3"	4'3"	4'2"	4'4"	4'4"	4'6"	4'8"	+1'0"
	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"	5'5"	5'6"	5'6"	5'5"	5'5"	+2'3"
	Reach: level arm, level bucket	mm	2723	2812	2812	2775	2864	2864	2932	3004	+607
		ft/in	8'11"	9'3"	9'3"	9'1"	9'5"	9'5"	9'7"	9'10"	+2'0"
16	Dig depth	mm	100	100	100	101	101	101	125	125	+35
		in	3.9"	3.9"	3.9"	4.0"	4.0"	4.0"	4.9"	4.9"	+0'1"
5	Length: overall	mm	7875	7964	7964	7928	8016	8016	8105	8177	+740
		ft/in	25'10"	26'2"	26'2"	26'0"	26'4"	26'4"	26'7"	26'10"	+2'5"
13	Height: overall	mm	5418	5507	5786	5450	5539	5820	5614	5902	+581
		ft/in	17'9"	18'1"	19'0"	17'11"	18'2"	19'1"	18'5"	19'4"	+1'11"
19	Turning radius: over bucket	mm	6192	6220	6220	6216	6244	6244	6258	6282	+365
		ft/in	20'4"	20'5"	20'5"	20'5"	20'6"	20'6"	20'6"	20'7"	+1'2"
	Tipping load – straight, ISO 14397-1*	kg	11 357	11 201	11 199	10 854	10 718	10 686	10 312	10 295	–2898
		lb	25,037	24,693	24,690	23,929	23,629	23,558	22,734	22,696	–6,389
	Tipping load – straight, rigid tire**	kg	11 708	11 547	11 545	11 190	11 049	11 016	10 631	10 613	–2988
		lb	25,811	25,457	25,453	24,669	24,359	24,287	23,437	23,397	–6,587
	Tipping load – full turn, ISO 14397-1*	kg	9713	9568	9563	9238	9113	9078	8767	8746	–2553
		lb	21,413	21,093	21,082	20,367	20,090	20,013	19,328	19,282	–5,629
	Tipping load – full turn, rigid tire**	kg	10 117	9966	9961	9623	9492	9456	9132	9111	–2660
		lb	22,305	21,972	21,960	21,216	20,927	20,847	20,133	20,085	–5,863
	Breakout force	kg	11 603	10 331	10 292	11 122	9942	9887	9023	8977	–437
		lb	25,581	22,775	22,691	24,519	21,918	21,798	19,891	19,792	–964
	Operating weight	kg	15 623	15 700	15 747	16 046	16 110	16 188	16 006	16 065	+217
		lb	34,443	34,612	34,716	35,376	35,517	35,688	35,286	35,418	+478

*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.

Operating Specifications with Sand and Gravel Buckets

			Pin-on sand and gravel					
								
			924		930		938	
	Capacity – rated	m^3	2.5	2.7	2.7	3.2	3.2	3.5
		yd^3	3.3	3.5	3.5	4.2	4.2	4.6
	Capacity – rated at 110% fill factor	m^3	2.8	3.0	3.0	3.5	3.5	3.9
		yd^3	3.6	3.9	3.9	4.6	4.6	5.0
17	Width: bucket	mm	2747	2747	2747	2750	2747	2723
		ft/in	9'0"	9'0"	9'0"	9'0"	9'0"	8'11"
	Nominal material density, 110% fill factor	kg/m^3	1345	1240	1431	1199	1450	1284
		lb/yd^3	2,268	2,090	2,411	2,021	2,443	2,164
9	Clearance: full lift, 45° dump	mm	2753	2706	2761	2724	2786	2710
		ft/in	9'0"	8'11"	9'1"	8'11"	9'2"	8'11"
14	Reach: full lift, 45° dump	mm	1028	1066	1109	1140	1178	1308
		ft/in	3'4"	3'6"	3'8"	3'9"	3'10"	4'3"
	Reach: 2130 mm (7'0") clearance, 45° dump	mm	1504	1516	1587	1598	1664	1753
		ft/in	4'11"	5'0"	5'2"	5'3"	5'6"	5'9"
	Reach: level arm, level bucket	mm	2366	2428	2475	2524	2563	2704
		ft/in	7'9"	8'0"	8'1"	8'3"	8'5"	8'10"
16	Dig depth	mm	100	100	100	100	100	100
		in	3.9"	3.9"	3.9"	3.9"	3.9"	3.9"
5	Length: overall	mm	7481	7543	7613	7662	7715	7856
		ft/in	24'7"	24'9"	25'0"	25'2"	25'4"	25'9"
13	Height: overall	mm	5126	5184	5239	5349	5411	5548
		ft/in	16'10"	17'0"	17'2"	17'7"	17'9"	18'2"
19	Turning radius: over bucket	mm	6025	6044	6051	6067	6141	6174
		ft/in	19'9"	19'10"	19'10"	19'11"	20'2"	20'3"
	Tipping load – straight, ISO 14397-1*	kg	8768	8635	10 017	9954	12 036	11 702
		lb	19,330	19,037	22,085	21,945	26,535	25,799
	Tipping load – straight, rigid tire**	kg	9133	8995	10 435	10 369	12 538	12 190
		lb	20,136	19,830	23,005	22,860	27,641	26,874
	Tipping load – full turn, ISO 14397-1*	kg	7491	7366	8498	8440	10 205	9886
		lb	16,516	16,239	18,735	18,607	22,498	21,794
	Tipping load – full turn, rigid tire**	kg	7969	7836	9040	8979	10 856	10 517
		lb	17,570	17,275	19,931	19,794	23,934	23,186
	Breakout force	kg	9028	8509	11 912	11 421	12 520	11 148
		lb	19,903	18,760	26,261	25,178	27,603	24,576
	Operating weight	kg	12 255	12 346	13 654	13 691	15 786	16 057
		lb	27,018	27,218	30,103	30,183	34,803	35,400

*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.

Note: Dimensions listed are for machine configured with pin-on buckets, bolt-on cutting edges and aggregate counterweight packages.

924/930/938 Wheel Loader Specifications

General Purpose Bucket Selection – Standard Lift

Material type					1400 (2,360)	1475 (2,486)	1550 (2,613)	1625 (2,739)	1700 (2,865)	1775 (2,992)	1850 (3,118)	1925 (3,245)	2000 (3,371)	2075 (3,498)	2150 (3,624)	Tip load – full turn*	
Material / Fill factor%					Sand, dry and loose 105%; Clay and gravel, dry 105%	Clay, natural bed, dry 110%; Sandstone 105%; Limestone, crushed 105%	Clay and gravel, wet 110%; Sand and clay, loose 105%; 25% rock, 75% earth 115%	Gypsum, crushed 105%; Granite, broken 105%; Clay, natural bed, wet 110%	Sand and gravel, dry 105%; Sand, damp 110%	50% rock, 50% earth 115%	Sand, wet 110%	Gravel, pitrun 110%; 75% rock, 25% earth 115%	Sand and gravel, wet 110%				

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	m³	yd³	Counter-weight	kg/m³ lb/yd³	1400 (2,360)	1475 (2,486)	1550 (2,613)	1625 (2,739)	1700 (2,865)	1775 (2,992)	1850 (3,118)	1925 (3,245)	2000 (3,371)	2075 (3,498)	2150 (3,624)	kg	(lb)
Pin on	1.9	(2.5)	Aggregate							115%	110%		105%	100%		8007	(17,652)
			Standard						115%	110%	105%	100%				7556	(16,659)
	2.1	(2.7)	Aggregate					115%	110%	105%	100%					7948	(17,522)
			Standard				115% 110%		105%	100%						7499	(16,533)
	2.3	(3.0)	Aggregate			115%	110% 105%		100%							7846	(17,298)
			Standard	115%	110%	105%	100%									7399	(16,313)
Fusion	1.9	(2.5)	Aggregate						115%	110%	105%		100%			7626	(16,813)
			Standard					115%	110%	105%	100%					7181	(15,832)
	2.1	(2.7)	Aggregate				115%	110%	105%	100%						7546	(16,636)
			Standard		115%	110%	105%	100%								7103	(15,659)
	2.3	(3.0)	Aggregate		115%	110% 105%	100%									7470	(16,469)
			Standard	110%	105%	100%										7029	(15,497)

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	m³	yd³	Counter-weight	kg/m³ (lb/yd³)	1400 (2,360)	1475 (2,486)	1550 (2,613)	1625 (2,739)	1700 (2,865)	1775 (2,992)	1850 (3,118)	1925 (3,245)	2000 (3,371)	2075 (3,498)	2150 (3,624)	kg	(lb)
Pin on	2.1	(2.7)	Aggregate								115%	110%	105%		100%	9033	(19,914)
			Heavy							115%	110%	105%	100%			8599	(18,957)
			Standard					115%	110%	105%	100%					8073	(17,797)
	2.3	(3.0)	Aggregate					115%	110%	105%		100%				8927	(19,680)
			Heavy				115%	110%	105%	100%						8495	(18,728)
			Standard			115%	110%	105%	100%							7971	(17,573)
	2.5	(3.3)	Aggregate			115%	110%	105%	100%							8794	(19,387)
			Heavy		115%	110%	105%	100%								8364	(18,439)
			Standard		110%	105%	100%									7842	(17,288)
Fusion	2.1	(2.7)	Aggregate							115%	110%	105%	100%			8620	(19,004)
			Heavy					115%	110%		105%	100%				8192	(18,060)
	2.3	(3.0)	Aggregate				115%	110%	105%		100%					8540	(18,828)
			Heavy			115%	110%	105%	100%							8114	(17,888)
	2.5	(3.3)	Aggregate		115%	110%	105%	100%								8426	(18,575)
			Heavy	115%	110%	105%	100%									8001	(17,640)

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	m³	yd³	Counter-weight	kg/m³ (lb/yd³)	1400 (2,360)	1475 (2,486)	1550 (2,613)	1625 (2,739)	1700 (2,865)	1775 (2,992)	1850 (3,118)	1925 (3,245)	2000 (3,371)	2075 (3,498)	2150 (3,624)	kg	(lb)
Pin on	2.5	(3.3)	Aggregate							115%		110%	105%	100%		10 632	(23,439)
			Heavy							115%	110%	105%	100%			10 214	(22,518)
			Standard					115%	110%	105%		100%				9695	(21,373)
	2.7	(3.5)	Aggregate					115%	110%		105%	100%				10 539	(23,235)
			Heavy					115%	110%	105%	100%					10 123	(22,318)
			Standard			115%	110%	105%		100%						9606	(21,178)
	2.9	(3.8)	Aggregate				115%	110%	105%	100%						10 462	(23,064)
			Heavy			115%	110%	105%	100%							10 047	(22,150)
			Standard		115%	110%	105%	100%								9532	(21,014)
Fusion	2.5	(3.3)	Aggregate						115%	110%		105%	100%			10 134	(22,341)
			Heavy					115%	110%		105%	100%				9722	(21,434)
	2.7	(3.5)	Aggregate				115%	110%	105%		100%					10 042	(21,140)
			Heavy				115% 110%	105%		100%						9633	(21,237)
	2.9	(3.8)	Aggregate			115%	110%	105%	100%							9968	(21,975)
			Heavy		115%	110%	105%	100%								9559	(21,075)

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 Section 1 thru 6, which requires 2% verification between calculation and testing.

Light Material Bucket Selection – Standard Lift

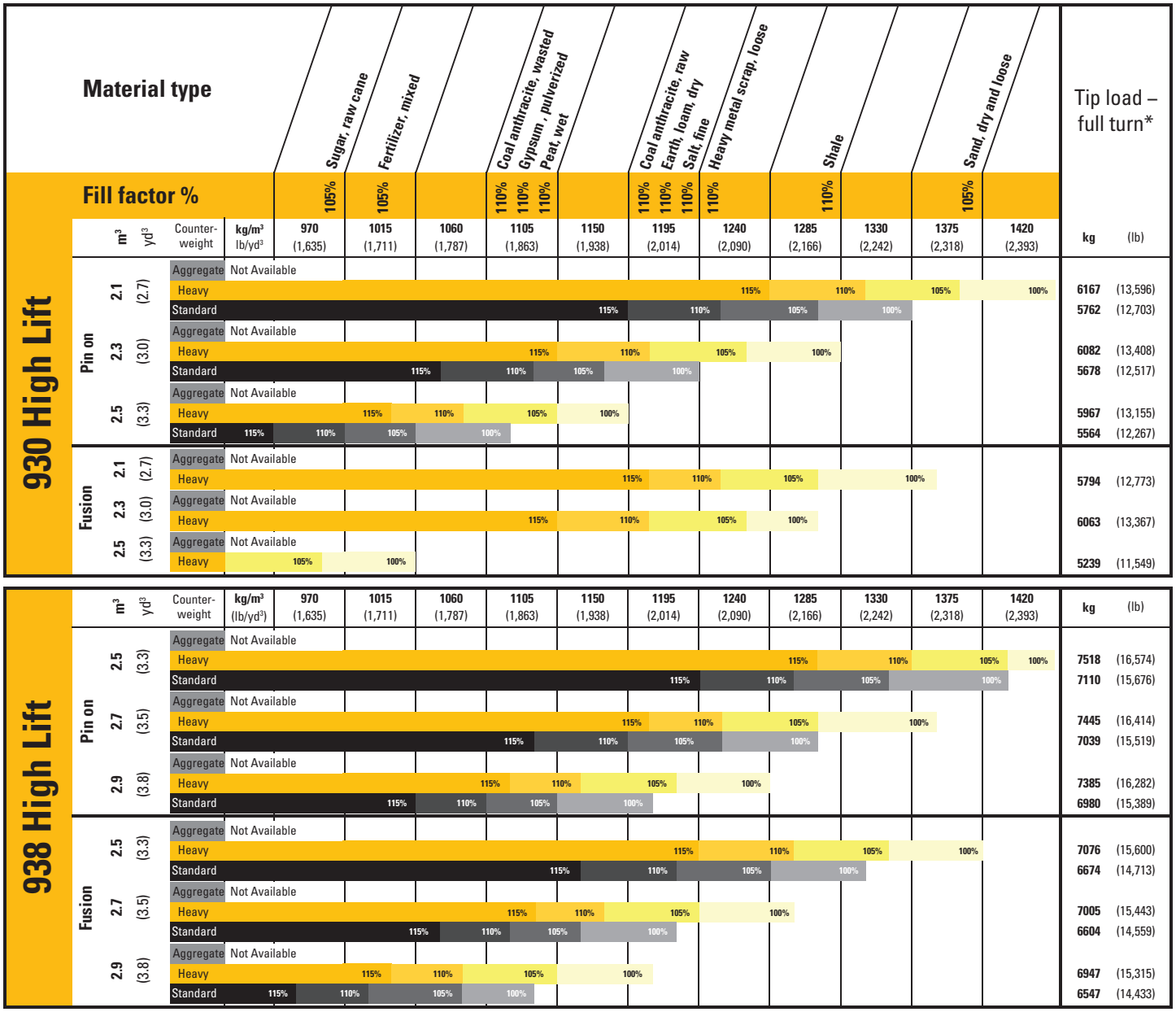
				Material type	Bulk grain	Construction and demolition	Silage, packed	Manure/muck, wet	Coal bituminous, washed	Peat, moist	Coal bituminous, raw	Sugar, raw cane	Fertilizer, mixed	Coal anthracite, washed	Gypsum, pulverized	Peat, wet	Coal anthracite, raw	Earth, loam, dry	Salt, fine	Heavy metal scrap, loose	Tip load – full turn*	
				Fill factor %	100%	110%	115%	110%	110%	110%	110%	105%	105%	110%	110%	110%	110%	105%	110%			
		m^3	yd^3	Counter-weight	kg/m^3 lb/yd^3	805 (1,357)		850 (1,433)		895 (1,509)	940 (1,584)	985 (1,660)	1030 (1,736)	1075 (1,812)	1120 (1,888)	1165 (1,964)	1210 (2,040)	1255 (2,115)	kg	(lb)
924	Pin on	3.1	(4.1)	Aggregate										115%	110%	105%	100%			7565	(16,678)
				Standard								115%	110%	105%	100%					7122	(15,701)
		3.5	(4.6)	Aggregate					115%	110%	105%	100%								7419	(16,357)
				Standard				115%	110%	105%	100%									6979	(15,387)
		3.8	(5.0)	Aggregate			115%	110%		105%	100%									7285	(16,062)
				Standard		110%	105%	100%												6849	(15,100)
	Fusion	3.1	(4.1)	Aggregate							115%	110%	105%	100%						7217	(15,910)
				Standard						115%	110%	105%	100%							6779	(14,946)
		3.5	(4.6)	Aggregate				115%	110%	105%	100%									7045	(15,532)
				Standard		115%	110%	105%	100%											6611	(14,575)
		3.8	(5.0)	Aggregate	115%	110%		105%	100%											6915	(15,246)
				Standard	105%	100%														6485	(14,296)
930	Pin on	3.5	(4.6)	Aggregate										115%	110%	105%	100%			8485	(18,707)
				Heavy								115%	110%	105%	100%					8060	(17,770)
				Standard					115%	110%	105%	100%								7545	(16,633)
		3.8	(5.0)	Aggregate					115%	110%	105%	100%								8344	(18,395)
				Heavy					115%	110%	105%	100%								7922	(17,466)
				Standard			115%	110%	105%	100%										7411	(16,338)
		4.2	(5.5)	Aggregate			115%	110%	105%	100%										8220	(18,123)
				Heavy		115%	110%	105%	100%											7802	(17,199)
				Standard		105%	100%													7293	(16,079)
	Fusion	3.5	(4.6)	Aggregate								115%	110%	105%	100%					8101	(17,860)
				Heavy						115%	110%	105%	100%							7682	(16,935)
		3.8	(5.0)	Aggregate					115%	110%	105%	100%								7964	(17,557)
				Heavy			115%	110%	105%	100%										7548	(16,639)
		4.2	(5.5)	Aggregate		115%	110%	105%	100%											7843	(17,291)
				Heavy	110%	105%	100%													7430	(16,379)
938	Pin on	3.8	(5.0)	Log/Aggregate											115%	110%	105%	100%		10 124	(22,313)
				Heavy										115%	110%	105%	100%			9713	(21,413)
				Standard									115%	110%	105%	100%				9205	(20,294)
		4.2	(5.5)	Log/Aggregate								115%	110%	105%	100%					9973	(21,988)
				Heavy							115%	110%	105%	100%						9568	(21,093)
				Standard					115%	110%	105%	100%								9063	(19,981)
		5.0	(6.5)	Log/Aggregate				115%	110%	105%	100%									9969	(21,978)
				Heavy		115%	110%	105%	100%											9563	(21,082)
				Standard		110%	105%	100%												9057	(19,967)
	Fusion	3.8	(5.0)	Log/Aggregate										115%	110%	105%	100%			9640	(21,253)
				Heavy									115%	110%	105%	100%				9238	(20,367)
		4.2	(5.5)	Log/Aggregate								115%	110%	105%	100%					9512	(20.971)
				Heavy						115%	110%	105%	100%							9113	(20,090)
		5.0	(6.5)	Log/Aggregate		115%	110%	105%	100%											9478	(20,896)
				Heavy		110%	105%	100%												9078	(20,013)

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 Section 1 thru 6, which requires 2% verification between calculation and testing.

930/938 Wheel Loader Specifications

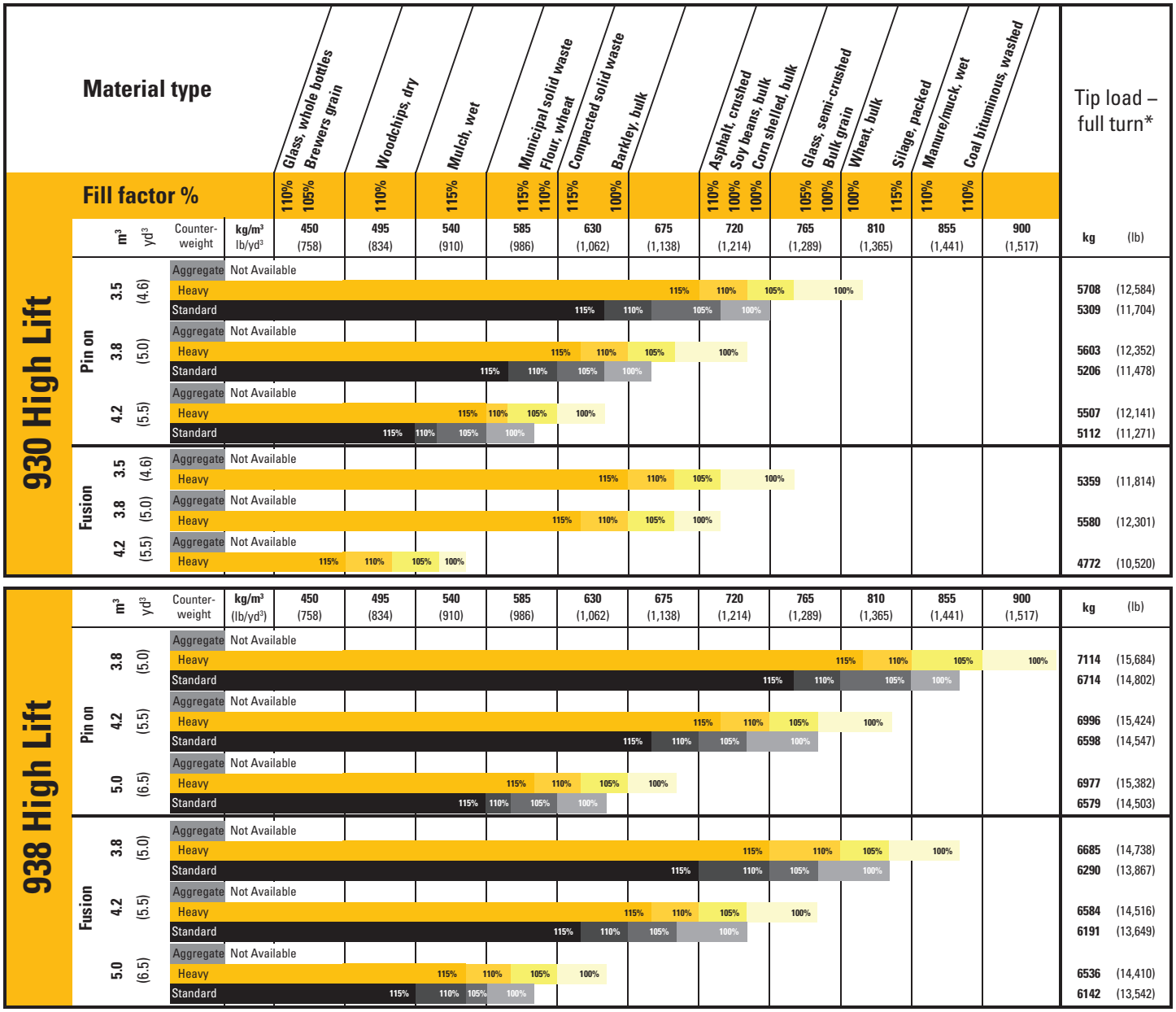
General Purpose Bucket Selection – High Lift



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.

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Light Material Bucket Selection – High Lift



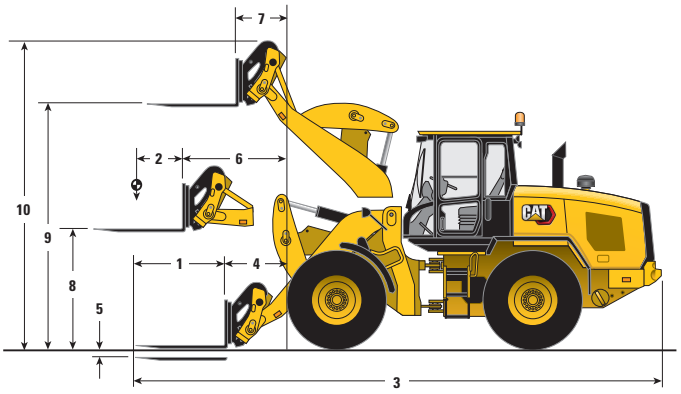
Material density, fill factor and counterweight options are key variables when choosing the appropriate size of the bucket. The long floor and open throat design of the performance series buckets along with the aggressive rack angles of the optimized linkage will demonstrate fill factors greater than 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.

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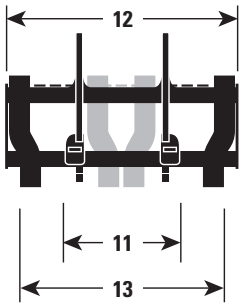
924/930/938 Wheel Loader Specifications

Operating Specifications with Forks

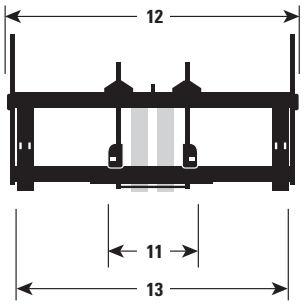
All dimensions are approximate. Dimensions will vary with bucket and tire choice. Refer to Operating Specifications with Buckets.



Pallet Fork



Construction Fork



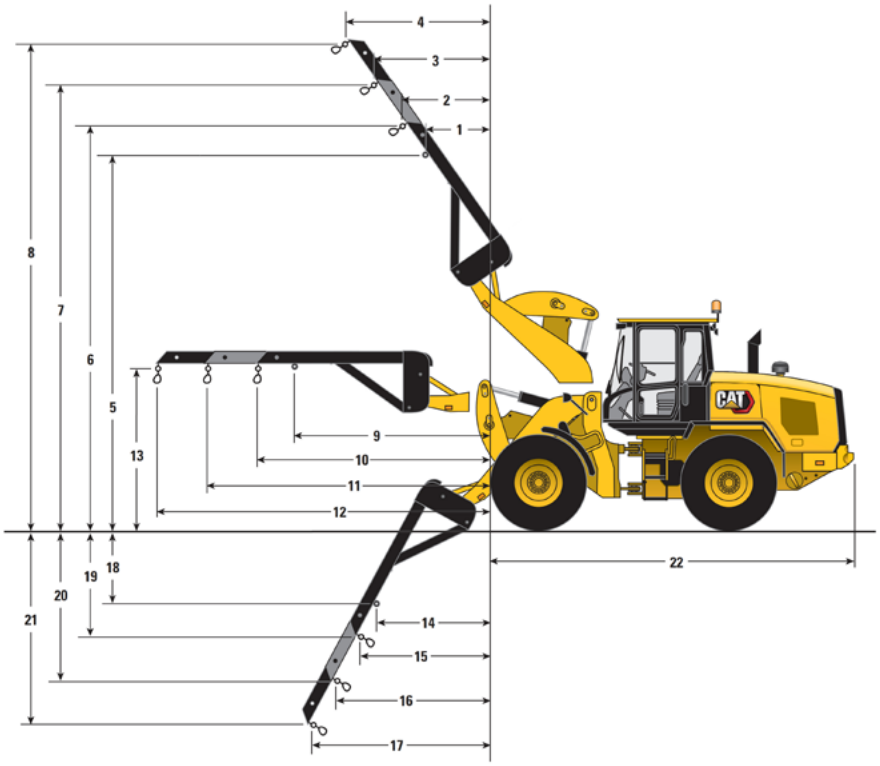
	Pallet fork – fusion						Construction fork – fusion					
	924		930		938		924		930		938	
	mm	ft/in	mm	ft/in	mm	ft/in	mm	ft/in	mm	ft/in	mm	ft/in
1 Fork tine length	1220	4'0"	1220	4'0"	1220	4'0"	1524	5'0"	1524	5'0"	1524	5'0"
2 Load center	610	2'0"	610	2'0"	610	2'0"	762	2'6"	762	2'6"	762	2'6"
3 Length: overall	7812	25'8"	7882	25'10"	7942	26'1"	8240	27'0"	8311	27'3"	8372	27'6"
4 Reach: ground	891	2'11"	926	3'0"	961	3'2"	1015	3'4"	1050	3'5"	1086	3'7"
5 Height (bottom of tine): minimum	47	1.9"	47	1.9"	44	1.7"	126	5.0"	126	5.0"	125	4.9"
6 Reach: level arm	1522	5'0"	1569	5'2"	1617	5'4"	1581	5'2"	1628	5'4"	1676	5'6"
7 Reach: full lift	724	2'5"	767	2'6"	814	2'8"	783	2'7"	826	2'9"	873	2'10"
8 Height (top of tine): level arm	1761	5'9"	1792	5'11"	1830	6'0"	1693	5'7"	1724	5'8"	1760	5'9"
9 Height (top of tine): full lift	3639	11'11"	3693	12'1"	3758	12'4"	3570	11'9"	3625	11'11"	3688	12'1"
10 Height: overall	4621	15'2"	4676	15'4"	4740	15'7"	4881	16'0"	4935	16'2"	4999	16'5"
11 Minimum fork spacing	—	—	—	—	—	—	300	1'0"	300	1'0"	300	1'0"
12 Carriage width	—	—	—	—	—	—	2498	8'2"	2498	8'2"	2498	8'2"
13 Maximum fork spacing	—	—	—	—	—	—	2375	7'10"	2375	7'10"	2375	7'10"
	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb
Tipping load – straight, ISO 14397-1*	6382	14,071	7501	16,537	8964	19,761	5602	12,350	6640	14,638	8082	17,817
Tipping load – full turn, ISO 14397-1*	5532	12,196	6460	14,242	7706	16,988	4820	10,626	5681	12,525	6910	15,234
Operating weight	11 787	25,986	13 095	28,870	15 252	33,625	12 164	26,818	13 472	29,702	15 629	34,457
Rated load % of full turn tip:												
50% of tip: SAE J1197**	2766	6,098	3230	7,121	3853	8,494	2410	5,313	2841	6,263	3455	7,617
60% of tip: rough terrain EN474-3**	3319	7,317	3876	8,545	4623	10,193	2892	6,376	3409	7,515	4146	9,140
80% of tip: firm and level EN474-3**	4425	9,757	5168	11,394	6164	13,590	3856	8,501	4545	10,020	5528	12,187

*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.

Note: Dimenions listed are for a machine configured with Fusion forks, heavy counterweight option, 80 kg (176 lb) operator, and Michelin 20.5 R25 (L-3) XHA2 tires.

Operating Specifications with Material Handling Arm



Material handling arm – fusion

	924		930		938	
1	1430 mm	4'8"	1451 mm	4'9"	1481 mm	4'10"
2	1659 mm	5'5"	1676 mm	5'6"	1703 mm	5'7"
3	2144 mm	7'0"	2156 mm	7'1"	2179 mm	7'2"
4	2630 mm	8'8"	2636 mm	8'8"	2655 mm	8'9"
5	5475 mm	18'0"	5544 mm	18'2"	5623 mm	18'5"
6	5787 mm	19'0"	5859 mm	19'3"	5940 mm	19'6"
7	6226 mm	20'5"	6304 mm	20'8"	6390 mm	21'0"
8	6666 mm	21'10"	6750 mm	22'2"	6840 mm	22'5"
9	3018 mm	9'11"	3065 mm	10'1"	3113 mm	10'3"
10	3397 mm	11'2"	3444 mm	11'4"	3492 mm	11'5"
11	4052 mm	13'4"	4099 mm	13'5"	4147 mm	13'7"

	924		930		938	
12	4707 mm	15'5"	4754 mm	15'7"	4802 mm	15'9"
13	2483 mm	8'2"	2514 mm	8'3"	2550 mm	8'4"
14	1220 mm	4'0"	1411 mm	4'8"	1452 mm	4'9"
15	1373 mm	4'6"	1595 mm	5'3"	1637 mm	5'4"
16	1507 mm	4'11"	1784 mm	5'10"	1829 mm	6'0"
17	1640 mm	5'5"	1973 mm	6'6"	2021 mm	6'8"
18	1586 mm	5'2"	1508 mm	4'11"	1512 mm	5'0"
19	1941 mm	6'4"	1848 mm	6'1"	1852 mm	6'1"
20	2583 mm	8'6"	2475 mm	8'1"	2478 mm	8'2"
21	3224 mm	10'7"	3102 mm	10'2"	3104 mm	10'2"
22	5702 mm	18'8"	5737 mm	18'10"	5762 mm	18'11"

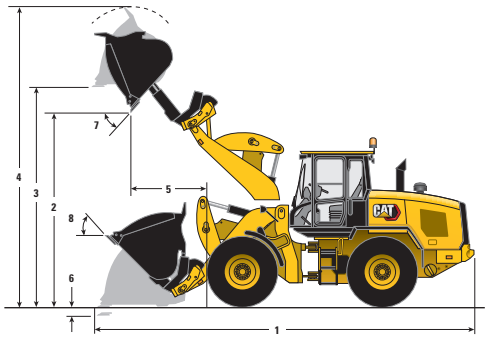
	924		930		938	
Operating weight	11 734 kg	25,870 lb	13 043 kg	28,754 lb	15 199 kg	33,509 lb
Rated load* (50% of full turn tip** SAE J1197:2011)						
Fixed tab (9)	2101 kg	4,632 lb	2440 kg	5,380 lb	2955 kg	6,514 lb
Minimum extension (10)	1913 kg	4,218 lb	2224 kg	4,903 lb	2695 kg	5,941 lb
Middle extension (11)	1645 kg	3,626 lb	1916 kg	4,224 lb	2327 kg	5,129 lb
Maximum extension (12)	1440 kg	3,176 lb	1681 kg	3,706 lb	2045 kg	4,509 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 J1197:2011.

924/930/938 Wheel Loader Specifications

Operating Specifications with High Dump Buckets





Pin on

Fusion

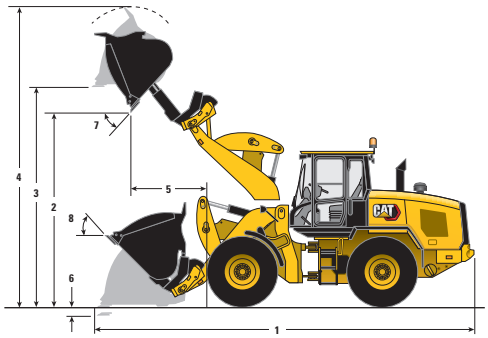
ISO 23727

			Pin on			Fusion			ISO 23727			17.5 Tires	High lift	
			924	930	938	924	930	938	924	930	938	924	930	938
	Rated capacity	m^3	3.0	3.5	4.1	3.0	3.5	4.1	3.0	3.5	4.1	—	—	—
		yd^3	3.9	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	4.3	5.0	5.9	4.3	5.0	5.9	4.3	5.0	5.9	—	—	—
	Bucket width	mm	2522	2723	3032	2522	2723	3032	2522	2723	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	876	874	883	835	839	844	787	793	808	—	—	—
	110% fill factor	lb/yd^3	1,476	1,473	1,488	1,408	1,414	1,423	1,327	1,337	1,362	—	—	—
1	Length: overall	mm	7955	8025	8159	8025	8096	8240	8223	8294	8427	+69	+794	+736
		ft/in	26'1"	26'4"	26'9"	26'4"	26'7"	27'0"	27'0"	27'3"	27'8"	+0'3"	+2'7"	+2'5"
2	Dump clearance:	mm	4177	4249	4272	4265	4338	4371	4460	4533	4561	–88	+562	+537
	Full lift rolled out	ft/in	13'8"	13'11"	14'0"	14'0"	14'3"	14'4"	14'8"	14'10"	15'0"	–0'3"	+1'10"	+1'9"
3	Clearance: level bucket	mm	4495	4561	4610	4563	4629	4686	4748	4815	4865	–88	+573	+554
		ft/in	14'9"	15'0"	15'1"	15'0"	15'2"	15'4"	15'7"	15'10"	16'0"	–0'3"	+1'11"	+1'10"
4	Height: overall	mm	6166	6277	6346	6233	6344	6421	6418	6530	6600	–88	+573	+554
		ft/in	20'3"	20'7"	20'10"	20'5"	20'10"	21'1"	21'1"	21'5"	21'8"	–0'3"	+1'11"	+1'10"
5	Reach: full lift rolled out	mm	1628	1667	1747	1662	1699	1787	1767	1802	1883	+67	+329	+278
		ft/in	5'4"	5'6"	5'9"	5'5"	5'7"	5'10"	5'10"	5'11"	6'2"	+0'3"	+1'1"	+0'11"
6	Dig depth	mm	81	81	101	100	100	121	94	94	114	+88	+35	+35
		ft/in	3.2"	3.2"	4.0"	3.9"	3.9"	4.8"	3.7"	3.7"	4.5"	+0'3"	+0'1"	+0'1"
	Turning radius	mm	6097	6189	6429	6111	6200	6443	6158	6244	6483	+9	+396	+369
	Bucket at carry	ft/in	20'0"	20'4"	21'1"	20'1"	20'4"	21'2"	20'2"	20'6"	21'3"	+0'0"	+1'4"	+1'3"
7	Maximum dump angle	degree	32	31	30	29	28	28	28	27	27	—	—	—
8	Rack angle at carry	degree	39	41	42	43	45	46	41	43	44	—	—	—
	Tipping load –	kg	6747	7963	9462	6477	7688	9105	6121	7284	8721	–220	–2309	–2547
	straight ISO 14397-1*	lb	14,875	17,555	20,859	14,278	16,950	20,074	13,494	16,059	19,228	–485	–5,090	–5,615
	Tipping load –	kg	6885	8125	9655	6609	7845	9291	6246	7433	8899	–224	–2356	–2599
	Straight rigid tire**	lb	15,179	17,913	21,285	14,570	17,296	20,483	13,770	16,386	19,620	–494	–5,194	–5,730
	Tipping load –	kg	5734	6727	7961	5469	6459	7616	5156	6106	7287	–192	–2045	–2247
	Full turn ISO 14397-1*	lb	12,641	14,832	17,551	12,057	14,241	16,790	11,366	13,462	16,065	–423	–4,508	–4,954
	Tipping load –	kg	5911	6936	8207	5638	6659	7851	5315	6295	7512	–198	–2108	–2316
	Full turn rigid tire**	lb	13,032	15,290	18,094	12,430	14,681	17,309	11,718	13,878	16,562	–437	–4,647	–5,106
	Breakout force	kg	6093	8653	8979	5913	8421	8656	5066	7301	7569	+31	–223	–362
		lb	13,432	19,076	19,794	13,037	18,565	19,084	11,168	16,095	16,686	+68	–492	–798
	Operating weight	kg	12 705	14 104	16 528	13 052	14 451	16 941	13 037	14 435	16 862	–358	+226	+217
		lb	28,010	31,094	36,438	28,776	31,858	37,348	28,742	31,825	37,174	–789	+498	+478

*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.

Operating Specifications with High Dump Buckets





Pin on

Fusion

ISO 23727

			Pin on			Fusion			ISO 23727			17.5 Tires	High lift	
			924	930	938	924	930	938	924	930	938	924	930	938
	Rated capacity	m^3	4.1	5.0	5.0	4.1	5.0	5.0	4.1	5.0	5.0	—	—	—
		yd^3	5.4	6.5	6.5	5.4	6.5	6.5	5.4	6.5	6.5	—	—	—
	Capacity – rated at 110%	m^3	4.5	5.5	5.5	4.5	5.5	5.5	4.5	5.5	5.5	—	—	—
	fill factor	yd^3	5.9	7.2	7.2	5.9	7.2	7.2	5.9	7.2	7.2	—	—	—
	Bucket width	mm	3032	3032	3032	3032	3032	3032	3032	3032	3032	—	—	—
		ft/in	9'11"	9'11"	9'11"	9'11"	9'11"	9'11"	9'11"	9'11"	9'11"	—	—	—
	Nominal material density	kg/m^3	581	560	710	551	539	683	518	506	651	—	—	—
	110% fill factor	lb/yd^3	979	943	1,197	929	909	1,152	873	853	1,097	—	—	—
1	Length: overall	mm	8036	8216	8269	8107	8286	8349	8304	8484	8537	+67	+789	+736
		ft/in	26'4"	26'11"	27'2"	26'7"	27'2"	27'5"	27'3"	27'10"	28'0"	+0'3"	+2'7"	+2'5"
2	Dump clearance:	mm	4126	4284	4539	4216	4377	4460	4412	4575	4651	–88	+560	+535
	full lift rolled out	ft/in	13'6"	14'1"	14'4"	13'10"	14'4"	14'8"	14'6"	15'0"	15'3"	–0'3"	+1'10"	+1'9"
3	Clearance: level bucket	mm	4475	4626	4696	4543	4697	4774	4728	4884	4955	–88	+572	+552
		ft/in	14'8"	15'2"	15'5"	14'11"	15'5"	15'8"	15'6"	16'0"	16'3"	–0'3"	+1'11"	+1'10"
4	Height: overall	mm	6211	6506	6575	6278	6576	6654	6463	6763	6834	–88	+572	+552
		ft/in	20'5"	21'4"	21'7"	20'7"	21'7"	21'10"	21'2"	22'2"	22'5"	–0'3"	+1'11"	+1'10"
5	Reach: full lift rolled out	mm	1673	1780	1814	1709	1811	1851	1815	1913	1945	+67	+330	+281
		ft/in	5'6"	5'10"	5'11"	5'7"	5'11"	6'1"	5'11"	6'3"	6'5"	+0'3"	+1'1"	+0'11"
6	Dig depth	mm	101	101	101	120	120	121	114	114	114	+88	+35	+35
		ft/in	4.0"	4.0"	4.0"	4.7"	4.7"	4.8"	4.5"	4.5"	4.5"	+0'3"	+0'1"	+0'1"
	Turning radius	mm	6352	6392	6467	6365	6401	6479	6412	6447	6521	+8	+394	+372
	bucket at carry	ft/in	20'10"	21'0"	21'3"	20'11"	21'0"	21'3"	21'0"	21'2"	21'5"	+0'0"	+1'4"	+1'3"
7	Maximum dump angle	degree	32	31	30	29	28	28	28	27	27	—	—	—
8	Rack angle at carry	degree	39	41	42	43	45	46	41	43	44	—	—	—
	Tipping load –	kg	6240	7370	9304	5969	7146	9003	5626	6726	8591	–218	–2264	–2540
	straight ISO 14397-1*	lb	13,756	16,248	20,512	13,160	15,754	19,847	12,403	14,828	18,940	–481	–4,991	–5,600
	Tipping load –	kg	6367	7520	9494	6091	7292	9186	5741	6863	8766	–223	–2310	–2592
	straight rigid tire**	lb	14,037	16,580	20,931	13,428	16,075	20,252	12,657	15,131	19,326	–492	–5,093	–5,714
	Tipping load –	kg	5237	6155	7811	4972	5934	7518	4671	5564	7160	–191	–2005	–2242
	Full turn ISO 14397-1*	lb	11,547	13,570	17,221	10,962	13,083	16,574	10,297	12,266	15,786	–421	–4,420	–4,943
	Tipping load –	kg	5399	6345	8053	5126	6118	7750	4815	5736	7382	–197	–2067	–2311
	Full turn rigid tire**	lb	11,904	13,989	17,753	11,301	13,488	17,087	10,616	12,645	16,274	–434	–4,557	–5,095
	Breakout force	kg	5589	7492	8297	5407	7295	8018	4594	6333	7037	+24	–202	–340
		lb	12,321	16,516	18,292	11,921	16,082	17,676	10,128	13,961	15,514	+53	–445	–750
	Operating weight	kg	13 124	14 533	16 629	13 476	14 879	17 036	13 455	14 864	46 963	–358	+226	+217
		lb	28,933	32,039	36,660	29,708	32,803	37,558	29,664	32,770	37,397	–789	+498	+478

*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.

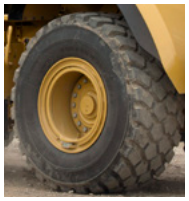
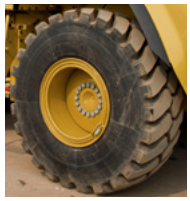
924/930/938 Wheel Loader Specifications

Optional Equipment

	924				930				938			
	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	–324	–715	–541	–1,193	–324	–715	–533	–1,174
Change with options added:	**kg**	**lb**	**kg**	**lb**	**kg**	**lb**	**kg**	**lb**	**kg**	**lb**	**kg**	**lb**
Heavy counterweight	+324	+715	+557	+1,227	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Aggregate counterweight	N/A	N/A	N/A	N/A	+299	+660	+446	+983	+299	+659	+428	+945
Guard, rear radiator	N/A	N/A	N/A	N/A	+258	+568	+484	+1,066	+279	+615	+514	+1,134
Joystick steering (includes secondary)	+120	+264	+113	+250	+119	+263	+110	+242	+116	+257	+106	+233
Cold start package	+74	+163	+108	+239	+68	+150	+97	+214	+66	+146	+92	+204
Guard, powertrain lower	+67	+148	+65	+144	+67	+148	+64	+140	+67	+148	+63	+139
Guard, front window	+51	+113	+30	+67	+51	+113	+29	+65	+51	+113	+29	+65
Autolube system	+48	+105	+13	+29	+48	+105	+14	+31	+48	+105	+13	+28
Guard, driveshaft	+43	+96	+12	+27	+43	+96	+12	+27	+45	+99	+12	+27
Fourth function implement valve (includes third)	+35	+77	+7	+16	+35	+77	+12	+26	+35	+77	+7	+15
Secondary steering	+33	+72	+29	+64	+32	+71	+28	+61	+32	+71	+28	+61
Ride control	+31	+69	+11	+24	+31	+69	+15	+34	+31	+69	+11	+23
Guard, hitch	+21	+47	+15	+34	+21	+47	+15	+33	+21	+47	+15	+33
Third function implement valve	+18	+40	+4	+10	+18	+40	+3	+6	+18	+40	+4	+10
Toolbox	+18	+40	+19	+41	+18	+40	+18	+40	+18	+40	+18	+40
Roading fenders	+14	+31	+21	+46	+14	+31	+20	+45	+23	+52	+34	+75
Guard, crankcase	+10	+23	+15	+32	+10	+23	+14	+31	+10	+23	+14	+31

Tire Options

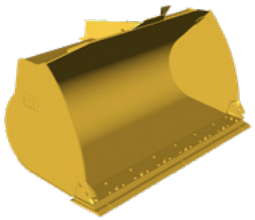


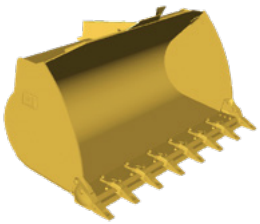




	924				930				938*			
Change with tire option as compared to 20.5R25 (L-3) tire	750/65R26 XBIB		17.5R25 (L-3)		750/65R26 XBIB		20.5R25 (L-5)		23.5R25*		Solid Tires*	
	mm	**in**	**mm**	**in**	**mm**	**in**	**mm**	**in**	**mm**	**in**	**mm**	**in**
Vertical heights	+40	+1.6"	–65	–2.6"	+40	+1.6"	+35	+1.4"	+65	+2.6"	+39	+1.5"
Reach: Bucket at 45°	–67	–2.6"	+73	+2.9"	–67	–2.6"	–31	–1.2"	–63	–2.5"	–6	–0.2"
Width: Over tires	+111	+4.4"	–66	–2.6"	+111	+4.4"	–14	–0.6"	+38	+1.5"	–84	–3.3"
	kg	**lb**	**kg**	**lb**	**kg**	**lb**	**kg**	**lb**	**kg**	**lb**	**kg**	**lb**
Tipping load – straight	+21	+47	–220	–485	+21	+46	+163	+358	+500	+1,102	+485	+1,070
Tipping load – full turn	+19	+41	–194	–428	+18	+40	+144	+316	+441	+973	+459	+1,012
Operating weight	+30	+67	–314	–691	+30	+67	+238	+525	+738	+1,626	+1768	+3,898

*938 compatible with standard light counterweight (solid tires) only.

Ground Engagement Options





Dimension change compared to bolt-on cutting edge		
	mm	in
Dig depth	+11	+0.4"
Length: overall	+154	+6.1"
Dump clearance	–109	–4.3"
Reach	+109	+4.3"

	924		930		938	
Change with ground engagement option compared to bolt-on cutting edge	**General purpose teeth and segments**		**General purpose teeth and segments**		**General purpose teeth and segments**	
	kg	**lb**	**kg**	**lb**	**kg**	**kg**
Tipping load – straight	–99	–219	–100	–221	–99	–218
Tipping load – full turn	–97	–215	–98	–216	–97	–213
Breakout force	–83	–184	–83	–184	–82	–180
Operating weight	+80	+177	+80	+177	+79	+174

Cat Advansys™ Tip and Adapter System

Take your operation to the next level.

The Cat Advansys system gives you easier removal and installation, longer tip life and better penetration. Choose the Advansys system that offers the right balance for your application.

Advansys System Performance:

- Exclusive performance features offer less drag and higher productivity.
- New tip shapes put wear material where you need it most.

Advansys System Reliability:

- Stronger adapter noses result in up to a 50% stress reduction.
- Improved adapter nose geometry reduces sliding wear on adapter nose surfaces.
- Improved tip shapes shadow the adapter straps and welds for longer adapter life.

Advansys Installation and Removal:

- Retainer lock requires no special tools for quickest tip removal and installation.
- A half-turn of retention locks and unlocks the CapSure™ retention.
- Retention components come installed in tips.



Bucket adapter



General purpose tip



Aggregate tip



Heavy abrasion tip

924/930/938 Wheel Loader Specifications

STANDARD & OPTIONAL EQUIPMENT

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

POWERTRAIN	924	930	938
Air cleaner, dry type	●	●	●
Auto engine RPM	●	●	●
Auto idle shut down feature	●	●	●
Auto rimpull control, adjust wheel torque	●	●	●
Axle seal guards	●	●	●
Axle, rear, limited slip	◐	◐	◐
Brake, parking, electric	●	●	●
Breathers, elevated, axle and powertrain	◐	◐	◐
Cat C7.1 engine	●	●	●
Coolant protection to –34° C (–29° F)	●	●	●
Cooling package, single plane, wide 6 fins per inch	●	●	●
Crankcase, filtered, breather	●	●	●
Creep control, adjust ground speed	●	●	●
Demand cooling fan, hydraulically driven	●	●	●
Differential lock, auto, in front axle	○	○	●
Differential lock, manual, in front axle	●	●	●
Directional shift aggressiveness (fast, medium, slow)	●	●	●
Driveshafts, lubed for life	●	●	●
Enclosed wet disc full hydraulic brakes	●	●	●
Engine pre-cleaner, Sy-Klone	◐	◐	◐
Fuel priming pump, automatic	●	●	●
Fuel water separator	●	●	●
Operator modes (TC, hystat, single pedal, ice)	●	●	●
Power modes (standard, performance, auto)	●	●	●
Selective catalyst reduction	●	●	●
Scheduled Oil Sampling (S·O·S℠) port, engine, coolant, transmission oil	●	●	●
Transmission, hydrostatic with electronic control	●	●	●
Turbocharged and aftercooled	●	●	●
750/65R26 tire groups	◐	◐	◐
620/75R26 tire groups	◐	◐	◐
23.5R25 tire groups	○	○	◐
20.5R25 L5 tire groups	◐	◐	◐
20.5R25 L3 tire groups	◐	◐	◐
20.5-25 L3 bias tire groups	◐	◐	◐
17.5R25 tire groups	◐	◐	○

● – standard ◐ – optional ○ – not available

OPERATOR ENVIRONMENT	924	930	938
Air precleaner, cab powered	◐	◐	◐
Automatic temperature control	●	●	●
Beacon, seatbelt, green	◐	◐	◐
Beacon, warning, amber	◐	◐	◐
Cab door release, ground level	●	●	●
Cab, enclosed ROPS/FOPS pressurized, sound suppressed	●	●	●
Camera, rearview	◐	◐	◐
– Camera, front view or multiview	◐	◐	◐
– Rear object detection	◐	◐	◐
Cell phone holder	◐	◐	◐
Column mounted multifunction control lights, wipers, turn signal	●	●	●
Cup holders	●	●	●
Decals, high visibility, steps, handrails	◐	◐	◐
Display, 203 mm (8-inch) touch screen, with digital gauges	◐	◐	◐
Glass, front, tinted	●	●	●
Glass, rear window, defrost, electric	●	●	●
Glass, sliding on side window	●	●	●
Hydraulic control lockout	●	●	●
Implement controls, seat mounted, adjustable	●	●	●
– Implement controls, joystick	◐	◐	◐
– Implement controls, single axis lever	◐	◐	◐
Jog dial with screen control	◐	◐	◐
Joystick, programmable	●	●	●
Lighting, cab interior, door	●	●	●
Lunch box storage	●	●	●
Mirrors, external with lower parabolic (2)	●	●	●
– Mirrors, heated, electrically adjust (2)	◐	◐	◐
– Mirrors, internal (2)	◐	◐	◐
Mounting provision	●	●	●
"Operator not present" warning and control logic	◐	◐	◐
Push to start	◐	◐	◐
Reverse strobes, warning, white	◐	◐	◐
Seat, suspension, fabric	●	●	●
– Seat, premium or deluxe	◐	◐	◐
Seatbelt, 75 mm (3 in) retractable	●	●	●
Security, Bluetooth key fob	◐	◐	◐
Speakers, radio ready	◐	◐	◐
– Radio packages	◐	◐	◐
Steering, wheel, tilt	●	●	●
– Steering, column, tilt and telescoping	◐	◐	◐
– Steering, joystick, force-feedback	◐	◐	◐
Tire Pressure Monitoring (TPM)	◐	◐	◐
Wiper washer, wet arm, rear and intermittent front	●	●	●
Visor, rear	◐	◐	◐

● – standard ◐ – optional ○ – not available

STANDARD & OPTIONAL EQUIPMENT *(continued)*

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

HYDRAULICS	924	930	938
Attachment modes, adjustable in-cab	●	●	●
Automatic lift and bucket kickouts, adjustable in-cab	●	●	●
Auxiliary flow (3rd and 4th)	◐	◐	◐
Cat Payload, 250 hours of demo	◐	◐	◐
– Cat Payload enabled	◐	◐	◐
– Cat Payload printer	◐	◐	◐
Cylinder dampening at kickout and mechanical end stops	●	●	●
Fine mode control (fast, medium, slow)	●	●	●
Hydraulic diagnostic connectors and S·O·S ports	●	●	●
Hydraulic response setting (fast, medium, slow)	●	●	●
Load check valves	◐	◐	◐
Load sensing hydraulics and steering	●	●	●
Reversing fan	◐	◐	◐
Ride control	◐	◐	◐
Seat mounted hydraulic joystick controls	●	●	●
Site gauge, visible	●	●	●

LINKAGE	924	930	938
Autolube	◐	◐	◐
Counterweight, aggregate	○	◐	◐
Counterweight, heavy	◐	◐	◐
Couplers: fusion	◐	◐	◐
High Lift	◐	◐	◐
Lubrication points, remote mounted	●	●	●
Parallel lift loader linkage	●	●	●

OTHER	924	930	938
Enclosure doors, large-access (3)	●	●	●
Lockable compartments	●	●	●
Recovery hitch with pin	●	●	●
Toolbox	◐	◐	◐

● – standard ◐ – optional ○ – not available

GUARDS	924	930	938
Cab	◐	◐	◐
Crankcase	◐	◐	◐
Cylinders, steering and tilt	◐	◐	◐
Driveshaft	◐	◐	◐
Fenders, deflectors, full cover or extended	◐	◐	◐
Hitch	◐	◐	◐
Lighting, front and rear	◐	◐	◐
Powertrain, lower and sides	◐	◐	◐
Radiator, rear	○	◐	◐
Windshield	◐	◐	◐

ELECTRICAL	924	930	938
Alarm, back up	●	●	●
Alternator, 115-amp, heavy duty	●	●	●
– Alternator, brushless, 150 amp	◐	◐	◐
Batteries, 1,000 CCA (2) 24V system, disconnect switch	●	●	●
Cold start package with block heater	◐	◐	◐
Emergency shutdown switch	●	●	●
Heavy duty starter motor	●	●	●
Lights, roading, front and rear	●	●	●
Lights, LED, rear stop and turn	●	●	●
– Lights, LED auxiliary	◐	◐	◐
– Lights, LED roading	◐	◐	◐
– Lights, LED, engine	◐	◐	◐
Power supply, 12V in cab (2)	●	●	●
– USB charging ports (2)	◐	◐	◐
Product Link™ Elite	●	●	●
– Product Link – cellular and satellite	◐	◐	◐
Remote jump start post	●	●	●
Resettable main and critical function breakers	●	●	●
Secondary steering	◐	◐	◐

● – standard ◐ – optional ○ – not available



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