

924K, 930K, 938K

Wheel Loaders



	924K	930K	938K
Engine Model*	Cat® C7.1 ACERT™	Cat C7.1 ACERT	Cat C7.1 ACERT
Maximum Rated Gross Power:			
ISO 14396	105 kW (141 hp)	119 kW (160 hp)	140 kW (188 hp)
ISO 14396 (DIN)	105 kW (143 hp)	119 kW (162 hp)	140 kW (190 hp)
Bucket Capacity	1.7-5.0 m ³ (2.2-6.5 yd ³)	2.1-5.0 m ³ (2.7-6.5 yd ³)	2.5-5.0 m ³ (3.3-6.5 yd ³)
Full Turn Tip Load	7765 kg (17,113 lb)	8470 kg (18,667 lb)	10 076 kg (22,206 lb)
Operating Weight	12 019 kg (26,490 lb)	13 150 kg (28,982 lb)	15 465 kg (34,085 lb)

*Engine meets U.S. EPA Tier 3/EU Stage IIIA equivalent 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 K 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.

Configured for Success

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

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The Cat 924K, 930K and 938K 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. 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 25% fuel compared to H Series Cat Loader.
- Delivers up to 10% more productivity compared to H Series Cat Loader.
- Reduces cab sound levels down to a whisper quiet 72 dB(A) typical.

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. Proven engine technology meets Tier 3 and Stage IIIA equivalent emission standards.

- Maximum engine speed of 1,800 rpm and working range of 1,200 to 1,500 rpm significantly reduces fuel burn and engine wear.
- High ambient cooling package as standard allows you to operate continuously at peak performance on long hot days.
- Robust fuel system with multi-stage filtration, improved dirt and water holding capacity, and durable injectors are designed to handle poor fuel quality.
- Reduced maintenance complexity with automatic fuel priming system and service-free hydraulic valve-lash adjustment.



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. Adjustable rimpull control allows you to match wheel torque to ground conditions, maintaining machine performance and reducing tire wear.

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

K 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 K 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.
- **Quicker hydraulic response** for fine grading at speed and agriculture applications through Lift and Tilt response settings.



The image shows the interior of a CAT machine cab. The top half shows the upper part of the cab with the roof-mounted mirrors and control panels. The bottom half shows the operator's seat, which is upholstered in a grey, textured fabric and features the CAT logo on the backrest. The seat is positioned in front of a steering wheel and a control panel with a large LCD display. The floor is covered with a dark, textured mat. 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.



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 refueling the machine in dark conditions.

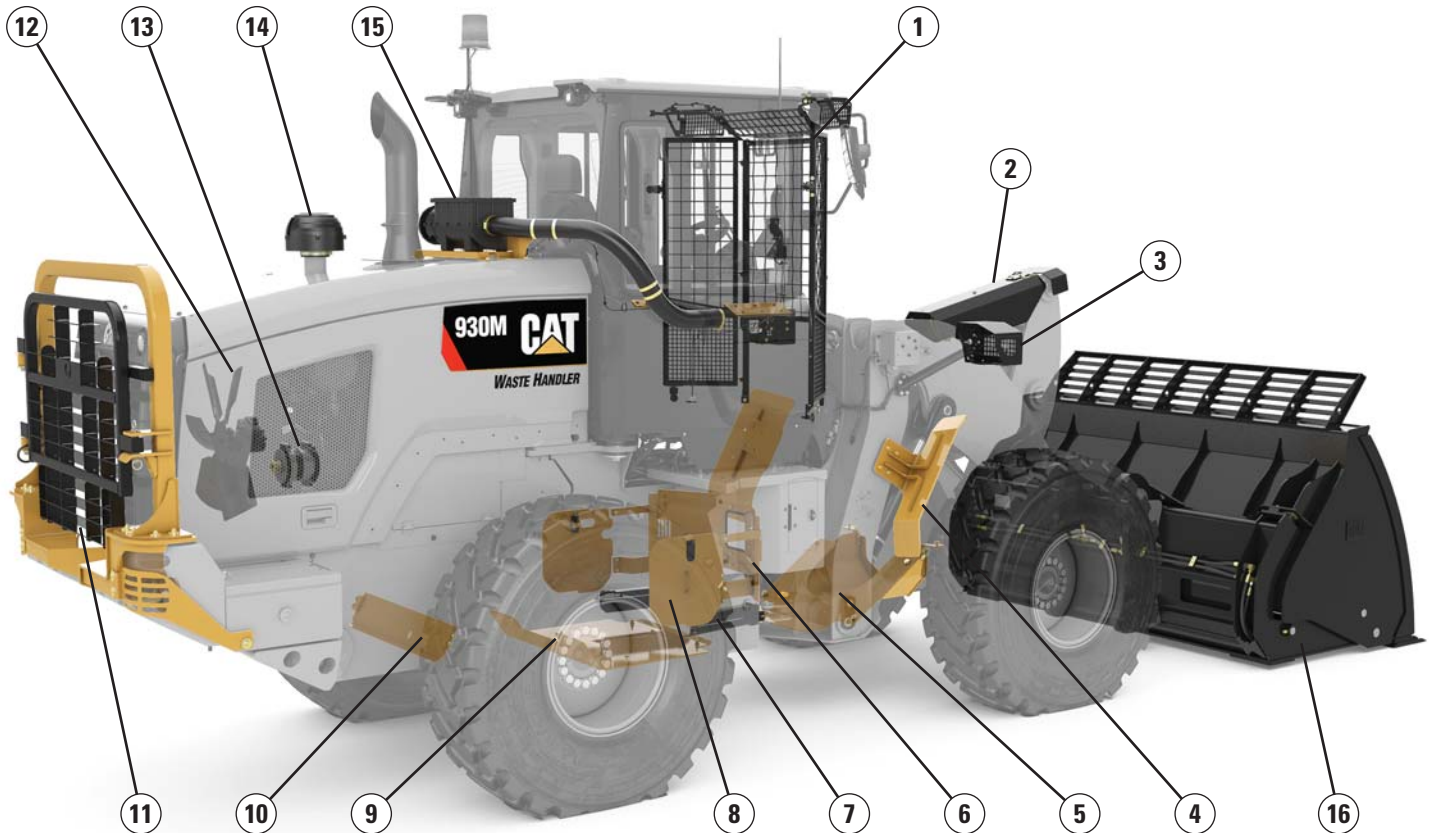


Configured for Success

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 a K Series wheel loader to be successful in your business. Get with your Cat dealer to configure yours.



Guards:

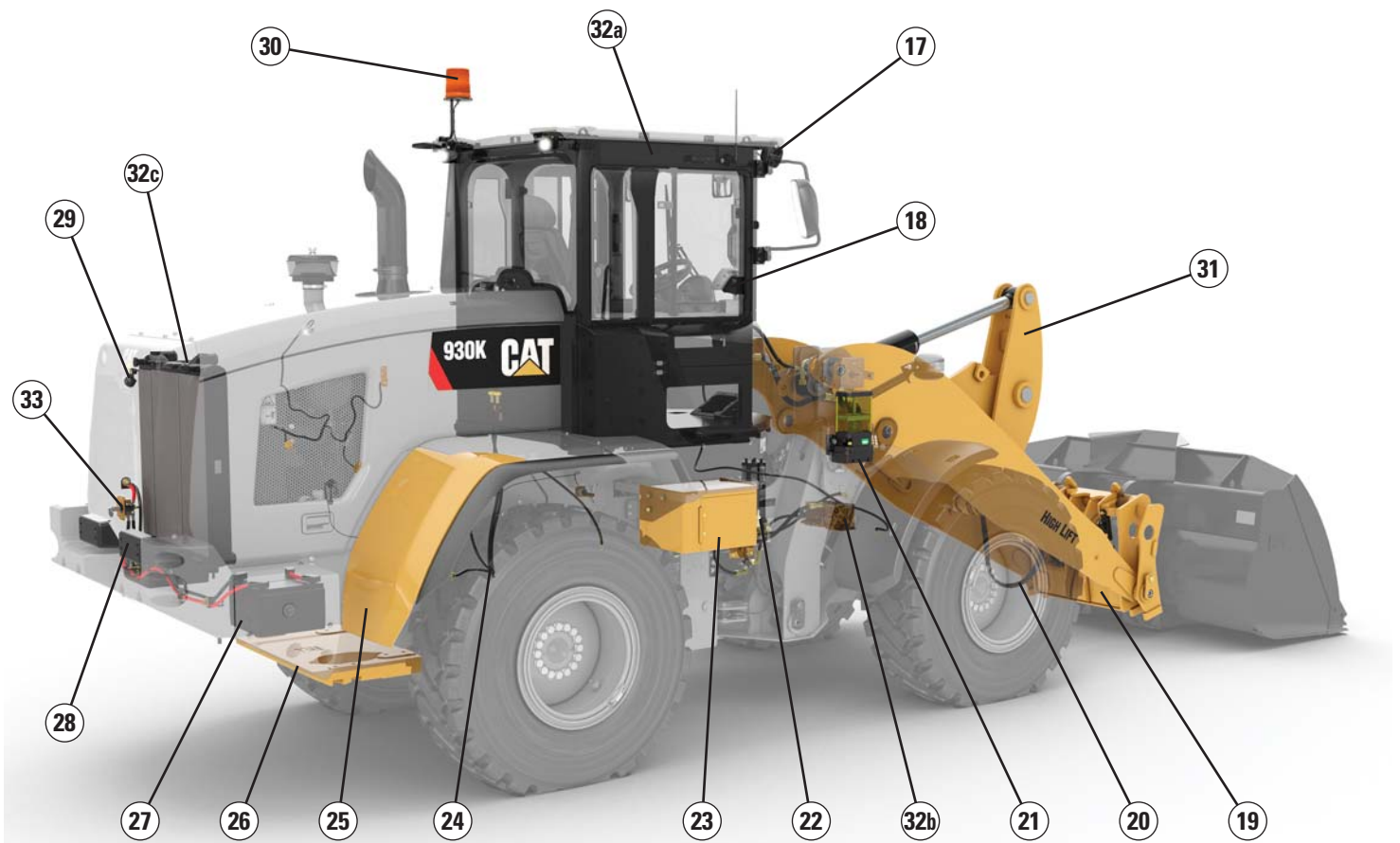
- 1) Windshield
- 2) Tilt cylinder
- 3) Lights
- 4) Fender deflectors
- 5) Drive shaft
- 6) Hitch
- 7) Steering cylinders
- 8) Side power train
- 9) Lower power train
- 10) Crank case
- 11) Rear radiator (930K and 938K only)

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) Ride Control
- 23) Tool box
- 24) Elevated breathers: axles and gear box

- 25) Fenders: extended and full coverage*
- 26) Counterweights: heavy and Log/Aggregate
- 27) Cold start package
- 28) Rear object detection*
- 29) Rearview camera
- 30) Beacon
- 31) High Lift*

- Corrosion Protection Package*,**
- 32) Three stage painting process for:
 - a) Cab
 - b) Implement
 - c) Cooling package
- 33) Sealed disconnect switch

*Not available in all regions.
 **Also includes items (13) Sealed alternator, (14) Turbine precleaner, sealed and greased electrical harness connections, wrapped hydraulic couplings, clear coat varnish on power train and electrical panels.

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.
- **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 a K Series Small Wheel Loader and join the Caterpillar family.



924K, 930K, 938K Wheel Loader Specifications

Engine

Cat C7.1 ACERT	924K				930K				938K			
	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	1,800 rpm		1,600 rpm		1,800 rpm		1,600 rpm		1,800 rpm		1,600 rpm	
Maximum 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)	105	143	101	137	119	162	113	154	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	102	137	98	131	116	156	110	148	136	182	126	169
ISO 9249 (DIN) at Minimum Fan Speed	103	140	99	135	117	159	111	151	138	188	127	173
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	725	534	725	534	787	580	787	580	912	672	896	660
Maximum Net Torque	SAE J1349		704 519		704 519		753 555		753 555		876 646	
ISO 9249 (1977)/EEC 80/1269	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	

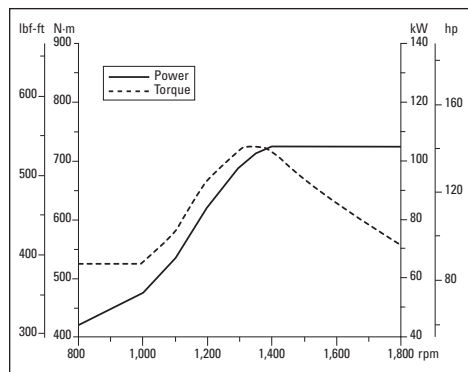
* Range 4 power and torque is equal to Performance Mode with Caterpillar Power by Range technology.

• Net power shown is the power available at the flywheel when the engine is equipped with alternator and air cleaner.

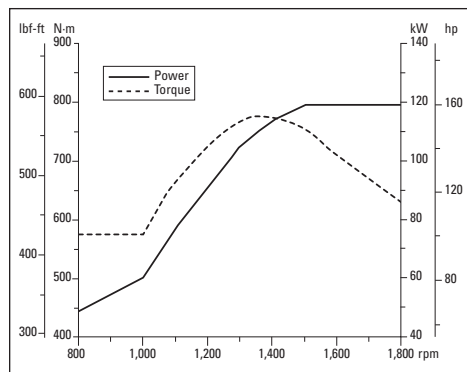
• The Cat C7.1 ACERT engine meets Tier 3/Stage IIIA equivalent emission standards.

Engine Torque

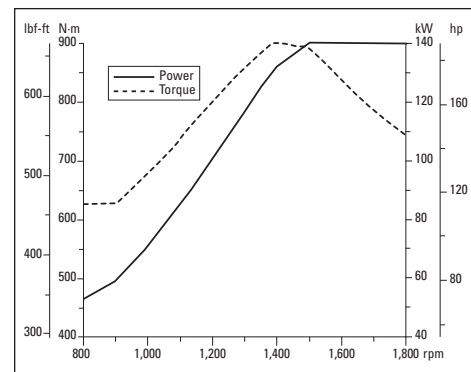
924K



930K



938K



Cab



- ROPS: ISO 3471: 2008.
- 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 the cab doors and cab 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.”

924K, 930K, 938K 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.

	924K		930K		938K	
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)	5.4/6.3 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).
- Flow values listed are for a machine running in Performance Mode (1,800 rpm).

	924K		930K		938K	
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	125 L/min	33 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	

924K, 930K, 938K Wheel Loader Specifications

Transmission



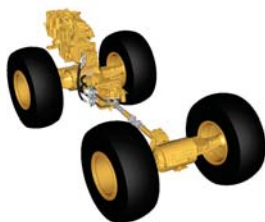
* Creeper control allows maximum speed range adjustability from 1 km/h (0.6 mph) to 13 km/h (8 mph) in Range 1 through the secondary display when equipped. Factory default is 7 km/h (4.4 mph).

	924K		930K		938K	
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

	924K		930K		938K	
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 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.

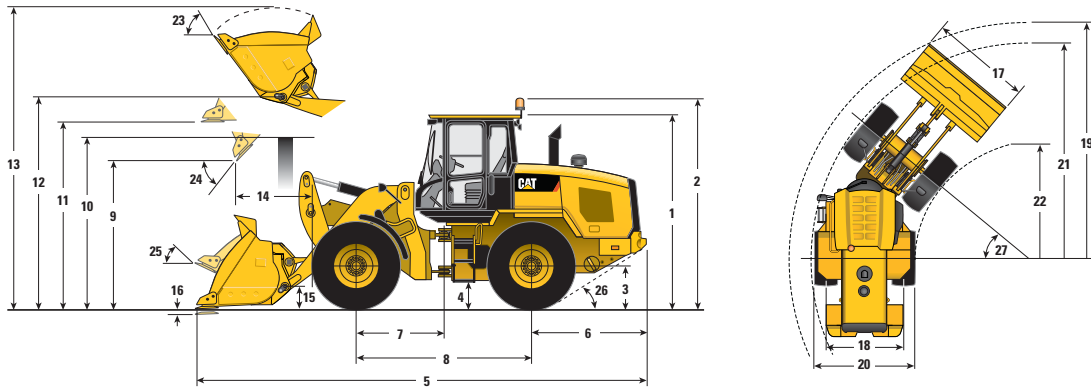
**Optional differential front locking axle can be engaged on the go at full torque to 10 km/h (6.2 mph) on the 924K/930K and up to 20 km/h (12.4 mph) on the 938K.

	924K	930K	938K
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	Outboard wet disc
Park	Spring applied hydraulically released	Spring applied hydraulically released	Spring applied hydraulically released

924K, 930K, 938K Wheel Loader Specifications

Dimensions with Bucket

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



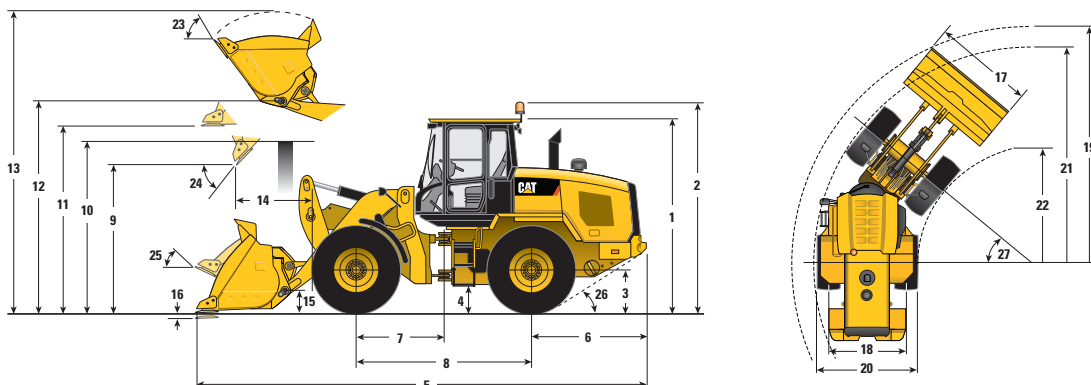
	Standard Lift							
	924K		924K		930K		938K	
** 1 Height: Ground to Cab	3340 mm	10'11"	3252 mm	10'8"	3340 mm	10'11"	3340 mm	10'11"
** 2 Height: Ground to Beacon	3707 mm	12'1"	3619 mm	11'10"	3707 mm	12'1"	3707 mm	12'1"
** 3 Height: Ground Axle Center	685 mm	2'2"	597 mm	1'11"	685 mm	2'2"	685 mm	2'2"
** 4 Height: Ground Clearance	397 mm	1'3"	309 mm	1'0"	397 mm	1'3"	386 mm	1'3"
* 5 Length: Overall	7374 mm	24'2"	7442 mm	24'5"	7488 mm	24'6"	7604 mm	24'11"
6 Length: Rear Axle to Bumper	1986 mm	6'6"	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"	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°	2857 mm	9'4"	2769 mm	9'1"	2855 mm	9'4"	2869 mm	9'4"
** 10 Clearance: Load over Height	3308 mm	10'10"	3220 mm	10'6"	3331 mm	10'11"	3354 mm	11'0"
** 11 Clearance: Level Bucket	3526 mm	11'6"	3437 mm	11'3"	3580 mm	11'8"	3642 mm	11'11"
** 12 Height: Bucket Pin	3853 mm	12'7"	3765 mm	12'4"	3907 mm	12'9"	3969 mm	13'0"
** 13 Height: Overall	4997 mm	16'4"	4909 mm	16'1"	5122 mm	16'9"	5242 mm	17'2"
* 14 Reach: Bucket at 45°	950 mm	3'1"	1016 mm	3'4"	1033 mm	3'4"	1108 mm	3'7"
15 Carry Height: Bucket Pin	447 mm	1'5"	457 mm	1'5"	458 mm	1'6"	467 mm	1'6"
** 16 Dig Depth	100 mm	3.9"	188 mm	7.4"	100 mm	3.9"	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"	1943 mm	6'4"	1930 mm	6'3"	2083 mm	6'10"
19 Turning Radius: Over Bucket	5903 mm	19'4"	5920 mm	19'5"	5933 mm	19'5"	6117 mm	20'0"
20 Width: Over Tires	2543 mm	8'4"	2484 mm	8'1"	2540 mm	8'4"	2693 mm	8'10"
21 Turning Radius: Outside of Tires	5404 mm	17'8"	5404 mm	17'8"	5402 mm	17'8"	5546 mm	18'2"
22 Turning Radius: Inside of Tires	2850 mm	9'4"	2850 mm	9'4"	2851 mm	9'4"	2843 mm	9'3"
23 Rack Angle at Full Lift	53°		53°		54°		54°	
24 Dump Angle at Full Lift	50°		50°		49°		49°	
25 Rack Angle at Carry	43°		46°		45°		45°	
26 Departure Angle	33°		33°		33°		33°	
27 Articulation Angle	40°		40°		40°		40°	
Tires	20.5 XHA2 L3		17.5 16PR L3		20.5 R25 L-3 XHA2		20.5 R25 L-3 XHA2	
Pressure in Front Tires	4.14 bar	60 psi	4.14 bar	60 psi	4.14 bar	60 psi	4.14 bar	60 psi
Pressure in Rear Tires	2.76 bar	40 psi	2.76 bar	40 psi	2.76 bar	40 psi	2.76 bar	40 psi
Counterweight Group	Heavy		Heavy		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 PO bucket: 924K with 1.9 m³ (2.5 yd³), 930K with 2.1 m³ (2.7 yd³), 938K with 2.5 m³ (3.3 yd³). Tires are Michelin, except 17.5 16PR are Goodyear.

924K, 930K, 938K 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.

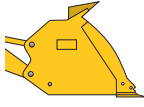
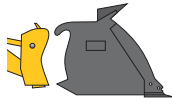
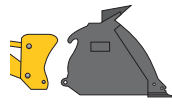
**Vary with tire.

	High Lift			
	930K		938K	
** 1 Height: Ground to Cab	3340	10'11"	3340	10'11"
** 2 Height: Ground to Beacon	3707	12'1"	3707	12'1"
** 3 Height: Ground Axle Center	685	2'2"	685	2'2"
** 4 Height: Ground Clearance	397	1'3"	386	1'3"
* 5 Length: Overall	8282	27'2"	8344	27'4"
6 Length: Rear Axle to Bumper	1993	6'6"	1968	6'5"
7 Length: Hitch to Front Axle	1500	4'11"	1525	5'0"
8 Length: Wheel Base	3000	9'10"	3050	10'0"
* 9 Clearance: Bucket at 45°	3448	11'3"	3450	11'3"
** 10 Clearance: Load over Height	3540	11'7"	3561	11'8"
** 11 Clearance: Level Bucket	4173	13'8"	4223	13'10"
** 12 Height: Bucket Pin	4500	14'9"	4550	14'11"
** 13 Height: Overall	5715	18'8"	5823	19'1"
* 14 Reach: Bucket at 45°	1353	4'5"	1374	4'6"
15 Carry Height: Bucket Pin	692	2'3"	686	2'2"
** 16 Dig Depth	135	5.3"	135	5.3"
17 Width: Bucket	2550	8'4"	2750	9'0"
18 Width: Tread Center	1930	6'3"	2083	6'10"
19 Turning Radius: Over Bucket	6315	20'8"	6472	21'2"
20 Width: Over Tires	2540	8'4"	2693	8'10"
21 Turning Radius: Outside of Tires	5402	17'8"	5546	18'2"
22 Turning Radius: Inside of Tires	2851	9'4"	2843	9'3"
23 Rack Angle at Full Lift	53°		53°	
24 Dump Angle at Full Lift	48°		47°	
25 Rack Angle at Carry	51°		50°	
26 Departure Angle	33°		33°	
27 Articulation Angle	40°		40°	
Tires	20.5R25L-3XHA2		20.5R25L-3XHA2	
Pressure in Front Tires	4.14 bar	60 psi	4.48 bar	65 psi
Pressure in Rear Tires	2.76 bar	40 psi	2.76 bar	40 psi
Counterweight Group	Heavy		Standard	

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 PO bucket: 924K with 1.9 m³ (2.5 yd³), 930K with 2.1 m³ (2.7 yd³), 938K with 2.5 m³ (3.3 yd³). Tires are Michelin.

Bucket Specifications

924K Operating Specifications with Buckets

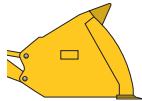
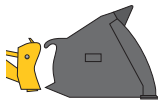
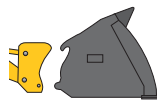
		General Purpose								
		 Pin On			 Fusion			 ISO 23727		
Capacity – Rated	m ³	1.7	1.9	2.1	1.9	2.1	2.3	2.1	2.3	—
	yd ³	2.2	2.5	2.7	2.5	2.7	3.0	2.7	3.0	—
Capacity – Rated at 110% Fill Factor	m ³	1.9	2.1	2.3	2.1	2.3	2.5	2.3	2.5	—
	yd ³	2.5	2.7	3.0	2.7	3.0	3.3	3.0	3.3	—
17 Width: Bucket	mm	1275	2550	2550	2550	2550	2550	2550	2550	—
	ft/in	4'2"	8'4"	8'4"	8'4"	8'4"	8'4"	8'4"	8'4"	—
Nominal Material Density, 110% Fill Factor	kg/m ³	2095	1858	1668	1769	1584	1432	1503	1358	—
	lb/yd ³	3,464	3,169	2,831	3,019	2,688	2,419	2,550	2,295	—
9 Clearance: Full Lift, 45° Dump	mm	2915	2857	2801	2830	2773	2725	2672	2623	-86
	ft/in	9'6"	9'4"	9'2"	9'3"	9'1"	8'11"	8'9"	8'7"	-3.4"
14 Reach: Full Lift, 45° Dump	mm	882	950	990	982	1022	1059	1147	1184	+67
	ft/in	2'10"	3'1"	3'2"	3'2"	3'4"	3'5"	3'9"	3'10"	+2.6"
Reach: 2130 mm (7'0") Clearance, 45° Dump	mm	1440	1480	1492	1499	1509	1520	1577	1584	+23
	ft/in	4'8"	4'10"	4'10"	4'11"	4'11"	4'11"	5'2"	5'2"	+0.9"
Reach: Level Arm, Level Bucket	mm	2142	2231	2303	2273	2345	2408	2506	2569	+67
	ft/in	7'0"	7'3"	7'6"	7'5"	7'8"	7'10"	8'2"	8'5"	+2.6"
16 Dig Depth	mm	100	100	100	100	100	100	94	94	+86
	in	3.9"	3.9"	3.9"	3.9"	3.9"	3.9"	3.7"	3.7"	+3.4"
5 Length: Overall	mm	7284	7374	7446	7416	7488	7551	7644	7707	+67
	ft/in	23'10"	24'2"	24'5"	24'3"	24'6"	24'9"	25'0"	25'3"	+2.6"
13 Height: Overall	mm	5002	4997	5068	5022	5093	5151	5201	5259	-86
	ft/in	16'4"	16'4"	16'7"	16'5"	16'8"	16'10"	17'0"	17'3"	-3.4"
19 Turning Radius: Bucket at Carry	mm	5297	5903	5925	5917	5939	5958	5970	5991	+17
	ft/in	17'4"	19'4"	19'5"	19'4"	19'5"	19'6"	19'7"	19'7"	+0.7"
Tipping Load – Straight, ISO 14397-1*	kg	9153	9053	8990	8661	8577	8497	8143	8065	-250
	lb	20,174	19,952	19,813	19,089	18,903	18,728	17,946	17,776	-550
Tipping Load – Straight, Rigid Tire**	kg	9535	9430	9364	9022	8934	8851	8482	8401	-260
	lb	21,014	20,783	20,638	19,885	19,691	19,508	18,694	18,516	-573
Tipping Load – Full Turn, ISO 14397-1*	kg	7858	7765	7708	7396	7318	7245	6943	6872	-216
	lb	17,319	17,113	16,987	16,300	16,128	15,966	15,302	15,145	-476
Tipping Load – Full Turn, Rigid Tire**	kg	8360	8260	8199	7868	7785	7707	7386	7310	-230
	lb	18,425	18,205	18,071	17,340	17,157	16,986	16,278	16,111	-506
Breakout Force	kg	12 273	10 342	9645	9899	9243	8730	7964	7564	+47
	lb	27,048	22,794	21,258	21,817	20,371	19,240	17,553	16,670	+103
Operating Weight	kg	11 966	12 019	12 038	12 374	12 418	12 455	12 384	12 422	-366
	lb	26,373	26,490	26,532	27,271	27,368	27,451	27,293	27,377	-806

*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 20.5 XHA2 L3 tires unless otherwise noted.

924K Operating Specifications with Buckets

		Light Material									17.5 Tire*
		 Pin On			 Fusion			 ISO 23727			
Capacity – Rated	m ³	3.5	3.8	4.2	3.5	3.8	4.2	3.5	4.2	—	
	yd ³	4.6	5.0	5.5	4.6	5.0	5.5	4.6	5.5	—	
Capacity – Rated at 110% Fill Factor	m ³	3.9	4.2	4.6	3.9	4.2	4.6	3.9	4.6	—	
	yd ³	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/m ³	934	845	752	887	802	714	848	678	—	
	lb/yd ³	1,586	1,416	1,277	1,506	1,344	1,211	1,438	1,151	—	
9 Clearance: Full Lift, 45° Dump	mm	2575	2517	2455	2545	2488	2425	2472	2351	-86	
	ft/in	8'5"	8'3"	8'0"	8'4"	8'1"	7'11"	8'1"	7'8"	-3.4"	
14 Reach: Full Lift, 45° Dump	mm	1094	1151	1214	1124	1181	1244	1161	1282	+67	
	ft/in	3'7"	3'9"	3'11"	3'8"	3'10"	4'0"	3'9"	4'2"	+3"	
Reach: 2130 mm (7'0") Clearance, 45° Dump	mm	1463	1481	1499	1473	1490	1506	1459	1486	8	
	ft/in	4'9"	4'10"	4'11"	4'9"	4'10"	4'11"	4'9"	4'10"	+0.3"	
Reach: Level Arm, Level Bucket	mm	2556	2638	2726	2598	2680	2768	2677	2847	+67	
	ft/in	8'4"	8'7"	8'11"	8'6"	8'9"	9'0"	8'9"	9'4"	+2.6"	
16 Dig Depth	mm	100	100	100	100	100	100	125	125	+86	
	in	3.9"	3.9"	3.9"	3.9"	3.9"	3.9"	4.9"	4.9"	+3.4"	
5 Length: Overall	mm	7699	7780	7869	7741	7822	7911	7840	8010	+67	
	ft/in	25'3"	25'6"	25'9"	25'4"	25'7"	25'11"	25'8"	26'3"	+2.6"	
13 Height: Overall	mm	5229	5302	5390	5254	5328	5417	5331	5498	-86	
	ft/in	17'1"	17'4"	17'8"	17'2"	17'5"	17'9"	17'5"	18'0"	-3.4"	
19 Turning Radius: Bucket at Carry	mm	6094	6120	6148	6108	6134	6163	6123	6182	13	
	ft/in	19'11"	20'0"	20'2"	20'0"	20'1"	20'2"	20'1"	20'3"	0.51"	
Tipping Load – Straight, ISO 14397-1*	kg	8444	8302	8179	8060	7922	7802	7701	7421	-244	
	lb	18,610	18,298	18,026	17,764	17,460	17,195	16,972	16,356	-537	
Tipping Load – Straight, Rigid Tire**	kg	8796	8648	8520	8396	8252	8127	8022	7730	-254	
	lb	19,386	19,060	18,777	18,504	18,187	17,911	17,679	17,037	-559	
Tipping Load – Full Turn, ISO 14397-1*	kg	7195	7065	6951	6833	6707	6596	6526	6266	-211	
	lb	15,858	15,572	15,321	15,059	14,781	14,536	14,384	13,811	-464	
Tipping Load – Full Turn, Rigid Tire**	kg	7654	7516	7395	7269	7135	7017	6943	6666	-224	
	lb	16,870	16,566	16,298	16,020	15,725	15,464	15,302	14,692	-494	
Breakout Force	kg	7627	7507	6664	7354	7238	6443	6852	5753	+36	
	lb	16,810	16,545	14,688	16,208	15,951	14,199	15,101	12,679	+79	
Operating Weight	kg	12 415	12 481	12 545	12 778	12 844	12 908	12 699	12 862	-366	
	lb	27,363	27,508	27,649	28,163	28,308	28,449	27,987	28,347	-807	

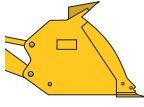
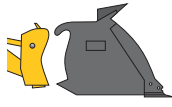
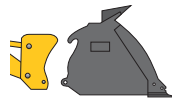
*Full compliance to ISO 14397-1 (2007) Sections 1 thru 6, which requires 2% verification between calculation and testing.

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

Note: Dimensions listed are for machine configured with 20.5 XHA2 L3 tires unless otherwise noted.

Bucket Specifications

930K Operating Specifications with Buckets

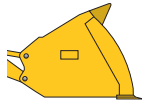
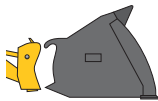
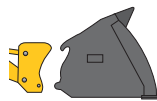
		General Purpose									High Lift
		 Pin On			 Fusion			 ISO 23727			
Capacity – Rated	m ³	2.1	2.3	2.5	2.1	2.3	2.5	2.3	2.5	—	
	yd ³	2.7	3.0	3.3	2.7	3.0	3.3	3.0	3.3	—	
Capacity – Rated at 110% Fill Factor	m ³	2.3	2.5	2.8	2.3	2.5	2.8	2.5	2.8	—	
	yd ³	3.0	3.3	3.6	3.0	3.3	3.6	3.3	3.6	—	
17 Width: Bucket	mm	2550	2550	2550	2550	2550	2550	2550	2750	—	
	ft/in	8'4"	8'4"	8'4"	8'4"	8'4"	8'4"	8'4"	9'0"	—	
Nominal Material Density, 110% Fill Factor	kg/m ³	1833	1654	1498	1747	1580	1433	1501	1363	—	
	lb/yd ³	3,111	2,794	2,522	2,965	2,669	2,413	2,535	2,295	—	
9 Clearance: Full Lift, 45° Dump	mm	2855	2807	2761	2828	2779	2733	2677	2677	+593	
	ft/in	9'4"	9'2"	9'0"	9'3"	9'1"	8'11"	8'9"	8'9"	+1'11"	
14 Reach: Full Lift, 45° Dump	mm	1033	1070	1109	1064	1102	1140	1227	1227	+320	
	ft/in	3'4"	3'6"	3'7"	3'5"	3'7"	3'8"	4'0"	4'0"	+13"	
Reach: 2130 mm (7'0") Clearance, 45° Dump	mm	1560	1573	1587	1578	1590	1603	1657	1657	+717	
	ft/in	5'1"	5'1"	5'2"	5'2"	5'2"	5'3"	5'5"	5'5"	+2'4"	
Reach: Level Arm, Level Bucket	mm	2350	2413	2475	2392	2455	2517	2616	2616	+653	
	ft/in	7'8"	7'11"	8'1"	7'10"	8'0"	8'3"	8'6"	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	7749	7749	+794	
	ft/in	24'6"	24'9"	24'11"	24'8"	24'10"	25'1"	25'5"	25'5"	+2'7"	
13 Height: Overall	mm	5122	5180	5239	5147	5205	5264	5313	5313	+593	
	ft/in	16'9"	16'11"	17'2"	16'10"	17'0"	17'3"	17'5"	17'5"	+1'11"	
19 Turning Radius: Bucket at Carry	mm	5933	5951	5970	5946	5964	5983	5995	6085	+384	
	ft/in	19'5"	19'6"	19'7"	19'6"	19'6"	19'7"	19'8"	19'11"	+1'3"	
Tipping Load – Straight, ISO 14397-1*	kg	9901	9791	9654	9477	9393	9275	8927	8830	-2715	
	lb	21,821	21,578	21,277	20,887	20,703	20,442	19,675	19,462	-5,984	
Tipping Load – Straight, Rigid Tire**	kg	10 313	10 199	10 056	9872	9785	9661	9299	9198	-2829	
	lb	22,730	22,478	22,164	21,758	21,565	21,293	20,495	20,273	-6,234	
Tipping Load – Full Turn, ISO 14397-1*	kg	8470	8368	8239	8071	7994	7883	7593	7498	-2379	
	lb	18,667	18,442	18,158	17,787	17,618	17,374	16,734	16,526	-5,243	
Tipping Load – Full Turn, Rigid Tire**	kg	9010	8902	8765	8586	8504	8387	8077	7977	-2531	
	lb	19,858	19,619	19,317	18,923	18,743	18,483	17,802	17,581	-5,578	
Breakout Force	kg	12 891	12 158	11 488	12 371	11 698	11 080	10 182	10 125	-299	
	lb	28,411	26,796	25,318	27,266	25,783	24,420	22,442	22,315	-658	
Operating Weight	kg	13 150	13 214	13 312	13 529	13 567	13 650	13 533	13 636	+232	
	lb	28,982	29,122	29,340	29,818	29,901	30,083	29,827	30,054	+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

930K Operating Specifications with Buckets

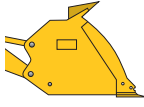
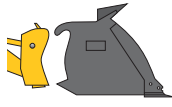
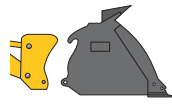
		Light Material									High Lift
		 Pin On			 Fusion			 ISO 23727			
Capacity – Rated	m ³	3.5	3.8	4.2	3.5	3.8	4.2	3.5	5.0	—	
	yd ³	4.6	5.0	5.5	4.6	5.0	5.5	4.6	6.5	—	
Capacity – Rated at 110% Fill Factor	m ³	3.9	4.2	4.6	3.9	4.2	4.6	3.9	5.5	—	
	yd ³	5.0	5.5	6.0	5.0	5.5	6.0	5.0	7.2	—	
17 Width: Bucket	mm	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	1031	934	832	983	890	792	940	631	—	
	lb/yd ³	1,750	1,564	1,412	1,668	1,490	1,345	1,595	1,063	—	
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: Bucket at Carry	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	9336	9187	9058	8941	8797	8671	8552	8237	-2610	
	lb	20,576	20,248	19,964	19,706	19,387	19,110	18,849	18,154	-5,752	
Tipping Load – Straight, Rigid Tire**	kg	9725	9570	9436	9314	9163	9032	8909	8580	-2719	
	lb	21,434	21,092	20,796	20,527	20,195	19,906	19,634	18,911	-5,991	
Tipping Load – Full Turn, ISO 14397-1*	kg	7941	7806	7687	7570	7438	7322	7239	6943	-2290	
	lb	17,502	17,204	16,942	16,684	16,393	16,138	15,954	15,302	-5,046	
Tipping Load – Full Turn, Rigid Tire**	kg	8448	8304	8178	8053	7913	7790	7701	7386	-2436	
	lb	18,620	18,302	18,024	17,749	17,440	17,168	16,973	16,279	-5,368	
Breakout Force	kg	10 278	10 140	9024	9926	9792	8740	9293	7810	-250	
	lb	22,652	22,347	19,889	21,877	21,582	19,262	20,482	17,213	-551	
Operating Weight	kg	13 527	13 593	13 657	13 890	13 956	14 020	13 810	14 033	+232	
	lb	29,813	29,958	30,099	30,613	30,758	30,899	30,437	30,929	+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

938K Operating Specifications with Buckets

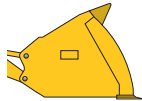
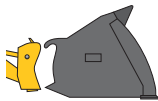
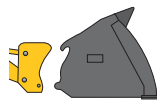
		General Purpose									High Lift ***
		 Pin On			 Fusion			 ISO 23727			
Capacity – Rated	m ³	2.5	2.7	2.9	2.5	2.7	2.9	2.7	2.9	—	
	yd ³	3.3	3.5	3.8	3.3	3.5	3.8	3.5	3.8	—	
Capacity – Rated at 110% Fill Factor	m ³	2.8	3.0	3.2	2.8	3.0	3.2	3.0	3.2	—	
	yd ³	3.6	3.9	4.2	3.6	3.9	4.2	3.9	4.2	—	
17 Width: Bucket	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	1832	1681	1554	1744	1600	1479	1536	1419	—	
	lb/yd ³	3,084	2,822	2,601	2,936	2,686	2,475	2,577	2,376	—	
9 Clearance: Full Lift, 45° Dump	mm	2869	2822	2786	2834	2787	2751	2691	2654	+581	
	ft/in	9'4"	9'3"	9'1"	9'3"	9'1"	9'0"	8'9"	8'8"	+1'10"	
14 Reach: Full Lift, 45° Dump	mm	1108	1146	1178	1146	1185	1216	1302	1332	+267	
	ft/in	3'7"	3'9"	3'10"	3'9"	3'10"	3'11"	4'3"	4'4"	+11"	
Reach: 2130 mm (7'0") Clearance, 45° Dump	mm	1637	1652	1664	1658	1672	1684	1736	1744	+666	
	ft/in	5'4"	5'5"	5'5"	5'5"	5'5"	5'6"	5'8"	5'8"	+2'2"	
Reach: Level Arm, Level Bucket	mm	2452	2514	2563	2504	2566	2615	2717	2766	+607	
	ft/in	8'0"	8'2"	8'4"	8'2"	8'5"	8'6"	8'10"	9'0"	+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	7864	7913	+740	
	ft/in	24'11"	25'1"	25'3"	25'1"	25'3"	25'5"	25'9"	25'11"	+2'5"	
13 Height: Overall	mm	5242	5301	5348	5273	5332	5379	5434	5481	+581	
	ft/in	17'2"	17'4"	17'6"	17'3"	17'5"	17'7"	17'9"	17'11"	+1'10"	
19 Turning Radius: Bucket at Carry	mm	6117	6136	6150	6134	6152	6167	6180	6196	+357	
	ft/in	20'0"	20'1"	20'2"	20'1"	20'2"	20'2"	20'3"	20'3"	+1'2"	
Tipping Load – Straight, ISO 14397-1*	kg	11 831	11 733	11 651	11 314	11 218	11 139	10 763	10 690	-3497	
	lb	26,074	25,860	25,679	24,935	24,723	24,549	23,721	23,561	-7,708	
Tipping Load – Straight, Rigid Tire**	kg	12 323	12 222	12 137	11 785	11 685	11 603	11 211	11 136	-3643	
	lb	27,160	26,937	26,749	25,974	25,753	25,572	24,709	24,542	-8,029	
Tipping Load – Full Turn, ISO 14397-1*	kg	10 076	9986	9912	9593	9505	9433	9121	9055	-3031	
	lb	22,206	22,010	21,845	21,142	20,948	20,790	20,103	19,957	-6,680	
Tipping Load – Full Turn, Rigid Tire**	kg	10 719	10 624	10 544	10 205	10 112	10 035	9704	9633	-3224	
	lb	23,624	23,414	23,239	22,492	22,285	22,117	21,386	21,230	-7,106	
Breakout Force	kg	13 813	13 082	12 552	13 170	12 498	12 009	11 039	10 643	-502	
	lb	30,442	28,833	27,665	29,027	27,546	26,467	24,330	23,456	-1,106	
Operating Weight	kg	15 465	15 510	15 547	15 892	15 936	15 972	15 831	15 865	-102	
	lb	34,085	34,184	34,264	35,025	35,122	35,202	34,892	34,967	-225	

*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.

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

938K 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	2747	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	1150	1025	860	1094	976	817	939	787	—	
	lb/yd ³	1,926	1,739	1,448	1,832	1,657	1,376	1,594	1,325	—	
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: Bucket at Carry	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	11 292	11 138	11 136	10 794	10 659	10 628	10 255	10 238	–3340	
	lb	24,888	24,547	24,544	23,790	23,492	23,423	22,602	22,565	–7,360	
Tipping Load – Straight, Rigid Tire**	kg	11 763	11 602	11 600	11 244	11 103	11 070	10 683	10 665	–3479	
	lb	25,925	25,570	25,567	24,781	24,471	24,399	23,544	23,505	–7,667	
Tipping Load – Full Turn, ISO 14397-1*	kg	9583	9440	9436	9117	8994	8960	8653	8633	–2897	
	lb	21,120	20,806	20,796	20,094	19,822	19,747	19,070	19,026	–6,385	
Tipping Load – Full Turn, Rigid Tire**	kg	10 195	10 043	10 038	9699	9568	9532	9205	9184	–3082	
	lb	22,468	22,134	22,123	21,377	21,087	21,007	20,287	20,240	–6,793	
Breakout Force	kg	11 603	10 331	10 292	11 122	9942	9888	9023	8977	–437	
	lb	25,573	22,768	22,684	24,512	21,912	21,792	19,886	19,786	–963	
Operating Weight	kg	15 735	15 811	15 858	16 158	16 222	16 299	16 117	16 177	–102	
	lb	34,679	34,848	34,951	35,611	35,752	35,923	35,521	35,653	–225	

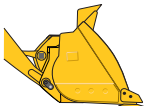
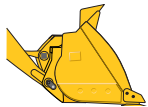
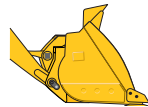
*Full compliance to ISO 14397-1 (2007) Sections 1 thru 6, which requires 2% verification between calculation and testing.

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

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

Bucket Specifications

924K Operating Specifications with Buckets

		Pin On Sand and Gravel					
		 924K		 930K		 938K	
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	2.1	2.6	2.6	3.0	3.0	3.4
	yd ³	2.7	3.4	3.4	3.9	3.9	4.4
17 Width: Bucket	mm	2750	2750	2750	2750	2750	2750
	ft/in	9'0"	9'0"	9'0"	9'0"	9'0"	9'0"
Nominal Material Density, 110% Fill Factor	kg/m ³	1502	1385	1602	1342	1620	1403
	lb/yd ³	2,540	2,356	2,724	2,255	2,721	2,353
9 Clearance: Full Lift, 45° Dump	mm	2753	2706	2761	2724	2786	2663
	ft/in	9'0"	8'10"	9'0"	8'11"	9'1"	8'8"
14 Reach: Full Lift, 45° Dump	mm	1028	1066	1109	1140	1178	1362
	ft/in	3'4"	3'5"	3'7"	3'8"	3'10"	4'5"
Reach: 2130 mm (7'0") Clearance, 45° Dump	mm	1504	1516	1587	1598	1664	1779
	ft/in	4'11"	4'11"	5'2"	5'2"	5'5"	5'10"
Reach: Level Arm, Level Bucket	mm	2366	2428	2475	2524	2563	2776
	ft/in	7'9"	7'11"	8'1"	8'3"	8'4"	9'1"
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	7509	7571	7613	7662	7715	7928
	ft/in	24'7"	24'10"	24'11"	25'1"	25'3"	26'0"
13 Height: Overall	mm	5126	5184	5239	5349	5411	5453
	ft/in	16'9"	17'0"	17'2"	17'6"	17'9"	17'10"
19 Turning Radius: Bucket at Carry	mm	6035	6054	6060	6075	6150	6215
	ft/in	19'9"	19'10"	19'10"	19'11"	20'2"	20'4"
Tipping Load – Straight, ISO 14397-1*	kg	8890	8757	10 149	10 085	12 188	11 587
	lb	19,599	19,305	22,373	22,233	26,869	25,544
Tipping Load – Straight, Rigid Tire**	kg	9261	9122	10 571	10 505	12 696	12 070
	lb	20,416	20,110	23,306	23,160	27,988	26,609
Tipping Load – Full Turn, ISO 14397-1*	kg	7606	7480	8649	8591	10 367	9820
	lb	16,767	16,489	19,068	18,939	22,855	21,649
Tipping Load – Full Turn, Rigid Tire**	kg	8091	7957	9202	9139	11 029	10 447
	lb	17,837	17,542	20,285	20,148	24,313	23,031
Breakout Force	kg	9027	8509	11 430	10 957	12 521	10 598
	lb	19,900	18,758	25,199	24,156	27,603	23,363
Operating Weight	kg	12 359	12 450	13 860	13 896	16 024	16 294
	lb	27,247	27,447	30,555	30,635	35,326	35,922

*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 machines configured with pin on buckets, bolt-on cutting edges, heavy (924K) or logger (930K and 938K) counterweights, additional guarding.

General Purpose Bucket Selection – Standard Lift

Material Type		Fill Factor %														Tip Load Full Turn*				
		105%	105%	110%	105%	105%	110%	105%	105%	110%	105%	110%	115%	110%	110%			115%	110%	
924K	Pin On	m ³	yd ³	Counter-weight	kg/m ³ lb/yd ³	1400 (2,359)	1475 (2,485)	1550 (2,612)	1625 (2,738)	1700 (2,865)	1775 (2,991)	1850 (3,117)	1925 (3,244)	2000 (3,370)	2075 (3,496)	2150 (3,623)	kg	lb		
		924K	Pin On	1.7	(2.2)	Heavy										115%	110%	105%	7858	(17,324)
Standard																			7333	(16,166)
1.9	(2.5)			Heavy												105%		7765	(17,118)	
				Standard							115%	110%	105%	100%				7242	(15,964)	
2.1	(2.7)			Heavy															7708	(16,992)
				Standard															7186	(15,843)
Fusion	1.9		(2.5)	Heavy														7396	(16,305)	
				Standard															6879	(15,166)
	2.1		(2.7)	Heavy														7318	(16,133)	
				Standard															6804	(14,999)
	2.3		(3.0)	Heavy															7245	(15,971)
				Standard															6733	(14,842)
930K	Pin On	2.1	(2.7)	Log/Agg													8891	(19,600)		
				Heavy														8470	(18,672)	
		2.3	(3.0)	Log/Agg														8787	(19,371)	
				Heavy														8368	(18,447)	
		2.5	(3.3)	Log/Agg														8656	(19,083)	
				Heavy														8239	(18,163)	
	Fusion	2.1	(2.7)	Log/Agg														8486	(18,708)	
				Heavy														8071	(17,792)	
		2.3	(3.0)	Log/Agg														8408	(18,535)	
				Heavy														7994	(17,623)	
		2.5	(3.3)	Log/Agg														8295	(18,287)	
				Heavy														7883	(17,379)	
938K	Pin On	2.5	(3.3)	Log/Agg													10 513	(23,176)		
				Heavy														10 105	(22,276)	
		2.7	(3.5)	Log/Agg														9603	(21,170)	
				Heavy														10 422	(22,976)	
		2.9	(3.8)	Log/Agg														10 015	(22,079)	
				Heavy														9515	(20,977)	
	Fusion	2.5	(3.3)	Log/Agg														10 346	(22,808)	
				Heavy														9940	(21,914)	
		2.7	(3.5)	Log/Agg														9442	(20,816)	
				Heavy														10 023	(22,097)	
		2.9	(3.8)	Log/Agg															9621	(21,211)
				Heavy															9934	(21,899)

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		Fill Factor %													Tip Load Full Turn*			
		100%	110%	115%	110%	110%	110%	110%	105%	105%	110%	110%	110%	110%			110%	110%
924K	Pin On	m ³	Counter-weight	kg/m ³ lb/yd ³	805 (1,356)	850 (1,432)	895 (1,508)	940 (1,584)	985 (1,660)	1030 (1,736)	1075 (1,811)	1120 (1,887)	1165 (1,963)	1210 (2,039)	1255 (2,115)	kg	lb	
		924K	Pin On	3.1 (4.1)	Heavy						115%	110%	110%	105%	100%			7336
Standard																	6822	(15,040)
3.5 (4.6)	Heavy										115%	110%	105%	100%			7195	(15,862)
	Standard																6885	(14,736)
3.8 (5.0)	Heavy										115%	110%	105%	100%			7065	(15,576)
	Standard																6559	(14,460)
Fusion	3.1 (4.1)		Heavy							115%	110%	105%	100%			6999	(15,429)	
			Standard													6491	(14,310)	
	3.5 (4.6)		Heavy								115%	110%	105%	100%			6833	(15,063)
			Standard														6329	(13,952)
	3.8 (5.0)		Heavy								110%	105%	100%				6707	(14,785)
			Standard														6207	(13,683)
930K	Pin On	3.5 (4.6)	Log/Agg								115%	110%	105%	100%		8354	(18,417)	
			Heavy													7941	(17,507)	
		Standard														7443	(16,408)	
		3.8 (5.0)	Log/Agg										115%	110%	105%	100%	8215	(18,110)
			Heavy														7806	(17,209)
		Standard														7312	(16,119)	
	4.2 (5.5)	Log/Agg										115%	110%	105%	100%	8094	(17,843)	
		Heavy														7687	(16,947)	
		Standard														7196	(15,864)	
	Fusion	3.5 (4.6)	Log/Agg									115%	110%	105%	100%	7977	(17,586)	
			Heavy													7570	(16,688)	
		3.8 (5.0)	Log/Agg										115%	110%	105%	100%	7842	(17,288)
Heavy																7438	(16,398)	
4.2 (5.5)		Log/Agg										115%	110%	105%	100%	7724	(17,027)	
		Heavy														7322	(16,143)	
938K	Pin On	3.8 (5.0)	Log/Agg									115%	110%	105%	100%	10 010	(22,068)	
			Heavy													9611	(21,188)	
		Standard														9121	(20,107)	
		4.2 (5.5)	Log/Agg										115%	110%	105%	100%	9865	(21,749)
			Heavy														9469	(20,874)
		Standard														8981	(19,799)	
	5.0 (6.5)	Log/Agg										115%	110%	105%	100%	9861	(21,740)	
		Heavy														9464	(20,864)	
		Standard														8975	(19,786)	
	Fusion	3.8 (5.0)	Log/Agg									115%	110%	105%	100%	9538	(21,028)	
			Heavy													9145	(20,161)	
		4.2 (5.5)	Log/Agg										115%	110%	105%	100%	9412	(20,750)
Heavy																9021	(19,888)	
5.0 (6.5)		Log/Agg										115%	110%	105%	100%	9379	(20,677)	
		Heavy														8988	(19,814)	

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.

General Purpose Bucket Selection – High Lift

Material Type		Fill Factor %														Tip Load Full Turn*			
		Fertilizer, Mixed		Coal Anthracite, Washed Peat, Wet		Coal Anthracite, Raw Earth, Loam, Dry		Coal Anthracite, Raw Earth, Loam, Dry Salt, Fine Heavy Metal Scrap, Loose		Shale		Sand, Dry and Loose Clay and Gravel, Dry		Clay, Natural Bed, Dry					
		m ³	yd 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	
930K High Lift	Pin On	2.1 (2.7)	Log/Agg	Not Available														6072 (13,386)	5681 (12,523)
			Heavy	115% 110% 105% 100%															
			Standard	115% 110% 105% 100%															
		2.3 (3.0)	Log/Agg	Not Available															
			Heavy	115% 110% 105% 100%															
			Standard	115% 110% 105% 100%															
	2.5 (3.3)	Log/Agg	Not Available																
		Heavy	115% 110% 105% 100%																
		Standard	110% 105% 100%																
	Fusion	2.1 (2.7)	Log/Agg	Not Available														5707 (12,580)	5648 (12,451)
			Heavy	115% 110% 105% 100%															
			Standard	115% 110% 105% 100%															
2.3 (3.0)		Log/Agg	Not Available																
		Heavy	115% 110% 105% 100%																
		Standard	115% 110% 105% 100%																
2.5 (3.3)	Log/Agg	Not Available																	
	Heavy	110% 105% 100%																	
	Standard	110% 105% 100%																	
938K High Lift	Pin On	2.5 (3.3)	Log/Agg	Not Available														7025 (15,487)	6956 (15,334)
			Heavy	Not Available															
			Standard	115% 110% 105% 100%															
		2.7 (3.5)	Log/Agg	Not Available															
			Heavy	Not Available															
			Standard	115% 110% 105% 100%															
	2.9 (3.8)	Log/Agg	Not Available																
		Heavy	Not Available																
		Standard	115% 110% 105% 100%																
	Fusion	2.5 (3.3)	Log/Agg	Not Available														6597 (14,543)	6528 (14,392)
			Heavy	Not Available															
			Standard	115% 110% 105% 100%															
2.7 (3.5)		Log/Agg	Not Available																
		Heavy	Not Available																
		Standard	115% 110% 105% 100%																
2.9 (3.8)	Log/Agg	Not Available																	
	Heavy	Not Available																	
	Standard	115% 105% 100%																	

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

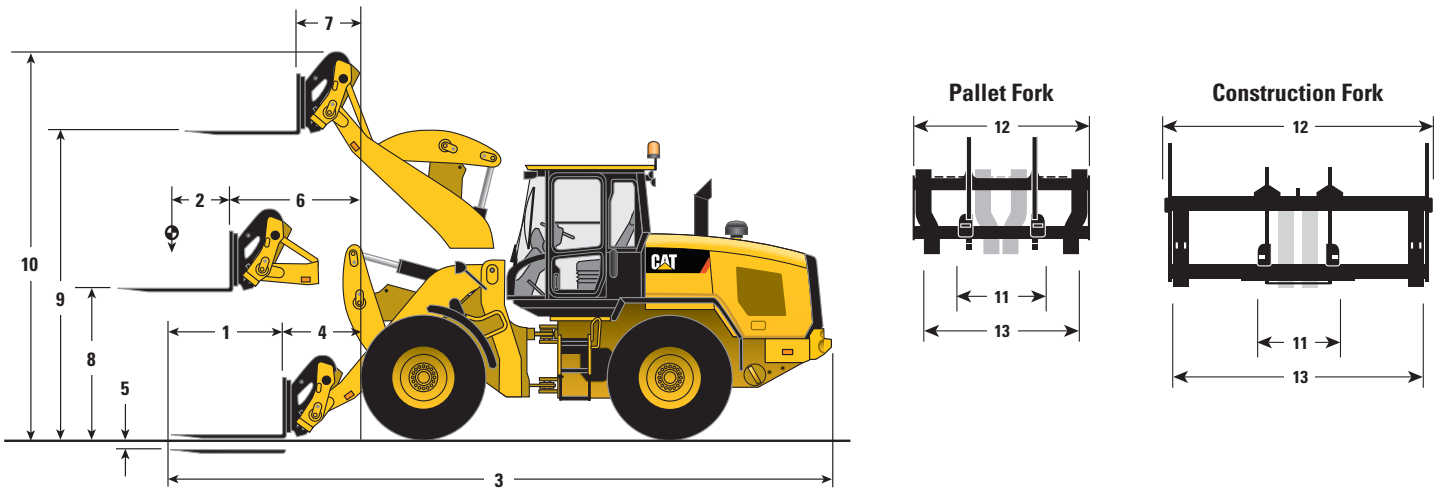
Light Material Bucket Selection – High Lift

Material Type		Fill Factor %														Tip Load Full Turn*	
		Mulch, Wet	Municipal Solid Waste	Flour, Wheat	Compacted Solid Waste Barley, Bulk	Buckwheat, Bulk	Asphalt, Crushed	Soy Beans, Bulk	Corn Shelled, Bulk	Glass, Semi Crushed	Wheat, Bulk	Construction and Demolition Sludge, Packed	Manure/Muck, Wet				
930K High Lift	Pin On	Counter-weight	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		
		m ³	yd ³	kg/m ³	lb/yd ³	115%	110%	105%	100%	110%	110%	105%	100%				
930K High Lift	Pin On	3.5 (4.6)	Log/Agg	Not Available													
		3.5 (4.6)	Heavy	115%												5622	(12,394)
		3.5 (4.6)	Standard	115%												5237	(11,544)
		3.8 (5.0)	Log/Agg	Not Available													
		3.8 (5.0)	Heavy	115%												5519	(12,166)
		3.8 (5.0)	Standard	115%												5136	(11,322)
	Fusion	4.2 (5.5)	Log/Agg	Not Available													
		4.2 (5.5)	Heavy	115%												5425	(11,960)
		4.2 (5.5)	Standard	110%												5044	(11,119)
		3.5 (4.6)	Log/Agg	Not Available													
		3.5 (4.6)	Heavy	115%												5280	(11,640)
		3.5 (4.6)	Standard	110%												5179	(11,418)
938K High Lift	Pin On	3.8 (5.0)	Log/Agg	Not Available													
		3.8 (5.0)	Heavy	Not Available													
		3.8 (5.0)	Standard	115%												6636	(14,630)
		4.2 (5.5)	Log/Agg	Not Available													
		4.2 (5.5)	Heavy	Not Available													
		4.2 (5.5)	Standard	115%												6522	(14,379)
	Fusion	5.0 (6.5)	Log/Agg	Not Available													
		5.0 (6.5)	Heavy	Not Available													
		5.0 (6.5)	Standard	115%												6503	(14,337)
		3.8 (5.0)	Log/Agg	Not Available													
		3.8 (5.0)	Heavy	Not Available													
		3.8 (5.0)	Standard	115%												6220	(13,712)
Fusion	4.2 (5.5)	Log/Agg	Not Available														
	4.2 (5.5)	Heavy	Not Available														
	4.2 (5.5)	Standard	115%												6123	(13,498)	
	5.0 (6.5)	Log/Agg	Not Available														
	5.0 (6.5)	Heavy	Not Available														
	5.0 (6.5)	Standard	110%												6075	(13,393)	

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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Operating Specifications with Forks



	Pallet Fork – Fusion						Construction Fork – Fusion					
	924K		930K		938K		924K		930K		938K	
	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	2'5"	762	2'6"
3 Length: Overall	7840	25'8"	7882	25'10"	7942	26'0"	8263	27'1"	8305	27'2"	8366	27'5"
4 Reach: Ground	891	2'11"	926	3'0"	961	3'1"	1009	3'3"	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	1522	4'11"	1569	5'1"	1617	5'3"	1580	5'2"	1627	5'4"	1675	5'5"
7 Reach: Full Lift	724	2'4"	767	2'6"	814	2'8"	782	2'6"	825	2'8"	872	2'10"
8 Clearance: Level Arm	1761	5'9"	1792	5'10"	1830	6'0"	1698	5'6"	1729	5'8"	1766	5'9"
9 Clearance: Full Lift	3639	11'11"	3693	12'1"	3758	12'3"	3575	11'8"	3630	11'10"	3693	12'1"
10 Height: Overall	4621	15'1"	4676	15'4"	4740	15'6"	4880	16'0"	4935	16'2"	4998	16'4"
11 Minimum Fork Spacing	—	—	—	—	—	—	—	—	300	11"	300	11"
12 Carriage Width	—	—	—	—	—	—	—	—	1566	5'1"	2498	8'2"
13 Maximum Fork Spacing	—	—	—	—	—	—	—	—	1550	5'1"	2375	7'9"
	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb
Tipping Load – Straight, ISO 14397-1*	6585	14,512	7315	16,122	8891	19,594	5883	12,966	6571	14,481	8047	17,734
Tipping Load – Full Turn, ISO 14397-1*	5643	12,437	6255	13,787	7580	16,705	5011	11,043	5587	12,313	6828	15,048
Operating Weight	12 032	26,518	13 144	28,968	15 396	33,932	12 366	27,255	13 478	29,705	15 730	34,669
Rated Load (% of Full Turn Tip):												
50% of Tip: SAE J1197**	2821	6,218	3128	6,893	3790	8,352	2505	5,521	2794	6,156	3414	7,524
60% of Tip: Rough Terrain EN474-3**	3386	7,462	3753	8,272	4548	10,023	3006	6,626	3352	7,388	4097	9,029
80% of Tip: Firm and Level EN474-3**	4514	9,949	5004	11,029	6064	13,364	4009	8,834	4470	9,851	5462	12,038

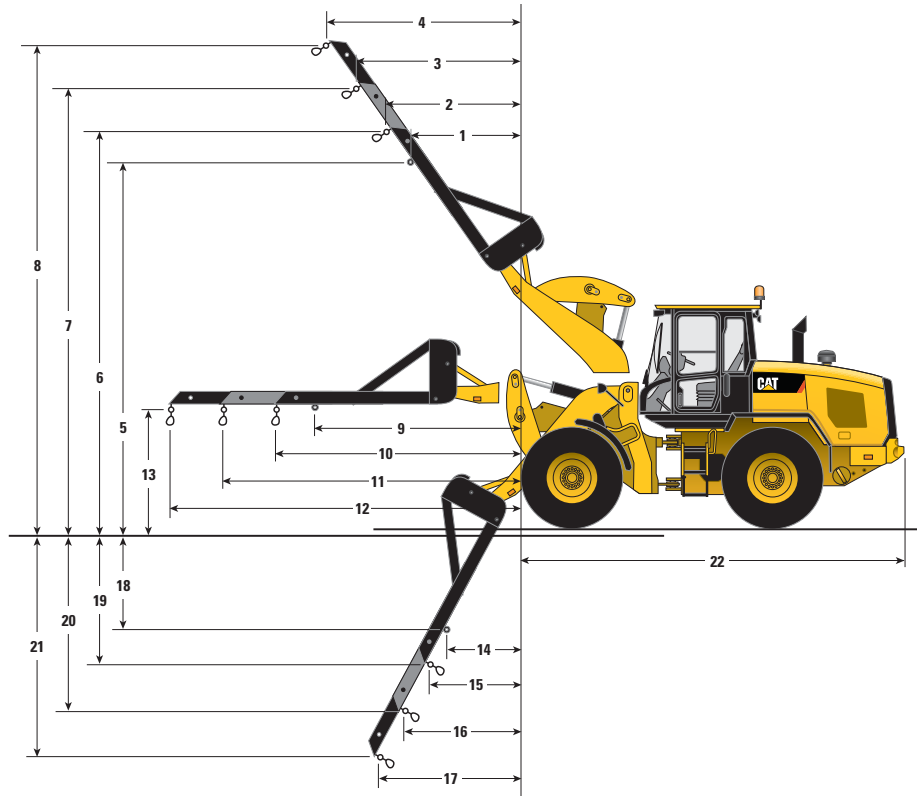
*Full compliance to ISO 14397-1 (2007) Sections 1 thru 6, which requires 2% verification between calculation and testing.

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

Note: Dimensions 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

Operating Specifications with Material Handling Arm



Material Handling Arm – Fusion

	924K		930K		938K			924K		930K		938K	
1	2087	6'10"	2113	6'11"	2144	7'0"	12	5280	17'3"	5327	17'5"	5376	17'7"
2	2311	7'6"	2333	7'7"	2362	7'8"	13	1823	5'11"	1854	6'0"	1890	6'2"
3	2904	9'6"	2919	9'6"	2943	9'7"	14	633	2'0"	863	2'9"	906	2'11"
4	3497	11'5"	3505	11'6"	3525	11'6"	15	785	2'6"	1045	3'5"	1089	3'6"
5	5180	16'11"	5257	17'2"	5343	17'6"	16	948	3'1"	1276	4'2"	1324	4'4"
6	5487	18'0"	5568	18'3"	5655	18'6"	17	1111	3'7"	1507	4'11"	1559	5'1"
7	6024	19'9"	6112	20'0"	6204	20'4"	18	2004	6'6"	1975	6'5"	1983	6'6"
8	6561	21'6"	6657	21'10"	6754	22'1"	19	2353	7'8"	2310	7'6"	2316	7'7"
9	3307	10'10"	3354	11'0"	3403	11'1"	20	3136	10'3"	3076	10'1"	3081	10'1"
10	3680	12'0"	3727	12'2"	3775	12'4"	21	3920	12'10"	3842	12'7"	3846	12'7"
11	4480	14'8"	4527	14'10"	4575	15'0"	22	5730	18'9"	5737	18'9"	5762	18'10"

	924K		930K		938K	
Operating Weight	11 950	26,344	13 061	28,795	15 263	33,649
Rated Load* (50% of Full Turn Tip** SAE J1197)						
Fixed Tab (9)	2021	4,454	2249	4,957	2726	6,009
Minimum Extension (10)	1850	4,079	2061	4,544	2501	5,514
Middle Extension (11)	1567	3,454	1748	3,854	2125	4,684
Maximum Extension (12)	1359	2,995	1518	3,346	1847	4,072

*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 High Dump Buckets



		Pin On			Fusion			ISO 23727			17.5 Tires		High Lift***	
		924K	930K	938K	924K	930K	938K	924K	930K	938K	924K	930K	938K	
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% Fill Factor	m ³	3.3	3.9	4.5	3.3	3.9	4.5	3.3	3.9	4.5	—	—	—	
	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 110% Fill Factor	kg/m ³	943	897	1016	935	867	875	867	822	838	—	—	—	
	lb/yd ³	1572	1523	1712	1582	1471	1474	1466	1394	1412	—	—	—	
1 Length: Overall	mm	7872	7914	8044	7878	7986	8126	8141	8183	8313	+67	+794	+737	
	ft/in	25'9"	25'11"	26'4"	25'10"	26'2"	26'7"	26'8"	26'10"	27'3"	+2.6"	+2'7"	+2'5"	
2 Dump Clearance: Full Lift Rolled Out	mm	4184	4252	4264	4206	4332	4354	4328	4523	4539	-86	+568	+545	
	ft/in	13'8"	13'11"	13'11"	13'9"	14'2"	14'3"	14'2"	14'10"	14'10"	-3.4"	+1'10"	+1'9"	
3 Clearance: Level Bucket	mm	4526	4592	4647	4540	4609	4725	4682	4849	4904	-86	+574	+553	
	ft/in	14'10"	15'0"	15'2"	14'10"	15'1"	15'6"	15'4"	15'10"	16'1"	-3.4"	+1'10"	+1'9"	
4 Height: Overall	mm	6189	6298	6367	6203	6315	6446	6345	6555	6605	-86	+574	+553	
	ft/in	20'3"	20'7"	20'10"	20'4"	20'8"	21'1"	20'9"	21'6"	21'8"	-3.4"	+1'10"	+1'9"	
5 Reach: Full Lift Rolled Out	mm	1387	1425	1489	1383	1458	1530	1576	1561	1626	+67	+329	+278	
	ft/in	4'6"	4'8"	4'10"	4'6"	4'9"	5'0"	5'2"	5'1"	5'4"	+2.6"	+1'0"	+0'10"	
6 Dig Depth	mm	80	80	96	100	100	116	94	94	109	+86	+35	+35	
	in	3.2"	3.2"	3.8"	3.9"	3.9"	4.6"	3.7"	3.7"	4.3"	+3.4"	+1.4"	+1.4"	
Turning Radius Bucket at Carry	mm	6067	6160	6296	6055	6166	6406	6121	6208	6444	+11	+393	+366	
	ft/in	19'10"	20'2"	20'7"	19'10"	20'2"	21'0"	20'0"	20'4"	21'1"	+0.4"	+1'3"	+1'2"	
7 Maximum Dump Angle	degree	52	52	51	50	49	49	56	48	48	—	—	—	
8 Rack Angle at Carry	degree	40	43	55	43	45	46	41	43	44	—	—	—	
Tipping Load – Straight ISO 14397-1*	kg	7435	8206	10 878	7343	7960	9435	6819	7556	9044	-231	-2381	-3067	
	lb	16,387	18,086	23,975	16,183	17,544	20,794	15,028	16,653	19,933	-508	-5,248	-6,759	
Tipping Load – Straight Rigid Tire**	kg	7745	8548	11 332	7649	8292	9828	7103	7871	9421	-240	-2480	-3195	
	lb	17,069	18,839	24,974	16,857	18,275	21,660	15,654	17,347	20,763	-529	-5,466	-7,040	
Tipping Load – Full Turn ISO 14397-1*	kg	6277	6911	9136	6174	6675	7864	5721	6327	7534	-200	-2092	-2661	
	lb	13,834	15,231	20,135	13,607	14,711	17,331	12,609	13,944	16,604	-439	-4,609	-5,865	
Tipping Load – Full Turn Rigid Tire**	kg	6678	7352	9719	6568	7101	8366	6086	6731	8015	-212	-2225	-2831	
	lb	14,717	16,203	21,420	14,476	15,650	18,437	13,414	14,834	17,664	-468	-4,904	-6,239	
Breakout Force	kg	6334	8584	9491	6495	8373	8959	5300	7258	7845	+36	-219	-369	
	lb	13,960	18,920	20,917	14,315	18,453	19,745	11,680	15,995	17,290	+79	-482	-812	
Operating Weight	kg	12 854	14 057	16 478	13 158	14 358	16 891	13 117	14 317	16 791	-366	+232	-102	
	lb	28,330	30,981	36,317	28,999	31,645	37,227	28,909	31,555	37,007	-806	+9"	+7"	

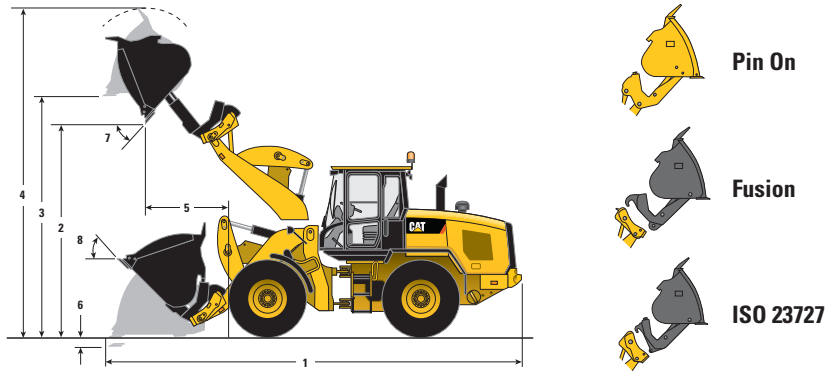
*Full compliance to ISO 14397-1 (2007) Sections 1 thru 6, which requires 2% verification between calculation and testing.

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

***938K High Lift linkage is only compliant with standard counterweight option.

Operating Specifications

Operating Specifications with High Dump Buckets



		Pin On			Fusion			ISO 23727			17.5 Tires		High Lift***	
		924K	930K	938K	924K	930K	938K	924K	930K	938K	924K	930K	938K	
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% Fill Factor	m ³	4.5	5.5	5.5	4.5	5.5	5.5	4.5	5.5	5.5	—	—	—	
	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 110% Fill Factor	kg/m ³	641	570	728	617	556	703	582	526	674	—	—	—	
	lb/yd ³	1081	960	1226	1039	936	1184	981	886	1135	—	—	—	
1 Length: Overall	mm	7949	8112	8164	8021	8183	8246	8218	8381	8433	+67	+794	+737	
	ft/in	26'0"	26'7"	26'9"	26'3"	26'10"	27'0"	26'11"	27'5"	27'8"	+2.6"	+2'7"	+2'5"	
2 Dump Clearance: Full Lift Rolled Out	mm	4124	4099	4171	4205	4183	4264	4395	4376	4450	-86	+568	+545	
	ft/in	13'6"	13'5"	13'8"	13'9"	13'8"	13'11"	14'5"	14'4"	14'7"	-3.4"	+1'10"	+1'9"	
3 Clearance: Level Bucket	mm	4511	4432	4647	4581	4647	4725	4766	4834	4904	-86	+574	+553	
	ft/in	14'9"	14'6"	15'2"	15'0"	15'2"	15'6"	15'7"	15'10"	16'1"	-3.4"	+1'10"	+1'9"	
4 Height: Overall	mm	6232	6295	6510	6302	6510	6588	6467	6697	6767	-86	+574	+553	
	ft/in	20'5"	20'7"	21'4"	20'8"	21'4"	21'7"	21'2"	21'11"	22'2"	-3.4"	+1'10"	+1'9"	
5 Reach: Full Lift Rolled Out	mm	1415	1529	1564	1452	1568	1609	1558	1674	1707	+67	+329	+278	
	ft/in	4'7"	5'0"	5'1"	4'9"	5'1"	5'3"	5'1"	5'5"	5'7"	+2.6"	+1'0"	+0'10"	
6 Dig Depth	mm	95	95	96	115	115	116	109	109	109	+86	+35	+35	
	in	3.8"	3.8"	3.8"	4.5"	4.5"	4.6"	4.3"	4.3"	4.3"	+3.4"	+1.4"	+1.4"	
Turning Radius Bucket at Carry	mm	6319	6362	6437	6326	6366	6444	6371	6411	6484	+11	+393	+366	
	ft/in	20'8"	20'10"	21'1"	20'9"	20'10"	21'1"	20'10"	21'0"	21'3"	+0.4"	+1'3"	+1'2"	
7 Maximum Dump Angle	degree	52	52	51	50	49	49	49	48	48	—	—	—	
8 Rack Angle at Carry	degree	40	43	43	43	45	46	41	43	44	—	—	—	
Tipping Load – Straight ISO 14397-1*	kg	6926	7530	9547	6696	7376	9272	6332	6992	8894	-231	-2381	-3067	
	lb	15,264	16,595	21,040	14,757	16,256	20,435	13,955	15,411	19,602	-508	-5,248	-6,759	
Tipping Load – Straight Rigid Tire**	kg	7215	7844	9944	6975	7683	9659	6596	7284	9265	-240	-2480	-3195	
	lb	15,901	17,287	21,917	15,372	16,933	21,287	14,536	16,053	20,419	-529	-5,466	-7,040	
Tipping Load – Full Turn ISO 14397-1*	kg	5785	6275	7985	5564	6118	7712	5250	5787	7393	-200	-2092	-2661	
	lb	12,751	13,829	17,598	12,263	13,483	16,996	11,570	12,755	16,293	-439	-4,609	-5,865	
Tipping Load – Full Turn Rigid Tire**	kg	6155	6675	8495	5919	6508	8204	5585	6157	7865	-212	-2225	-2831	
	lb	13,565	14,712	18,721	13,046	14,343	18,081	12,308	13,569	17,333	-468	-4,904	-6,239	
Breakout Force	kg	5813	7350	8530	5657	7185	8248	4826	6248	7259	+36	-219	-369	
	lb	12,812	16,200	18,799	12,468	15,836	18,179	10,637	13,769	15,999	+79	-482	-812	
Operating Weight	kg	13 283	14 497	16 577	13 577	14 789	16 990	13 536	14 747	16 890	-366	+232	-102	
	lb	29,275	31,951	36,536	29,924	32,594	37,446	29,832	32,502	37,226	-806	+9"	+7"	

*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.

***938K High Lift linkage is only compliant with standard counterweight option.

Optional Equipment

	924K				930K				938K			
	Operating Weight		Tipping Load – Full Turn with 1.9 m ³ (2.5 yd ³) Pin On Bucket		Operating Weight		Tipping Load – Full Turn with 2.1 m ³ (2.7 yd ³) Pin On Bucket		Operating Weight		Tipping Load – Full Turn with 2.5 m ³ (3.3 yd ³) Pin On Bucket	
	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb
Change with Options Removed:												
Heavy Counterweight	-320	N/A	-523	N/A	-320	-705	-509	-1,121	-320	-705	-502	-1,106
Deluxe Cab (Semi-Cab Option)	-100	-220	-116	-256	-100	-220	-113	-249	-100	-220	-113	-249
Change with Options Added:												
Logger/Aggregate Counterweight	N/A	N/A	N/A	N/A	+298	+657	423	+932	+298	+657	413	+910
Secondary Steer	+69	+152	+76	+167	+69	+152	+74	+163	+69	+152	+74	+163
Roading Fenders	+18	+39	+25	+55	+18	+39	+24	+52	+18	+39	+24	+52
Guard, Power Train Lower	+77	+169	+72	+158	+77	+169	+70	+154	+68	+149	+61	+134
Guard, Driveshaft	+44	+96	+12	+26	+44	+96	+12	+26	+45	+99	+12	+26
Guard, Crankcase	+11	+24	+15	+33	+11	+24	+14	+30	+11	+24	+14	+30
Ride Control	+49	+107	+27	+59	+49	+107	+27	+59	+49	+107	+27	+59
Guard, Power Train Side	+11	+24	+10	+22	+11	+24	+9	+19	+11	+24	+9	+19
Guard, Front Window	+41	+90	+23	+50	+41	+90	+23	+50	+41	+90	+23	+50
Guard Rear Waste Gate	N/A	N/A	N/A	N/A	+264	+581	+472	+1,040	+284	+625	+500	+1,102
Cold Start Package	+54	+119	+77	N/A	+54	+119	+75	+165	+54	+119	+75	+165

Tire Options

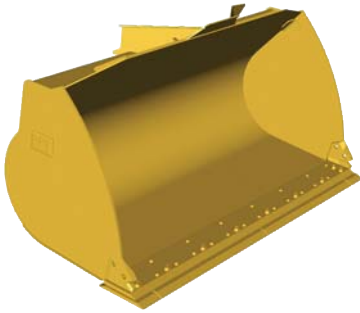


	924K				930K				938K			
	550/65R25		17.5-25 16PR		20.5-25 16PR		20.5R25 (L-5)		750/65R26		23.5R25*	
Change with Tire Option as Compared to 20.5R25 L3 Tire	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
Vertical Heights	-70	-2.8"	-88.1	-3.5"	-25	-1"	+35	+1.4"	+40	-1.6"	+65	+2.6"
Reach: Bucket at 45°	+44	+1.7"	+67	+2.6"	-11	-0.4"	-21	-0.8"	-67	-2.6"	-63	-2.5"
Width: Over Tires	+53	+2.1"	-87	-3.4"	-16	-0.6"	-14	-0.6"	+122	+4.8"	+41	+1.6"
Turning Radius: Outside of Tires	+4	+0.2"	-43	-1.7"	-12	-0.5"	+20	+0.8"	+73	+2.9"	+15	+0.6"
Turning Radius: Inside of Tires	-27	-1"	-43	-1.7"	+8	+0.3"	-7	-0.3"	-61	-2.4"	-21	-0.8"
	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb
Tipping Load – Straight	-86	-189	-250	-551	-23	-50	+401	+883	+24	+52	+487	+1,073
Tipping Load – Full Turn	-74	-163	-216	-476	-20	-44	+347	+764	+21	+46	+421	+927
Operating Weight	-126	-277	-366	-806	-35	-77	+605	+1,333	+37	+81	+738	+1,626

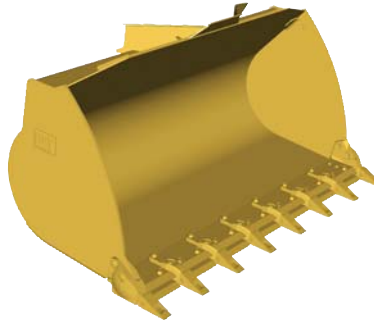
*938K compatible with standard counterweight for general construction and heavy counterweight for Aggregate or Forest Handlers.

Supplemental Specifications

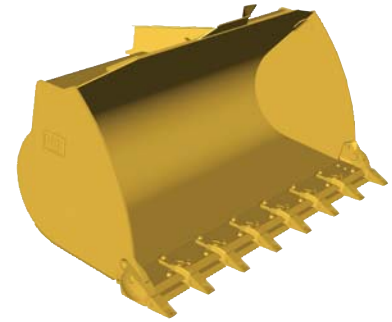
Ground Engagement Options



Bolt-on Cutting Edge



Long Teeth and Segments



Short Teeth and Segments

Change with Ground Engagement Option Compared to Bolt-on Cutting Edge	924K				930K				938K			
	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

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
- 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-OSM 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 mirrors with lower parabolic
- Ground level cab door release

- Gauges
 - Digital hour, odometer, tachometer, ground speed and direction indicator
 - Engine coolant temperature gauge
 - Fuel 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)
- Corrosion protection package
- 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

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