



# Cat<sup>®</sup> 950 GC

## Wheel Loader

*The Cat<sup>®</sup> 950 GC Wheel Loader is designed specifically to handle all the jobs on your worksite from material handling and truck loading to general construction and stockpiling. This machine is purpose built to be just the right machine to get your everyday jobs done. Great machine performance combined with the low owning and operating costs makes the 950 GC the right choice for your business.*

### Proven Reliability

- Cat C7.1 engine offers increased power density with a combination of proven electronic, fuel, and air systems.
- Equipped with automatic Cat regeneration system, Cat Clean Emissions Module (CEM) with Diesel Particulate Filter (DPF), and Diesel Exhaust Fluid (DEF) tank and pump.
- Thorough component design and machine validation processes result in unmatched reliability and uptime.

### Achieve Greater Productivity

- The proven Cat Z-bar linkage geometry with Performance Series Buckets offer excellent penetration into the pile and high breakout forces. Combined with best-in-class standard dump clearance, this results in low fuel consumption and exceptional production capabilities.
- Cat designed, electronically controlled, automatic powershift countershaft transmission features shift protection and is equipped with a split flow oil system for efficiency, durability, and smoother gear changes.
- Optional Fusion™ quick-coupler control features a selectable kick-out to adjust for efficient bucket and fork applications.

### Superior Fuel Efficiency

- Engine Idle Management System (EIMS) and Auto Engine Idle Shutdown (EIS) maximize fuel efficiency by reducing engine rpm after a specified amount of idle time.
- Electronically controlled, hydraulically driven variable speed fan adjusts to meet the varying cooling requirements of the machine. This results in a reduced average fan speed, lowering fuel consumption, noise levels, and radiator plugging.
- Load sensing hydraulics produce flow and pressure for the implement system upon demand and only in amounts necessary to perform the needed work functions. This state-of-the-art system results in low fuel consumption.

### Easy, Comfortable Operator Environment

- The spacious cab features easy, intuitive controls and excellent visibility which provides a comfortable working environment for efficient all day operation.
- Pilot-operated hydraulic implement controls deliver comfortable, low-effort operation. Two single-axis levers or one joystick are available. Both arrangements are equipped with kick-down switches.
- The adjustable steering column includes the F-N-R shifter and turn signal control lever.
- Unmatched viewing area with a wide, flat, and distortion-free front windshield.
- The glass stretches to the floor of the cab for excellent visibility to the bucket and front tires.
- The cab roof has channels which direct rain off the corners of the cab, keeping windows clear.
- Air conditioning system is standard. Ten louvered vents allow the operator to direct the air flow to remain productive and efficient all shift long.

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## Safety Features

- Ladders are standard on both sides of the machine to easily access the platforms.
- Platforms are equipped with guard- and handrails for safe access to the cab.
- The main cab door opens to the front and provides wide access to the operator environment.
- Front and back wipers ensure that a clear view is maintained.
- External rearview mirrors with integrated spot mirrors are standard.
- A rear vision camera is standard to clearly monitor movement behind the machine.
- Hinged wheel guards, easy removal/re-install.
- Optional windshield and power train guards.

## Reduced Maintenance Time and Costs

- Grouped service points and sight gauges allow for easy daily maintenance.
- Convenient access to left, right, and rear of engine compartment provides excellent serviceability.
- Electrical and hydraulic service centers, along with additional key serviceability features, help make servicing and in-field component exchange quick, easy, and efficient.
- A rear swing-up grill gives easy cleaning access to the cooling cores.
- Optional integrated Cat Autolube system provides full lube system monitoring and diagnostic test visibility. One-button control, including fault flash function.
- Caterpillar design and manufacturing techniques assure outstanding service life.

## Cat Production Measurement Kit – Optional\*

- On-the-go weighing\*\* for precise load targets with proven accuracy, flexible installation, and easy calibration and setup.
- Brings payload weighing to the cab so operators can work more productively and deliver consistently accurate loads.
- Increases productivity, weighing while lifting with no interruptions in loading cycle.
- High efficiency: load to exact specification, load more trucks faster, and move more material for more revenue.
- Improve efficiency with less rework; save time, labor, fuel, and costs.
- Simple installation – comparable to 3rd party payload systems

*\*Not available in all markets*

*\*\*Not legal for trade*

## Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
<b>OPERATOR ENVIRONMENT</b>			<b>ELECTRICAL</b>		
Cab, pressurized and sound suppressed	✓		Starter, electric, heavy duty	✓	
Doors, service access (locking)	✓		Starting and charging system, 24V	✓	
Steering column, adjustable angle	✓		Lighting system: 4 halogen work lights, 2 halogen roading lights	✓	
Steering, secondary, electrical		✓	Lights: 4 LED or 8 LED work lights		✓
Seat, Cat Comfort (cloth), suspension	✓		<b>MONITORING SYSTEM</b>		
Seat, air suspended		✓	Digital indicators:	✓	
Radio		✓	Gear indicator		
Radio ready	✓		Speedometer		
Mirrors, rear view external	✓		Service meter units		
Air conditioning (HVAC) with 10 vents and filter unit located outside of cab	✓		Fault codes		
Windows, sliding (left and right sides)	✓		Gauges:	✓	
<b>POWER TRAIN</b>			Engine coolant temperatures/fluid level		
Cat C7.1 engine, meets emission standards	✓		Hydraulic/transmission oil temperature		
Filter, fuel primary-water separator/secondary	✓		Tachometer/DEF level		
Radiator, unit core (9.5 fpi) with ATAAC	✓		<b>ADDITIONAL EQUIPMENT</b>		
Fan, radiator, electronically controlled, hydraulically driven, temperature sensing, on demand	✓		Cat Autolube		✓
Fan, reversing cooling, automatic and manual control		✓	Fenders, roading		✓
Guards		✓	Storage/toolbox		✓
Torque converter	✓		Windshield guard		✓
Brakes, full hydraulic enclosed wet-disc	✓		<b>LINKAGE</b>		
<b>HYDRAULICS</b>			Lift and bucket return-to-dig kickouts (electro- magnetic), mechanical adjustment	✓	
Dedicated load sensing steering pump	✓		Quick coupler control		✓
Ride control		✓	Z-bar, cast crosstube/tilt lever	✓	
3 <sup>rd</sup> function with additional dedicated single axis lever		✓			
Hoses, Cat XT™	✓				
S•O•S <sup>SM</sup> oil sampling valves	✓				

*Not all features are available in all regions. Please check with your local Cat dealer for specific offering availability in your area.  
For additional information, refer to the Technical Specifications brochures for the 950 GC model available at [www.cat.com](http://www.cat.com) or your Cat dealer.*

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## Technical Specifications

Engine		
Engine Model	Cat C7.1	
Maximum Power @ 1,700 rpm – SAE J1995	180 kW	241 hp
Maximum Power @ 1,700 rpm – ISO 14396	179 kW	240 hp
Maximum Power @ 1,700 rpm – ISO 14396 (metric)	243 hp	
Maximum Net Power @ 1,700 rpm – SAE J1349	168 kW	225 hp
Maximum Net Power @ 1,700 rpm – ISO 9249	168 kW	225 hp
Maximum Net Power @ 1,700 rpm – ISO 9249 (metric)	228 hp	
Peak Gross Torque (1,400 rpm) – SAE J1995	1099 N·m	811 lbf·ft
Peak Gross Torque (1,400 rpm) – ISO 14396	1092 N·m	805 lbf·ft
Bore	105 mm	4.13 in
Stroke	135 mm	5.31 in
Displacement	7.01 L	428 in³

- The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.9 kg (4.2 lb) of refrigerant which has a CO<sub>2</sub> equivalent of 2.717 metric tonnes (2.995 tons).

## Weights and Operating Specifications

Operating Weight	19 069 kg	42,040 lb
Tipping Load – Full Turn		
ISO 14397-1*	11 160 kg	24,604 lb
Rigid Tires**	11 906 kg	26,248 lb
Breakout Force	154 kN	34,638 lbf

- For 3.1 m<sup>3</sup> (4.0 yd<sup>3</sup>) general purpose bucket with BOCE. Weight based on a machine configuration with MAXAM MS302 23.5R25 L3 radial tires, full fluids, operator, standard counterweight, cold start, roading fenders, Product Link™, secondary steering, sound suppression.

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

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

## Sound

With Cooling Fan Speed at Maximum Value:		
Operator Sound Pressure Level (ISO 6396:2008)	75 dB(A)	
Exterior Sound Power Level (ISO 6395:2008)	109 dB(A)	
Exterior Sound Pressure Level (SAE J88:2013)	76 dB(A)*	
*Distance of 15 m (49.2 ft), moving forward in second gear ratio.		
With Cooling Fan Speed at 70% of Maximum Value:**		
Operator Sound Pressure Level (ISO 6396:2008)	73 dB(A)	
Exterior Sound Power Level	107 dB(A)***	

\*\*For machines in European Union countries and in countries that adopt the "EU Directives."

\*\*\*European Union Directive "2000/14/EC" as amended by "2005/88/EC."

## Transmission

Speed	km/h	mph	Speed	km/h	mph
Forward 1	7.3	4.5	Reverse 1	7.3	4.5
Forward 2	12.8	8	Reverse 2	12.8	8
Forward 3	22.8	14.2	Reverse 3	22.8	14.2
Forward 4	36	22.4			

- Maximum travel speed in standard vehicle with empty bucket and standard L3 tires with 760 mm (31.0 in) roll radius

## Service Refill Capacities

Fuel Tank	290 L	76.6 gal
DEF tank	16 L	4.2 gal
Cooling System	50 L	13.2 gal
Crankcase	18 L	4.8 gal
Transmission	45 L	11.9 gal
Differentials and Final Drives – Front	40 L	10.6 gal
Differentials and Final Drives – Rear	38 L	10 gal
Hydraulic Tank	112 L	29.6 gal

## Hydraulic System

Steering System Pump Type	Piston	
Implement System		
Maximum Pump Output @ 2,390 rpm	256 L/min	68 gal/min
Maximum Operating Pressure @ 50 ± 1.5 L/min (13.2 + 0.4 gal/min)	27 900 kPa	4,047 psi
Hydraulic Cycle Tie – Total Cycle Time	9.4 Seconds	

## Dimensions

Height to Top of Hood	2673 mm	8'9"
Height to Top of Exhaust Pipe	3416 mm	11'2"
Height to Top of ROPS	3458 mm	11'4"
Ground Clearance	460 mm	1'6"
B-Pin Height	4188 mm	13'9"
Center Line of Rear Axle to Edge of Counterweight Wheelbase	2055 mm	6'9"
Center Line of Rear Axle to Hitch	3300 mm	10'10"
Rack Back @ Maximum Lift	1650 mm	5'5"
Rack Back @ Carry	60 degrees	
Rack Back @ Ground	45 degrees	
Lift Arm Clearance	40 degrees	
	3649 mm	12'0"

- All dimensions are approximate and based on MAXAM MS302 23.5R25 L3 radial tires.



AEXQ2508-00 (2-2019)  
2019 Product Update

