



# 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 high power density with a combination of proven electronic, fuel, and air systems.
- Meets Brazil MAR-1, India Bharat Stage III, and China Nonroad Stage III emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA.
- Thorough component choice, design, and in-machine validation processes result in excellent 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) maximizes 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.
- 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 cab from the left-hand side and service points from the right-hand side.
- Operator station is equipped with handrails for cab accessibility.
- The main cab door opens to the front and provides wide access to the operator environment.
- Front and rear wipers ensure that a clear view is maintained.
- External rearview mirrors with integrated spot mirrors are standard.
- One large interior mirror is standard.

## 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.
- Hinged wheel guards are easy to remove/re-install, providing wide access to all maintenance points and to the engine compartment.
- Optional power train bottom guard protects the machine against damage to reduce downtime.
- 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 Payload 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 and calibration from your Cat dealer.

*\*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>HYDRAULICS</b>		
Air conditioning (HVAC) with 10 vents and filter unit located outside of cab	✓		Dedicated brake and fan gear pump	✓	
Bucket/work tool function lockout	✓		Dedicated load sensing steering pump	✓	
Cab, pressurized and sound suppressed	✓		Load sensing implement system pilot operated	✓	
Camera, rearview		✓	Quick coupler control		✓
Coat hook	✓		Ride control		✓
Computerized monitoring system	✓		S-O-S <sup>SM</sup> oil sampling valves	✓	
Cup holders and personal tray on right console	✓		3 <sup>rd</sup> function with additional dedicated single axis lever		✓
Doors, service access (locking)	✓		<b>ELECTRICAL</b>		
Heater and defroster	✓		Alarm, back-up/main disconnect switch	✓	
Horn	✓		Alternator (115-amp, brush type)	✓	
Mirrors, rearview internal and external	✓		Batteries, maintenance free (2x900 CCA)	✓	
Pilot hydraulic controls, lift and tilt function; two (2) single axis levers or joystick	✓		Ignition key; start/stop switch	✓	
12V power port (10A)	✓		Lighting system: 4 halogen work lights	✓	
Radio installation, complete		✓	Lighting system: 8 halogen work lights		✓
ROPS/FOPS structure	✓		Lighting system: 4 LED work lights		✓
Seat, Cat Comfort (cloth), mechanical suspension	✓		Lights: warning beacon		✓
Seat, air suspended		✓	Rooding lights with high/low beam and F and R turn signals		✓
Steering column, adjustable angle	✓		Starter, electric (heavy duty)	✓	
Steering, secondary, electrical		✓	Starting and charging system, 24V	✓	
Storage tray behind seat	✓		<b>ADDITIONAL EQUIPMENT</b>		
Window, sliding (left and right sides)	✓		Autolube system		✓
Wipers/washers (front and rear)	✓		Cold weather starting (batteries 2x1,400 CCA and ether starting aid)		✓
<b>POWER TRAIN</b>			Counterweight, 1800 kg	✓	
Brakes, full hydraulic enclosed wet-disc	✓		Differentials, limited slip		✓
Cat C7.1 Tier 3 equivalent	✓		Fenders (front and rear) steel	✓	
EIMS (Engine Idle Management System)	✓		Fender extensions or roading		✓
Fan, radiator, electronically controlled, hydraulically driven, temperature sensing, on demand	✓		Grill, airborne debris	✓	
Fan, reversing cooling, automatic and manual control		✓	Hitch, drawbar with pin	✓	
Filter, fuel primary/secondary/tertiary	✓		Hood, metallic panels on steel structure	✓	
Filters, engine air, primary/secondary	✓		L3 bias or radial tires	✓	
Fuel priming pump (manual)	✓		L5 traction tires		✓
Fuel/water separator	✓		Power train guard		✓
Muffler, sound suppressed	✓		Precleaner, turbine		✓
Radiator, unit core (9.5 fpi) with ATAAC	✓		Product Link™ ready		✓
Starting aid, glow plugs	✓		Toolbox		✓
Switch, transmission neutralizer lockout	✓		Windshield guard		✓
Torque converter	✓		<b>LINKAGE</b>		
Transmission, automatic, power shift (4F/3R), kick-down function, overspeed protection	✓		Fusion quick coupler control		✓
			Lift and bucket return-to-dig kickouts (electro-magnetic), mechanical adjustment	✓	
			Z-bar, fabricated crosstube/tilt lever	✓	

*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	
Rated Net Power @ 2,200 rpm – ISO 9249	151 kW	202 hp
Rated Gross Power @ 2,200 rpm – ISO 14396	168 kW	225 hp
Max Gross Power @ 2,000 rpm – ISO 14396	170 kW	228 hp
Max Gross Torque @ 1,400 rpm	1020 N·m	752 lbf·ft
Max Net Torque @ 1,300 rpm	931 N·m	687 lbf·ft
Bore	105 mm	4.13 in
Stroke	135 mm	5.31 in
Displacement	7.01 L	428 in³

• Net power available at the flywheel when the engine is equipped with fan, air cleaner, muffler, and alternator with engine speed at 2,200 rpm.

Weights and Operating Specifications		
Operating Weight	18 392 kg	40,547 lb
Tipping Load – Full Turn		
ISO 14397-1*	10 942 kg	24,123 lb
Rigid Tires**	11 638 kg	25,657 lb
Breakout Force	154 kN	34,623 lbf
• For 3.1 m³ (4.0 yd³) general purpose bucket with BOCE.		
*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)	75 dB(A)	
Exterior Sound Power Level (ISO 6395)	108 dB(A)	
With Cooling Fan Speed at 70% of Maximum Value:*		
Operator Sound Pressure Level (ISO 6396)	75 dB(A)	
Exterior Sound Power Level	106 L <sub>WA</sub> **	
*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	7.0	4.3	Reverse 1	7.0	4.3
Forward 2	12.5	7.8	Reverse 2	12.5	7.8
Forward 3	22.0	13.7	Reverse 3	22.0	13.7
Forward 4	36.0	22.4			

- Maximum travel speeds (23.5-25 tires).
- Maximum travel speed in standard vehicle with empty bucket and standard L3 tires with 760 mm (30 in) roll radius.

Service Refill Capacities		
Fuel Tank	290 L	76.6 gal
Cooling System	48 L	12.7 gal
Crankcase	20 L	5.3 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	120 L	31.7 gal

Hydraulic System		
Steering System Pump Type	Piston	
Implement System		
Maximum Pump Output @ 2,200 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
Optional 3rd Function Maximum Pressure @ 70 L/min (18.5 gal/min)	20 680 kPa	2,999 psi
Optional 3rd Function Maximum Flow	240 L/min	63 gal/min
Hydraulic Cycle Time		
Raise from Carry Position	6.1 Seconds	
Dump at Maximum Raise	1.2 Seconds	
Lower, Empty, Float Down	2.8 Seconds	
Total Cycle Time	10.1 Seconds	

Tires	
Choices include:	
23.5-25 16PR, L3 (Triangle)	
23.5R25 **, L3 (Triangle and Maxam)	
23.5R25 *, L3 (Bridgestone)	
23.5R25, L5 (Triangle, Maxam, and Bridgestone)	

Cab	
ROPS/FOPS	ROPS/FOPS meet ISO 3471:2008 and ISO 3449:2005 Level II standards

Brakes	
Brakes	Brakes meet ISO 3450:2011 standards

Dimensions		
Height to Top of Hood	2568 mm	8'5"
Height to Top of Exhaust Pipe	3596 mm	11'10"
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	2001 mm	6'6"
Wheelbase	3300 mm	10'10"
Center Line of Rear Axle to Hitch	1650 mm	5'5"
Rack Back @ Maximum Lift	60 degrees	
Rack Back @ Carry	45 degrees	
Rack Back @ Ground	40 degrees	
Lift Arm Clearance	3649 mm	12'0"



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