



# Cat<sup>®</sup> 966 GC

## Wheel Loader

***The new Cat<sup>®</sup> 966 GC Wheel Loader is easy to own and operate. It offers low fuel consumption with an on-demand fan, load-sensing hydraulics, intuitive controls and performance series buckets. This machine is built to be just the right machine for a broad range of applications. Great machine performance combined with the low owning and operating costs makes the 966 GC the right choice for your business.***

### **Proven Reliability**

- Cat C9.3B engine offers high power density with a combination of proven and improved electronic, fuel, and air systems.
- Engine meets China Nonroad Stage III and Brazil MAR-1 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.
- Advansys™ GET system features stronger adapters; tips with a new shape to better protect the adapter and an integrated retainer.

### **Achieve Greater Productivity**

- The proven Cat Z-bar linkage geometry with Performance Series Buckets offer excellent penetration into the pile and high breakout forces. This results in low fuel consumption and exceptional production capabilities.
- Cat designed, electronically controlled, automatic powershift heavy duty planetary transmission features shift protection and single clutch gear shifting for efficiency, durability, and smooth gear changes.
- Optional Fusion™ quick-coupler and third hydraulic function can make the machine a versatile tool carrier for buckets, grapples or forks.

### **Superior Fuel Efficiency**

- Engine Idle Management System (EIMS) reduces idle RPM and fuel consumption.
- Variable speed fan adjusts to meet the varying cooling requirements of the machine resulting in a reduced average fan speed and lowered 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.

### **Easy, Comfortable Operator Environment**

- The spacious cab features easy, intuitive controls and excellent visibility which provides a comfortable working environment for efficient operation.
- A comfortable cloth covered suspension (mechanical) seat is standard, an optional air suspended seat is available.
- 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.
- 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.
- Sliding side windows on both sides allow natural ventilation and easy communication to ground staff.
- The cab roof has channels which direct rain off the corners of the cab, keeping windows clear.
- Air conditioning and heating systems are standard. Ten louvered vents allow the operator to direct the air flow to remain productive and efficient all shift long.
- Optional windshield guard.



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## Safety Features

- Ladders are standard on both sides of the machine; the main cab access features a 15-degree angle to easily access the operator environment.
- Steps are equipped with hand and/or guardrails to safely access the cab and maintenance points of the machine.
- 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 enhance visibility behind the machine.

## 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 service center, 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 reduced downtime.
- Optional 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.

*\*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 piston pump	✓	
Bucket/work tool function lockout	✓		Dedicated load sensing steering pump	✓	
Switch, transmission neutralizer lockout	✓		Load sensing implement system pilot operated	✓	
Cab, pressurized and sound suppressed	✓		Quick coupler control		✓
Camera, rearview	✓		Ride control		✓
Coat hook	✓		S O-S <sup>SM</sup> oil sampling valves	✓	
Computerized monitoring system	✓		3 <sup>rd</sup> function with additional dedicated single axis lever		✓
Cup holders and personal tray on right console and behind seat	✓		<b>ELECTRICAL</b>		
Heater and defroster	✓		Alarm, back-up/main disconnect switch	✓	
Horn	✓		Alternator (115-amp, brush type)	✓	
Mirrors, rearview external	✓		Batteries, maintenance free (2×1,125 CCA)	✓	
Pilot hydraulic controls, lift and tilt function; two (2) single axis levers or joystick	✓		Ignition key; start/stop	✓	
12V power port (10A)	✓		Lighting system: 4 halogen work lights, cab mounted	✓	
Radio ready	✓		Lighting system: 8 halogen work lights, cab mounted		✓
Radio		✓	Lighting system: 4 LED work lights, cab mounted		✓
ROPS/FOPS structure	✓		Lights: warning beacon		✓
Seat, Cat Comfort (cloth), mechanical suspension	✓		Lighting system: 2 halogen work lights, loader tower mounted	✓	
Seat, air suspended		✓	Roading 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	✓	
Window, sliding (left and right sides)	✓		<b>ADDITIONAL EQUIPMENT</b>		
Wipers/washers (front and rear)	✓		Autolube system		✓
<b>POWER TRAIN</b>			Cold weather starting basic (ether starting aid)		✓
Brakes, full hydraulic enclosed wet-disc	✓		Cold weather starting full (HD batteries 2×1,400 CCA, ether system, jacket water heater, cold weather fluids)		✓
Cat C9.3B equivalent to Tier 3	✓		Counterweight, 700 kg (1,545 lb)	✓	
EIMS (Engine Idle Management System)	✓		Fenders (front and rear) steel	✓	
Fan, radiator, electronically controlled, hydraulically driven, temperature sensing, on demand	✓		Fender extensions or roading		✓
Fan, reversing automatic and manual control		✓	Grill, airborne debris	✓	
Filter, fuel primary/secondary/tertiary	✓		Hitch, drawbar with pin	✓	
Filters, engine air, primary/secondary	✓		Hood, non-metallic on steel structure	✓	
Fuel priming pump (electric)	✓		Doors, service access (locking)	✓	
Fuel/water separator	✓		L3 bias or radial tires	✓	
Muffler, sound suppressed	✓		L5 traction tires		✓
Radiator, unit core (9.5 fpi) with ATAAC	✓		Power train guard		✓
Torque converter	✓		Precleaner, turbine		✓
Transmission, automatic, power shift (4F/4R), kick-down function, overspeed protection	✓		Product Link™ ready	✓	
<b>LINKAGE</b>			Toolbox		✓
Fusion quick coupler control		✓	Windshield guard		✓
Lift and bucket return-to-dig kickouts (electro-magnetic), mechanical adjustment	✓				
Z-bar, cast 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 mod-el available at [www.cat.com](http://www.cat.com) or your Cat dealer.

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## Technical Specifications

### Engine

Engine Model	Cat C9.3B	
Rated Net Power @ 2,200 rpm – ISO 9249	196 kW	263 hp
Rated Gross Power @ 2,200 rpm – ISO 14396	219 kW	294 hp
Max Gross Power @ 1,600 rpm – ISO 14396	239 kW	321 hp
Max Gross Torque @ 1,200 rpm – ISO 14396	1779 N·m	1,312 lbf·ft
Max Net Torque @ 1,200 rpm – ISO 14396	1671 N·m	1,233 lbf·ft
Bore – ISO 9249	115 mm	4.53 in
Stroke	149 mm	5.87 in
Displacement	9.30 L	568 in <sup>3</sup>

### Weights and Operating Specifications

Operating Weight	21 577 kg	47,569 lb
Tipping Load – Full Turn		
ISO 14397-1:2007*	13 594 kg	29,970 lb
Rigid Tires**	14 568 kg	32,117 lb
Breakout Force	164 kN	36,869 lbf

• For 4.0 m<sup>3</sup> (5.2 yd<sup>3</sup>) 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 6396:2008)	75 dB(A)
Exterior Sound Power Level (ISO 6395:2008)	110 dB(A)

With Cooling Fan Speed at 70% of Maximum Value:\*

Operator Sound Pressure Level (ISO 6396:2008)	75 dB(A)
Exterior Sound Power Level	108 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

Forward 1	6.4 km/h	4.0 mph	Reverse 1	7.0 km/h	4.3 mph
Forward 2	12.1 km/h	7.5 mph	Reverse 2	13.2 km/h	8.2 mph
Forward 3	21.0 km/h	13.0 mph	Reverse 3	23.0 km/h	14.3 mph
Forward 4	34.8 km/h	21.6 mph	Reverse 4	36.9 km/h	22.9 mph

• Maximum travel speeds (26.5R25 tires).

• Maximum travel speed in standard vehicle with empty bucket and standard L3 tires with 825 mm (32.5 in) roll radius.

### Service Refill Capacities

Fuel Tank	320 L	84.5 gal
Cooling System	53 L	14.0 gal
Crankcase	25 L	6.6 gal
Transmission	55 L	14.5 gal
Differentials and Final Drives – Front	57 L	15.1 gal
Differentials and Final Drives – Rear	57 L	15.1 gal
Hydraulic Tank	120 L	31.7 gal

### Hydraulic System

Steering System Pump Type	Piston	
Implement System		
Maximum Flow @ 2,200 rpm	320 L/min	85 gal/min
Maximum Operating Pressure	27 900 kPa	4,047 psi
Maximum Flow 3 <sup>rd</sup> Function	320 L/min	85 gal/min
Maximum Operating Pressure 3 <sup>rd</sup> Function	23 500 kPa	3,408 psi
Hydraulic Cycle Time		
Raise from Carry Position	6.5 Seconds	
Dump at Maximum Raise	2.7 Seconds	
Lower, Empty, Float Down	2.8 Seconds	
Total Cycle Time	12.0 Seconds	

### Tires

Choices include:

Triangle 26.5-25 20PR L3 (TL612)
Triangle 26.5R25 ** L3 (TB516)
Maxam 26.5R25 ** L3 (MS302)
Bridgestone 26.5R25 * L3 (VJT)
Maxam 26.5R25 ** L5 (MS503)
Bridgestone 26.5R25 * L5 (VSDT)
Triangle 26.5R25 ** L5 (TL538S+)

### Cab

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

Brakes	Brakes meet ISO 3450:2011 standards
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### Dimensions

Height to Top of Hood	2804 mm	9'2"
Height to Top of Exhaust Pipe	3539 mm	11'6"
Height to Top of ROPS	3582 mm	11'8"
Ground Clearance	455 mm	1'5"
B-Pin Height	4256 mm	14'0"
Center Line of Rear Axle to Edge of Counterweight	2453 mm	8'0"
Wheelbase	3550 mm	11'8"
Center Line of Rear Axle to Hitch	1775 mm	5'7"
Rack Back @ Maximum Lift	62 degrees	
Rack Back @ Carry	50 degrees	
Rack Back @ Ground	42 degrees	
Lift Arm Clearance	3705 mm	12'2"



For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at [www.cat.com](http://www.cat.com)

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