

Product Specifications For 966 GC



Engine

Engine Power @ 1,600 rpm - ISO 14396:2002	321 hp
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Engine Model	Cat C9.3B
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Gross Power @ 1,600 rpm - SAE J1995:2014	325 hp
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Net Power @ 1,600 rpm - ISO 9249:2007, SAE J1349:2011	292 hp
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Net Power - ISO 9249	292 hp
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Engine Torque @ 1,200 rpm - ISO 14396:2002	1314 ft·lbf
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Gross Torque @ 1,200 rpm – SAE J1995:2014	1327 ft·lbf
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Net Torque @ 1,200 rpm - ISO 9249:2007, SAE J1349:2011	1234 ft·lbf
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Bore - ISO 9249	4.53 in
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Stroke	5.87 in
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Displacement	568 in ³
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Note (1)	Cat engine meets U.S. EPA Tier 4 Final, EU Stage V, Korea Tier 5, China Nonroad Stage IV, and Japan 2014 (Tier 4 Final) emission standards.
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Note (2)	The net power advertised is the power available at the flywheel when the engine is equipped with fan, alternator, air cleaner, and aftertreatment.
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Note (3)

Cat engines are compatible with the following renewable, alternative, and biodiesel* fuels that reduce greenhouse gases on a lifecycle basis: • Up to B20 biodiesel (FAME) ** • Up to 100% HVO and GTL renewable fuels

Weights

Operating Weight*

48018 lb

Note (1)

* For 4 m³ (5.2 yd³) general purpose bucket with BOCE.

Note (2)

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

Operating Specifications

**Static Tipping Load - Full 37° Turn
- With Tire Deflection**

30072 lb

**Static Tipping Load - Full 37° Turn
- No Tire Deflection**

32233 lb

Breakout Force

36974 lbf

Note (1)

* For 4 m³ (5.2 yd³) general purpose bucket with BOCE.

Note (2)

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

Buckets

Bucket Capacities

3.2 - 7.1 m³ (4.25 - 9.25 yd³)

Sound

**With Cooling Fan Speed at Maximum Value -
Operator Sound Pressure Level (ISO 6396:2008)**

75 dB(A)

**With Cooling Fan Speed at Maximum Value -
Exterior Sound Power Level (ISO 6395:2008)**

110 dB(A)

**With Cooling Fan Speed at Maximum Value -
Exterior Sound Pressure Level (SAE J88:2013)**

78 dB(A)*

Note (1)

*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)

**With Cooling Fan Speed at 70% of Maximum Value
- Exterior Sound Power Level (ISO 6395:2008)****

108 dB(A)***

Note (2)

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

Note (3)

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

Transmission

Forward - 1 4 mile/h

Reverse - 1 4.3 mile/h

Forward - 2 7.5 mile/h

Reverse - 2 8.2 mile/h

Forward - 3 13 mile/h

Reverse - 3 14.3 mile/h

Forward - 4 21.6 mile/h

Reverse - 4 22.9 mile/h

Note

Maximum travel speed in standard vehicle with empty bucket and standard L3 tires with 826 mm (32 in) roll radius.

Service Refill Capacities

Fuel Tank	84.5 gal (US)
DEF Tank	6.9 gal (US)
Cooling System	14 gal (US)
Crankcase	6.1 gal (US)
Transmission	14.5 gal (US)
Differential - Final Drives - Front	15.1 gal (US)
Differential - Final Drives - Rear	15.1 gal (US)
Hydraulic Tank	26.7 gal (US)

Hydraulic System

Implement Pump Type	Variable Displacement Piston, Load Sensing
Implement System - Maximum Flow @ 2,275 rpm	86 gal/min
Implement System - Maximum Operating Pressure	4047 psi
Implement System - Maximum Flow 3rd Function	63 gal/min
Implement System - Maximum Operating Pressure 3rd Function	3304 psi
Hydraulic Cycle Time - Raise from Carry Position	5.7 s
Hydraulic Cycle Time - Lower, Empty, Float Down	2.6 s
Hydraulic Cycle Time - Total Cycle Time	10.1 s

Loader Hydraulic System

Hydraulic Cycle Time - Dump, at Maximum Raise	1.8 s
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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 - Top of Hood	9.2 ft
Height - Top of Exhaust Pipe	11.61 ft
B-Pin Height	13.11 ft
Height - Top of ROPS	11.75 ft
Centerline of Rear Axle to Edge of Counterweight	8.1 ft
Ground Clearance	1.49 ft
Wheel Base	11.65 ft
Centerline of Rear Axle to Hitch	5.82 ft
Rack Back - Maximum Lift	62 °
Rack Back - Carry	50 °
Rack Back - Ground	42 °
Lift Arm Clearance	12.16 ft

Sustainability

Recyclability	97%
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966 GC Standard Equipment

NOTE

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

OPERATOR ENVIRONMENT

Air conditioning (HVAC) with 10 vents and filter unit located outside of cab
Bucket/work tool function lockout
Switch, transmission neutralizer lockout
Cab, pressurized and sound suppressed
Camera, rearview
Coat hook
Computerized monitoring system
Cup holders and personal tray on right console and behind seat
Horn
Mirrors, rearview external with integrated spot mirror
Pilot hydraulic controls, lift and tilt function; two (2) single axis levers or joystick
12V power port (10A)
Radio ready
ROPS/FOPS structure
Seat, Cat Comfort (cloth), mechanical suspension
Steering column, adjustable angle
Window, sliding (left and right sides)
Wipers/washers (front and rear)

POWER TRAIN

Axels, Open/Open differentials
Brakes, full hydraulic enclosed wet-disc
Cat C9.3B engine
EIMS (Engine Idle Management System)
AIS (Auto Idle Shutdown)
Fan, radiator, electronically controlled, hydraulically driven, temperature sensing, on demand
Fan, reversing automatic and manual control
Filter, fuel primary/secondary/tertiary
Filters, engine air, primary/secondary
Fuel priming pump (electric)
Fuel/water separator
Radiator, unit core (9.5 fpi) with ATAAC
Torque converter
Transmission, powershift (4F/4R), automatic (2-4) with kick-down function, overspeed protection

LINKAGE

Lift and bucket return-to-dig kickouts (electro-magnetic), mechanical adjustment
Z-bar, cast tilt lever

HYDRAULICS

Dedicated brake and fan pump

Dedicated load sensing steering pump
Load sensing implement system pilot operated
S O S SM oil sampling valves

ELECTRICAL

Alarm, back-up variable/main disconnect switch
Alternator (145-amp, brush type)
Batteries, maintenance free (2 x 1,125 CCA)
Ignition key; start/stop
Lighting system: 4 halogen work lights, cab mounted
Roading lights with high/low beam and F and R turn signals
Starter, electric (heavy duty)
Starting and charging system, 24V

ADDITIONAL EQUIPMENT

Cold weather starting basic (ether starting aid)
Counterweight, 605 kg (1,334 lb)
Fenders (front) steel
Grill, airborne debris
Hitch, drawbar with pin
Hood, metallic on steel structure
Doors, service access (locking)
L3 radial or bias ply tires
Precleaner, strata tubes
Product Link™ ready

966 GC Optional Equipment

NOTE

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

OPERATOR ENVIRONMENT

Cat® Payload (kit)
Radio
Seat, air suspended

POWER TRAIN

Axles, limited slip differential(s)
Axles, oil cooler
Fan, reversing automatic and manual control

LINKAGE

Fusion™ quick coupler control with dual kick outs

HYDRAULICS

Quick coupler control
Ride control
3rd function with additional dedicated single axis lever

ELECTRICAL

Lighting system: 8 halogen work lights, cab mounted
Lighting system: 4 LED work lights, cab mounted
Lighting system: 8 LED work lights, cab mounted
Lights: warning beacon

ADDITIONAL EQUIPMENT

Autolube system
Camera, front view (kit)**
Cold weather starting full (HD batteries 2 x 1,400 CCA, ether system, jacket water heater, cold weather fluids)
Fender rear extensions or roading
L5 traction tires
Power train guard
Precleaner, strata tubes with screen
Precleaner, strata tubes with screen
Reverse Strobe (kit)***
Roading Certification****
Secondary steering system, electrical*
Toolbox
Window cleaning (kit)
Windshield guard

OPTIONAL EQUIPMENT - NOTE

* Standard where mandated
** Refer to M0106413 publication for usage requirements.
*** Not compatible with roading arrangements.
**** Offering depends on region.