## **PRODUCT SPECIFICATIONS FOR 966**

Engine Power @ 1,600 rpm - ISO 14396:2002	321 HP
Gross Power @ 1,600 rpm - SAE J1995:2014	325 HP
Engine Model	Cat C9.3B
Net Power @ 1,600 rpm - ISO 9249:2007, SAE J1349:2011	303 HP
Note (1)	Cat engine meets U.S. EPA Tier 4 Final, EU Stage V, Korea Tier 4 Final, and Japan 2014 emission standards.
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.
Net Torque @ 1,200 rpm - ISO 9249:2007, SAE J1349:2011	1255 ft-lb
Engine Torque @ 1,200 rpm – ISO 14396:2002	1313 lb/ft
Gross Torque @ 1,200 rpm – SAE J1995:2014	1327 lb/ft
Note (3)	Cat engines are compatible with the following renewable, alternative, andbio-fuels* with lower greenhouse gas emission impact: Up to B20 biodiesel (FAME) ** Up to 100% HVO and GTL renewable fuels* Refer to guidelines for successful application. Please consult your Catdealer or Caterpillar Machine Fluids Recommendations (SEBU6250) fordetails.** For use of higher blends, consult your Cat dealer.
Displacement	9.3 L

Operating Weight	51124 lb		
Note	Weight based on a machine configuration with Bridgestone 29.5R25 VSNT L4 radial tires, full fluids, operator, standard counterweight, ride control cold start, roading fenders, Product Link, open differential axles (front/rear), secondary steering, sound suppression, and a 5.4 m³ (7.1 yd³) general purpose bucket with BOCE.		
Forward - 1	4.2 mile/h		
Forward - 2	8.4 mile/h		
Forward - 3	15 mile/h		
Forward - 4	24.5 mile/h		
Note	Maximum travel speed in standard vehicle with empty bucket and standard L3 tires with 849 mm (33 in) roll radius.		
Reverse - 1	4.5 mile/h		
Reverse - 2	9.2 mile/h		
Reverse - 3	16.5 mile/h		
Reverse - 4	24.5 mile/h		
Note (1)	** For machines in European Union countries and in countries that adopt the EU Directives.		
Note (2)	***European Union Directive 2000/14/EC as amended by 2005/88/EC.		
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With Cooling Fan Speed at 70% of Maximum Value - Exterior Sound Power Level*	108
With Cooling Fan Speed at 70% of Maximum Value - Operator Sound Pressure Level (ISO 6396:2008)	69 dB(A)
With Cooling Fan Speed at Maximum Speed - Exterior Sound Power Level (ISO 6395:2008)	109 dB(A)
With Cooling Fan Speed at Maximum Speed - Exterior Sound Pressure Level (SAE J88:2013)	76
With Cooling Fan Speed at Maximum Speed - Operator Sound Pressure Level (ISO 6396:2008)	70 dB(A)
With Cooling Fan Speed at Maximum Value - Note	Distance of 15 m (49.2 ft), moving forward in second gear ratio.

Air	The air conditioning system on this machine contains the fluorinated			
Conditioning	greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The			
	system contains 1.6 kg (3.5 lb) of refrigerant which has a CO2 equivalent 2.288			
	metric tonnes (2.522 tons).			

Breakout Force	38999 lb
Note (1)	For a machine configuration as defined under Weight.
Note (2)	Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing.
Static Tipping Load - Full 40° Turn - No Tire Deflection	15981 kg
Static Tipping Load - Full 40° Turn - With Tire Deflection	32727 lb

Cooling System		17.4 gal (US)	
Crankcase		6.1 gal (US)	
DEF Tank		6.9 gal (US)	
Differential - Final	l Drives - Front	15.1 gal (US)	
Differential - Fina	l Drives - Rear	15.1 gal (US)	
Fuel Tank		80.1 gal (US)	
Hydraulic Tank		30.1 gal (US)	
Transmission		15.5 gal (US)	
Implement System - Maximum Operating Pressure 4496 psi			
Implement System - Maximum Pump Output at 2,250 rpm		99 gal/min	
Hydraulic Cycle Time - Total		10.1 seconds	
Note	All dimensions are approximate and based on machine equipped with 5.4 m3 (7.1 yd3) general purpose bucket with BOCE and Bridgestone 29.5R25 VSNT L4 radial tires.		

Centerline of Rear Axle to Edge of Counterweight	8.1 ft
Centerline of Rear Axle to Hitch	5.1 ft
Ground Clearance	1.4 ft
Height - Top of Exhaust Pipe	11.8 ft

Height - Top of Hood	9.5 ft
Height - Top of ROPS	11.1 ft
Hinge Pin Height at Carry	2.6 ft
Hinge Pin Height at Maximum Lift	15.9 ft
Lift Arm Clearance at Maximum Lift	13.8 ft
Overall Length - Without Bucket	26.6 ft
Tread Width	7.3 ft
Wheel Base	11.8 ft
Rack Back - Carry Height	49 degrees
Rack Back - Maximum Lift	71 degrees
Width over Tires (Loaded)	9.11 ft
Rack Back at Ground	37 degrees
Centerline of Rear Axle to Edge of Counterweight	7.7 ft
Centerline of Rear Axle to Hitch	5.1 ft
Ground Clearance	424 mm
Height - Top of Exhaust Pipe	3531 mm
Height - Top of Hood	2850 mm
Height - Top of ROPS	3593 mm

Hinge Pin Height at Carry		2 ft
Hinge Pin Height at Maximum Lift		4245 mm
Lift Arm Clearance at Maximum Lift		3687 mm
Overall Length - Without Bucket		7399 mm
Tread Width		7.3 ft
Wheel Base		3550 mm
Rack Back - Carry Height		50 degrees
Width over Tires (Loaded)		9.11 ft
Rack Back - Maximum Lift		62 degrees
Rack Back at Ground		39 degrees
Bucket Range	2.8-11.9 m³ 3.75-15.5 yd³	

## 966 STANDARD EQUIPMENT OPERATOR ENVIRONMENT

Cab, pressurized, sound suppression
EH implement controls, parking brake
Steering, joystick
Seat, cloth, air suspension
Touchscreen display
Visibility: mirrors, rear-vision camera
Air conditioner, heater, defroster (auto temp, fan)

Sun visor, front, retractable Sun visor, rear, retractable Window cleaning platform, front Window, front, laminated

## **ON-BOARD TECHNOLOGIES**

Cat Payload scale
Autodig with Auto Set Tires
Operator ID & machine security
Application Profiles
Job Aids
Controls Help and eOMM

## **POWER TRAIN**

Cat C9.3B engine
Electric fuel priming pump
Fuel-water separator and secondary fuel filter
Engine, air precleaner
Axles, front differential lock
Transmission. planetary, automatic powershift

Torque converter with lock-up

Service brakes, hydraulic, fully enclosed wet disc, wear indicators

Integrated Braking System (IBS)

Park brake, caliper on front axles, spring applied-pressure released

## **HYDRAULICS**

Implement system, load sensing with variable displacement piston pump
Steering system, load sensing with dedicated variable displacement piston pump
Ride control, dual accumulators

Oil sampling valves, Cat XT™ hoses

#### **ELECTRICAL**

Starting and charging system, 24V

Starter, electric, heavy duty

Lights: halogen, 4 work lights, 2 front roading lights with turn signals, 2 rearvision lights

## **MONITORING SYSTEM**

Front dash with analog gauges, LCD display, and warning lights Primary touchscreen monitor (Cat Payload, quad screens, machine settings & messages)

## **LINKAGE**

Standard lift, Z-bar Kickouts: lift and tilt

# 966 OPTIONAL EQUIPMENT OPERATOR ENVIRONMENT

Door, remote opening system HMU steering wheel

Entertainment radio (FM, AM, USB, BT)

Entertainment radio (DAB+)

CB radio ready

Seat, suede/cloth, air suspension, heated

Seat, leather/cloth, air suspension, heated/ cooled

Multiview (360�) vision system

Cat Detect rear radar system

Dedicated rearview screen

Mirrors, heated

Full cab window guard

## **ON-BOARD TECHNOLOGIES**

Cat Advanced Payload

Cat Payload Printer

## **POWER TRAIN**

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Turbine, air precleaner

Radiator, high debris

Cooling fan, reversible

Axles, auto differential locks front and rear

Axles, ecology drains, AOC ready, extreme temperature seals

Axles, oil cooler

#### **HYDRAULICS**

3rd and 4th auxiliary functions with ride control

Quick coupler control

#### **ELECTRICAL**

Cold start, 120V or 240V

Lights: LED

Warning beacon

## **MONITORING SYSTEM**

Reversing strobe lights

### LINKAGE

High lift, Z-bar

## **ADDITIONAL EQUIPMENT**

Cat Autolube system

Fenders, extensions or roading

Guards: power train, crankcase, cab, cylinders, rear

Biodegradable hydraulic oil

High-speed oil change system

Rear cab access

Toolbox

Wheel chocks

Secondary steering system, electrical

## SPECIAL CONFIGURATIONS

Aggregate handler

Waste and industrial

Forestry

Tunnelling

Corrosion resistant