

Product Specifications For 972



Engine

Engine Power - 1,600 rpm ISO 14396:2002	253 kW
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Engine Power - 1,600 rpm ISO 14396:2002	344 hp (metric)
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Engine Model	Cat® C9.3B
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Gross Power - 1,600 rpm SAE J1995:2014	256 kW
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Gross Power - 1,600 rpm SAE J1995:2014	348 hp (metric)
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Net Power - 1,600 rpm ISO 9249:2007, SAE J1349:2011	239 kW
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Net Power - 1,600 rpm ISO 9249:2007, SAE J1349:2011	326 hp (metric)
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Engine Torque - 1,200 rpm ISO 14396:2002	1864 N·m
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Gross Torque - 1,200 rpm SAE J1995:2014	1882 hp
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Net Torque - 1,200 rpm ISO 9249:2007, SAE J1349:2011	1785 N·m
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Displacement	9.3 l
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Emissions	Meets Brazil MAR-1 emission standards, equivalent to U.S. EPA Tier 3, EU Stage IIIA, and China Nonroad Stage III.
Biodiesel Capability	Up to B20 ¹
Note (1)	The net power advertised is the power available at the flywheel when the engine is equipped with fan, alternator, air cleaner, and muffler.
Note (2)	¹Cat engines are compatible with diesel fuel blended with following lower carbon intensity fuels up to: • 100% biodiesel FAME (fatty acid methyl ester)* • 100% renewable diesel, HVO (hydrogenated vegetable oil) and GTL (gas-to-liquid) fuels Refer to guidelines for successful application. Please consult your Cat dealer or “Caterpillar Machine Fluids Recommendations” (SEBU6250) for details. *For use of blends higher than 20% biodiesel, consult your Cat dealer. **Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.
Gross Torque @ 1,200 rpm – SAE J1995:2014	1799 N·m
Displacement	9.3 L
Note (3)	Cat engines are compatible with diesel fuel blended with following lowercarbon intensity fuels up to: • 100% biodiesel FAME (fatty acid methyl ester)* • 100% renewable diesel, HVO (hydrogenated vegetable oil) and GTL (gas-to- liquid) fuels Refer to guidelines for successful application. Please consult your Cat dealer or “Caterpillar Machine Fluids Recommendations” (SEBU6250) for details. * For use of blends higher than 20% biodiesel, consult your Cat dealer.
Engine Torque @ 1,200 rpm – ISO 14396:2002	1781 N·m

Weights

Operating Weight	24890 kg
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Note

Weight based on a machine configuration with Bridgestone 26.5R25 VJT L3 radial tires, full fluids, operator, standard counterweight, ride control, cold start, roading fenders, Product Link™, front manual differential/open rear axles, powertrain guard, secondary steering, sound suppression, and a 4.8 m³ (6.25 yd³) general purpose bucket with BOCE.

Transmission

Forward - 1

6.7 km/h

Forward - 2

13.4 km/h

Forward - 3

24.1 km/h

Forward - 4

39.5 km/h

Reverse - 1

7.3 km/h

Reverse - 2

14.8 km/h

Reverse - 3

26.6 km/h

Reverse - 4

39.5 km/h

Note

Maximum travel speed in standard vehicle with empty bucket and standard L3 tires with 849 mm (33 in) roll radius.

Sound

**Operator Sound Pressure Level -
ISO 6396:2008**

72 dB(A)

**Exterior Sound Power Level - ISO
6395:2008**

109 dB(A)

**Operator Sound Pressure Level -
ISO 6396:2008 ¹**

69 dB(A)

**Exterior Sound Power Level - ISO
6395:2008²**

108 dB(A)

Note (1)	¹ Including countries that adopt the EU and UK Directives.
Note (2)	² Exterior Sound Power Level - European Union Directive 2000/14/EC and UK Noise Regulation 2001 No. 1701.
With Cooling Fan Speed at Maximum Value - Note	Distance of 15 m (49.2 ft), moving forward in second gear ratio.

Air Conditioning System

Air Conditioning	The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a or R1234yf. See the label or instruction manual for identification of the gas. - If equipped with R134a (Global Warming Potential = 1430), the system contains 1.600 kg (3.5 lb) of refrigerant which has a CO2 equivalent of 2.288 metric tonnes (2.522 tons). - If equipped with R1234yf (Global Warming Potential = 0.501), the system contains 1.389 kg (3.1 lb) of refrigerant which has a CO2 equivalent of 0.69 metric tonnes (1.10 tons).
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Operating Specifications

Static Tipping Load - Full 37° Turn	16297 kg
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Static Tipping Load - Full 37° Turn - No Tire Deflection	17505 kg
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Breakout Force	196 kN
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Note (1)	For a machine configuration as defined under “Weight.”
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Note (2)	Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing.
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Service Refill Capacities

Fuel Tank	303 l
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DEF Tank	26 l
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Cooling System	66 l
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Crankcase	23 l
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Transmission	58.5 l
Differential - Final Drives - Front	57 l
Differential - Final Drives - Rear	57 l
Hydraulic Tank	114 l

Hydraulic System

Implement System - Maximum Pump Output at 2,275 rpm	373 L/min
Implement System - Maximum Operating Pressure	31000 kPa
Hydraulic Cycle Time - Total	10.7 s
Hydraulic Cycle Time - Total	10.1 seconds

Dimensions - Standard Lift

Height - Top of Hood	2846 mm
Height - Top of ROPS	3589 mm
Ground Clearance	420 mm
Wheel Base	3550 mm
Overall Length - Without Bucket	7731 mm
Hinge Pin Height at Carry Height	682 mm
Hinge Pin Height at Maximum Lift	4464 mm
Lift Arm Clearance at Maximum Lift	3842 mm

Rack Back - Maximum Lift	56 °
Rack Back - Carry Height	49 °
Width over Tires (Loaded)	3011 mm
Tread Width	2230 mm
Note	All dimensions are approximate and based on machine equipped with 4.8 m³ (6.25 yd³) general purpose bucket with BOCE and Bridgestone 26.5R25 VJT L3 radial tires.
Rack Back at Ground	40 degrees
Rack Back - Carry Height	50 degrees
Rack Back - Maximum Lift	62 degrees

Dimensions - High Lift

Height - Top of Hood	2846 mm
Height - Top of ROPS	3589 mm
Ground Clearance	420 mm
Wheel Base	3550 mm
Overall Length - Without Bucket	8069 mm
Hinge Pin Height at Carry Height	780 mm

Hinge Pin Height at Maximum Lift	4800 mm
Lift Arm Clearance at Maximum Lift	4179 mm
Rack Back - Maximum Lift	71 °
Rack Back - Carry Height	49 °
Width over Tires (Loaded)	3011 mm
Tread Width	2230 mm
Note	All dimensions are approximate and based on machine equipped with 4.8 m³ (6.25 yd³) general purpose bucket with BOCE and Bridgestone 26.5R25 VJT L3 radial tires.
Rack Back at Ground	37 degrees
Rack Back - Carry Height	49 degrees
Rack Back - Maximum Lift	71 degrees

972 Standard Equipment

NOTE

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

OPERATOR ENVIRONMENT

Cab, pressurized, sound suppression
 EH implement controls, parking brake
 HMU steering wheel
 Seat, cloth, air suspension
 Touchscreen display
 Keypad, programmable buttons

Air conditioner, heater, defroster (auto temp, fan)

Sun visor, front, retractable

Windows, front, laminated

POWERTRAIN

Cat® C9.3B engine

Electric fuel priming pump

Fuel-water separator and secondary fuel filter

Engine, air precleaner

Axles, open/open differentials

Axles, auto 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

Brake pedal neutralizer with decel function

ELECTRICAL

Starting and charging system, 24V

Starter, electric, heavy duty

Lights: halogen, 4 work lights, 2 front tower lights, 2 rearview lights

HYDRAULICS

Implement system, load sensing with variable displacement piston pump

Steering system, load sensing with dedicated variable displacement piston pump

Oil sampling valves, Cat XT hoses

LINKAGE

Standard lift, Z-bar

Kickouts: lift and tilt

MONITORING SYSTEM

Front dash with analog gauges, LCD display, and warning lights

Primary touchscreen monitor (Cat Payload, quad screens, machine settings and messages)

Maintenance reminders

ONBOARD TECHNOLOGIES

Autodig with auto set tires

Operator ID and machine security

Application profiles

Job aids

Controls help and eOMM (Not available in all languages)

Cat Payload

Key Features Inform

Bucket Carry Display Widget
Remote Flash

SAFETY

Seat belt reminder
2-point seat belt
Rear vision camera

972 Optional Equipment

NOTE

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

OPERATOR ENVIRONMENT

Door, remote opening system
Footrest
Steering, joystick
Implement joystick (2V, 3V only)
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
Mirrors, heated
Sun visor, rear, retractable
Windows, front, heavy-duty
Full cab window guard

POWERTRAIN

Turbine, air precleaner
Radiator, high debris
Cooling fan, reversible
Axles, auto front and rear differential locks
Axles, manual front lock
Axles, ecology drains, AOC ready, extreme temperature seals
Axles, oil cooler

ELECTRICAL

Cold start, 120V or 240V
Lights: roading with turn signals
Lights: LED

HYDRAULICS

Ride control, dual accumulators
3rd and 4th auxiliary functions with ride control

Quick coupler control

LINKAGE

High lift, Z-bar

MONITORING SYSTEM

Tire pressure monitor

ONBOARD TECHNOLOGIES

Cat Advanced Payload

Cat Payload for Trade (Available in Europe and Australia. Country certifications vary. Contact your Cat dealer for more information.)

Cat Payload Printer with E-ticket

SAFETY

4-point seat belt (kit)

Rear vision camera, dedicated

Surround vision, dedicated

Window cleaning platform, front

Collision warning system

Collision mitigation system

Reverse strobe lights (Not compatible with roading arrangements)

Warning beacon

Secondary steering system, electrical (Standard where mandated)

Wheel chocks

Remote control

ADDITIONAL EQUIPMENT

Cat Autolube system

Fenders, extensions or roading

Guards: powertrain, crankcase, window glass, cylinders, rear

Biodegradable hydraulic oil

High-speed oil change system

Rear cab access

Single Life Cutting Edge GET

Toolbox

SPECIAL CONFIGURATIONS

Aggregate handler

Waste and industrial

Steel mill

Corrosion resistant