

Product Specifications For 980



Engine

**Engine Power -
1,800 rpm ISO
14396:2002** 303 kW

**Engine Power -
1,800 rpm ISO
14396:2002** 412 hp (metric)

Engine Model Cat® C13

**Gross Power - 1,800
rpm SAE J1995:2014** 307 kW

**Gross Power - 1,800
rpm SAE J1995:2014** 417 hp (metric)

**Net Power - 1,800
rpm ISO 9249:2007,
SAE J1349:2011** 282 kW

**Net Power - 1,800
rpm ISO 9249:2007,
SAE J1349:2011** 383 hp (metric)

**Engine Torque -
1,300 rpm ISO
14396:2002** 2172 N·m

**Gross Torque -
1,300 rpm SAE
J1995:2014** 2192 hp

**Net Torque - 1,000
rpm ISO 9249:2007,
SAE J1349:2011** 2070 N·m

Displacement 12.5 l

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 B20¹

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.

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

Displacement 12.5 L

Weights

Operating Weight 30344 kg

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.

Transmission

Forward - 1 6.9 km/h

Forward - 2 13.3 km/h

Forward - 3 23.5 km/h

Forward - 4	39.5 km/h
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Reverse - 1	7.8 km/h
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Reverse - 2	15.2 km/h
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Reverse - 3	26.9 km/h
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Reverse - 4	39.5 km/h
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Note Maximum travel speed in standard vehicle with empty bucket and standard L4 tires with 935 mm (37 in) roll radius.

Sound

Operator Sound Pressure Level - ISO 6396:2008	75 dB(A)
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Exterior Sound Power Level - ISO 6395:2008	112 dB(A)
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Operator Sound Pressure Level - ISO 6396:2008 ¹	72 dB(A)
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Exterior Sound Power Level - ISO 6395:2008²	109 dB(A)
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Note (1) ¹Including countries that adopt the EU and UK Directives.

Note (2) ²Exterior Sound Power Level - European Union Directive 2000/14/EC and UK Noise Regulation 2001 No. 1701.

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 0.01 metric tonnes (1.10 tons).

Operating Specifications

Static Tipping Load - Full 40° Turn - With Tire Deflection	19706 kg
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Static Tipping Load - Full 40° Turn - No Tire Deflection	20965 kg
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Breakout Force	227 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	426 l
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Cooling System	50 l
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Crankcase	37 l
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Transmission	77 l
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Differential - Final Drives - Front	84 l
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Differential - Final Drives - Rear	84 l
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Hydraulic Tank	153 l
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Hydraulic System

Implement System - Maximum Pump Output at 2,250 rpm	449 L/min
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Implement System - Maximum Operating Pressure	34300 kPa
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Hydraulic Cycle Time - Total	10.1 s
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Dimensions - Standard Lift

Height - Top of Hood	3064 mm
Height - Top of ROPS	3829 mm
Ground Clearance	456 mm
Wheel Base	3800 mm
Overall Length - Without Bucket	8155 mm
Hinge Pin Height at Carry Height	632 mm
Hinge Pin Height at Maximum Lift	4554 mm
Lift Arm Clearance at Maximum Lift	3881 mm
Rack Back - Maximum Lift	61 °
Rack Back - Carry Height	48 °
Width over Tires (Loaded)	3260 mm
Tread Width	2440 mm
Note	All dimensions are approximate and based on machine equipped with 5.4 m ³ (7.1 yd ³) general purpose bucket with BOCE and Bridgestone 29.5R25 VSNT L4 radial tires.
Rack Back - Maximum Lift	61 degrees
Rack Back at Ground	40 degrees

Rack Back - Carry Height 50 degrees

Dimensions - High Lift

Height - Top of Hood	3064 mm
Height - Top of ROPS	3829 mm
Ground Clearance	456 mm
Wheel Base	3800 mm
Overall Length - Without Bucket	8358 mm
Hinge Pin Height at Carry Height	682 mm
Hinge Pin Height at Maximum Lift	4775 mm
Lift Arm Clearance at Maximum Lift	4125 mm
Rack Back - Maximum Lift	61 °
Rack Back - Carry Height	50 °
Width over Tires (Loaded)	3260 mm
Tread Width	2440 mm
Note	All dimensions are approximate and based on machine equipped with 5.4 m ³ (7.1 yd ³) general purpose bucket with BOCE and Bridgestone 29.5R25 VSNT L4 radial tires.

Rack Back - Maximum Lift	61 degrees
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Rack Back at Ground	40 degrees
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Rack Back - Carry Height	50 degrees
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980 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
Steering, joystick
Seat, cloth, air suspension
Touchscreen display
Keypad, programmable buttons
Air conditioner, heater, defroster (auto temp, fan)
Sun visor, front, retractable
Windows, front, safety laminated rounded glass

POWERTRAIN

Cat® C13 engine
Electric fuel priming pump
Fuel-water separator and secondary fuel filter
Engine, air precleaner
Axles, 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 roading lights with turn signals, 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

980 Optional Equipment

NOTE

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

OPERATOR ENVIRONMENT

Door, remote opening system
Footrest
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, limited slip differential(s)
Axles, ecology drains, AOC ready, extreme temperature seals
Axles, oil cooler
Heavy-duty transmission

ELECTRICAL

Cold start, 120V or 240V
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, cab, cylinders, rear

Biodegradable hydraulic oil

High-speed oil change system

Single Life Cutting Edge GET

Toolbox

SPECIAL CONFIGURATIONS

Aggregate handler

Waste and industrial

Forestry

Steel mill

Block handler

Block handler