

Product Specifications For 980 XE



Engine

Engine Power - 1,700 rpm ISO 14396:2002	313 kW
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Engine Power - 1,700 rpm ISO 14396:2002	426 hp (metric)
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Engine Model	Cat® C13
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Gross Power - 1,700 rpm SAE J1995:2014	317 kW
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Gross Power - 1,700 rpm SAE J1995:2014	431 hp (metric)
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Net Power - 1,700 rpm ISO 9249:2007, SAE J1349:2011	293 hp
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Net Power - 1,700 rpm ISO 9249:2007, SAE J1349:2011	398 hp (metric)
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Engine Torque - 1,200 rpm ISO 14396:2002	2185 N·m
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Gross Torque - 1,200 rpm SAE J1995:2014	2206 N·m
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Net Torque - 1,100 rpm ISO 9249:2007, SAE J1349:2011	2086 N·m
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Displacement	12.5 l
Emissions	Meets U.S. EPA Tier 4 Final, EU Stage V, Korea Stage V, and Japan 2014 emission standards.
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 aftertreatment.
Note (2)	¹Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) and are compatible* with ULSD blended with the following lower-carbon intensity fuels**up to: 20% biodiesel FAME (fatty acid methyl ester) ***100% renewable diesel, HVO (hydrotreated 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. *While Caterpillar engines are compatible with these alternative fuels, some regions may not allow their use. **Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels. ***Engines with no aftertreatment devices are compatible with higher blends, up to 100% biodiesel (for use of blends higher than 20% biodiesel, consult your Cat dealer).
Gross Torque @ 1,200 rpm – SAE J1995:2014	2206 N·m
Engine Torque @ 1,200 rpm – ISO 14396:2002	2185 N·m
Engine Power @ 1,700 rpm – ISO 14396:2002	313 kW
Gross Power @ 1,700 rpm – SAE J1995:2014	317 kW

Net Torque @ 1,100 rpm – ISO 9249:2007, SAE J1349:2011 2086 N·m

Note (3)

Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels up to: • 20% 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. * Engines with no aftertreatment devices can use higher blends, up to 100% biodiesel.

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

7 km/h

Forward - 2

13.6 km/h

Forward - 3

24 km/h

Forward - 4

39.5 km/h

Reverse - 1

8.1 km/h

Reverse - 2

15.5 km/h

Reverse - 3

29.5 km/h

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	70 dB(A)
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Exterior Sound Power Level - ISO 6395:2008	110 dB(A)
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Operator Sound Pressure Level - ISO 6396:2008 ¹	70 dB(A)
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Exterior Sound Power Level - ISO 6395:2008²	107 dB(A)
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Note (1)	¹ Including countries that adopt the EU and UK Directives.
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Note (2)	² Exterior Sound Power Level - European Union Directive 2000/14/EC and UK Noise Regulation 2001 No. 1701.
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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 0.001 metric tonnes (1.10 tons).
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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
DEF Tank	21 l
Cooling System	52 l
Crankcase	37 l
Transmission	77 l
Differential - Final Drives - Front	84 l
Differential - Final Drives - Rear	84 l
Hydraulic Tank	153 l

Hydraulic System

Implement System - Maximum Pump Output at 1,400 rpm	457 L/min
Implement System - Maximum Operating Pressure	34300 kPa
Hydraulic Cycle Time - Total	10.1 s
Hydraulic Cycle Time - Total	10.1 seconds

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 m³ (7.1 yd³) general purpose bucket with BOCE and Bridgestone 29.5R25 VSNT L4 radial tires.

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 m³ (7.1 yd³) general purpose bucket with BOCE and Bridgestone 29.5R25 VSNT L4 radial tires.

980 XE Standard Equipment

NOTE

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

OPERATOR ENVIRONMENT

Cab, pressurized, sound suppression
 Door, remote opening system
 EH implement controls, parking brake
 Steering, joystick
 Seat, suede/cloth, air suspension, heated
 Mirrors, heated
 Touchscreen display
 Keypad, programmable buttons
 Air conditioner, heater, defroster (auto temp, fan)
 Sun visor, front and rear retractable
 Windows, front, safety laminated round glass

POWERTRAIN

Cat® C13 engine
 Electric fuel priming pump

Fuel-water separator and secondary fuel filter
Engine, air precleaner
Axles, open differentials
Axles, ecology drains
Transmission, continuously variable
Rimpull control
Throttle lock mode
Hill and speed hold on grades
Service brakes, hydraulic, fully enclosed wet disc, wear indicators
Park brake, caliper on front axles, spring applied-pressure released

ELECTRICAL

Starting and charging system, 24V
Starter, electric, heavy duty
Lights: halogen, 4 work lights, 2 rearview lights
Lights: roading with turn signals

HYDRAULICS

Implement system, electro-hydraulic variable displacement piston pump
Steering system, load sensing with dedicated variable displacement piston pump
Ride control, dual accumulators
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
Window cleaning platform, front

980 XE Optional Equipment

NOTE

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

OPERATOR ENVIRONMENT

Footrest
Implement joystick (2V, 3V only)
Entertainment radio (FM, AM, USB, BT)
Entertainment radio (DAB+)
CB radio ready
Seat, leather/cloth, air suspension, heated/cooled
Windows, front, heavy duty
Full cab window guard

POWERTRAIN

Turbine, air precleaner
Radiator, high debris
Cooling fan, reversible
Axles, limited slip differential(s)
Axles, AOC ready, extreme temperature seals
Axles, oil cooler

ELECTRICAL

Cold start, 120V or 240V
Lights: LED

HYDRAULICS

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, roading

Guards: powertrain, crankcase, cab, cylinders, rear

Biodegradable hydraulic oil

High-speed oil change system

Fast fill fuel tank

Single Life Cutting Edge GET

Toolbox

SPECIAL CONFIGURATIONS

Aggregate handler

Waste and industrial

Forestry