

# Product Specifications For 980



## Engine

**Engine Power -  
1,700 rpm ISO  
14396:2002** 420 hp

**Engine Power -  
1,700 rpm ISO  
14396:2002** 426 hp (metric)

**Engine Model** Cat® C13

**Gross Power - 1,700  
rpm SAE J1995:2014** 425 hp

**Gross Power - 1,700  
rpm SAE J1995:2014** 431 hp (metric)

**Net Power - 1,700  
rpm ISO 9249:2007,  
SAE J1349:2011** 393 hp

**Net Power - 1,700  
rpm ISO 9249:2007,  
SAE J1349:2011** 398 hp (metric)

**Engine Torque -  
1,200 rpm ISO  
14396:2002** 1612 lbf·ft

**Gross Torque - 1,200  
rpm SAE J1995:2014** 1627 lbf·ft

**Net Torque - 1,100  
rpm ISO 9249:2007,  
SAE J1349:2011** 1539 lbf·ft

**Displacement** 763 in<sup>3</sup>

**Emissions** Meets U.S. EPA Tier 4 Final, EU Stage V, Korea Stage V, China Nonroad Stage IV and Japan 2014 emission standards.

**Biodiesel Capability** Up to B20<sup>1</sup>

**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)** <sup>1</sup>Cat engines are compatible with diesel fuel blended with 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. \*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.

**Engine Power @  
1,700 rpm – ISO  
14396:2002** 429 hp

**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.

**Gross Torque @  
1,200 rpm – SAE  
J1995:2014** 1627 lb/ft

**Net Torque @ 1,100  
rpm – ISO  
9249:2007, SAE  
J1349:2011** 1539 lb/ft

**Gross Power @  
1,700 rpm – SAE  
J1995:2014** 425 hp

<b>Engine Torque @ 1,200 rpm – ISO 14396:2002</b>	1612 lb/ft
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<b>Displacement</b>	12.5 L
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## Weights

<b>Operating Weight</b>	66877 lb
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**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 m<sup>3</sup> (7.1 yd<sup>3</sup>) general purpose bucket with BOCE.

## Transmission

<b>Forward - 1</b>	4.3 mile/h
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<b>Forward - 2</b>	8.3 mile/h
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<b>Forward - 3</b>	14.6 mile/h
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<b>Forward - 4</b>	24.5 mile/h
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<b>Reverse - 1</b>	4.8 mile/h
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<b>Reverse - 2</b>	9.4 mile/h
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<b>Reverse - 3</b>	16.7 mile/h
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<b>Reverse - 4</b>	24.5 mile/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

<b>Operator Sound Pressure Level - ISO 6396:2008</b>	72 dB(A)
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<b>Exterior Sound Power Level - ISO 6395:2008</b>	112 dB(A)
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<b>Operator Sound Pressure Level - ISO 6396:2008 <sup>1</sup></b>	72 dB(A)
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<b>Exterior Sound Power Level - ISO 6395:2008<sup>2</sup></b>	109 dB(A)
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<b>Note (1)</b>	<sup>1</sup> Including countries that adopt the EU and UK Directives.
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<b>Note (2)</b>	<sup>2</sup> Exterior Sound Power Level - European Union Directive 2000/14/EC and UK Noise Regulation 2001 No. 1701.
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## Air Conditioning System

<b>Air Conditioning</b>	The air conditioning system on this machine contains the fluorinated 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).
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## Operating Specifications

<b>Static Tipping Load - Full 40° Turn - With Tire Deflection</b>	43432 lb
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<b>Static Tipping Load - Full 40° Turn - No Tire Deflection</b>	46208 lb
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<b>Breakout Force</b>	51008 lbf
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<b>Note (1)</b>	For a machine configuration as defined under "Weight."
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<b>Note (2)</b>	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

<b>Fuel Tank</b>	112.5 gal (US)
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<b>DEF Tank</b>	5.5 gal (US)
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<b>Cooling System</b>	13.7 gal (US)
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<b>Crankcase</b>	9.8 gal (US)
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<b>Transmission</b>	20.3 gal (US)
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<b>Differential - Final Drives - Front</b>	22.2 gal (US)
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<b>Differential - Final Drives - Rear</b>	22.2 gal (US)
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<b>Hydraulic Tank</b>	40.4 gal (US)
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## Hydraulic System

<b>Implement System - Maximum Pump Output at 2,250 rpm</b>	119 gal/min
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<b>Implement System - Maximum Operating Pressure</b>	4975 psi
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<b>Hydraulic Cycle Time - Total</b>	10.1 s
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## Dimensions - Standard Lift

<b>Height - Top of Hood</b>	10.08 ft
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<b>Height - Top of ROPS</b>	12.58 ft
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<b>Ground Clearance</b>	1.42 ft
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<b>Wheel Base</b>	12.5 ft
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<b>Overall Length - Without Bucket</b>	26.83 ft
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<b>Hinge Pin Height at Carry Height</b>	2 ft
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<b>Hinge Pin Height at Maximum Lift</b>	14.92 ft
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<b>Lift Arm Clearance at Maximum Lift</b>	12.67 ft
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<b>Rack Back - Maximum Lift</b>	61 °
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<b>Rack Back - Carry Height</b>	48 °
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<b>Width over Tires (Loaded)</b>	10.75 ft
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<b>Tread Width</b>	8 ft
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<b>Note</b>	All dimensions are approximate and based on machine equipped with 5.4 m <sup>3</sup> (7.1 yd <sup>3</sup> ) general purpose bucket with BOCE and Bridgestone 29.5R25 VSNT L4 radial tires.
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<b>Rack Back - Carry Height</b>	50 degrees
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<b>Rack Back at Ground</b>	40 degrees
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<b>Rack Back - Maximum Lift</b>	61 degrees
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## Dimensions - High Lift

<b>Height - Top of Hood</b>	10.08 ft
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<b>Height - Top of ROPS</b>	12.58 ft
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<b>Ground Clearance</b>	1.42 ft
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<b>Wheel Base</b>	12.5 ft
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<b>Overall Length - Without Bucket</b>	27.42 ft
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<b>Hinge Pin Height at Carry Height</b>	2.17 ft
<b>Hinge Pin Height at Maximum Lift</b>	15.58 ft
<b>Lift Arm Clearance at Maximum Lift</b>	13.5 ft
<b>Rack Back - Maximum Lift</b>	61 °
<b>Rack Back - Carry Height</b>	50 °
<b>Width over Tires (Loaded)</b>	10.75 ft
<b>Tread Width</b>	8 ft
<b>Note</b>	All dimensions are approximate and based on machine equipped with 5.4 m <sup>3</sup> (7.1 yd <sup>3</sup> ) general purpose bucket with BOCE and Bridgestone 29.5R25 VSNT L4 radial tires.
<b>Rack Back - Maximum Lift</b>	61 degrees
<b>Rack Back at Ground</b>	40 degrees
<b>Rack Back - Carry Height</b>	50 degrees

## 980 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 belt, monitored  
Seat, cloth, air suspension  
Touchscreen display  
Keypad, programmable buttons  
Air conditioner, heater, defroster (auto temp, fan)  
Sun visor, front, retractable  
Sun visor, rear, retractable  
Windows, front, safety laminated rounded glass

## **ON-BOARD TECHNOLOGIES**

Cat Payload scale  
Autodig with Auto Set Tires  
Operator ID & machine security  
Application Profiles  
Job Aids  
Controls Help and eOMM (not available in all languages)  
Key Features Inform  
Bucket Carry Display Widget  
Remote Flash

## **POWERTRAIN**

Cat C13 engine  
Electric fuel priming pump  
Fuel-water separator and secondary fuel filter  
Engine, air precleaner  
Axles, open differentials  
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

## **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 rearview lights

## **MONITORING SYSTEM**

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

## **LINKAGE**

Standard lift, Z-bar  
Kickouts: lift and tilt

## **SAFETY**

Visibility: mirrors, rear-vision camera  
Window cleaning platform, front

## **980 Optional Equipment**

## **NOTE**

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

## **OPERATOR ENVIRONMENT**

Footrest  
HMU steering wheel  
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  
Windows, front, heavy duty, or full guards

## **ON-BOARD TECHNOLOGIES**

Cat Advanced Payload  
Cat Payload Printer with E-ticket  
Cat Payload for Trade (Available in Europe, Türkiye, Australia, and New Zealand. Country certifications vary. Contact your Cat dealer for more information.)  
Remote Control

## **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

## **HYDRAULICS**

3rd auxiliary function with ride control  
Quick coupler control

## **ELECTRICAL**

Cold start, 120V or 240V  
Lights: LED

## **MONITORING SYSTEM**

Tire pressure monitor

## **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  
Fast fill fuel tank  
Toolbox

## **SAFETY**

Cat Detect rear radar system  
Dedicated rearview screen  
Multiview (360°) vision system  
4-point seat belt retractor  
Reversing strobe lights (not compatible with roading arrangements)  
Seat belt monitoring beacon  
Secondary steering system, electrical (Standard where mandated)  
Wheel chocks  
Warning beacon  
Collision Warning System with Motion Inhibit and People Detection

## **SPECIAL CONFIGURATIONS**

Aggregate handler  
Waste and scrap  
Forestry  
Steel mill  
Block handler