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^3

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[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)	[1]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

Engine Torque @ 1,200 rpm – ISO 14396:2002	1612 lb/ft
Displacement	12.5 L

Weights

Operating Weight	66877 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.

Transmission

Forward - 1	4.3 mile/h
Forward - 2	8.3 mile/h
Forward - 3	14.6 mile/h
Forward - 4	24.5 mile/h
Reverse - 1	4.8 mile/h
Reverse - 2	9.4 mile/h
Reverse - 3	16.7 mile/h
Reverse - 4	24.5 mile/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	72 dB(A)

Exterior Sound Power Level - ISO 6395:2008	112 dB(A)
Operator Sound Pressure Level - ISO 6396:2008 [1]	72 dB(A)
Exterior Sound Power Level - ISO 6395:2008[2]	109 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.

Air Conditioning System

Air Conditioning	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).

Operating Specifications

Static Tipping Load - Full 40° Turn - With Tire Deflection	43432 lb
Static Tipping Load - Full 40° Turn - No Tire Deflection	46208 lb
Breakout Force	51008 lbf
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.

Service Refill Capacities

Fuel Tank	112.5 gal (US)
DEF Tank	5.5 gal (US)

Cooling System	13.7 gal (US)
Crankcase	9.8 gal (US)
Transmission	20.3 gal (US)
Differential - Final Drives - Front	22.2 gal (US)
Differential - Final Drives - Rear	22.2 gal (US)
Hydraulic Tank	40.4 gal (US)

Hydraulic System

Implement System - Maximum Pump Output at 2,250 rpm	119 gal/min
Implement System - Maximum Operating Pressure	4975 psi
Hydraulic Cycle Time - Total	10.1 s

Dimensions - Standard Lift

Height - Top of Hood	10.08 ft
Height - Top of ROPS	12.58 ft
Ground Clearance	1.42 ft
Wheel Base	12.5 ft
Overall Length - Without Bucket	26.83 ft
Hinge Pin Height at Carry Height	2 ft
Hinge Pin Height at Maximum Lift	14.92 ft

Lift Arm Clearance at Maximum Lift	12.67 ft
Rack Back - Maximum Lift	61 °
Rack Back - Carry Height	48 °
Width over Tires (Loaded)	10.75 ft
Tread Width	8 ft
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 - Carry Height	50 degrees
Rack Back at Ground	40 degrees
Rack Back - Maximum Lift	61 degrees

Dimensions - High Lift

Height - Top of Hood	10.08 ft
Height - Top of ROPS	12.58 ft
Ground Clearance	1.42 ft
Wheel Base	12.5 ft
Overall Length - Without Bucket	27.42 ft

Hinge Pin Height at Carry Height	2.17 ft
Hinge Pin Height at Maximum Lift	15.58 ft
Lift Arm Clearance at Maximum Lift	13.5 ft
Rack Back - Maximum Lift	61 °
Rack Back - Carry Height	50 °
Width over Tires (Loaded)	10.75 ft
Tread Width	8 ft
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

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

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

SPECIAL CONFIGURATIONS

Aggregate handler
Waste and scrap
Forestry
Steel mill
Block handler