



Cat[®] 980

Wheel Loader

The Cat[®] 980 Wheel Loader brings premium performance with simple-to-use technologies as a standard offering, boosting operator efficiencies and delivering consistent high bucket fill factors resulting in up to 10% increased productivity.* Extended service intervals lower maintenance costs by up to 20%.* This machine is designed to meet emission standards without interrupting operation. Improved performance, reliability, durability, and versatility result in a machine that is better built to meet your needs.

***Compared to previous Cat model**

Proven Reliability

- Cat C13 engine[†] offers high power density with a combination of proven electronics, fuel, and air systems.
- Equipped with automatic Cat regeneration system, Cat Clean Emissions Module (CEM) with Diesel Particulate Filter (DPF), and Diesel Exhaust Fluid (DEF) tank and pump.
- Features an electric fuel priming pump, fuel-water separator, and secondary fuel filter.
- Thorough component design and machine validation processes result in unmatched reliability and uptime.

Durability

- Heavy-duty transmission and axles designed to handle extreme applications.
- Automatic planetary powershift (4F/4R) transmission features durable, long-lasting components.
- Full-flow hydraulic filtration system with additional kidney-loop filtration improves hydraulic system reliability and component life.

Superior Fuel Efficiency & Productivity

- New Autodig with Auto Set Tires for consistent high bucket fill factors deliver up to 10% more productivity compared to previous Cat model.
- Powershift transmission with lock-up clutch increases fuel efficiency while delivering optimal performance.
- Single clutch and lock-to-lock shifting for faster acceleration and speed on grades.
- Application Profiles optimize machine settings for different applications at one push of a button.
- Job Aids help operators improve and optimize their operating skills.
- Performance Series Buckets utilize a system-based approach to balance bucket shape against the machine's linkage, resulting in higher fill factors and better material retention when compared with other buckets of the same rated capacity.
- Automatic engine idle shutdown system significantly reduces idle time, overall operating hours, and fuel consumption.

- Optional limited slip differentials increase traction and reduce tire slip, lowering operating costs.
- Optional aggregate handler configuration offers higher payload capability for loose aggregate handling.**
- Deeply integrated engine, power train, and hydraulic systems deliver unmatched productivity and fuel efficiency.

Smart Machine for Efficient Operation

- Standard Cat technologies to monitor, manage, and enhance your jobsite operations.
 - Cat Payload with Assist provides accurate weighing*** of the bucket payloads. Data is displayed in real time to improve productivity and loading accuracy with manual tip-off.
 - Product Link™ wirelessly connects the machine to the office, giving you access to production and essential health information needed to make timely, fact-based decisions to help you better run your business.
 - New Autodig allows the operator to fully automate bucket loading to improve fill factors and loading time.
 - Auto Set Tires promotes proper loading technique, significantly reducing tire slip and tire wear.
 - Onboard Job Aids and Operator Controls Help to ease operation.
- Optional Cat Advanced Payload with Assist:
 - Tip Off Assist automatizes load of the final bucket to match hauling unit target.
 - Enhanced lists management, site integration, and extended scale features to help manage and improve productivity and profitability of operations.
- Optional Cat Productivity subscription provides detailed and comprehensive actionable information to help you manage and improve the productivity and profitability of your operations.

****Optional configurations and equipment may vary from region to region and require conformance to Caterpillar payload policy. Consult your dealer or Caterpillar representative for details.**

*****Not legal for trade.**

[†] Meets U.S. EPA Tier 4 Final, EU Stage V, Korea Tier 4 Final, and Japan 2014 emission standards.



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Safety Features

- Rear-vision camera enhances visibility behind the machine, helping you work safely and confidently.
- Optional 360° vision system helps the operator monitor the surroundings of the machine at all times.
- Optional Cat Detect radar technology enhances awareness by monitoring the working environment and alerts operators to hazards.
- Cab access with wide door, optional remote door opening, and stair-like steps add solid stability.
- Floor-to-ceiling windshield, large mirrors with integrated spot mirrors, and rear-vision camera provide industry leading all-around visibility.
- Computerized monitoring system includes several warning indicators.
- Monitored seat belt is standard and can be enhanced with an optional exterior indicator.
- Optional access light and under-hood service light system to provide illuminated access to the machine and daily checks even in the dark.

Reduced Maintenance Time and Costs

- Extended fluid and filter change intervals reduce maintenance costs by up to 20%.*
- Convenient access to hydraulic and electrical service centers for easy and safe servicing.
- Remote Troubleshoot can connect the machine to the dealer service department to help diagnose problems quickly so you can get back to work.
- Remote Flash works around your schedule to ensure your machine's software is up to date for optimal performance.
- The Cat App helps you manage fleet location, hours, and maintenance schedules; it also alerts you for required maintenance and allows you to request service from your local Cat dealer.
- Integrated Autolube extends component and service life.
- One-piece tilting hood makes engine compartment access fast and easy.
- With Fusion™ Quick Coupler, buckets can be changed without leaving the cab, allowing the machine to quickly move from task to task.

**Parts and fluids only*

Work in Comfort in the All New Cab

- Next-generation, easily adjustable seat and suspension for improved operator comfort. It comes in three trim levels and can be equipped with a 4-point harness.
- Increased legroom and adjustable seat controls for increased comfort and efficiency.
- Automatic air conditioning system keeps the cab cool as desired.
- New in-cab dashboard and high-resolution touch display(s) are easy to use, intuitive, and user friendly.
- Sound suppression, seals, and viscous cab mounts decrease noise and vibration for a quieter work environment.
- The seat-mounted electro-hydraulic joystick steering system provides precision control and dramatically reduces arm fatigue, resulting in excellent comfort and accuracy. An HMU steering wheel is also available.
- The next generation of ride control works as a shock absorber, improving ride quality over rough terrain.
- Inclined steps and convenient grab handles ease accessibility to the operating space.
- Extended windows enhance visibility, while convex and spot mirrors extend the driver's view on the sides and rear.

Purpose-built Specialty Configurations

- Application-specific arrangements direct from the factory for optimized performance and added durability in the toughest applications, including:
 - Industrial and waste models feature guarding and reinforcement necessary for work in transfer stations, recycling depots, scrap yards, and demolition sites.
 - Forestry model increases lift and tilt capacities for efficient and productive log and chip handling in paper, pellet, and sawmills.
 - Steel mill model is designed for the challenging work environment of steel mills and slag handling applications, incorporating an added level of safety.
 - Block handler model is built with the strength and stability to get the work done in block quarries.

Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
OPERATOR ENVIRONMENT			POWER TRAIN (Continued)		
Cab, pressurized, sound suppression	✓		Service brakes, hydraulic, fully enclosed wet disc, wear indicators	✓	
Door, remote opening system		✓	Integrated Braking System (IBS)	✓	
EH implement controls, parking brake	✓		Park brake, caliper on front axles, spring applied–pressure released	✓	
HMU steering wheel		✓	HYDRAULICS		
Steering, joystick	✓		Implement system, load sensing with variable displacement piston pump	✓	
Entertainment radio (FM, AM, USB, BT)		✓	Steering system, load sensing with dedicated variable displacement piston pump	✓	
Entertainment radio (DAB+)		✓	Ride control, dual accumulators	✓	
CB radio ready		✓	3 rd auxiliary function with ride control		✓
Seat, cloth, air suspension	✓		Oil sampling valves, Cat XT™ hoses	✓	
Seat, suede/cloth, air suspension, heated		✓	Quick coupler control		✓
Seat, leather/cloth, air suspension, heated/cooled		✓	ELECTRICAL		
Touchscreen display	✓		Starting and charging system, 24V	✓	
Visibility: mirrors, rear-vision camera	✓		Starter, electric, heavy duty	✓	
360° vision system		✓	Cold start, 120V or 240V		✓
Cat Detect rear radar system		✓	Lights: halogen, 4 work lights, 2 front roading lights with turn signals, 2 rear-vision lights	✓	
Dedicated rearview screen		✓	Lights: LED		✓
Mirrors, heated		✓	Warning beacon		✓
Air conditioner, heater, defroster (auto temp, fan)	✓		MONITORING SYSTEM		
Sun visor, front, retractable	✓		Front dash with analog gauges, LCD display, and warning lights	✓	
Sun visor, rear, retractable	✓		Primary touchscreen monitor (Cat Payload, quad screens, machine settings & messages)	✓	
Window cleaning platform, front	✓		Reversing strobe lights		✓
Windows, front, safety laminated rounded glass	✓		LINKAGE		
Windows, front, heavy duty, or full guards		✓	Standard lift, Z-bar	✓	
ON-BOARD TECHNOLOGIES			High lift, Z-bar		✓
Cat Payload scale	✓		Kickouts: lift and tilt	✓	
Autodig with Auto Set Tires	✓		ADDITIONAL EQUIPMENT		
Operator ID & machine security	✓		Cat Autolube system		✓
Application Profiles	✓		Fenders, extensions or roading		✓
Job Aids	✓		Guards: power train, crankcase, cab, cylinders, rear		✓
Controls Help and eOMM	✓		Biodegradable hydraulic oil		✓
Cat Advanced Payload		✓	High-speed oil change system		✓
Cat Payload Printer		✓	Rear cab access		✓
POWER TRAIN			Fast fill fuel tank		✓
Cat C13 engine	✓		Toolbox		✓
Electric fuel priming pump	✓		Wheel chocks		✓
Fuel-water separator and secondary fuel filter	✓		Secondary steering system, electrical		✓
Engine, air precleaner	✓		SPECIAL CONFIGURATIONS		
Turbine, air precleaner		✓	Aggregate handler		✓
Radiator, high debris		✓	Waste and industrial		✓
Cooling fan, reversible		✓	Forestry, logger		✓
Axles, open differentials	✓		Steel mill		✓
Axles, limited slip differential(s)		✓	Block handler		✓
Axles, ecology drains, AOC ready, extreme temperature seals		✓			
Axles, oil cooler		✓			
Transmission, planetary, automatic powershift	✓				
Torque converter with lock-up	✓				
Heavy Duty transmission		✓			

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Technical Specifications

Engine		
Engine Model	Cat C13	
Engine Power @ 1,700 rpm – ISO 14396:2002	313 kW	420 hp
Gross Power @ 1,700 rpm – SAE J1995:2014	317 kW	425 hp
Net Power @ 1,700 rpm – ISO 9249:2007, SAE J1349:2011	293 kW	393 hp
Engine Torque @ 1,200 rpm – ISO 14396:2002	2185 N·m	1,612 lbf·ft
Gross Torque @ 1,200 rpm – SAE J1995:2014	2206 N·m	1,627 lbf·ft
Net Torque @ 1,100 rpm – ISO 9249:2007, SAE J1349:2011	2086 N·m	1,539 lbf·ft
Displacement	12.5 L	

- Cat engine meets U.S. EPA Tier 4 Final, EU Stage V, Korea Tier 4 Final, and Japan 2014 emission standards.
- The net power advertised is the power available at the flywheel when the engine is equipped with fan, alternator, air cleaner, and aftertreatment.

Weights

Operating Weight 30 344 kg 66,877 lb

- 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

Speed	km/h	mph	Speed	km/h	mph
Forward 1	6.9	4.3	Reverse 1	7.8	4.8
Forward 2	13.3	8.3	Reverse 2	15.2	9.4
Forward 3	23.5	14.6	Reverse 3	26.9	16.7
Forward 4	39.5	24.5	Reverse 4	39.5	24.5

- Maximum travel speed in standard vehicle with empty bucket and standard L4 tires with 935 mm (37 in) roll radius.

Sound

With Cooling Fan Speed at Maximum Value:

Operator Sound Pressure Level (ISO 6396:2008)	72 dB(A)
Exterior Sound Power Level (ISO 6395:2008)	112 dB(A)
Exterior Sound Pressure Level (SAE J88:2013)	78 dB(A)*

*Distance of 15 m (49.2 ft), moving forward in second gear ratio.

With Cooling Fan Speed at 70% of Maximum Value:**

Operator Sound Pressure Level (ISO 6396:2008)	72 dB(A)
Exterior Sound Power Level	109 dB(A)***

**For machines in European Union countries and in countries that adopt the “EU Directives.”

***European Union Directive “2000/14/EC” as amended by “2005/88/EC.”

Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.9 kg (4.2 lb) of refrigerant which has a CO₂ equivalent 2.717 metric tonnes (2.995 tons).

Bucket Capacities

Bucket Range 4.0-14.5 m³ 5.25-19 yd³

Operating Specifications

Static Tipping Load – Full 40° Turn:

With Tire Deflection	19 706 kg	43,432 lb
No Tire Deflection	20 965 kg	46,208 lb
Breakout Force	227 kN	51,008 lbf

- For a machine configuration as defined under “Weight.”

- Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing.

Service Refill Capacities

Fuel Tank	426 L	112.5 gal
DEF Tank	21 L	5.5 gal
Cooling System	52 L	13.7 gal
Crankcase	37 L	9.8 gal
Transmission	77 L	20.3 gal
Differentials and Final Drives – Front	84 L	22.2 gal
Differentials and Final Drives – Rear	84 L	22.2 gal
Hydraulic Tank	153 L	40.4 gal

Hydraulic System

Implement System:

Maximum Pump Output (2,250 rpm)	449 L/min	119 gal/min
Maximum Operating Pressure	34 300 kPa	4,975 psi
Hydraulic Cycle Time – Total	10.1 seconds	

Dimensions

	Standard Lift		High Lift	
Height to Top of Hood	3064 mm	10'1"	3064 mm	10'1"
Height to Top of Exhaust Pipe	3764 mm	12'5"	3764 mm	12'5"
Height to Top of ROPS	3829 mm	12'7"	3829 mm	12'7"
Ground Clearance	456 mm	1'5"	456 mm	1'5"
Center Line of Rear Axle to Edge of Counterweight	2661 mm	8'9"	2661 mm	8'9"
Center Line of Rear Axle to Hitch	1900 mm	6'3"	1900 mm	6'3"
Wheelbase	3800 mm	12'6"	3800 mm	12'6"
Overall Length (without bucket)	8155 mm	26'10"	8355 mm	27'5"
Hinge-Pin Height at Maximum Lift	4554 mm	14'11"	4775 mm	15'7"
Hinge-Pin Height at Carry	632 mm	2'0"	682 mm	2'2"
Lift Arm Clearance at Maximum Lift	3881 mm	12'8"	4125 mm	13'6"
Rack Back at Maximum Lift	61 degrees		61 degrees	
Rack Back at Carry Height	48 degrees		50 degrees	
Rack Back at Ground	40 degrees		40 degrees	
Width over Tires (Loaded)	3260 mm	10'9"	3260 mm	10'9"
Tread Width	2440 mm	8'0"	2440 mm	8'0"

- 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.

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