



# Cat<sup>®</sup> 980 XE

## Wheel Loader

**The Cat<sup>®</sup> 980 XE Wheel Loader delivers up to 35% increased fuel efficiency,\* premium performance with simple-to-use standard technologies to boost operator efficiencies, and lower maintenance costs by up to 25%.\* 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**

### Superior Fuel Efficiency

- Up to 35% better fuel efficiency compared to previous Cat model.
- Deep system integration of the Cat continuously variable transmission, engine, hydraulic, and cooling systems results in significantly increased performance and fuel efficiency.
- Eliminating the torque converter allows the capability to control engine rpm and machine speed independently, resulting in efficient digging, fine control, and easy operation.
- Lower rated engine speed reduces component wear and operating noise.
- Power dense engine burns less fuel by providing power and torque when needed.

### Achieve Greater Productivity

- Continuously variable transmission delivers smooth, fast acceleration and speed on grade.
- Machine maneuvering on grade is made easy with speed-hold and anti-rollback.
- Integrated continuously variable transmission provides maximum, steady power at optimal speeds.
- Advanced rimpull control for best loading efficiency in the pile and tire wear reduction.
- New Autodig with Auto Set Tires for consistent high bucket fill factors.
- 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.
- Dual ride control accumulator system enables a wide payload range and better ride quality.

- 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.\*\*

### 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.*



# Cat® 980 XE Wheel Loader

## 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 filtration system.
- Thorough component design and machine validation processes result in unmatched reliability and uptime.

## 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 25%.\*
- 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*

## Durability

- Heavy-duty axles designed to handle extreme applications.
- Full-flow hydraulic filtration system with additional kidney-loop filtration improves hydraulic system reliability and component life.

## 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.
- 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.

†Meets U.S. EPA Tier 4 Final and EU Stage V emission standards.

## Standard and Optional Equipment

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

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

# Cat® 980 XE Wheel Loader

## 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 and EU Stage V 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 m<sup>3</sup> (7.1 yd<sup>3</sup>) general purpose bucket with BOCE.

## Transmission

Speed	km/h	mph	Speed	km/h	mph
Forward 1	7.0	4.4	Reverse 1	8.1	5.0
Forward 2	13.6	8.4	Reverse 2	15.5	9.6
Forward 3	24.0	14.9	Reverse 3	29.5	18.3
Forward 4	39.5	24.5	Reverse 4	N/A	N/A

- 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)	70 dB(A)
Exterior Sound Power Level (ISO 6395:2008)	110 dB(A)
Exterior Sound Pressure Level (SAE J88:2013)	75 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)	70 dB(A)
Exterior Sound Power Level	107 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 CO<sub>2</sub> equivalent 2.717 metric tonnes (2.995 tons).

## Bucket Capacities

Bucket Range 4.0-14.5 m<sup>3</sup> 5.25-19 yd<sup>3</sup>

## 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 (1,400 rpm)	457 L/min	121 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 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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