



# Cat<sup>®</sup> 980M

## Wheel Loader

**The Cat<sup>®</sup> 980M Wheel Loader offers significant fuel savings while lowering long-term costs. This machine meets emission standards and is designed to improve fuel economy without interrupting performance. The reliability, durability, and versatility result in machines that are better built to meet your needs.**

### Proven Reliability

- Cat C13 engine\* offers increased power density with a combination of proven electronic 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 (Tier 4 Final and Stage V).
- Features an electric fuel priming pump and a fuel/water separator.
- Thorough component design and machine validation processes result in unmatched reliability and uptime.

### Durability

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

### Achieve Greater Productivity

- Increased engine power resulting in improved machine performance and response.
- Lock-up clutch transmission, matching the engine power to increase fuel efficiency while delivering optimal performance.
- Easy-to-load Performance Series Buckets improve material retention and reduce dig times, significantly improving productivity and fuel efficiency.
- Automatic idle engine shutdown system significantly reduces idle time, overall operating hours, and fuel consumption.
- Optional limited slip differentials increase traction, diminish tire scuffing, and further reduce your operating costs.
- Optional aggregate handler configuration offers higher payload capability for loose aggregate handling.\*\*

### Superior Fuel Efficiency

- Deep system integration results in lower fuel consumption.
- Significantly more fuel efficient than both the H and K Series loaders.
- Power dense engine burns less fuel by providing power and torque when needed.
- The HEUI™ fuel system boosts performance and reduces soot.
- Standard productive economy mode delivers more fuel savings with minimal productivity impact.
- New split-flow oil system (transmission) uses multi-viscosity oil to improve fuel economy.

### Increase Productivity and Efficiency with Integrated Cat<sup>®</sup> Technologies

- Developed to monitor, manage, and enhance your jobsite operations.
- Payload provides accurate weighing\*\*\* of the materials you are loading and hauling. Payload data is displayed in real-time to improve productivity and reduce overloading.
- Detect enhances awareness of the environment around working equipment and provides alerts to help keep people and assets safe on the jobsite.
- Link wirelessly connects you to your equipment, giving you access to essential information you need to know to run your business.
- Gain valuable insight into how your machine or fleet is performing, allowing you to make timely, fact-based decisions that can boost jobsite efficiency and productivity.
- Optional Advanced Productivity subscription provides 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 requires conformance to Caterpillar payload policy. Consult your dealer or Caterpillar representative for details.*

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

\*Two engine options are available:  
Option 1 meets Brazil MAR-1, UN ECE R96 Stage IIIA, and China Nonroad Stage III emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA.  
Option 2 meets U.S. EPA Tier 4 Final, either EU Stage V or EU Stage IV (Stage IV engines comply with the transition provisions of the EU nonroad emission regulation), Japan 2014, and Korea Tier 4 Final emission standards.



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## Safety Features

- 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.
- Rear vision camera enhances visibility behind the machine, helping you work safely and confidently.

## Reduced Maintenance Time and Costs

- One-piece tilting hood makes cab access fast and easy.
- Electrical service centers enhance convenience and accessibility.
- Buckets and components can be changed without leaving the cab, allowing the machine to quickly move from task to task.
- Access to fuel fill and daily maintenance points means less servicing time is required.
- Extended service intervals, including:
  - Engine oil and engine oil filter change interval up to 1000 hours (Tier 4 Final and Stage V)
  - Hydraulic filter change interval up to 1000 hours
  - Transmission oil change interval up to 2000 hours
- Remote flash support
- Longer tire life with on-the-go traction aids
- Optional integrated Cat autolube system provides full lube system monitoring and diagnostic test visibility.

## Easy, Comfortable Operator Environment

- The next generation easily adjustable seat with updated styling and a revolutionary suspension system. It comes in three trim levels and can be equipped with a 4-point harness.
- 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.
- Smart ergonomic controls are easy to use, intuitive, and user-friendly.
- Touchscreen multi-function color display keeps operators focused.
- 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

- Industrial and waste models feature guarding and reinforcement necessary for work in transfer stations, recycling depots, scrap yards, and demolition sites.
- Our forestry configuration is purpose built, increasing the lifting capacity for efficient and productive log and chip handling in paper, pellet, and saw mills.
- The steel mill package is designed for the challenging work environment of steel mills and slag handling applications, incorporating an added level of safety.
- The block handler 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
<b>OPERATOR ENVIRONMENT</b>			<b>HYDRAULICS</b>		
Cab, pressurized, sound suppression	✓		Hydraulic system, steering, load sensing	✓	
Door, remote opening system		✓	Ride control, 2V	✓	
EH controls, joystick, parking brake	✓		3 <sup>rd</sup> function w/ride control		✓
Radio, AM/FM/CD/USB/MP3, Bluetooth®, with Sirius and XM		✓	Oil sampling valves, hoses, Cat XT™	✓	
Seat, cloth, air suspension	✓		<b>ELECTRICAL</b>		
Seat, suede/cloth, air suspension, heated		✓	Starter, electric, heavy duty	✓	
Seat, leather/cloth, air suspension, heated/cooled		✓	Starting and charging system, 24V	✓	
Touchscreen display	✓		Cold start, 120V or 240V		✓
Visibility: Mirrors, rear vision camera	✓		Lights: Halogen, 4 work lights, 2 roading lights, 2 rear vision lights	✓	
Air conditioner, heater, defroster (auto temp, fan)	✓		Lights: Additional 4 halogen work lights OR replace full lighting with LED packages		✓
Windows, front, heavy duty, or full guards		✓	<b>MONITORING SYSTEM</b>		
<b>CAT CONNECT TECHNOLOGIES</b>			Gauges: Speedometer, temperature, fuel level, DEF level	✓	
Link: Product Link™	✓		Indicators: Regeneration, temperature, pressure, battery, oil, DEF	✓	
Link: VIMS™		✓	<b>ADDITIONAL EQUIPMENT</b>		
Detect: Rear vision camera	✓		Cat Autolube System		✓
Detect: Cat rear object detection		✓	Fenders, roading		✓
Machine Security System		✓	Guard, power train		✓
Printer, Aggregate Autodig, Cat Production Measurement 2.0		✓	Oil change, high speed engine		✓
<b>POWER TRAIN</b>			Precleaner, turbine		✓
Cat C13 engine, meets emission standards	✓		Precleaner, trash		✓
Emissions: CEM, DPF, DEF (Tier 4 Final/Stage V)	✓		Wheel chocks		✓
Fuel priming pump, fuel/water separator	✓		<b>LINKAGE</b>		
Radiator, high debris, wide fin spacing		✓	High Lift		✓
Fan, variable pitch fan, auto/manual control		✓	Forestry		✓
Torque converter, lock up clutch	✓		Quick Coupler Ready		✓
Precleaner, engine air intake	✓		Linkage, Z-bar, cast crosstube/tilt lever	✓	
Brakes, full hydraulic, Integrated Braking System, wear indicators	✓		Kickout, lift and tilt, automatic	✓	
Axles, ecology drain	✓		<b>OTHER OPTIONAL CONFIGURATIONS</b>		
Axles, limited slip differentials		✓	Aggregate handler		✓
			Block handler		✓
			Forestry		✓
			Industrial and waste handler		✓
			Steel mill		✓

Not all features are available in all regions. Please check with your local Cat dealer for specific offering availability in your area.

For additional information, refer to the technical specifications brochures for the 980M model available at [www.cat.com](http://www.cat.com) or your Cat dealer.

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## Technical Specifications

### Engine – (Tier 3/Stage IIIA Equivalent)

Engine Model	Cat C13	
Maximum Power @ 1,800 rpm – SAE J1995	307 kW	412 hp
Maximum Power @ 1,800 rpm – ISO 14396	303 kW	406 hp
Maximum Net Power @ 1,800 rpm – SAE J1349	278 kW	373 hp
Maximum Net Power @ 1,800 rpm – ISO 9249	278 kW	373 hp
Peak Gross Torque (1,300 rpm) – SAE J1995	2192 N·m	1,617 lbf·ft
Peak Gross Torque (1,300 rpm) – ISO 14396	2172 N·m	1,602 lbf·ft
Maximum Net Torque (1,000 rpm)	2040 N·m	1,505 lbf·ft
Displacement	12.5 L	763 in³

### Engine – (Tier 4 Final/Stage V)

Engine Model	Cat C13	
Maximum Power @ 1,700 rpm – SAE J1995	317 kW	425 hp
Maximum Power @ 1,700 rpm – ISO 14396	313 kW	420 hp
Maximum Net Power @ 1,700 rpm – SAE J1349	288 kW	386 hp
Maximum Net Power @ 1,700 rpm – ISO 9249	288 kW	386 hp
Peak Gross Torque (1,200 rpm) – SAE J1995	2206 N·m	1,627 lbf·ft
Peak Gross Torque (1,200 rpm) – ISO 14396	2182 N·m	1,609 lbf·ft
Maximum Net Torque (1,100 rpm)	2054 N·m	1,515 lbf·ft
Displacement	12.5 L	763 in³

- The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.6 kg of refrigerant which has a CO<sub>2</sub> equivalent of 2.288 metric tonnes.

## Weights

Operating Weight	30 090 kg	66,337 lb
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- Weight based on a machine configuration with Michelin 26.5R25 LDD1 L4 radial tires, full fluids, operator, standard counterweight, cold start, roading fenders, Product Link, open differentials axles, secondary steering, sound suppression and a 5.4 m³ (7.1 yd³) GP 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 933 mm (327 in) roll radius.

## Sound

With Cooling Fan Speed at Maximum Value:

Operator Sound Pressure Level (ISO 6396:2008)	
Tier 3/Stage IIIA Equivalent	75 dB(A)
Tier 4 Final/Stage V	72 dB(A)
Exterior Sound Power Level (ISO 6395:2008)	
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.”

## Bucket Capacities

Bucket Range	4.20-12.2 m³	5.25-16.0 yd³
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## Operating Specifications

Static Tipping Load – Full 40° Turn – with Tire Deflection	19 565 kg	43,133 lb
Static Tipping Load – Full 40° Turn – No Tire Deflection	20 796 kg	45,847 lb
Breakout Force	224 kN	50,357 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 (Tier 4/Stage V)	21 L	5.5 gal
Cooling System (Tier 4/Stage V)	53 L	14 gal
Cooling System (Tier 3)	45 L	12 gal
Crankcase	37 L	9.8 gal
Transmission	77 L	20.3 gal
Differentials and Final Drives – Front	84 L	22 gal
Differentials and Final Drives – Rear	84 L	22 gal
Hydraulic Tank	153 L	40 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	3110 mm	10'3"	3110 mm	10'3"
Height to Top of Exhaust Pipe	3746 mm	12'4"	3746 mm	12'4"
Height to Top of ROPS	3813 mm	12'7"	3813 mm	12'7"
Ground Clearance	453 mm	1'5"	453 mm	1'5"
Center Line of Rear Axle to Edge of Counterweight	2469 mm	8'2"	2469 mm	8'2"
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)	7964 mm	26'2"	8164 mm	26'10"
Hinge Pin Height at Maximum Lift	4539 mm	14'10"	4760 mm	15'7"
Hinge Pin Height at Carry	621 mm	2'1"	678 mm	2'3"
Lift Arm Clearance at Maximum Lift	3795 mm	12'5"	4010 mm	13'1"
Rack Back at Maximum Lift	61 degrees		61 degrees	
Rack Back at Carry Height	48 degrees		48 degrees	
Rack Back at Ground	40 degrees		39 degrees	
Maximum Width over Tires	3296 mm	10'10"	3296 mm	10'10"
Tread Width	2440 mm	8'0"	2440 mm	8'0"

- All dimensions are approximate and based on Michelin 29.5R25 LDD1 L4 radial tires.



オフロード法2014年  
基準適合

AEXQ2450-01 (10-2019)  
2019 Product Update

