



Cat[®] 982M

Wheel Loader

The Cat[®] 982M 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/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

- Increased power, heavy duty transmission, low-profile tires, and advanced axle and final drives.
- 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.
- With upgraded frames and heavier counterweight, the two-piece structural frame absorbs more impact.

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.
- Equipped with longer standard lift arms and a higher hinge point height for rail car capability.
- Includes optimized high lift linkage, higher B-Pin height, and upgraded valves and cylinders.
- Great 2-pass match for larger on-highway trucks, bank excavation, and face loading in well shot rock loading applications.

- 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 uses multi-viscosity oil to improve fuel economy.

Increase Productivity and Efficiency with Integrated Cat[®] 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 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.
- A full range of bucket sizes and types provides an exciting new option in this size class.
- 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 1,000 hours (Tier 4 Final/Stage V)
 - Hydraulic filter change interval up to 1,000 hours
 - Transmission oil change interval up to 2,000 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.

Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
OPERATOR ENVIRONMENT			HYDRAULICS		
Cab, pressurized, sound suppression	✓		Hydraulic system, steering, load sensing	✓	
Door, remote opening system		✓	Ride control, 2V	✓	
EH controls, joystick, parking brake	✓		3 rd 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	✓		ELECTRICAL		
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		✓	MONITORING SYSTEM		
CAT CONNECT TECHNOLOGIES			Gauges: Speedometer, temperature, fuel level, DEF level	✓	
Link: Product Link™	✓		Indicators: Regeneration, temperature, pressure, battery, oil, DEF	✓	
Link: VIMS™		✓	ADDITIONAL EQUIPMENT		
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		✓
POWER TRAIN			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	✓		LINKAGE		
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	✓		OTHER OPTIONAL CONFIGURATIONS		
Axles, limited slip differentials		✓	Aggregate handler		✓
			Forestry		✓
			Industrial and waste handler		✓

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 982M model available at 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 in ³

Engine – (Tier 4 Final/Stage V)

Engine Model	Cat C13	
Maximum Power @ 1,700 rpm – SAE J1995	325 kW	436 hp
Maximum Power @ 1,700 rpm – ISO 14396	321 kW	430 hp
Maximum Net Power @ 1,700 rpm – SAE J1349	297 kW	398 hp
Maximum Net Power @ 1,700 rpm – ISO 9249	297 kW	398 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 in ³

- 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 CO₂ equivalent of 2.288 metric tonnes.

Weights

Operating Weight	35 563 kg	78,402 lb
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- Weight based on a machine configuration with Bridgestone 875/65R29 VLTS L4 radial tires, full fluids, operator, standard counterweight, cold start, roading fenders, Product Link, open differential axles, secondary steering, sound suppression, and a 6.1 m³ (8.0 yd³) GP bucket with BOCE.

Transmission

Speed	km/h	mph	Speed	km/h	mph
Forward 1	6.2	3.9	Reverse 1	7.0	4.3
Forward 2	11.9	7.4	Reverse 2	13.6	8.5
Forward 3	21.1	13.1	Reverse 3	24.1	15
Forward 4	37.5	23.3	Reverse 4	39.5	24.5

- Maximum travel speed in standard vehicle with empty bucket and standard L4 tires with 914 mm (36 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 Power Level (SAE J88:2013)	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."

Bucket Capacities

Bucket Range	4.6- 12.0 m ³	6.0-15.75 yd ³
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Operating Specifications

Static Tipping Load – Full 40° Turn:

With Tire Deflection	21 080 kg	46,473 lb
No Tire Deflection	22 393 kg	49,368 lb
Breakout Force	260 kN	58,450 lbf

- For a machine configuration as defined under "Weight."

- Full compliance to ISO 14397-1:2007 Sections 1 thru 6.

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	92 L	24.3 gal
Differentials and Final Drives – Rear	92 L	24.3 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	3083 mm	10'2"	3083 mm	10'2"
Height to Top of Exhaust Pipe	3719 mm	12'3"	3719 mm	12'3"
Height to Top of ROPS	3786 mm	12'6"	3786 mm	12'6"
Ground Clearance	426 mm	1'4"	426 mm	1'4"
Center Line of Rear Axle to Edge of Counterweight	2716 mm	8'11"	2823 mm	9'4"
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)	8584 mm	28'2"	9083 mm	29'10"
Hinge-Pin Height at Maximum Lift	4743 mm	15'6"	5153 mm	16'10"
Hinge-Pin Height at Carry	790 mm	2'8"	897 mm	2'11"
Lift Arm Clearance at Maximum Lift	3884 mm	12'8"	4072.1 mm	13'4"
Rack Back at Maximum Lift	57 degrees		56 degrees	
Rack Back at Carry Height	48 degrees		49 degrees	
Rack Back at Ground	42 degrees		40 degrees	
Maximum Width over Tires	3499 mm	11'6"	3499 mm	11'6"
Tread Width	2540 mm	8'4"	2540 mm	8'4"

- All dimensions are approximate and based on Bridgestone 875/65R29 VLTS L4 radial tires.



オフロード法2014年
基準適合



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