



# Cat<sup>®</sup> 980M

## Wheel Loader

*The new 980M Wheel Loader has a U.S. EPA Tier 4 Final and E.U. Stage IV ACERT™ engine equipped with a combination of proven electronic, fuel, air and aftertreatment components. Applying proven technologies systematically and strategically lets us meet our customer's high expectations for productivity, fuel efficiency, reliability and service life. Deep system integration results in reduced emissions, improved performance and improved fuel economy without interrupting machine performance making it seamless to operators. M Series Loaders are 10% more fuel efficient than the K Series Loaders and up to 25% more efficient than the H Series Loaders they replace.\* Aggregate Handler and other optional configurations are available.\*\**

### RELIABILITY, PRODUCTIVITY AND FUEL EFFICIENCY

- 10% more fuel efficient than K Series\*
- Up to 25% more efficient than H Series\*

#### Linkage and Work Tools

- Performance Series buckets and range of work tools
- Coupler ready (option)

#### Engine and Aftertreatment Advancements

- Cat<sup>®</sup> engine with ACERT™ Technology
- U.S. EPA Tier 4 Final and E.U. Stage IV emission standards
- Cat Clean Emissions Module with Selective Catalytic Reduction and automatic Cat Regeneration System
- Productive economy mode

#### Transmission Advancements

- Powershift transmission with single clutch speed shifts and torque based down shifts
- Lock up clutch torque converter with lock-to-lock shifting
- Split flow oil system and multi-viscosity oil

#### Axle Advancements

- Caliper disk parking brake
- Limited slip differentials (option)

#### Next Generation Hydraulic Systems

- Next generation main valve
- Next generation ride control system with dual accumulators
- Full flow and kidney loop filtration
- Load-sensing hydraulics with simultaneous hydraulic functions
- 3rd function (option)

### EASE OF OPERATION

#### Best-in-class Operator Environment

- Optimized all-around visibility
- E-H joystick steering (steering wheel optional)
- Touch screen multifunction color display with integrated controls and rearview camera
- Stair-like ingress and egress
- New wider door and increased glass area
- Seat-mounted fingertip electro-hydraulic implement controls
- Large convex rearview mirrors with integrated spot mirror
- Remote door opening (option)
- Automatic climate control
- Viscous cab mounts
- Low operator sound levels

#### Advanced Technology with Cat Connect

- Link technologies, like Product Link™ to monitor equipment and manage production using online VisionLink<sup>®</sup> software
- Payload technologies, like Cat Production Measurement (option) to measure payloads and optimize productivity
- Detect technologies, like the rear vision camera to keep people safe and help the operator work more productively

### SERVICE ACCESS

- Legacy one-piece hood with clamshell design
- Centralized service centers for hydraulic and electrical components
- Windshield cleaning platform and harness tie-off

\*Fuel efficiency is measured in mass of material moved per volume of fuel burned. Average efficiency improvement as tested and analyzed for an average composite cycle and stand configuration with variations per comparable model with and without economy mode active. Factors influence result variation such as, but not limited to, machine configuration, operator technique, machine application, climate, etc.

\*\*Optional configuration and equipment may vary from region to region. Consult your Caterpillar representative for further details.

**BUILT FOR IT.™**



# Cat 980M Wheel Loader

## Engine

Engine Model	Cat C13 ACERT	
Max Gross Power @ 1,700 rpm – SAE J1995	317 kW	425 hp
Max Gross Power @ 1,700 rpm – SAE J1995 (metric)	431 hp	
Max Gross Power @ 1,700 rpm – ISO 14396	313 kW	420 hp
Max Gross Power @ 1,700 rpm – ISO 14396 (metric)	426 hp	
Max Net Power @ 1,700 rpm – SAE J1349	288 kW	386 hp
Max Net Power @ 1,700 rpm – SAE J1349 (metric)	392 hp	
Max Net Power @ 1,700 rpm – ISO 9249	288 kW	386 hp
Max Net Power @ 1,700 rpm – ISO 9249 (metric)	392 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)	2085 N·m	1,538 lbf·ft
Displacement	12.5 L	763 in <sup>3</sup>

## Weights

Operating Weight	30 090 kg	66,197 lb
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- Weight based on a machine configuration with Michelin 29.5R25 XLDD1 L4 radial tires, full fluids, operator, standard counterweight, 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.

## Bucket Capacities

Bucket Range	4.2- 12.2 m <sup>3</sup>	5.25- 16.0 yd <sup>3</sup>
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## Operating Specifications

Static Tipping Load – Full 40° Turn – with Tire Deflection	19 565 kg	43,121 lb
Static Tipping Load – Full 40° Turn – No Tire Deflection	20 796 kg	45,834 lb
Breakout Force	224 kN	50,466 lbf

- For a machine configuration as defined under "Weight."
- Full compliance to ISO 143971:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing.

## Transmission

Forward 1	6.9 km/h	4.2 mph
Forward 2	13.3 km/h	8.1 mph
Forward 3	23.5 km/h	14.3 mph
Forward 4	40.0 km/h	24.4 mph
Reverse 1	7.8 km/h	4.8 mph
Reverse 2	15.2 km/h	9.3 mph
Reverse 3	26.9 km/h	16.4 mph
Reverse 4	40.0 km/h	24.4 mph

- Maximum travel speed in standard vehicle with empty bucket and standard L4 tires with 933 mm (37 in) roll radius.

## Service Refill Capacities

Fuel Tank	441 L	116.5 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	180 L	48 gal

## Hydraulic System

Implement Pump Type	Variable Displacement Piston	
Implement System:		
Maximum Pump Output (2,250 rpm)	445 L/min	118 gal/min
Maximum Operating Pressure	34 300 kPa	4,975 psi
Hydraulic Cycle Time – Total	10.1 Seconds	

## Sound

With Cooling Fan Speed at Max Value:	
Operator Sound Pressure Level (ISO 6396:2008)	72 dB(A)
Exterior Sound Power Level (ISO 6395:2008)	112 dB(A)
Exterior Sound Power Level (SAE J88:2013)*	78 dB(A)
With Cooling Fan Speed at 70% of Max Value:	
Operator Sound Pressure Level (ISO 6396:2008)	72 dB(A)
European Union Directive 2000/14/EC as amended by 2005/88/EC:	
Exterior Sound Power Level (ISO 6395:2008)	109 L <sub>WA</sub>

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

## Dimensions

	Standard Lift		High Lift	
Height to Top of Hood	3110 mm	10'2"	3110 mm	10'2"
Height to Top of Exhaust Pipe	3746 mm	12'3"	3746 mm	12'3"
Height to Top of ROPS	3813 mm	12'6"	3813 mm	12'6"
Ground Clearance	453 mm	1'5"	453 mm	1'5"
Center Line of Rear Axle to Edge of Counterweight	2469 mm	8'1"	2590 mm	8'6"
Center Line of Rear Axle to Hitch	1900 mm	6'2"	1900 mm	6'2"
Wheelbase	3800 mm	12'5"	3800 mm	12'5"
Overall Length (without bucket)	7964 mm	26'1"	8164 mm	26'9"
Hinge-Pin Height at Maximum Lift	4539 mm	14'10"	4760 mm	15'7"
Hinge-Pin Height at Carry	621 mm	2'0"	678 mm	2'2"
Lift Arm Clearance at Maximum Lift	3795 mm	12'5"	4041 mm	13'3"
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	3265 mm	10'8"	3265 mm	10'8"
Tread Width	2440 mm	8'0"	2440 mm	8'0"

- All dimensions are approximate and based on Michelin 29.5R25 XLDD1 L4 radial tires.

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