



# Cat<sup>®</sup> 980M

## Wheel Loader

2017

**The new 980M Wheel Loader, with the 2017 product update, applies proven technologies systematically and strategically to meet your high expectations for reliability, productivity, fuel efficiency, and long service life.**

**Meets U.S. EPA Tier 4 Final and EU Stage IV emission standards.**

### Reliability

- Cat<sup>®</sup> C13 ACERT™ engine and automatic Cat Regeneration System offer increased power density with a combination of proven electronic, fuel and air systems.
- Utilizing rigorous component design and machine validation processes results in unmatched reliability, durability and high uptime.

### Durability

- Heavy-duty planetary powershift transmission and axles handle extreme applications.
- Full flow hydraulic filtration system with additional loop filtration improves hydraulic system robustness and component life.

### Productivity

- Engine power increased by approximately 5% improves machine performance and response (*compared to H Series*).
- Lock-up clutch torque converter, combined with lock-to-lock shifting, delivers smooth shifts, fast acceleration and speed on grade.
- Easy-to-load Performance Series Buckets feature a wider mouth and curved side plates that improve material retention (fill factor) and decrease cycle times.
- Optional limited slip differentials improve performance in the pile and poor underfoot conditions.
- Optional Aggregate Handler configuration offers slightly higher payload capability for loose aggregate rehandling.\*

### Fuel Efficiency

- Up to 10% more fuel efficient than K Series and up to 25% more fuel efficient than H Series loaders.\*\*
- Power dense ACERT engine burns less fuel by providing power and torque when needed.
- Standard productive Economy Mode provides maximum fuel savings with minimal productivity impact.

\*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.

\*\*Actual results may vary based on factors such as, but not limited to, machine configuration, operator technique, machine application, climate, etc.

### Ease of Operation

- Best-in-class operator environment provides unmatched comfort, visibility, and efficiency.
- E-H joystick steering with force feedback for precision control and dramatically decreases operator arm fatigue.
- Intuitive, ergonomic controls and touch screen multifunction display keep operators focused on their work.
- Ride control system with dual accumulators provides excellent ride quality and lowers cab vibrations.

### Safety

- Excellent cab access with wide door, remote door opening option and stair-like steps.
- Floor to ceiling windshield, large mirrors with integrated spot mirrors and rear vision camera provide industry leading all-around visibility.

### Serviceability

- One-piece tilting hood with side and rear doors; hydraulic and electrical service centers make access fast and easy.
- Safe, ground level access to fuel fill and daily maintenance points means less servicing time is required.
- Optional, fully integrated Cat Autolube system provides full lube system monitoring and diagnostic test visibility.

### Cat Connect Technology

- Monitor, manage and enhance job site operations.
- Cat LINK Technologies: VisionLink<sup>®</sup> enables owners to access data wirelessly to monitor machine health, utilization and location.
- Cat DETECT Technologies: Integrated rear vision camera enhances visibility behind machine to help operators work safely. Optional Cat Rear Object Detection increases operator awareness of the working environment.
- Cat PAYLOAD Technologies: Optional Cat Production Measurement 2.0 brings simple and accurate on-the-go payload scale allowing operators to deliver exact loads and work more efficiently. Advanced Productivity subscription provides comprehensive actionable information to help you manage and improve the productivity and profitability of your operations.



# Cat® 980M Wheel Loader

## Engine

Engine Model	Cat C13 ACERT	
Maximum Power @ 1,700 rpm – SAE J1995	317 kW	425 hp
Maximum Power @ 1,700 rpm – SAE J1995 (metric)		431 hp
Maximum Power @ 1,700 rpm – ISO 14396	313 kW	420 hp
Maximum Power @ 1,700 rpm – ISO 14396 (metric)		426 hp
Maximum Net Power @ 1,700 rpm – SAE J1349	288 kW	386 hp
Maximum Net Power @ 1,700 rpm – SAE J1349 (metric)		392 hp
Maximum Net Power @ 1,700 rpm – ISO 9249	288 kW	386 hp
Maximum 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)	2054 N·m	1,515 lbf·ft
Displacement	12.5 L	763 in <sup>3</sup>

- 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

- Weight based on a machine configuration with Michelin 29.5R25 XLDD1 L4 radial tires, full fluids, operator, standard counterweight, cold start, loading fenders, Product Link™, open differential axles, secondary steering, sound suppression, and a 5.4 m<sup>3</sup> (7.1 yd<sup>3</sup>) GP 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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## Transmission

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

- Maximum travel speed in standard vehicle with empty bucket and standard L4 tires with 933 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 (ISO 6395:2008)	109 L <sub>WA</sub> ***

\*\*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."

## 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 143971:2007 Sections 1 thru 6.

## Service Refill Capacities

Fuel Tank	426 L	112.5 gal
DEF Tank	21 L	5.5 gal
Cooling System	53 L	14 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 XLDD1 L4 radial tires.

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Replaces AEXQ1952-01  
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