Cat® 980L

Wheel Loader

2017

The new 980L 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 China Nonroad Stage III emission standards, U.S. EPA Tier 2/EU Stage II or Tier 3/Stage IIIA equivalent emission standards, depending on emission standards of specific country.

Reliability

- Cat® C13 ACERT™ engine offers increased power.
- Utilizing rigorous component design and machine validation processes results in unmatched reliability, durability and high uptime.

Durability

- Heavy-duty powershift transmission and axles handle extreme applications.
- Improved hydraulic hose routing reduces potential hose wear.
- 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.
- High capacity torque converter results in greater digging efficiency.
- Z-bar linkage provides high breakout force at ground level.
- Optional high lift linkage offers increased hinge pin height to load more easily in a variety of applications.
- 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 25% lower fuel consumption than H Series.**
- Power dense ACERT engine burns less fuel by providing power and torque when needed.
- Performance Series Buckets feature a longer floor that easily digs through the pile resulting in lower fuel consumption.
- Load sensing hydraulics result in proportional flow for implement and steering on demand.
- 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.

Ease of Operation

- New best-in-class operator environment provides unmatched comfort, visibility, and efficiency.
- Intuitive, ergonomic controls keep operators focused on their work.
- Optional new ride control system with dual accumulators provides excellent ride quality and lowers cab vibrations.

Safety

- Excellent cab access with wide door and stair-like steps.
- Floor to ceiling windshield, large mirrors with integrated spot mirrors and rear vision camera provide industry leading all-around visibility.
- Robust, repositioned grab bars provide safe access to the machine.

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® 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 which enhances site safety.
- 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.

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

CAT®

Cat® 980L Wheel Loader

Engine

Engine Model	Cat C13 ACERT
Max Power @ 1,800 rpm – ISO 14396 (metric)	303 kW (412 hp)
Max Net Power @ 1,800 rpm – ISO 9249 (metric)	278 kW (378 hp)
Peak Gross Torque (1,300 rpm) – ISO 14396	2172 N·m
Maximum Net Torque (1,000 rpm)	2040 N·m
Displacement	12.5 L

Weight

Operating Weight	30 090 kg

- 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^3 general purpose bucket with BOCE.

Bucket Capacities

Bucket Range	4.2-12.2 m^3

Operating Specifications

Static Tipping Load – Full 37° Turn – with Tire Deflection	19 565 kg
Static Tipping Load – Full 37° Turn – No Tire Deflection	20 796 kg
Breakout Force	224 kN

- 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.

Sound

With Cooling Fan Speed at Maximum Speed:	
Operator Sound Pressure Level (ISO 6396:2008)	75 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, 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_{WA}***
**For machines in countries that adopt the "EU Directives."	
***European Union Directive "2000/14/EC" as amended by "2005/88/EC."	

Transmission

Forward 1	6.9 km/h
Forward 2	13.3 km/h
Forward 3	23.5 km/h
Forward 4	39.5 km/h
Reverse 1	7.8 km/h
Reverse 2	15.2 km/h
Reverse 3	26.9 km/h
Reverse 4	39.5 km/h

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

Service Fill Capacities

Fuel Tank	426 L
Cooling System	45 L
Crankcase	37 L
Transmission	77 L
Differentials and Final Drives – Front	84 L
Differentials and Final Drives – Rear	84 L
Hydraulic Tank	153 L

Hydraulic System

Implement Pump Type	Variable Displacement Piston
Implement System:	
Maximum Pump Output (2,250 rpm)	449 L/min
Maximum Operating Pressure	34 300 kPa
Hydraulic Cycle Time – Total	10.1 Seconds

Dimensions

	Standard Lift	High Lift
Height to Top of Hood	3110 mm	3110 mm
Height to Top of Exhaust Pipe	3746 mm	3746 mm
Height to Top of ROPS	3813 mm	3813 mm
Ground Clearance	453 mm	453 mm
Center Line of Rear Axle to Edge of Counterweight	2608 mm	2608 mm
Center Line of Rear Axle to Hitch	1900 mm	1900 mm
Wheelbase	3800 mm	3800 mm
Overall Length (without bucket)	8214 mm	8302 mm
Hinge Pin Height at Maximum Lift	4539 mm	4760 mm
Hinge Pin Height at Carry	621 mm	678 mm
Lift Arm Clearance at Maximum Lift	3795 mm	4010 mm
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	3296 mm
Tread Width	2440 mm	2440 mm

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

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at **www.cat.com**

Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

AEXQ1937-01
Replaces AEXQ1937
(AME, CIS, GN1, GN2, India, Indonesia, LACD, Southeast Asia)