



Cat[®] 982M

Wheel Loader

2017

The new 982M 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. This all-purpose machine is a great 2-pass match for larger on-highway trucks, bank excavation and even face loading in well shot rock applications. Long standard lift arms make the 982M an excellent rail car loader.

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

Reliability

- Cat[®] C13 ACERT™ engine with Cat Clean Emissions Module and automatic Cat Regeneration System offers 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

- Optimized engine power, when demanded, improves machine performance and response.
- 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).
- Optional limited slip differentials improve performance.
- 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 controls and touch screen multifunction display.
- Ride control system with dual accumulators provides excellent ride.

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.
- 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 increased 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.



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Engine

Engine Model	Cat C13 ACERT	
Maximum Power @ 1,700 rpm – SAE J1995	325 kW	436 hp
Maximum Power @ 1,700 rpm – SAE J1995 (metric)		442 hp
Maximum Power @ 1,700 rpm – ISO 14396	321 kW	430 hp
Maximum Power @ 1,700 rpm – ISO 14396 (metric)		436 hp
Maximum Net Power @ 1,700 rpm – SAE J1349	297 kW	398 hp
Maximum Net Power @ 1,700 rpm – SAE J1349 (metric)		404 hp
Maximum Net Power @ 1,700 rpm – ISO 9249	297 kW	398 hp
Maximum Net Power @ 1,700 rpm – ISO 9249 (metric)		404 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)	2058 N·m	1,518 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.

Bucket Capacities

Bucket Range	4.6-12.0 m ³	6.0-15.75 yd ³
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Transmission

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

• 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)	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 _{WA} ***
**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	21 080 kg	46,473 lb
Static Tipping Load – Full 40° Turn – 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 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	92 L	24.3 gal
Differentials and Final Drives – Rear	92 L	24.3 gal
Hydraulic Tank	180 L	48 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	
Height to Top of Hood	3083 mm	10'2"
Height to Top of Exhaust Pipe	3719 mm	12'3"
Height to Top of ROPS	3786 mm	12'6"
Ground Clearance	426 mm	1'4"
Center Line of Rear Axle to Edge of Counterweight	2716 mm	8'11"
Center Line of Rear Axle to Hitch	1900 mm	6'3"
Wheelbase	3800 mm	12'6"
Overall Length (without bucket)	8584 mm	28'2"
Hinge-Pin Height at Maximum Lift	4743 mm	15'6"
Hinge-Pin Height at Carry	790 mm	2'8"
Lift Arm Clearance at Maximum Lift	3884 mm	12'8"
Rack Back at Maximum Lift	57 degrees	
Rack Back at Carry Height	48 degrees	
Rack Back at Ground	42 degrees	
Maximum Width over Tires	3499 mm	11'6"
Tread Width	2540 mm	8'4"

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

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

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AEXQ1964-01
Replaces AEXQ1964
(N Am, Eur)

