

Cat® 972M XE

Wheel Loader **2017**

The new 972M XE 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. The XE technology improves fuel efficiency by up to 25% over the M Series standard configuration and up to 35% over the K Series standard configuration.**

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

Reliability

- Cat® C9.3 ACERT™ engine 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

- Cat continuously variable transmission and axles handle extreme applications.
- Full flow hydraulic filtration system with additional loop filtration improves hydraulic system robustness and component life.

Productivity

- Advanced power train delivers superior performance and fuel efficiency while simplifying interface and operating technique.
- Integrated continuously variable transmission with multi-viscosity oil provides maximum and continuous power at optimal speeds.
- Power train control independent of engine speed with energy recovery improves efficiency and fuel economy.
- Easy-to-load Performance Series Buckets feature a wider mouth and curved side plates that improve material retention (fill factor).
- On-the-go disc-type front manual differential locks (front and rear fully automatic option) improve performance.
- Optional Aggregate Handler configuration option offers slightly higher payload capability for loose aggregate rehandling.*

Fuel Efficiency

- Up to 25% more fuel efficient than the M Series standard configuration and up to 35% more than the K Series standard configuration.**
- 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.
- *Requires conformance to Caterpillar payload policy. Consult your dealer or Caterpillar representative for availability and 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 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.
- 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.
- 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® 972M XE Wheel Loader

Cat C9.3 ACERT			
232 kW	311 hp		
	315 hp		
232 kW	311 hp		
	315 hp		
1728 N·m	1,275 lbf-ft		
1708 N·m	1,260 lbf-ft		
1618 N·m	1,193 lbf-ft		
9.3 L	568 in ³		
	232 kW 232 kW 1728 N·m 1708 N·m 1618 N·m		

 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	24 896 kg	54,871 lb
Weight based on a machine configuration with Micl L3 radial tires, full fluids, operator, standard counter		

 Weight based on a machine configuration with Michelin 26.5R25 XHA2 L3 radial tires, full fluids, operator, standard counterweight, cold start, roading fenders, Product Link™, manual diff lock/open axles (front/rear), power train guard, secondary steering, sound suppression and a 4.8 m³ (6.28 yd³) general purpose bucket with BOCE.

	Bucket Capacities		
Bucket Capacities		3.20- 9.94 m³	4.19- 13.00 yd³

Transmission – Virtual Gears					
Forward 1	6.7 km/h	4.1 mph	Reverse 1	6.7 km/h	4.1 mph
Forward 2	12.6 km/h	7.7 mph	Reverse 2	12.6 km/h	7.7 mph
Forward 3	22.1 km/h	13.5 mph	Reverse 3	28.0 km/h	17.1 mph
Forward 4	39.5 km/h	24.5 mph			

• Maximum travel speed in standard vehicle with empty bucket and standard L3 tires with 826 mm (32.5 in) roll radius.

	Sound					
With Cooling Fan Speed at Maximum Value:						
	Operator Sound Pressure Level (ISO 6396:2008)	67 dB(A)				
	Exterior Sound Power Level (ISO 6395:2008)	107 dB(A)				
	Exterior Sound Pressure Level (SAE J88:2013)	76 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) 67 dB(A						
	Exterior Sound Power Level (ISO 6395:2008)	105 L _{WA} ***				
**For machines in European Union countries and in countries that adop the "EU Directives."						
	***European Union Directive "2000/14/EC" as amended	by "2005/88/EC."				

Operating Specifications				
Static Tipping Load – Full 37° Turn – with Tire Deflection	16 164 kg	35,626 lb		
Static Tipping Load – Full 37° Turn – No Tire Deflection	17 421 kg	38,396 lb		
Breakout Force	196 kN	44,075 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.

Service Refill Capacities		
Fuel Tank	302 L	79.8 gal
DEF Tank	16.8 L	4.4 gal
Cooling System	71.6 L	19 gal
Crankcase	24.5 L	6.5 gal
Transmission	63 L	16.6 gal
Differentials and Final Drives – Front	57 L	15.1 gal
Differentials and Final Drives – Rear	57 L	15.1 gal
Hydraulic Tank	125 L	33 gal

Hydraulic System				
Implement Pump Type	Variable Displacement Piston			
Implement System:				
Maximum Pump Output (1,600 rpm)	385 L/min 102 gal/min			
Maximum Operating Pressure	31 000 kPa 4,496 psi			
Hydraulic Cycle Time – Total	11 Seconds			

Dimensions					
	Standard Lift		High Lift		
Height to Top of Hood	2818 mm	9'2"	2818 mm	9'2"	
Height to Top of Exhaust Pipe	3522 mm	11'6"	3522 mm	11'6"	
Height to Top of ROPS	3587 mm	11'9"	3587 mm	11'9"	
Ground Clearance	434 mm	1'5"	434 mm	1'5"	
Center Line of Rear Axle to Edge of Counterweight	2500 mm	8'2"	2500 mm	8'2"	
Center Line of Rear Axle to Hitch	1775 mm	5'9"	1775 mm	5'9"	
Wheelbase	3550 mm	11'7"	3550 mm	11'7"	
Overall Length (without bucket)	7774 mm	25'6"	8109 mm	26'7"	
Hinge Pin Height at Maximum Lift	4458 mm	14'7"	4793 mm	15'8"	
Hinge Pin Height at Carry	680 mm	2'2"	778 mm	2'6"	
Lift Arm Clearance at Maximum Lift	3843 mm	12'7"	4140 mm	13'7"	
Rack Back at Maximum Lift	56 degrees		71 degrees		
Rack Back at Carry Height	50 degrees		49 degrees		
Rack Back at Ground	41 degrees		39 degrees		
Maximum Width over Tires	3009 mm	9'10"	3009 mm	9'10"	
Tread Width	2230 mm	7'3"	2230 mm	7'3"	
a All dimensions are approximate and based on L2 VIIA2 times					

• All dimensions are approximate and based on L3 XHA2 tires.

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

© 2017 Caterpillar All rights reserved

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

CAT, CATERPILLAR, SAFETY.CAT.COM, their respective logos, "Caterpillar Yellow" and the "Power Edge" trade dress, as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

 $Vision Link is a \, trademark \, of \, Trimble \, Navigation \, Limited, registered \, in \, the \, United \, States \, and \, in \, other \, countries.$

AEXQ1966-01 Replaces AEXQ1966 (N Am, Eur)

