

Cat[®] 972 XE Wheel Loader

The Cat[®] 972 XE Wheel Loader delivers up to 35% increased fuel efficiency,* premium performance with simple-to-use standard technologies to boost operator efficiencies, and lower maintenance costs by up to 25%.* This machine is designed to meet emission standards without interrupting operation. Improved performance, reliability, durability, and versatility result in a machine that is better built to meet your needs.

*Compared to previous Cat model

Superior Fuel Efficiency

- Up to 35% better fuel efficiency compared to previous Cat model.
- Deep system integration of the Cat continuously variable transmission, engine, hydraulic, and cooling systems results in significantly increased performance and fuel efficiency.
- Eliminating the torque converter allows the capability to control engine rpm and machine speed independently, resulting in efficient digging, fine control, and easy operation.
- Lower rated engine speed reduces component wear and operating noise.
- Power dense engine burns less fuel by providing power and torque when needed.

Achieve Greater Productivity

- Continuously variable transmission delivers smooth, fast acceleration and speed on grade.
- Machine maneuvering on grade is made easy with speed-hold and anti-rollback.
- Integrated continuously variable transmission provides maximum, steady power at optimal speeds.
- Advanced rimpull control for best loading efficiency in the pile and tire wear reduction.
- New Autodig with Auto Set Tires for consistent high bucket fill factors.
- Application Profiles optimize machine settings for different applications at one push of a button.
- Job Aids help operators improve and optimize their operating skills.
- Performance Series Buckets utilize a system-based approach to balance bucket shape against the machine's linkage, resulting in higher fill factors and better material retention when compared with other buckets of the same rated capacity.
- Automatic engine idle shutdown system significantly reduces idle time, overall operating hours, and fuel consumption.
- Dual ride control accumulator system enables a wide payload range and better ride quality.

- Standard manual front differential provides additional traction when needed. Automatic front and rear locks are available as an option.
- Optional aggregate handler configuration offers higher payload capability for loose aggregate handling.**
- With Fusion[™] Quick Coupler, buckets can be changed without leaving the cab, allowing the machine to quickly move from task to task.

Smart Machine for Efficient Operation

- Standard Cat technologies to monitor, manage, and enhance your jobsite operations.
 - Cat Payload with Assist provides accurate weighing*** of the bucket payloads. Data is displayed in real time to improve productivity and loading accuracy with manual tip-off.
 - Product Link[™] wirelessly connects the machine to the office, giving you access to production and essential health information needed to make timely, fact-based decisions to help you better run your business.
 - New Autodig allows the operator to fully automate bucket loading to improve fill factors and loading time.
 - Auto Set Tires promotes proper loading technique, significantly reducing tire slip and tire wear.
 - Onboard Job Aids and Operator Controls Help to ease operation.
- Optional Cat Advanced Payload with Assist:
 - Tip Off Assist automatizes load adjustment of the final bucket to match hauling unit target.
 - Enhanced lists management, site integration, and extended scale features to help manage and improve productivity and profitability of operations.
- Optional Cat Productivity subscription provides detailed and comprehensive actionable information to help you manage and improve the productivity and profitability of your operations.
- **Optional configurations and equipment may vary from region to region and require conformance to Caterpillar payload policy. Consult your dealer or Caterpillar representative for details.
- ***Not legal for trade.



Proven Reliability

- Cat C9.3B engine[†] offers high power density with a combination of proven electronics, fuel, and air systems.
- Equipped with automatic Cat regeneration system, Cat Clean Emissions Module (CEM) with Diesel Particulate Filter (DPF), and Diesel Exhaust Fluid (DEF) tank and pump.
- Features an electric fuel priming pump, fuel-water separator, and secondary filtration system.
- Thorough component design and machine validation processes result in unmatched reliability and uptime.

Safety Features

- Rear-vision camera enhances visibility behind the machine, helping you work safely and confidently.
- Optional multiview (360°) vision system helps the operator monitor the surroundings of the machine at all times.
- Optional Cat Detect radar technology enhances awareness by monitoring the working environment and alerts operators to hazards.
- Cab access with wide door, remote door opening, and inclined steps add solid stability.
- Floor-to-ceiling windshield, large mirrors with integrated spot mirrors, and rear-vision camera provide industry leading all-around visibility.
- Computerized monitoring system includes several warning indicators.
- Monitored seat belt is standard and can be enhanced with an optional exterior indicator.
- Optional access light and under-hood service light system to provide illuminated access to the machine and daily checks even in the dark.

Reduced Maintenance Time and Costs

- Extended fluid and filter change intervals reduce maintenance costs by up to 25%.*
- Convenient access to hydraulic and electrical service centers for easy ground-level servicing.
- Remote Troubleshoot can connect the machine to the dealer service department to help diagnose problems quickly so you can get back to work.
- Remote Flash works around your schedule to ensure your machine's software is up to date for optimal performance.
- The Cat App helps you manage fleet location, hours, and maintenance schedules; it also alerts you for required maintenance and allows you to request service from your local Cat dealer.
- Integrated Autolube extends component and service life.
- One-piece tilting hood makes engine compartment access fast and easy.
- *Parts and fluids only

Durability

- Heavy-duty axles designed to handle extreme applications.
- Full-flow hydraulic filtration system with additional kidney-loop filtration improves hydraulic system reliability and component life.

Work in Comfort in the All New Cab

- Next-generation, easily adjustable seat and suspension for improved operator comfort. It comes in two trim levels and can be equipped with a 4-point harness (kit).
- Increased legroom and adjustable seat controls for increased comfort and efficiency.
- Automatic air conditioning system keeps the cab cool as desired.
- New in-cab dashboard and high-resolution touch display(s) are easy to use, intuitive, and user friendly.
- Sound suppression, seals, and viscous cab mounts decrease noise and vibration for a quieter work environment.
- The seat-mounted electro-hydraulic joystick steering system provides precision control and dramatically reduces arm fatigue, resulting in excellent comfort and accuracy.
- The next generation of ride control works as a shock absorber, improving ride quality over rough terrain.

Purpose-built Specialty Configurations

- Application-specific arrangements direct from the factory for optimized performance and added durability in the toughest applications, including:
 - Industrial and waste models feature guarding and reinforcement necessary for work in transfer stations, recycling depots, scrap yards, and demolition sites.

[†]Meets U.S. EPA Tier 4 Final and EU Stage V emission standards.

Standard and Optional Equipment

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional
OPERATOR ENVIRONMENT		
Cab, pressurized, sound suppression	\checkmark	
Door, remote opening system	\checkmark	
EH implement controls, parking brake	\checkmark	
Steering, joystick	\checkmark	
Entertainment radio (FM, AM, USB, BT)		\checkmark
Entertainment radio (DAB+)		\checkmark
CB radio ready		\checkmark
Seat, suede/cloth, air suspension, heated	\checkmark	
Seat, leather/cloth, air suspension, heated/ cooled		\checkmark
Touchscreen display	\checkmark	
Visibility: mirrors, rear-vision camera	\checkmark	
Multiview (360°) vision system		\checkmark
Cat Detect rear radar system		\checkmark
Dedicated rearview screen		\checkmark
Mirrors, heated	✓	
Air conditioner, heater, defroster (auto temp, fan)	\checkmark	
Sun visor, front, retractable	\checkmark	
Sun visor, rear, retractable	✓	
Window cleaning platform, front	✓	
Window, front, laminated	\checkmark	
Windows, front, heavy duty		\checkmark
Full cab window guard		\checkmark
ON-BOARD TECHNOLOGIES		
Cat Payload scale	✓	
Autodig with Auto Set Tires	\checkmark	
Operator ID & machine security	\checkmark	
Application Profiles	\checkmark	
Job Aids	\checkmark	
Controls Help and eOMM	√	
Cat Advanced Payload		\checkmark
Cat Payload Printer		✓
POWER TRAIN		
Cat C9.3B engine	√	
Electric fuel priming pump	√	
Fuel-water separator and secondary fuel filter	√	
Engine, air precleaner	\checkmark	
Turbine, air precleaner		\checkmark
Radiator, high debris		\checkmark
Cooling fan, reversible		✓
Axles, front differential lock	✓	
Axles, auto differential locks front and rear		√
Axles, ecology drains	√	
Axles, AOC ready, extreme temperature seals		√
Axles, oil cooler		√
Transmission, continuous variable	√	
Rimpull control	√	
Throttle lock mode	\checkmark	
Hill and speed hold on grades	\checkmark	

	Standard	Optional
DOWED TRAIN (Continued)	Stanuaru	οριισιιαι
POWER TRAIN (Continued) Service brakes, hydraulic, fully enclosed	✓	
wet disc, wear indicators	•	
Park brake, caliper on front axles, spring applied–pressure released	~	
HYDRAULICS		
Implement system, load sensing with electro-hydraulic variable displacement piston pump	\checkmark	
Steering system, load sensing with dedicated variable displacement piston pump	\checkmark	
Ride control, dual accumulators	\checkmark	
3 rd and 4 th auxiliary functions with ride control		\checkmark
Oil sampling valves, Cat XT™ hoses	\checkmark	
Quick coupler control		\checkmark
ELECTRICAL		
Starting and charging system, 24V	\checkmark	
Starter, electric, heavy duty	\checkmark	
Cold start, 120V or 240V		\checkmark
Lights: halogen, 4 work lights, 2 rear-vision lights	\checkmark	
Lights: roading with turn signals	\checkmark	
Lights: LED		\checkmark
Warning beacon		✓
MONITORING SYSTEM		
Front dash with analog gauges, LCD display, and warning lights	\checkmark	
Primary touchscreen monitor (Cat Payload, quad screens, machine settings & messages)	\checkmark	
Reversing strobe lights		\checkmark
LINKAGE		
Standard lift, Z-bar	\checkmark	
High lift, Z-bar		√
Kickouts: lift and tilt	✓	
ADDITIONAL EQUIPMENT		
Cat Autolube system		✓
Fenders, roading		\checkmark
Guards: power train, crankcase, cab, cylinders, rear		√
Biodegradable hydraulic oil		√
High-speed oil change system		\checkmark
Toolbox		\checkmark
Wheel chocks		\checkmark
Secondary steering system, electrical*		\checkmark
SPECIAL CONFIGURATIONS		
Aggregate handler		\checkmark
Waste and industrial		\checkmark
Corrosion resistant		\checkmark

*Standard where mandated

Technical Specifications

Engine			
Engine Model	Cat C9.3B		
Engine Power @ 1,600 rpm – ISO 14396:2002	253 kW	339 hp	
Gross Power @ 1,600 rpm – SAE J1995:2014	256 kW	343 hp	
Net Power @ 1,600 rpm – ISO 9249:2007, SAE J1349:2011	236 kW	316 hp	
Engine Torque @ 1,200	1864 N·m	1,375 lbf-ft	
Gross Torque @ 1,200 rpm – SAE J1995:2014	1882 N∙m	1,388 lbf-ft	
Net Torque @ 1,200 rpm – ISO 9249:2007, SAE J1349:2011	1745 N∙m	1,287 lbf-ft	
Displacement	9.3 L		

• Cat engine meets U.S. EPA Tier 4 Final and EU Stage V emission standards. • The net power advertised is the power available at the flywheel when the engine is equipped with fan, alternator, air cleaner, and aftertreatment.

- Cat engines are compatible with the following renewable, alternative, and
- bio-fuels* with lower greenhouse gas emission impact: • Up to B20 biodiesel (FAME) **
- Up to 100% HVO and GTL renewable fuels
- * Refer to guidelines for successful application. Please consult your Cat dealer or "Caterpillar Machine Fluids Recommendations" (SEBU6250) for details.
- ** For use of higher blends, consult your Cat dealer.

Weight

W GIYIIL		
Operating Weight	24 890 kg	54,858 lb
• Weight based on a machine configuration with Brid	gestone 26.5	5R25 VJT
L3 radial tires, full fluids, operator, standard counterweight, ride control,		
cold start, roading fenders, Product Link, front manual differential/open		
rear axles, power train guard, secondary steering,	sound suppre	ession,

and a 4.8 m³ (6.25 yd³) general purpose bucket with BOCE.

Transmission					
Speed	km/h	mph	Speed	km/h	mph
Forward 1	6.9	4.3	Reverse 1	6.9	4.3
Forward 2	12.9	8.0	Reverse 2	12.9	8.0
Forward 3	22.7	14.1	Reverse 3	28.7	17.9
Forward 4	39.5	24.5	Reverse 4	N/A	N/A
Maximum travel speed in standard vehicle with empty bucket and					

standard L3 tires with 849 mm (33 in) roll radius.

Sound

Juin	u _
With Cooling Fan Speed at Maximum Valu	ue:
Operator Sound Pressure Level (ISO 6	6396:2008) 67 dB(A)
Exterior Sound Power Level (ISO 6395	5:2008) 107 dB(A)
Exterior Sound Pressure Level (SAE J	J88:2013) 74 dB(A)*
*Distance of 15 m (49.2 ft), moving forw	ward in second gear ratio.
With Cooling Fan Speed at 70% of Maxim	ium Value:**
Operator Sound Pressure Level (ISO 6	6396:2008) 67 dB(A)
Exterior Sound Power Level	105 dB(A)***
**For machines in European Union coun the "EU Directives."	ntries and in countries that adopt

***European Union Directive "2000/14/EC" as amended by "2005/88/EC."

Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.6 kg (3.5 lb) of refrigerant which has a CO, equivalent 2.288 metric tonnes (2.522 tons).

Bucket Capacities				
Bucket Range	2.8-14.0 m ³ 3.3	75-18.25 yd³		
Operating Specifi	cations			
Static Tipping Load – Full 37° Turn:				
With Tire Deflection	16 297 kg	35,919 lb		
No Tire Deflection	17 505 kg	38,582 lb		
Breakout Force	196 kN	44,702 lbf		

• For a machine configuration as defined under "Weight."

• Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing.

Service Refill Capacities				
Fuel Tank	303 L	80.1 gal		
DEF Tank	26 L	6.9 gal		
Cooling System	66 L	17.4 gal		
Crankcase	23 L	6.1 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	114 L	30.1 gal		

ilyuldulic System		
Implement System:		
Maximum Pump Output (1,400 rpm)	348 L/min	92 gal/min
Maximum Operating Pressure	31 000 kPa	4,496 psi
Hydraulic Cycle Time – Total	10.1 se	econds

Hydraulic System

Dimensions				
	Standard Lift		High Lift	
Height to Top of Hood	2846 mm	9'4"	2846 mm	9'4"
Height to Top of Exhaust Pipe	3527 mm	11'7"	3527 mm	11'7"
Height to Top of ROPS	3589 mm	11'10"	3589 mm	11'10"
Ground Clearance	420 mm	1'4"	420 mm	1'4"
Center Line of Rear Axle to Edge of Counterweight	2458 mm	8'0"	2458 mm	8'0"
Center Line of Rear Axle to Hitch	1775 mm	5'10"	1775 mm	5'10"
Wheelbase	3550 mm	11'8"	3550 mm	11'8"
Overall Length (without bucket)	7731 mm	25'5"	8069 mm	26'6"
Hinge-Pin Height at Maximum Lift	4464 mm	14'7"	4800 mm	15'8"
Hinge-Pin Height at Carry	682 mm	2'2"	780 mm	2'6"
Lift Arm Clearance at Maximum Lift	3842 mm	12'7"	4179 mm	13'8"
Rack Back at Maximum Lift	56 deg	rees	71 degr	ees
Rack Back at Carry Height	49 degrees		49 degr	ees
Rack Back at Ground	39 degrees		37 degr	ees
Width over Tires (loaded)	3011 mm	9'11"	3011 mm	9'11"
Tread Width	2230 mm	7'3"	2230 mm	7'3"

• All dimensions are approximate and based on machine equipped with 4.8 m³ (6.25 yd³) general purpose bucket with BOCE and Bridgestone 26.5R25 VJT L3 radial tires.

AEX03252-00 (06-2021) **Build Number 14A** (N Am, Europe)



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. © 2021 Caterpillar. All Rights Reserved. CAT, CATERPILLAR, LET'S DO THE WORK, their respective logos, Fusion, Product Link, XT, "Caterpillar Corporate Yellow", the "Power Edge" and Cat "Modern Hex" trade dress as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission