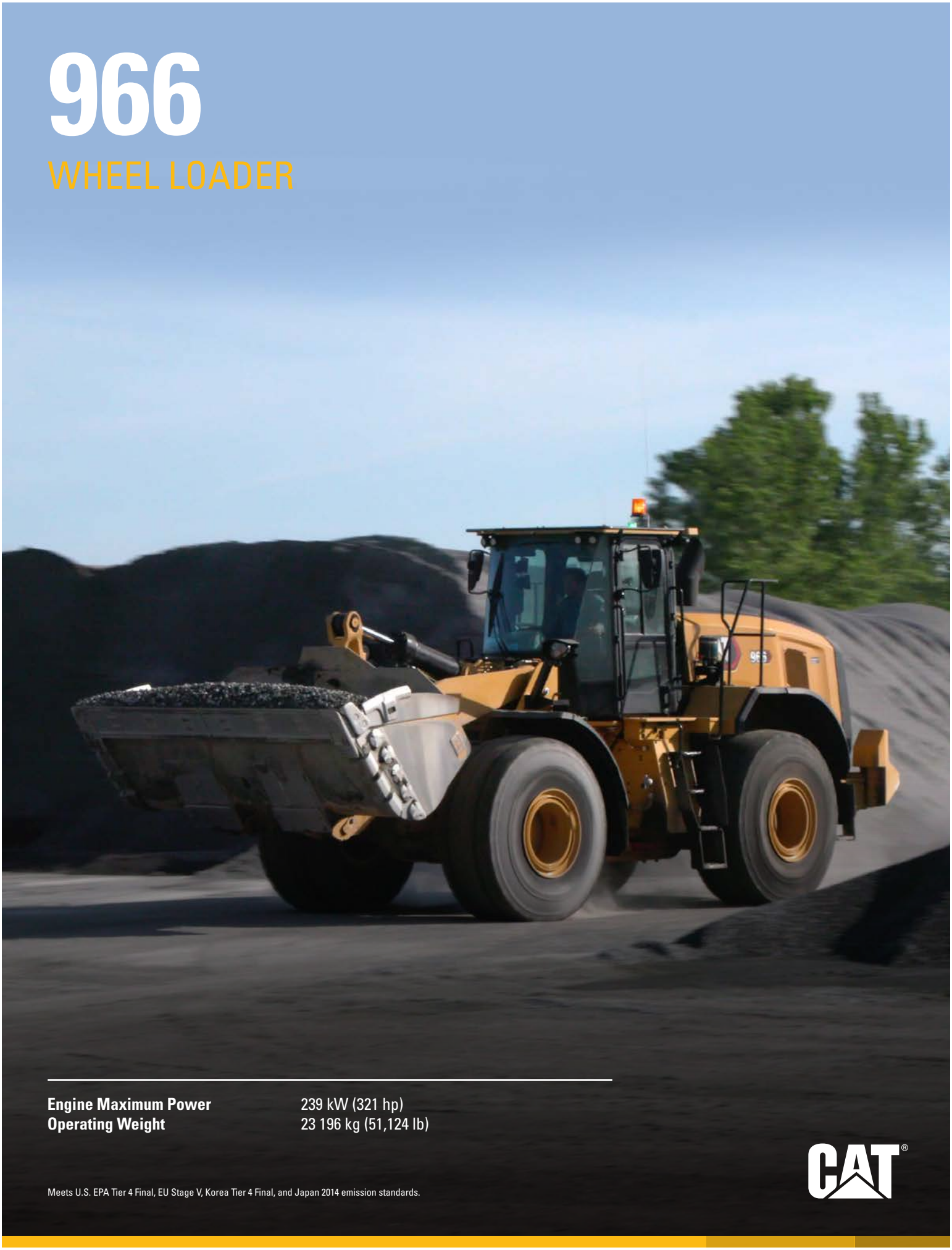
966

WHEEL LOADER



Engine Maximum Power	239 kW (321 hp)
Operating Weight	23 196 kg (51,124 lb)

Meets U.S. EPA Tier 4 Final, EU Stage V, Korea Tier 4 Final, and Japan 2014 emission standards.

CAT®

CAT® 966

SUPERIOR TECHNOLOGY. INCREASED PRODUCTIVITY.

The Cat® 966 Wheel Loader brings premium performance with simple-to-use technologies as a standard offering, boosting operator efficiencies and delivering increased productivity. Improved performance, reliability, durability, and versatility result in a machine that is better built to meet your needs.



WHEEL LOADERS MADE FOR MORE

Cat wheel loaders were built with efficiency in mind, offering you the best in:

+ RELIABILITY
+ DURABILITY
+ PRODUCTIVITY
+ FUEL EFFICIENCY
+ TECHNOLOGY
+ VERSATILITY

Experience higher performance while reducing costs and fuel consumption with Cat wheel loaders.



UP TO 20%
LOWER MAINTENANCE COSTS*

Save time and money with extended maintenance intervals and remote troubleshooting and flash capability. Get a better view of maintenance points with the optional under-hood service light system.

SMART MACHINE
FOR EFFICIENT OPERATION

Integrated Cat technologies like Cat Payload** with Assist and on-board job aids make machine operation easier, so your jobsite is more efficient.

UP TO 10%
MORE PRODUCTIVITY*

New Autodig with Auto Set Tires offers automated loading, consistent high fill factors, and reduced tire wear, while Cat Payload** with Assist helps you load to target every time to boost productivity.

MAXIMIZE EFFICIENCY
RIGHT FROM THE CAB

Cat wheel loaders feature integrated technologies that help make your operation more efficient.



A MORE EFFICIENT JOBSITE MEANS
MORE PROFIT IN EVERY LOAD.

*Compared to previous Cat models.
**Not legal for trade.

RELIABLE, PROVEN **COMPONENTS & TECHNOLOGY**

Staying ahead of the competition, Caterpillar offers a wide variety of cutting-edge technologies to get the job done quickly and easily with outstanding accuracy.



COMPONENTS YOU CAN COUNT ON

Every machine is equipped with a combination of proven electronic, hydraulic, cooling, and power train systems. Amplify your efficiency with better traction and enhanced work tools, delivering continuous productivity for your machine. Reliable fuel systems boost machine performance and fuel economy, lowering your overall costs and fuel consumption. You can rely on our components to save you time, money, and effort.



PRODUCTIVE RESULTS

WORK SMART AND MOVE MORE

ON-BOARD JOB AIDS

Job Aids help make machine operation easier, while also allowing your operators improve and optimize their skills on the jobsite.

PERFORMANCE SERIES BUCKETS

Easy-to-load Performance Series Buckets improve material retention and reduce dig times, significantly improving productivity and fuel efficiency, resulting in unsurpassed production capabilities with increased fill factors – ranging from 100% to 115%.

POWERSHIFT TRANSMISSION

Featuring a lock-up clutch torque converter, our power trains deliver smooth shifting, fast acceleration, and speed on grade, amplifying your performance and fuel efficiency.

BETTER TRACTION

New Autodig with Auto Set Tires assures that the front tires have adequate traction for consistent high bucket fill factors delivering up to 10% more productivity compared to previous model. Front manual differential lock is standard with optional automatic front and rear locks.

OPTIMIZED RIDE CONTROL SYSTEM

Dual accumulator system enables a better ride in loaded and unloaded situations. It improves smoothness over rough terrain, increasing confidence and efficiency and ensuring excellent material retention.

AGGREGATE HANDLER

Aggregate packages are specialized offerings for loose aggregate rehandling applications. Payloads can be increased above other applications by installing larger buckets and counterweights in compliance with Caterpillar payload policy.

THE RIGHT MIX OF FEATURES

Fine-tuned for the right applications:

+ BETTER FUEL ECONOMY, MAXIMIZED UPTIME, AND LOWER MAINTENANCE COSTS
+ HIGH POWER AND PERFORMANCE ACROSS A VARIETY OF APPLICATIONS
+ ENHANCED RELIABILITY THROUGH COMMONALITY AND SIMPLICITY OF DESIGN
+ WORLD-CLASS SUPPORT FROM THE CAT DEALER NETWORK
+ DURABLE DESIGNS WITH LONG LIFE TO OVERHAUL

ENHANCED POWER TRAIN

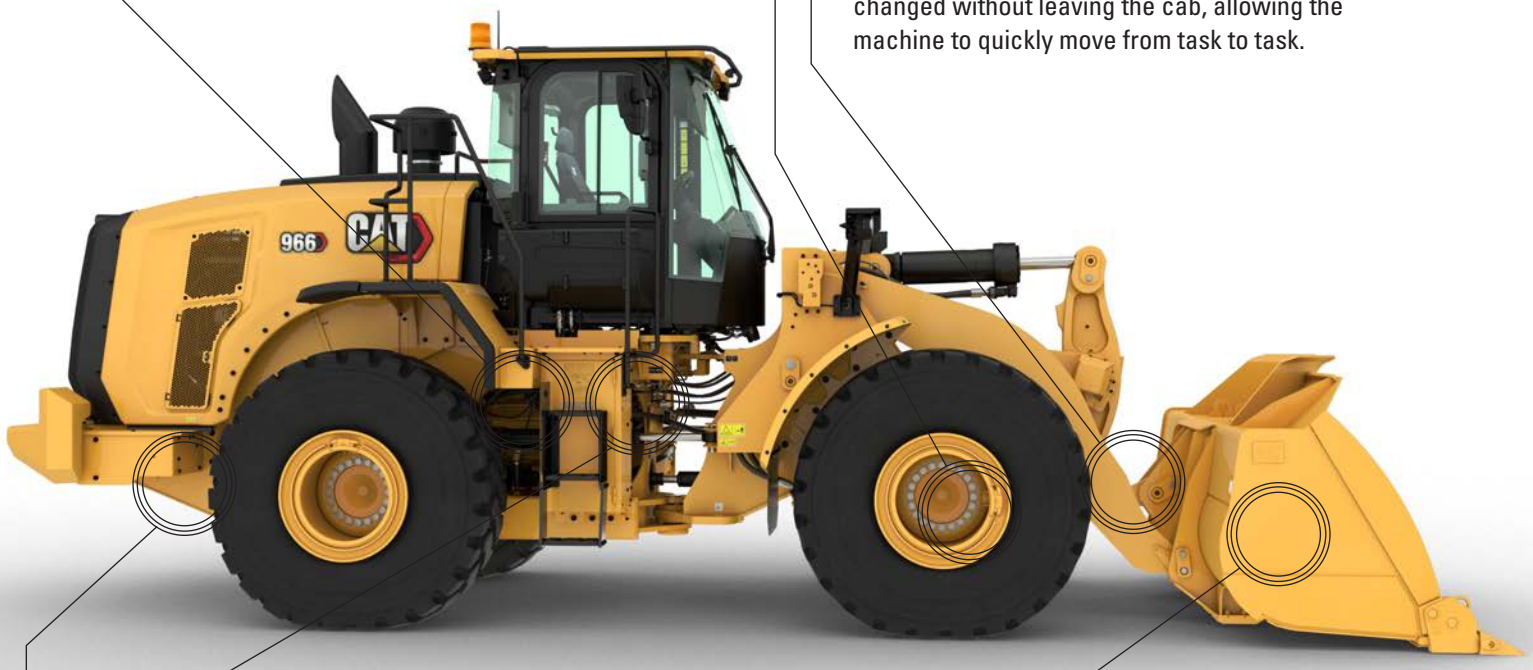
Our power trains come standard with a lock-up clutch transmission, matching the engine power to increase fuel efficiency while delivering optimal performance.

DURABLE AXLES

Axles are designed to handle your most extreme applications. The rear axle oscillates to ±13 degrees for excellent stability and traction on even the roughest terrain.

QUICK COUPLERS AND WORK TOOLS

For versatility, buckets and components can be changed without leaving the cab, allowing the machine to quickly move from task to task.



OPTIMIZED HYDRAULICS

Our hydraulic systems come equipped with a mono-block main hydraulic valve. This design reduces weight while decreasing leak points by 40%.

EXTENSIVE RANGE OF ATTACHMENTS

Do more jobs with one machine. An extensive range of work tools and bucket styles are available to optimize these machines for your operation.

DURABLE FRAMES

The robotically welded two-piece structural frame absorbs impact associated with excavation and loading, while the hitch system provides high bearing force capacity.

SMART MACHINE FOR EFFICIENT OPERATION

INNOVATIVE CAT TECHNOLOGIES



Your machine comes equipped with innovative Cat technologies that give you the edge. Operators of all experience levels will dig and load with more confidence, speed, and accuracy. The result? Better productivity and lower costs.

CAT PAYLOAD* WITH ASSIST

Cat Payload technology delivers precise bucket load information with on-the-go weighing, which helps prevent over- or underloading. The low lift weigh and manual tip-off functions optimize the final bucket process and maximize efficiency.

CAT ADVANCED PAYLOAD* WITH ASSIST

The optional advanced system adds features like list management. It also includes tip-off-assist, which automatizes the final bucket load adjust process. With multi-task mode, the operator can track two loading processes. The advanced platform is also ready for Dispatch for Loading, integrating the loader into the scale house process (requires compatible third-party scale house software and subscription).

DETECT

Rearview camera is standard. This system can be enhanced with an additional display dedicated to the rearview camera as well as for a Multiview (360 degree) system. To complete the Cat Detect offerings, the machines can be equipped with a rear radar system, which features speed-sensitive alerts and ground clutter filtering to avoid annoyance.

CAT PRODUCTIVITY

A Cat Productivity subscription provides comprehensive, actionable information to help you manage and improve the productivity and profitability of your operations.

*Not legal for trade.

REAL-TIME INFORMATION FROM CAT EQUIPMENT MANAGEMENT
TAKES THE GUESSWORK OUT OF MANAGING YOUR EQUIPMENT

Cat Equipment Management technologies work together to put equipment information at your fingertips. Get real-time access to information on every machine in your fleet on any jobsite – no matter the size of the operation or the brands of equipment you run.



PRODUCT LINK™

Product Link collects data automatically and accurately from your assets. Information such as location, hours, fuel usage, idle time, maintenance alerts, diagnostic codes, and machine health can be viewed online through web and mobile applications.



VISIONLINK®

Access information anytime, anywhere with VisionLink and use it to make informed decisions that boost productivity, lower costs, simplify maintenance, and improve safety and security on your jobsite. With different subscription level options, your Cat dealer can help you configure exactly what you need to connect your fleet and manage your business without paying for extras you don't want. Subscriptions are available with cellular or satellite reporting (or both).



REMOTE SERVICES

The Cat App helps you manage your assets – at any time – right from your smartphone. See fleet location and hours, get critical required maintenance alerts, and even request service from your local Cat dealer.

+ **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** – get software updates sent to your machine remotely.
+ **Operator ID** lets you track machine operation by individual operator using the main display and Product Link.

SUPERIOR FUEL EFFICIENCY



ENGINE AND EMISSIONS

High power density and fuel efficiency set our engines apart. Certified to meet emission standards, our engines feature Cat electronics, fuel injection, and air-management systems.

ADVANCED SYSTEM INTEGRATION

Lower fuel consumption is the result of advanced system integration of the engine and emissions system, power train, hydraulic system, and cooling system.

POWER MODES

Operating the machine in the standard power mode will assure the best efficiency results in most applications. Using the available HP+ mode will not significantly increase the machine's digging capability but will allow higher speeds on grades in Load & Carry.

PROVEN ENGINE SYSTEMS

The C9.3B utilizes technologies to deliver the lowest possible fluid consumption. Including proven common-rail fuel system and latest injector technology. Caterpillar patented designs enable removal of exhaust gas recirculation, while remaining total fluid consumption neutral.

AFTERTREATMENT TECHNOLOGIES

The Cat Clean Emissions Module delivers the performance and efficiency that customers demand, while meeting emission standards. It is completely automatic and does not interrupt the machine's work cycle.

WORK IN COMFORT

IN THE ALL-NEW CAB

The cab is designed to maximize comfort and productivity, offering a quieter, more spacious operating environment and intuitive controls to help reduce the fatigue, stresses, sounds, and temperatures of a demanding job.



CAB ACCESS

Inclined steps, large opening door, optional remote door opener, and convenient grab handles ease accessibility to the operating space.

OPERATOR ID

Secure machine usage with dedicated Operator IDs. Machine settings are saved separately, increasing shift change efficiency. Unlock the machine using Passcode or optional Bluetooth® key.

GREATER VISIBILITY

Extended windows enhance visibility while convex and spot mirrors extend the driver's view on the sides and rear.

ADVANCED SEAT & MORE LEGROOM

The next generation of operator comfort includes increased legroom and an easily adjustable seat with updated styling and an enhanced suspension system. It comes in three trim levels and can be equipped with a dealer-installed 4-point harness.

NOISE REDUCTION

Sound-suppression, seals, and viscous cab mounts decrease noise for a quieter work environment.

JOYSTICK STEERING

The seat-mounted electro-hydraulic joystick steering system provides precision control and dramatically reduces arm fatigue, resulting in excellent comfort and accuracy. A conventional HMU steering wheel is also available in many regions.

SIMPLE CONTROLS
AT YOUR FINGERTIPS

TOUCHSCREEN DISPLAY

The easy and intuitive interface lets the operator work with confidence and efficiency. It includes Operator ID, machine settings, Job Aids, help functions, security, rear-vision camera, and integrated Cat Payload with Assist.



CENTRAL DISPLAY

Featuring easy-to-read analog gauges and LED indicators that allow the operator to quickly monitor critical machine health parameters.

A large text box displays the Cat Payload information as well as gear selection, machine travel speed, time, and hour meter.



KEYPADS

Easy-to-reach backlit keypads on the implement control pod and the A-post provide instant access to many functions and settings. Only active buttons or functions are illuminated, making it very intuitive for the operator.





Cat wheel loaders are easy to maintain and service, eliminating any potential waste of time or money. Major components are rebuildable, giving the machine a second life, and often a third life.

KEY FEATURES SAVING YOU TIME, MONEY, AND ENERGY:

+ Convenient access to hydraulic and electrical service centers for easy and safe 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.
+ Integrated Autolube extends component and service life.
+ One-piece tilting hood makes engine compartment access fast and easy.

*Parts and fluids only

THE CAT® 966 SAVES TIME AND MONEY
WITH EASIER AND FASTER SERVICE

REBUILDABLE
COMPONENTS

EASY ACCESS
TO SERVICE CENTERS

REMOTE TECHNOLOGIES
MANAGE YOUR MACHINE FROM ANYWHERE



DO MORE JOBS

VERSATILE ATTACHMENTS AND COUPLERS

For worksites that demand more, you need a wheel loader that is purpose-built for the job. Cat work tools are engineered to handle all of your specific application needs.

STANDARD Z-BAR LINKAGE

The proven Z-bar linkage combines digging efficiency with sharp visibility, resulting in excellent excavation, high breakout forces, and superior production capabilities.

QUICK COUPLERS AND WORK TOOL ATTACHMENTS

A wheel loader equipped with a Cat Fusion™ quick coupler system is a much more versatile machine. Buckets and work tools can be changed without leaving the cab – allowing the machine to quickly move from task to task. Consult your local dealer for availability of a variety of specialty buckets and forks.

PERFORMANCE SERIES BUCKETS

Performance Series Buckets use a system-based approach to balance bucket shape with the machine's lift and tilt capacity, weight, and linkage. A variety of work tools and bucket styles are available for a range of applications, including general purpose, flat floor, heavy duty rock, and coal-style buckets.

+ Easy loading
+ Fuel efficient
+ Carry more
+ Lower operating costs
+ Higher productivity

HIGH LIFT LINKAGE

The optional high lift linkage offers increased hinge pin height to load more easily in a variety of applications with any type of bucket or fork.

PURPOSE-BUILT SPECIALTY CONFIGURATIONS

Maximize your wheel loader's performance and durability in the toughest applications with application-specific arrangements direct from the factory.

Industrial and waste models – guarding and reinforcement protect components when working in transfer stations, recycling depots, scrap yards, and demolition sites.

Forestry model – increases lift and tilt capacities for efficiency and productive log and chip handling in paper, pellet, and sawmills.

TECHNICAL SPECIFICATIONS

See cat.com for complete specifications.

ENGINE		
Engine Model	Cat® C9.3B	
Engine Power @ 1,600 rpm – ISO 14396:2002	239 kW	321 hp
Gross Power @ 1,600 rpm – SAE J1995:2014	242 kW	325 hp
Net Power @ 1,600 rpm – ISO 9249:2007, SAE J1349:2011	226 kW	303 hp
Engine Torque @ 1,200 rpm – ISO 14396:2002	1781 N·m	1,313 lbf-ft
Gross Torque @ 1,200 rpm – SAE J1995:2014	1799 N·m	1,327 lbf-ft
Net Torque @ 1,200 rpm – ISO 9249:2007, SAE J1349:2011	1702 N·m	1,255 lbf-ft
Displacement	9.3 L	

- Cat engine meets U.S. EPA Tier 4 Final, EU Stage V, Korea Tier 4 Final, and Japan 2014 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.*

WEIGHT		
Operating Weight	23 196 kg	51,124 lb

- Weight based on a machine configuration with Bridgestone 26.5R25 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 suppression, and a 4.2 m^3 (5.5 yd^3) general purpose bucket with BOCE.

BUCKET CAPACITIES		
Bucket Range	2.8-11.9 m^3	3.75-15.5 yd^3

TRANSMISSION					
Forward 1	6.7 km/h	4.2 mph	Reverse 1	7.3 km/h	4.5 mph
Forward 2	13.5 km/h	8.4 mph	Reverse 2	14.8 km/h	9.2 mph
Forward 3	24.2 km/h	15.0 mph	Reverse 3	26.6 km/h	16.5 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 L3 tires with 849 mm (33 in) roll radius.

SOUND	
With Cooling Fan Speed at Maximum Value:	
Operator Sound Pressure Level (ISO 6396:2008)	70 dB(A)
Exterior Sound Power Level (ISO 6395:2008)	109 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)	69 dB(A)
Exterior Sound Power Level	108 dB(A)***

**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 37° Turn – with Tire Deflection	14 849 kg	32,727 lb
Static Tipping Load – Full 37° Turn – No Tire Deflection	15 981 kg	35,224 lb
Breakout Force	174 kN	38,999 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	58.5 L	15.5 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

HYDRAULIC SYSTEM		
Implement System:		
Maximum Pump Output (2,275 rpm)	373 L/min	99 gal/min
Maximum Operating Pressure	31 000 kPa	4,496 psi
Hydraulic Cycle Time – Total	10.1 seconds	

DIMENSIONS	Standard Lift		High Lift	
Height to Top of Hood	2850 mm	9'5"	2850 mm	9'5"
Height to Top of Exhaust Pipe	3531 mm	11'8"	3531 mm	11'8"
Height to Top of ROPS	3593 mm	11'10"	3593 mm	11'10"
Ground Clearance	424 mm	1'4"	424 mm	1'4"
Center Line of Rear Axle to Edge of Counterweight	2290 mm	7'7"	2458 mm	8'1"
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)	7399 mm	24'4"	8069 mm	26'6"
Hinge Pin Height at Maximum Lift	4245 mm	13'11"	4804 mm	15'9"
Hinge Pin Height at Carry	635 mm	2'0"	782 mm	2'6"
Lift Arm Clearance at Maximum Lift	3687 mm	12'1"	4183 mm	13'8"
Rack Back at Maximum Lift	62 degrees		71 degrees	
Rack Back at Carry Height	50 degrees		49 degrees	
Rack Back at Ground	39 degrees		37 degrees	
Width over Tires (Loaded)	3012 mm	9'11"	3012 mm	9'11"
Tread Width	2230 mm	7'3"	2230 mm	7'3"

- All dimensions are approximate and based on machine equipped with 4.2 m^3 (5.5 yd^3) general purpose bucket with BOCE and Bridgestone 26.5R25 VJT L3 radial tires.

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_2 equivalent 2.288 metric tonnes (2.522 tons).

STANDARD & OPTIONAL EQUIPMENT

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

OPERATOR ENVIRONMENT	STANDARD	OPTIONAL
Cab, pressurized, sound suppression	●	
Door, remote opening system		●
EH implement controls, parking brake	●	
HMU steering wheel		●
Steering, joystick	●	
Entertainment radio (FM, AM, USB, BT)		●
Entertainment radio (DAB+)		●
CB radio ready		●
Seat, cloth, air suspension	●	
Seat, suede/cloth, air suspension, heated		●
Seat, leather/cloth, air suspension, heated/ cooled		●
4-point seat belt (kit)		●
Touchscreen display	●	
Visibility: mirrors, rear-vision camera	●	
Multiview (360°) vision system		●
Cat Detect rear radar system		●
Dedicated rearview screen		●
Mirrors, heated		●
Air conditioner, heater, defroster (auto temp, fan)	●	
Sun visor, front, retractable	●	
Sun visor, rear, retractable	●	
Window cleaning platform, front	●	
Window, front, laminated	●	
Windows, front, heavy duty		●
Full cab window guard		●

ON-BOARD TECHNOLOGIES	STANDARD	OPTIONAL
Cat Payload scale	●	
Autodig with Auto Set Tires	●	
Operator ID & machine security	●	
Application Profiles	●	
Job Aids	●	
Controls Help and eOMM	●	
Cat Advanced Payload		●
Cat Payload Printer		●

POWER TRAIN	STANDARD	OPTIONAL
Cat C9.3B engine	●	
Electric fuel priming pump	●	
Fuel-water separator and secondary fuel filter	●	
Engine, air precleaner	●	
Turbine, air precleaner		●
Radiator, high debris		●
Cooling fan, reversible		●
Axles, front differential lock	●	
Axles, auto differential locks front and rear		●
Axles, ecology drains, AOC ready, extreme temperature seals		●
Axles, oil cooler		●
Transmission, planetary, automatic powershift	●	
Torque converter with lock-up	●	

POWER TRAIN (CONTINUED)	STANDARD	OPTIONAL
Service brakes, hydraulic, fully enclosed wet disc, wear indicators	●	
Integrated Braking System (IBS)	●	
Park brake, caliper on front axles, spring applied–pressure released	●	

HYDRAULICS	STANDARD	OPTIONAL
Implement system, load sensing with variable displacement piston pump	●	
Steering system, load sensing with dedicated variable displacement piston pump	●	
Ride control, dual accumulators	●	
3rd and 4th auxiliary functions with ride control		●
Oil sampling valves, Cat XT™ hoses	●	
Quick coupler control		●

ELECTRICAL	STANDARD	OPTIONAL
Starting and charging system, 24V	●	
Starter, electric, heavy duty	●	
Cold start, 120V or 240V		●
Lights: halogen, 4 work lights, 2 front roading lights with turn signals, 2 rear-vision lights	●	
Lights: LED		●
Warning beacon		●

MONITORING SYSTEM	STANDARD	OPTIONAL
Front dash with analog gauges, LCD display, and warning lights	●	
Primary touchscreen monitor (Cat Payload, quad screens, machine settings & messages)	●	
Reversing strobe lights		●

LINKAGE	STANDARD	OPTIONAL
Standard lift, Z-bar	●	
High lift, Z-bar		●
Kickouts: lift and tilt	●	

ADDITIONAL EQUIPMENT	STANDARD	OPTIONAL
Cat Autolube system		●
Fenders, extensions or roading		●
Guards: power train, crankcase, cab, cylinders, rear		●
Biodegradable hydraulic oil		●
High-speed oil change system		●
Rear cab access		●
Toolbox		●
Wheel chocks		●
Secondary steering system, electrical*		●

SPECIAL CONFIGURATIONS	STANDARD	OPTIONAL
Aggregate handler		●
Waste and industrial		●
Forestry		●
Tunneling**		●
Corrosion resistant		●

*Standard where mandated
**Japan only



オフロード法２０１４年
基準適合

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

AEXQ3314-00
Build Number: 14A
(N Am, Europe, Japan, S Korea)

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