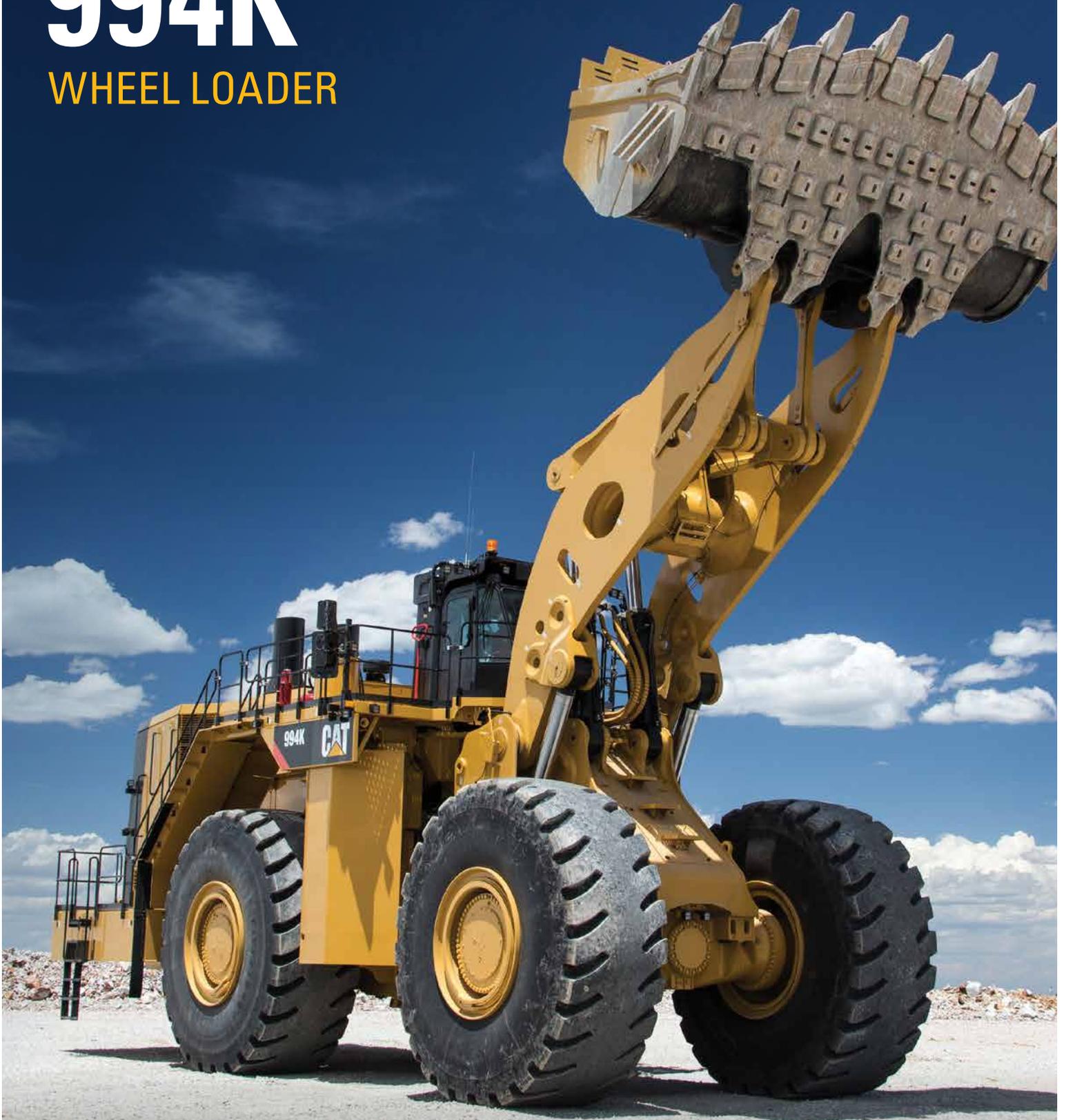


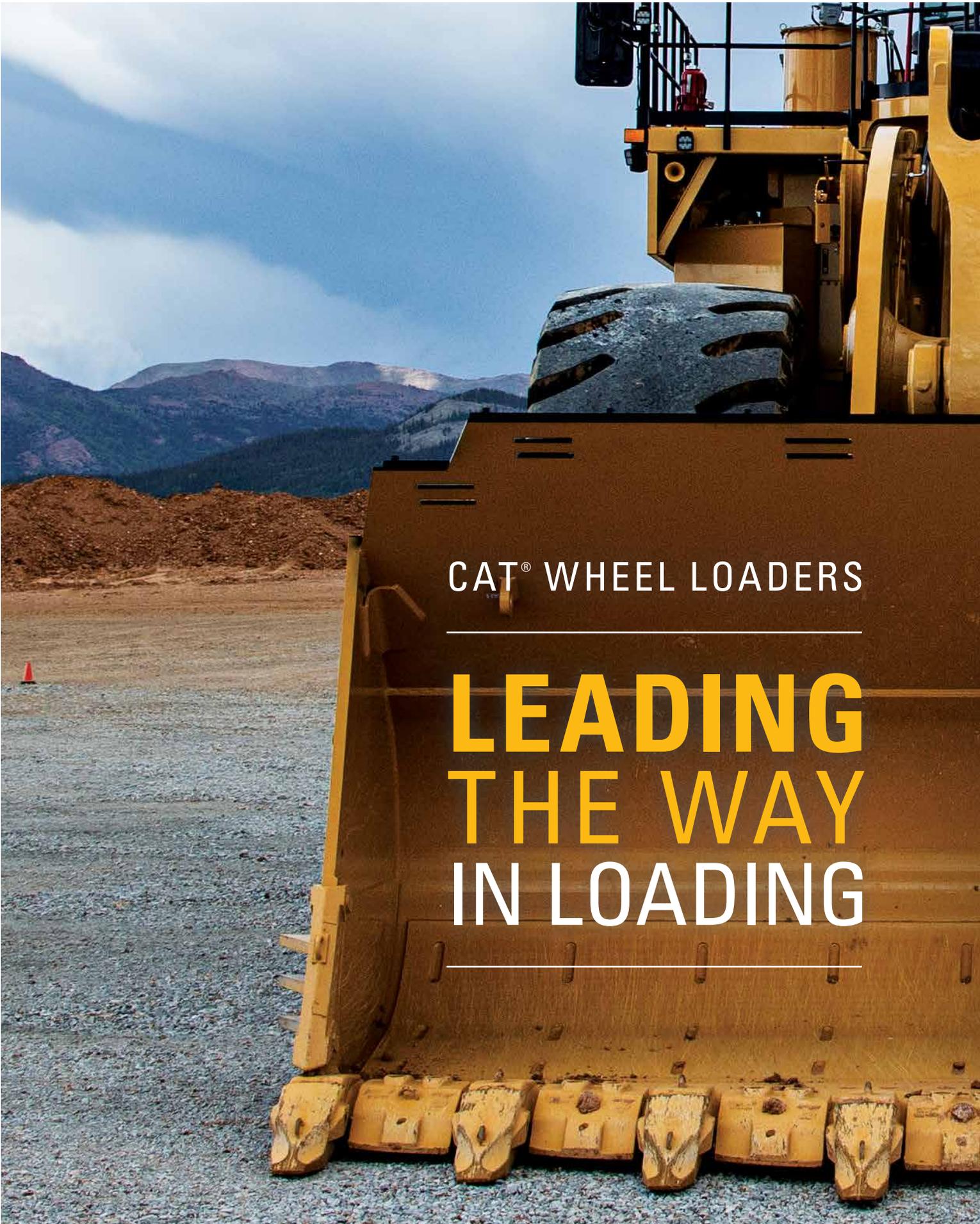
994K

WHEEL LOADER



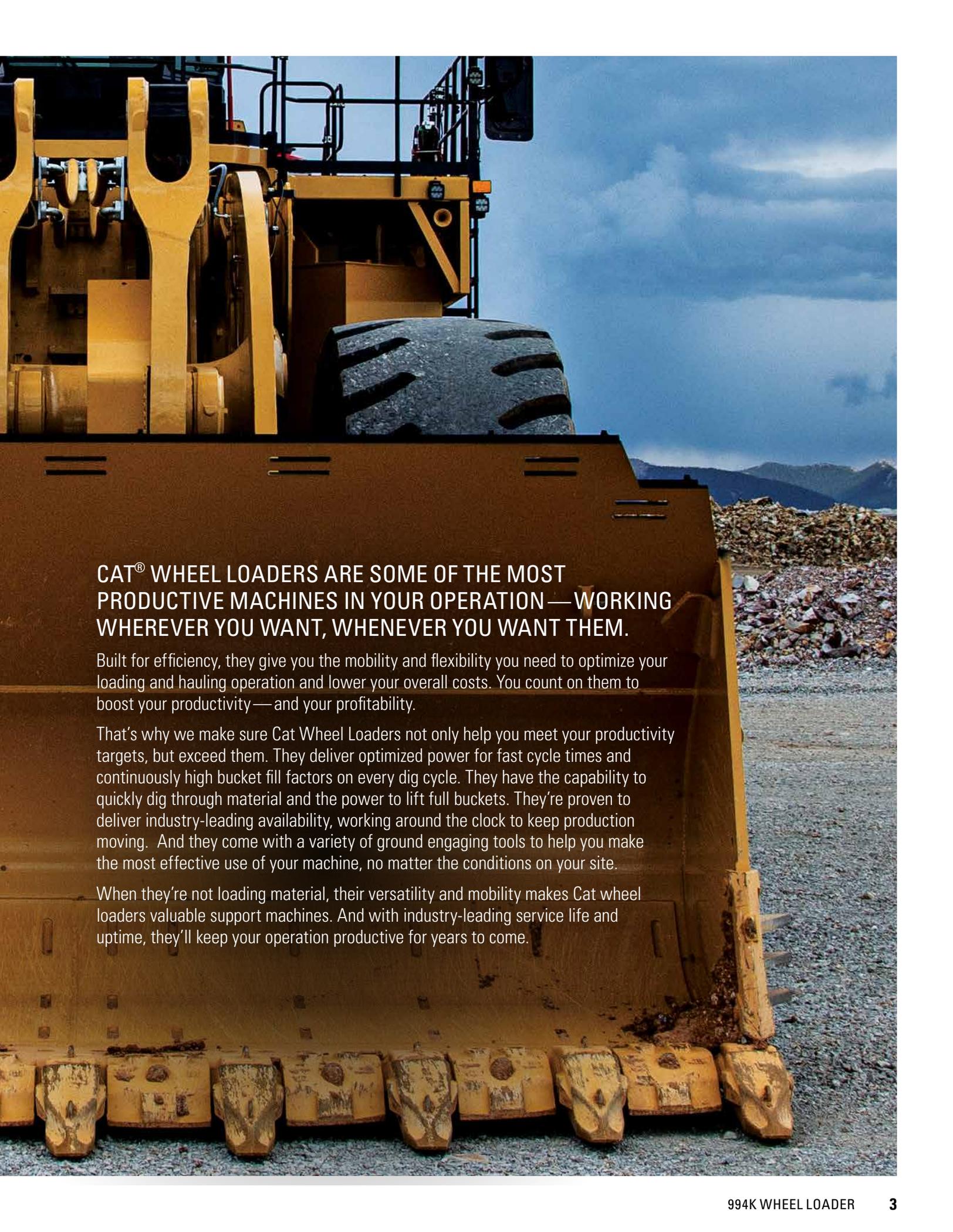
Net Power: 1297 kW (1,739 hp)
Operating Weight: 242 605 kg (534,852 lb)
Bucket Capacities: 19.1-43.6 m³ (25-57 yd³)





CAT® WHEEL LOADERS

**LEADING
THE WAY
IN LOADING**



CAT® WHEEL LOADERS ARE SOME OF THE MOST PRODUCTIVE MACHINES IN YOUR OPERATION — WORKING WHEREVER YOU WANT, WHENEVER YOU WANT THEM.

Built for efficiency, they give you the mobility and flexibility you need to optimize your loading and hauling operation and lower your overall costs. You count on them to boost your productivity — and your profitability.

That's why we make sure Cat Wheel Loaders not only help you meet your productivity targets, but exceed them. They deliver optimized power for fast cycle times and continuously high bucket fill factors on every dig cycle. They have the capability to quickly dig through material and the power to lift full buckets. They're proven to deliver industry-leading availability, working around the clock to keep production moving. And they come with a variety of ground engaging tools to help you make the most effective use of your machine, no matter the conditions on your site.

When they're not loading material, their versatility and mobility makes Cat wheel loaders valuable support machines. And with industry-leading service life and uptime, they'll keep your operation productive for years to come.



CAT 994K

WHEEL LOADER

THE LEADING LOADER IN ITS CLASS

The Cat 994K Wheel Loader meets your demand for greater productivity by delivering more: More payload. More power. More performance. And more profitability.

The 994K builds on the 25-year history of the 994 model and combines it with your input to deliver a bigger, better machine. We made the 994K larger — increasing payload up to 30%. We improved the engine to make it more powerful and efficient. We made it more comfortable and quiet, improved visibility and made it safer for your operators. New serviceability features and a modular design make it more serviceable, and high-strength structures and axles make it more reliable, durable and longer-lasting. The 994K is built to load more material for a more productive operation and a better bottom line.

MORE EFFICIENT

- » Up to 8% more efficient (material moved per unit of fuel)
- » 24-hour fuel capacity

MORE PRODUCTIVE

- » 20% more traction
- » 17% more rimpull
- » 28% more breakout force
- » 19% increased power
- » 29% increase in rated payload
- » 71% increase in rated payload (loose material)
- » Zero increase in cycle time
- » Longer life

EASIER TO MAINTAIN

- » Easier access to serviced components
- » Available ground-level deluxe service center
- » 2x engine oil and filter life
- » 3x engine air filter life



LOWER COSTS WITH THE HIGH-EFFICIENCY LEADER

The 994K Wheel Loader moves significantly more material than its predecessor, for significantly less cost. Efficiency enhancements help you get more done in less time, with less fuel — every hour, every shift, every day. Operators describe it as fast and maneuverable for great cycle times, no matter the haul truck. And thanks to 24-hour fuel capacity, your productivity never stops.



FAST CYCLES

The 994K's Positive Flow Control Hydraulic System boosts efficiency with concurrent pump and valve control. By optimizing pump control, hydraulic oil flow is proportionate to implement lever movement. Fast, productive cycles are enabled by four electronically controlled, fully variable piston pumps. The system also increases bucket feel and control and delivers consistent performance and efficiency with lower system heat.

ECONOMY MODE

994K systems work hard to save you fuel through advanced technologies. Utilizing the on-demand throttle, operators maintain normal operation with the left pedal and implements while the 994K manages the engine speed. Economy Mode provides similar control and feel to our traditional throttle lock feature — delivering the efficiency of manual throttle and the ergonomics of throttle lock.



LARGER PAYLOAD
& BREAKOUT FORCE

=

MORE TRUCK
LOADS PER SHIFT

EXTENDED
MAINTENANCE
INTERVALS

=

MORE UPTIME

IMPROVED SAFETY
AND OPERATOR
COMFORT

=

GREATER
PRODUCTIVITY

994K =
**LOWER
COST PER TON**

IMPROVED RIMPULL

Advanced technologies like the Impeller Clutch Torque Converter (ICTC) and Rimpull Control System lower costs by improving rimpull control. These technologies reduce tire slippage and wear by modulating rimpull from 100% to 25% while depressing the left pedal. After 25% rimpull is achieved, the left pedal applies the brake. RCS reduces the potential for wheel slippage without reducing hydraulic power. Fuel efficiency is improved in certain applications with the lock-up clutch torque converter providing direct drive.

BEST-IN-CLASS TRANSMISSION

The Cat Planetary Powershift Transmission is designed specifically for mining applications. It delivers consistent, smooth shifting and efficiency through integrated electronic controls. It offers three forward and three reverse speeds to match your application.

LOAD MORE EVERY CYCLE

The 994K delivers industry-leading productivity. Its powerful engine, greater payload and efficient hydraulic system allow for fast cycle times and high production — delivering more to your bottom line.



BIGGER PAYLOAD

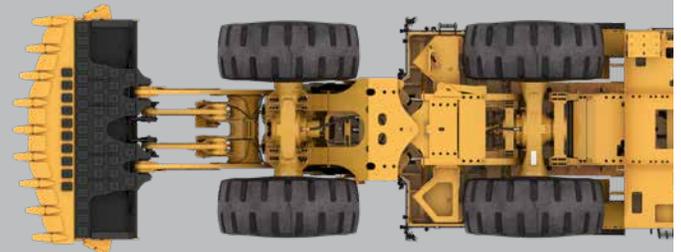
The 994K isn't just better than its predecessor. It's bigger. More than 10% longer and 20% heavier, it delivers a 29% increase in rated payload that results in a one-pass reduction per truck. In addition, the 71% increase in loose material rated payload provides up to a two-pass reduction per truck. Production studies have demonstrated that the 994K delivers up to a 23% increase in hourly production.

BETTER DIGGING

The 994K delivers up to 28% more breakout force compared to previous models, with no increase in cycle time. This increase combines with a 17% boost in rimpull, more power and 20% more traction to make the 994K an excellent digger.

MORE POWER

At the heart of the 994K is the new 3516E engine, the latest in the proven 3500 Series of Cat engines. Optimum performance is built in through the use of a 16-cylinder, four-stroke design. Turbochargers and aftercoolers deliver on-demand performance. The 39% torque rise ensures high lugging forces during digging and acceleration in high rimpull conditions. Electronic controls boost productivity by enabling quick engine response.



GREATER STABILITY

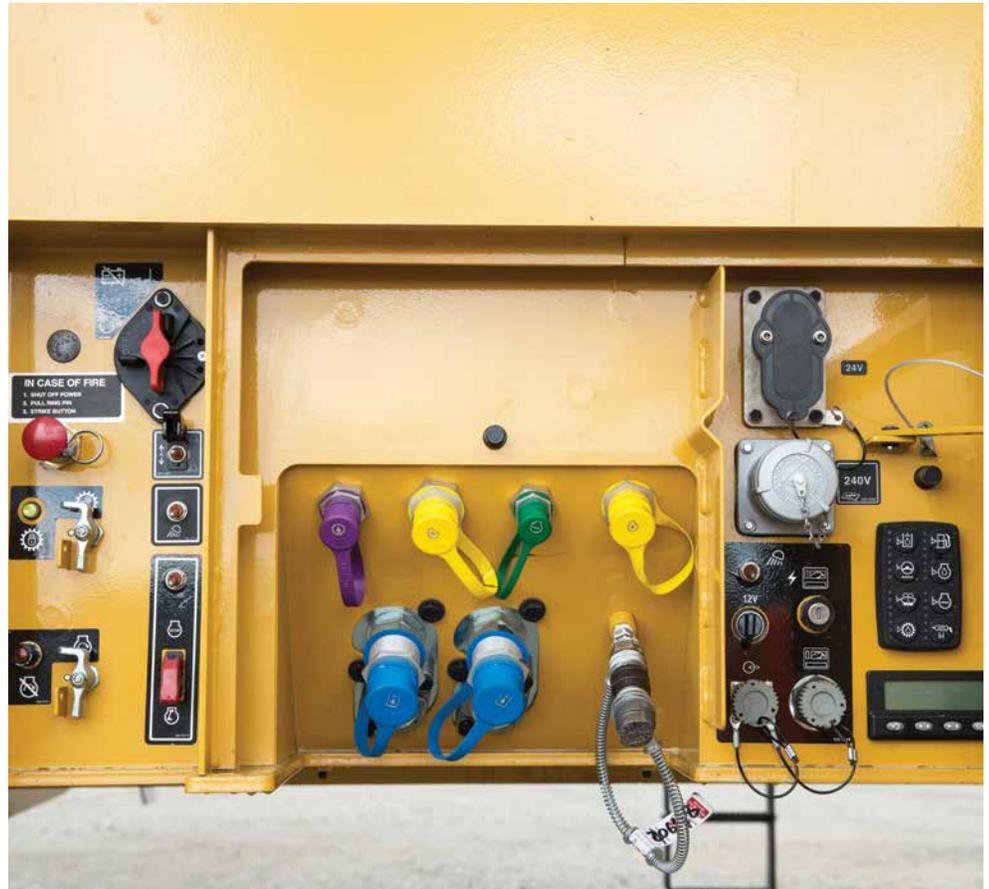
The 994K delivers greater stability, thanks to optimized weight distribution and increased tread width. A wider footprint boosts side-to-side stability, and fore-to-aft stability has been increased by moving the fuel tank from the bumper area to the middle of the loader and the hydraulic tank from the front frame to the middle. These improvements help operators be more confident — and productive.

SPEND MORE TIME LOADING & LESS TIME SERVICING



The 994K was designed to reduce the time you spend on regular maintenance procedures, with features like 500-hour engine oil change intervals and improved air filter life. The standard VIMS™ monitoring system delivers critical health and payload information, keeping performance at optimum levels and allowing advanced troubleshooting and planning to lower maintenance costs.

- + High-pressure screening system prevents catastrophic system damage in the event of a hydraulic component failure.
- + Ground-level or platform access and grouped service points enable safe and convenient service.
- + Swing-out doors on both sides of the engine compartment provide easy access to important daily service checks.
- + Ecology drains make service easier and help prevent spills.
- + Modular design allows for improved access for engine and pump drive service.
- + All routine service is located on the left side.
- + The automatic lubrication system greases the linkage, hitch, steering and axle trunnion bearings.
- + Electronic pressure control of the automatic lubrication system eliminates pressure adjustment and monitors grease thickness for temperature compatibility.



SERVICE STATION

The service station provides easy access to functions such as coolant and oil as well as level indicators. The service station features a Cat battery charging connector and indicator lights for full fuel tanks. An alarm sounds when the stairs are lowered.



KEEP OPERATORS SAFE, COMFORTABLE & PRODUCTIVE

We understand that the most important factor in your wheel loader's effectiveness is the performance of its operator. To help make their workday as productive as possible, we've incorporated productivity, safety and comfort features into the 994K operator cab.

DESIGNED FOR CONFIDENCE

Confident loader operation starts with precise machine control enabled by the 994K's load-sensing hydraulic steering system. The system helps operators achieve precise positioning for easy loading in tight areas with 40 degrees of steering articulation. Integrated steering and transmission control functions enhance comfort.

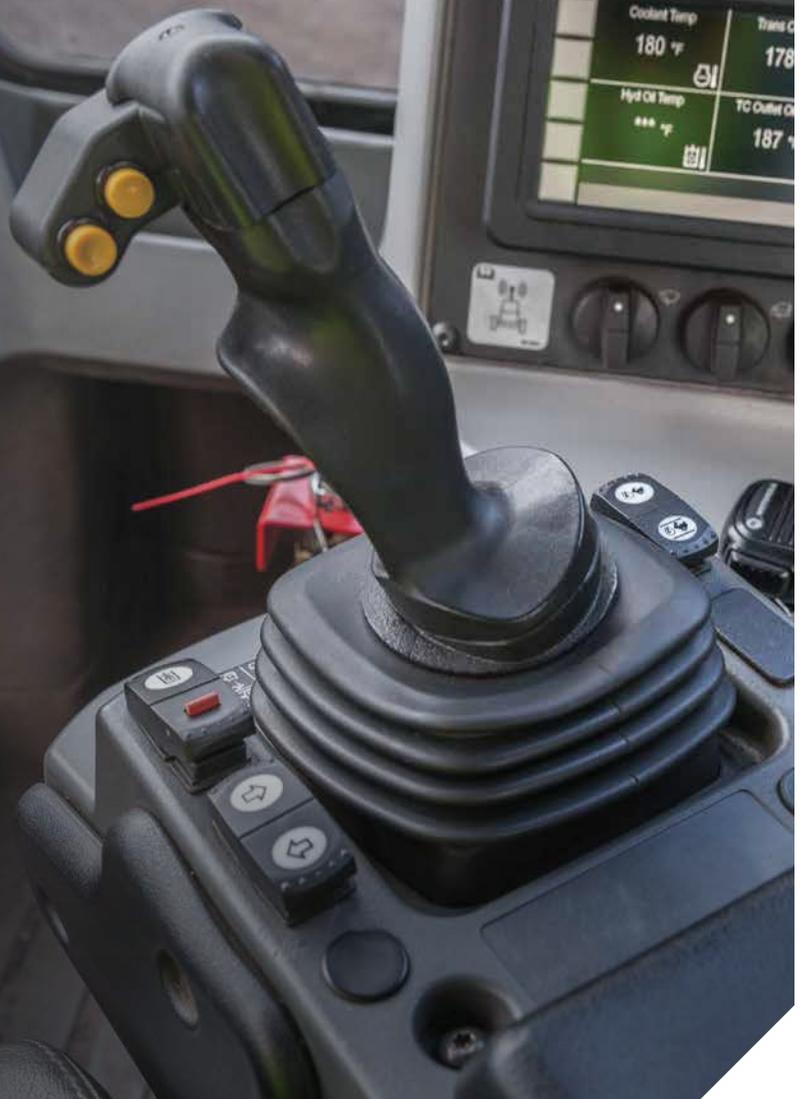
DESIGNED FOR COMFORT

The 994K operator environment includes dozens of features designed to enhance comfort and decrease fatigue, such as reduced vibration, low sound levels and automatic temperature controls. The pressurized cab features a Cat Comfort Series III seat with a high back design and extra-thick, contoured cushions; standard heated and ventilated seat; air suspension system; and a seat-mounted implement pod and STIC steer that moves with the seat. The cab also includes a convenient trainer seat.

DESIGNED FOR PRODUCTIVITY

The 994K's Steering and Transmission Integrated Control System (STIC™) combines directional selection, gear selection and steering into a single lever — for maximum responsiveness and control. A simple side-to-side motion turns the machine right or left, and the finger-controlled gear selection is easy to operate and minimizes operator movements. Low-effort integrated controls make cycles smoother and faster while reducing operator fatigue.

Electro-Hydraulic Controls help operators work more efficiently and productively. The soft detent controls are easy to use, and electronically controlled hydraulic cylinder stops boost comfort. Operators can conveniently set automatic implement kickouts from inside the cab. Joystick (shown) or single axis levers are available.





FOCUS ON SAFETY

From slip-resistant surfaces and guard rails to state-of-the-art object detection technologies, the 994K is infused with features to help both operators and service personnel feel safe and confident on the job. We've improved access and egress, maximized visibility and made it possible to perform more service from the ground.

SAFER ACCESS AND EGRESS

A powered access system allows easier access to the primary stairs by improving ingress and egress to and from the rear platform. Wide stairs are at a 45-degree angle for easy access and feature full handrails on each side. Stairs may be raised and lowered from cab level or the ground. Wide walkways with non-skid surfaces and integrated lockout/tagout points are designed into the service areas.

MAXIMIZED VISIBILITY

The 994K features a higher cab position for improved visibility during truck loading operations. A six-mirror system with a heated option improves line of sight to the side and rear of the machine. The operator also has access to a standard pull-down window shade. Standard LED lights provide excellent workspace visibility and LED warning lights are programmable for site-specific signaling. Optional Cat MineStar™ Detect includes Cat Vision plus an object detection radar system to enhance operator awareness around the machine.

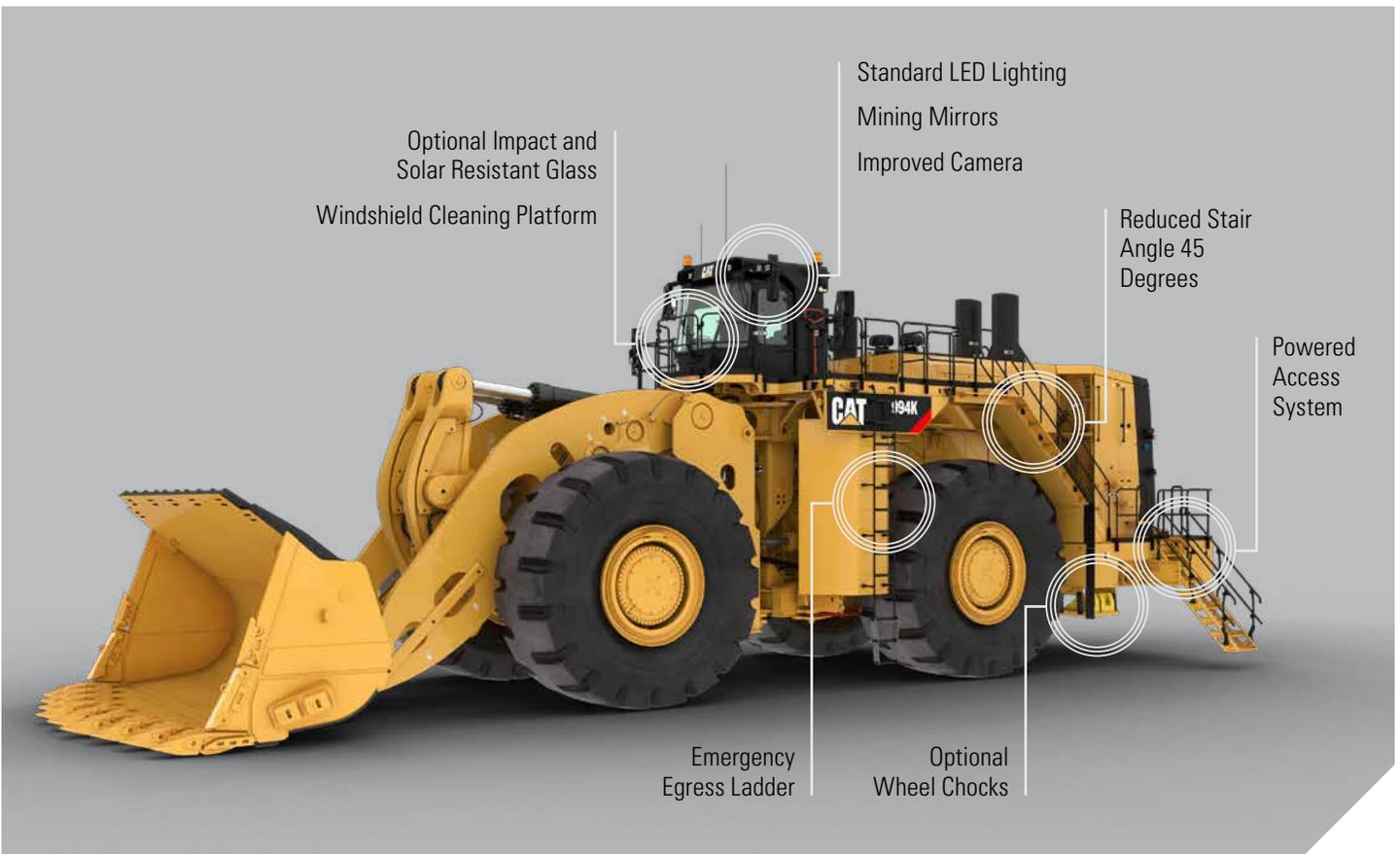


FIRE SUPPRESSION READY

The 994K leaves the factory ready for the installation of a fire suppression system, which simplifies installation and provides system integration to enhance reliability. The loader features four dedicated mounting locations for 227 kg (500 lb) fire suppression tanks.

SAFER SERVICE

Ground-level or platform access and anti-slip walkways are available for all service areas. There are tie-offs on each side of the radiator for core cleanout and tie-offs on the corners of the ROPS. In addition to standard LED lighting, optional service lights are available in the front frame, rear frame and under the engine.



THE RIGHT LOADER FOR YOUR APPLICATION

The 994K offers a number of options to expand its application range and versatility, making it the ideal loading tool no matter the site conditions.

A high ambient package is available to equip the loader for operation in temperatures as high as 53 degrees C / 127 degrees F. The standard cooling package (up to 43 degrees C / 110 degrees F) offers improved cooling compared to the previous model. A standard demand fan improves efficiency and cooling performance.

The 994K is also ideal for cold weather applications, with a cooling fan bypass (recommended below -29 degrees C / -20 degrees F) and heavy-duty starter (recommended below 0 degrees C / 32 degrees F), which provides an additional electric starter motor and two additional batteries for a total of three starter motors and six batteries. Additional features such as 240V engine oil (recommended below -18 degrees C / 0 degrees F), coolant heating elements, and a fuel heater and heated mirrors, help the 994K remain productive in temperatures below 0 degrees C (32 degrees F).



FREE-FLOWING MATERIAL APPLICATIONS

The 994K Wheel Loader is approved for higher payloads in loose or rehandled free-flowing material applications. Increased payload is intended for rehandled material in the ROM pad area or stockpile material, such as coal. In these applications, 994K Standard Lift payload has been increased from 45 tons to 60 tons (40.89 tonnes to 54.4 tonnes). High Lift payload has been increased from 42 tons to 55 tons (38.1 tonnes to 49.0 tonnes). Please contact your local dealer to determine if your application is suitable for this increased rated payload.

HIGH-PERFORMANCE BUCKETS

New high-performance buckets in a wide range of capacities are optimized for the 994K linkage kinematics. The new bucket design has an extended floor, larger radius and angled side bars for fast loading, high fill factors and good material retention.

Fill factors are up to 115% so your operators can get the job done and move on to other tasks. Fast load cycles and fewer trips mean less wear and tear on your machine. Buckets come in different capacities and widths to fit your loading and carrying needs.

ROCK BUCKETS

Used in high-abrasion production applications like face loading limestone and other rock, and trucking a wide range of quarry materials.

HEAVY-DUTY ROCK BUCKETS

Used in applications like face loading tightly compacted pit materials or handling materials of moderate abrasion and high impact.

COAL BUCKETS

Built for light density non-abrasive materials, including coal.

IRON ORE BUCKETS

Used in extremely aggressive applications like face loading iron ore. Built for high abrasion and moderate impact, leaving a smooth floor when finished.

GROUND ENGAGING TOOLS

Cat Ground Engaging Tools (G.E.T.) for the 994K protect expensive components, help you get the most out of your machine's performance and reduce your operating costs. Cat G.E.T. features CapSure™ Retention Technology, which simplifies component replacement with hammerless retention for fast, easy and safe installation. CapSure tips, shrouds and sidebar protectors are easily locked and unlocked with a 180-degree turn of a 3/4-inch ratchet.



A WHEEL LOADER YOU CAN COUNT ON

ROBUST STRUCTURES

The 994K features highly durable structures that achieve multiple lifecycles and withstand the toughest loading conditions. A full box-section rear frame resists torsional shock and twisting forces to maximize the life of mounted components. Frames utilize castings in key areas to maximize frame durability and optimize efficiency. The rear axle mounting to the frame is optimized to better disperse loads for increased structural integrity.

Another key to maximum uptime and productivity is the 994K's field-proven lift arms, which provide excellent visibility to the bucket edges and work area through a Z-bar design. Loads are efficiently transmitted by the solid steel lift arms and reinforced pin joint bores.



MINIMIZED SERVICE

The 994K is designed to keep service time to a minimum. Engine oil change intervals are 500 hours, and all routine service points are conveniently located on the left side of the loader. Hydraulically driven auto lube handles linkage greasing. Superior hydraulic system filtration helps ensure long life and optimum performance, and durable LED lights extend service intervals. Modular design makes field assembly and component replacements faster, and the new engine air filtration system delivers three times the life of the previous system.

BUILT TO BE REBUILT

The Cat 994 is one of the most rebuilt products in the Cat machine lineup. The frame, powertrain, engine and components are all built to be rebuilt—using new, remanufactured or rebuilt parts and components—so you can take advantage of multiple lives of like-new performance at a fraction-of-new price.



GAIN AN EDGE

WITH TECHNOLOGY SOLUTIONS



FLEET



TERRAIN



DETECT



HEALTH



COMMAND

Whether you want to address a single challenge or make step changes in the safety, efficiency, productivity and overall costs of your operation, Cat MineStar has a solution for you. Fleet management, guidance technologies, safety offerings and machine health applications allow significant improvements in your operations and maintenance organizations. Cat MineStar provides the most comprehensive suite of mining technology products in the industry. It consists of a number of configurable capability sets that allow you to scale the system to your mine site needs.

HEALTH

Cat MineStar Health delivers critical event-based machine condition and operating data for your 994K—and your entire fleet. It includes comprehensive equipment health and asset monitoring capabilities, with a wide range of diagnostic, analytic and reporting tools.



OBJECT DETECTION

Mobile equipment operators need to be keenly aware of their environment, especially when putting their equipment into motion. Cat MineStar Object Detection combines radar and camera systems to warn operators about light vehicles or stationary hazards within the immediate vicinity of their machines. Available for the 994K, the system improves operator awareness and enhances safety all around your site.

Object Detection is designed to increase safety and visibility during machine startup, initial movement and always in reverse. When radars are active, the system alarms only when the wheel loader is in gear and in the direction of a detected object. The radars are always active in reverse. Once the wheel loader reaches a speed threshold or distance traveled (customer configured option), the radars enter a standby state. The system is configurable for continuous and discrete alarming methods.

TERRAIN FOR LOADING

Mine site output depends on efficient loading and hauling. MineStar Terrain for loading makes those operations more productive while providing accurate feedback to key personnel. It shows wheel loader operators the type of material and the exact volume that is being loaded into trucks and crushers. Real-time feedback on payloads and design plan progress helps managers track materials and plan future operations. It increases productivity and accuracy, reduces rework, enhances ore control and improves shift-to-shift operator performance.



INTEGRATED ELECTRONICS

The Cat 994K is integrated with electronics that provide flexible levels of information to both the site and the operator. This integration creates a smart machine and more informed operator, maximizing the productivity of both.

INFORMATION DISPLAY

An upgraded touchscreen information display provides intuitive operation and easy navigation. It keeps operators informed about machine systems to decrease service time.

CAT PRODUCT LINK™

Product Link takes the guesswork out of asset management by providing remote access to information through the easy-to-use VisionLink® interface. You'll be able to stay informed on machine systems and diagnostic codes; track utilization, fuel usage and payload summaries; and have access to machine location, service meter hours and reporting status.

VITAL INFORMATION MANAGEMENT SYSTEM (VIMS)

VIMS allows you to connect directly to the machine for access to a wide range of sensor information and enhanced machine data. You can create productivity reports with payload and work cycle segmentation; identify operator training needs through productivity data; access detailed data logging of machine parameters and diagnostic codes; and track machine sensor information with trend analysis and histograms to monitor machine health.

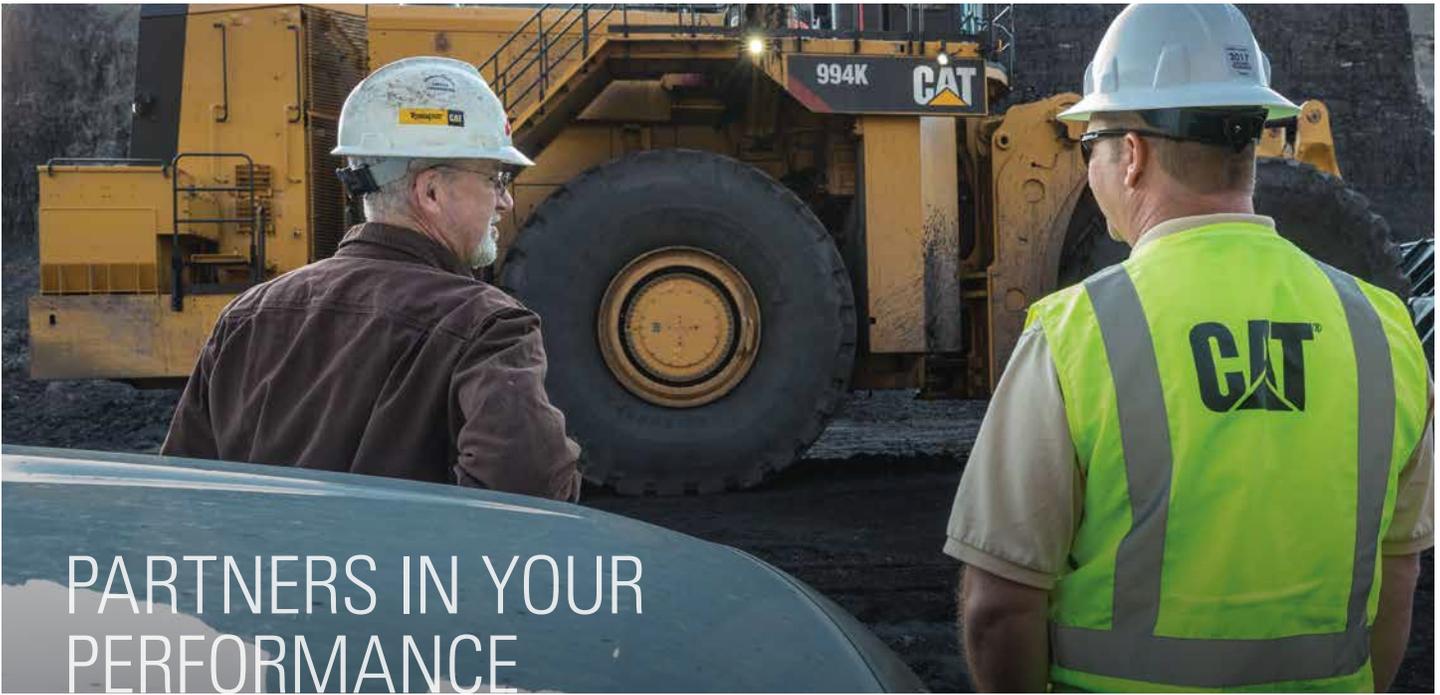
MINING — FOR A — **BETTER WORLD**

Governments and regulatory agencies mandate that you establish and follow environmentally sound policies and practices as you meet the demand for mined materials. We're focused on doing our part to make sure our machines help you meet those regulations. Every piece of Cat equipment is designed to be better and do better. Because the better we mine, the better the world can be.

At Caterpillar, we continue to research alternative energy sources such as biofuels and liquefied natural gas and power options like electrification to find new ways to reduce emissions. In addition, we preserve raw materials, conserve energy and reduce emissions through the Cat Reman program, which returns end-of-life components to like-new condition.

We've designed the 994K to be more efficient and use less fuel, which reduces engine emissions and carbon footprint. Engine Idle Shutdown can help you save fuel by avoiding unnecessary idling. Fluids are better controlled through use of Cat anti-drain filter housings and component ecology drains. You can reduce waste, save energy and lower your overall costs by retrofitting your wheel loader with new features, and by rebuilding when it reaches the end of its life.





PARTNERS IN YOUR PERFORMANCE

Our commitment to your success doesn't end when your Cat 994K begins loading overburden or ore. We immediately start looking for ways to make your wheel loader work more efficiently, safely and productively. From addressing performance issues, to training operators and technicians, to calibrating onboard technologies — our support of your loader productivity is ongoing.

Caterpillar and Cat dealer personnel will partner with you on site to improve the performance not only of your loaders, but of your overall loading and hauling operation. You'll have access to parts and service, and technicians who are focused on helping you optimize repairs to keep machines productive. And we help with training to ensure your operators have the skills and knowledge they need to work as efficiently and productively as possible.

We also work alongside you to ensure you achieve maximum value throughout the life of your equipment. Together with our Cat dealer network, we customize service offerings to provide a maintenance solution that fits your operation — whether you want to perform the majority of service yourself, or you're looking for an onsite partner to manage your maintenance organization. We're also consultants who can help you make smart decisions about buying, operating, maintaining, repairing, rebuilding and replacing equipment.

YOUR PARTNER FOR THE COMPLETE EQUIPMENT LIFECYCLE

No one knows more about how to get the most from a piece of Cat equipment than your local Cat dealer. This one-of-a-kind, on-the-ground support network delivers expert service, integrated solutions, after-sales support, fast and efficient parts fulfillment, world-class rebuild and remanufacturing capabilities, and more.

Cat dealers operate as nearly 200 local businesses — each one fully embedded in and committed to the geographic area it serves. That means you work with people you know, who know your business, and who respond on your timeframe.

BETTER
LOADING
BETTER
HAULING
**BETTER
BOTTOM
LINE**

With a broad lineup of wheel loaders and a truck for every site or application — no matter the size class or drive system — Caterpillar delivers a complete loading and hauling solution that delivers the lowest cost per ton.

Trucks and loaders are ideally matched to optimize the loading and hauling cycle. From iron to engines, hydraulics to electronics, software to hardware, transmissions to ground engaging tools — systems are integrated and work together to deliver optimized performance and a better bottom line.





PASS MATCH

994K

785



3-4

789



4-5

793



5-6

TECHNICAL SPECIFICATIONS

See cat.com for complete specifications.

ENGINE			
Engine Model	Cat 3516E		
Emissions	U.S. EPA Tier 4 Final/EU Stage V or U.S. EPA Tier 1 available		
Rated Speed	1,600 rpm		
Gross Power – ISO 14396	1377 kW	1,847 hp	
Gross Power – SAE J1995	1394 kW	1,870 hp	
Net Power – SAE J1349	Standard Ambient	1297 kW	1,739 hp
	High Ambient	1265 kW	1,696 hp
Bore	170 mm	6.7 in	
Stroke	215 mm	8.5 in	
Displacement	78.1 L	4,766 in ³	
Peak Torque @ 1,200 rpm – SAE J1995	11 591 N·m	8,549 lbf-ft	
Torque Rise	39%		
+ The power ratings apply when tested under the reference conditions for the specified standard.			
+ The net power advertised is the power available at the flywheel when the engine is equipped with fan, alternator, air cleaner and muffler.			
+ The gross power advertised is with the fan at maximum speed.			

OPERATING SPECIFICATIONS			
Operating Weight – Standard	240 018 kg	529,149 lb	
Operating Weight – High Lift	240 598 kg	530,428 lb	
Rated Payload – Standard	Face Material	40.8 tonnes	45 tons
	Loose Material*	54.4 tonnes	60 tons
Rated Payload – High Lift	Face Material	38.1 tonnes	42 tons
	Loose Material*	49.9 tonnes	55 tons
Bucket Capacity Range	17.2-43.6 m ³	22.3-57 yd ³	
*Please contact your local dealer to determine if your application is suitable for this increased rated payload.			

TRANSMISSION			
Transmission Type	Cat Planetary Power Shift		
Forward 1	7.4 km/h	4.6 mph	
Forward 2	12.9 km/h	8.0 mph	
Forward 3	21.9 km/h	13.6 mph	
Reverse 1	8.1 km/h	5.0 mph	
Reverse 2	14.1 km/h	8.8 mph	
Reverse 3	24.0 km/h	14.9 mph	
Direct Drive – Forward 1	Lock-up disables		
Direct Drive – Forward 2	14.0 km/h	8.7 mph	
Direct Drive – Forward 3	24.5 km/h	15.2 mph	
Direct Drive – Reverse 1	Lock-up disables		
Direct Drive – Reverse 2	15.5 km/h	9.6 mph	
Direct Drive – Reverse 3	27.0 km/h	16.8 mph	
+ Travel speeds based on 58/85-57 tires.			

HYDRAULIC SYSTEM – LIFT/TILT			
Lift/Tilt System – Circuit	Positive Flow Control		
Lift/Tilt System – Pumps	Variable Displacement Piston		
Maximum Flow at 1,700 rpm Engine Speed	2047 L/min	541 gal/min	
Relief Valve Setting – Lift/Tilt	32 500 kPa	4,587 psi	
Cylinders, Double Acting	Lift, Bore and Stroke	370 ×	14.6 ×
		1713 mm	67.4 in
Tilt, Bore and Stroke		310 ×	12.2 ×
		1086 mm	42.8 in
Pilot System	Open Loop and Pressure Reducing		

HYDRAULIC CYCLE TIME	
Rack Back	4.9 seconds
Raise	12.6 seconds
Dump	3.1 seconds
Lower Float Down	4.2 seconds
Total Hydraulic Cycle Time (empty bucket)	23.5 seconds

COMPLETE SYSTEM FILL		
Fuel Tank (standard)	3445 L	910 gal
Fuel Tank (with 24 hr attachment)	5678 L	1,500 gal
Cooling System	520 L	138 gal
Engine Crankcase	288 L	76 gal
Diesel Exhaust Fluid (DEF) (Tier 4 Final/Stage IV)	519 L	137 gal
Transmission	416 L	110 gal
Differentials and Final Drives – Front	833 L	220 gal
Differentials and Final Drives – Rear	757 L	200 gal
Hydraulic Tank (implement and hydraulic fan)	1022 L	270 gal
Hydraulic Tank (steering and braking)	379 L	100 gal
Oil Renewal System (ORS)*	75.7 L	20 gal

*Not available on Tier 4 Final/Stage V machines. Not available in all regions.

AXLES	
Front	Fixed
Rear	Trunnion
Oscillation Angle	9°

BRAKES	
Brakes	ISO 3450:2011

COOLING SYSTEM		
Ambient Capability Hydraulically Driven Demand Fan		
Standard	43° C	109.4° F
High (Tier 1 equivalent)	55° C	131° F
High (Tier 4 Final)	53° C	127.4° F

SOUND PERFORMANCE		
	Standard	Suppression
Operator Sound Level (ISO 6396:2008)		
Tier 1/EU Stage I Equivalent	72 dB(A)	71 dB(A)
Tier 4 Final/EU Stage V	72 dB(A)	71 dB(A)
Machine Sound Level (ISO 6395:2008)	119 dB(A)	117 dB(A)
Sound Performance		
+ The measurement was conducted at 70 percent of the maximum engine cooling fan speed. Hearing protection may be needed when the machine is operated with a cab that is not properly maintained or when the doors or windows are open for extended periods or in a noisy environment.		

HYDRAULIC SYSTEM – STEERING		
ISO 5010: 2007		
Steering System – Circuit	Pilot, Load Sensing	
Steering System – Pump	Piston, Variable Displacement	
Maximum Flow @ 1,700 rpm Engine Speed	980 L/min	259 gal/min
Relief Valve Setting – Steering	31 000 kPa	4,496 psi
Total Steering Angle	80 degrees	
Steering Cycle Time (low idle)	7.6 seconds	
Steering Cycle Time (high idle)	4.3 seconds	

STANDARD AND OPTIONAL EQUIPMENT

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

POWER TRAIN		
	Standard	Optional
Engine, 3516E High Displacement (HD) Mechanical Electronic Unit Injector (MEUI™-A), Air-to-Air Aftercooling (ATAAC) diesel, turbocharged/aftercooled	x	
Engine prelube	x	
Fuel priming pump (electric)	x	
Ground-level engine shutoff	x	
Engine air intake (above hood) precleaner	x	
Aluminum Modular Radiator (AMR)	x	
Automatic, ether starting aid	x	
Electronic throttle lock	x	
Impeller Clutch Torque Converter (ICTC) with Lock-Up Clutch and rimpull control system	x	
Rimpull control system	x	
Planetary powershift, 3F/3R electronic control transmission	x	
Oil Renewal System (ORS)* (for increased time between oil changes)		x
Delayed engine shutdown	x	
Oil-cooled, multi-disc, service brakes	x	
Electro-hydraulic parking brake	x	

LINKAGE		
	Standard	Optional
Standard lift (40.8 tonnes/45 tons face, 54.4 tonnes/60 tons loose)	x	
High lift (38.1 tonnes/42 tons face, 49.9 tonnes/55 tons loose)		x

ELECTRICAL		
	Standard	Optional
Alternator	x	
Dry batteries	x	
10/15 amp, 24V to 12V converter	x	
Disconnect switch to bumper	x	
LED warning lights (pattern selectable)	x	
LED lighting system (working lights, access and service platform lights, turn signals/hazard lights)	x	
Emergency jump-start receptacle	x	
Starter and transmission lockout in bumper	x	
24V starting and charging system	x	
Electric starters	x	

* Not available in all regions.

OPERATOR ENVIRONMENT		
	Standard	Optional
Premium seat with heated and actively cooled leather, adjustable lumbar support, air adjustable bolsters on the seat and backrest, seat cushion tilt adjustment, and adjustable length seat cushion	x	
Bonded glass, tinted	x	
Rubber-mounted, high-impact resistant solar control glass (Complies with AS/NZS 2080)		x
Dual lever lift and tilt function controls	x	
Joystick lift and tilt function controls		x
Implement kickouts	x	
Air conditioner	x	
Cab pressure indicator	x	
Graphical touchscreen information display conveys real-time operating information and payload measurement	x	
Heater, defroster, auto temperature controls	x	
Gauge instrumentation: + DEF level, if equipped + Coolant temperature + Hydraulic oil temperature + Fuel level + Power train oil temperature + Engine speed (tachometer) + Transmission gear + Ground speed + Engine hour meter	x	

OPERATOR ENVIRONMENT (CONTINUED)		
	Standard	Optional
Warning/indicator instrumentation:	x	
+ Low DEF level, if equipped		
+ Grease tank level		
+ Three-category action alert system		
+ Brake malfunction		
+ Bucket float status		
+ Delayed engine shutdown status		
+ Engine idle shutdown status		
+ Engine malfunction		
+ Fuel economy mode enable status		
+ Hydraulic lockout		
+ Lockup clutch enable status		
+ Low fuel level		
+ Parking brake status		
+ Quick-shift enable status		
+ Rimpull control enable status		
+ Seat belt warning		
+ Secondary steering		
+ Throttle lock status		
+ Transmission gear		
+ Turn signal		
Keypad control with indicator lights:	x	
+ Fuel economy mode		
+ Implement kickouts		
+ Lockup clutch		
+ Manual lube		
+ Quickshift enable		
+ Rimpull control system		
+ Throttle lock		
+ Turn signals		
+ Dash backlight control		
+ Hazard lights		
Dome light in cab	x	
Lunchbox and beverage holders	x	
Steering and Transmission Integrated Control (STIC™) system	x	
Sun screen, pull down (front and rear)	x	
Vital Information Management System (VIMS™) with Information Display: external data port, Cycle Timer, integrated Cat Production Measurement (CPM)	x	
Keypad, messenger, ET, VIMS	x	
AM/FM/AUX radio		x
AM/FM/AUX/USB/BT/CD/SAT radio		x
Coat hook	x	

SAFETY		
	Standard	Optional
Ground-access ladders	x	
Powered ground-access stairs		x
Rear-vision camera	x	
Cat Detect (Rear Object Detection)		x
Front frame access with steps	x	
Front walkway around cab	x	
Pump bay access ladders with T-handle and platform	x	
Tie-offs on ROPS and radiator guards	x	
Steering frame lock	x	
Wheel chocks		x
Stairways on both sides of the machine	x	
LED stairway and access lights	x	
Toe kicks	x	
Electric (field and shop) horns	x	
Retractable seatbelt, 76 mm (3 in) wide	x	
Trainer seat with lap belt, 76 mm (3 in) wide	x	
Back-up alarm	x	
Secondary steering	x	

COLD WEATHER		
	Standard	Optional
Cold-weather cooling fan bypass (recommended for temperatures below -29° C [-20° F])		x
Heavy-duty starter (provides an additional electric starter motor and two additional batteries for a total of three starter motors and six batteries) (recommended for temperatures below 0° C [32° F])		x
240V engine oil and coolant heating elements (recommended in conditions from -18° C to -30° C [0° F to -22° F])		x
Fuel heater (heated by recirculation using engine heat and a heat exchanger) (recommended in conditions from -18° C to -30° C [0° F to -22° F])		x
Heated mirrors (recommended for below-freezing temperatures)		x

STANDARD AND OPTIONAL EQUIPMENT

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

MACHINE CONTROL AND GUIDANCE		
	Standard	Optional
CPM Payload Weighing System	x	
Cat Terrain ready		x

FUEL TANK		
	Standard	Optional
12 hour (3440 L/910 gal)	x	
24 hour (5700 L/1,506 gal)		x

COOLING		
	Standard	Optional
Standard ambient package (recommended for site conditions that do not exceed 43° C [110° F])	x	
High ambient package (recommended for site conditions that do not exceed 53° C [127° F])		x

RIMS AND TIRES		
	Standard	Optional
Rims 1118 mm (44") (44 X 57) 152 mm (6") flange For use with 53.5/85-57 76PR L5 tires		x
Rims 1194 mm (47") (47 X 57) 152 mm (6") flange For use with 58/85-57 84PR L4 tires		x
Rims 1194 mm (47") (47 X 57) 127 mm (5") flange For use with 60/80 R57 L5R X Mine D2 SR tires		x
Tires – 58/85-57 84PR L4 (require 47" rims)		x
Tires – 53.5/85-57 FS 76PR L5 (require 44" rims)		x

SPARE RIMS		
	Standard	Optional
1118 mm (44") 152 mm (44 X 57) (6") flange		x
1194 mm (47") 152 mm (44 X 57) (6") flange		x
1194 mm (47") 127 mm (47 X 57) (5") flange		x

SERVICE		
	Standard	Optional
Ground-level service center including:	x	
+ Service center light		
+ Implement and cooling fan oil level indicator		
+ Steering and brake oil level indicator		
+ Window washer solvent level indicator		
+ Transmission oil level indicator		
+ DEF level indicator (if equipped)		
+ Fuel level indicator		
+ Engine oil level indicator		
+ Engine coolant level indicator		
+ Automatic lubrication system grease tank level indicator		
+ DEF purge indicator lamp		
+ Transmission lockout and LED		
+ Starter lockout and LED		
+ Heavy-duty battery disconnect switch		
+ Stairway light switch		
+ Service lighting switch (if equipped)		
+ Fuel shutoff engine shutdown switch		
+ Engine oil fast-fill port		
+ Transmission oil fast-fill port		
+ Steering and brake hydraulic oil fast-fill port		
+ Steering and brake hydraulic oil drain port		
+ Oil renewal system fast-fill port		
+ Engine coolant fast-fill port		
+ DEF fill port (HRC only)		
+ Implement and cooling fan hydraulic oil fast-fill port		
+ Implement and cooling hydraulic oil drain port		
+ Automatic lubrication system grease tank fill port		
+ 24V jump-start receptacle		
+ 240V jacket water and engine oil heater plug (if equipped)		
+ 12V power port		
+ VIMS key switch		
+ 14-pin machine data port		
+ VIMS Messenger display		

SERVICE (CONTINUED)		
	Standard	Optional
In-tank mounted cartridge-type case drain filters with in-line magnetic plugs on implement, cooling fan, brake and steering pumps	x	
High-pressure screens on the output side of implement, cooling fan, brake and steering pumps	x	
Pump efficiency monitoring	x	
Automatic lubrication system greases the linkage, hitch, steering and axle trunnion bearings	x	
Electronic pressure control of the automatic lubrication system eliminates pressure adjustment and monitors grease thickness for temperature compatibility	x	
Rock guards on linkage grease lines	x	
Cat O-ring face seal couplings	x	
Lockable service access doors	x	
Ecology drains for engine, radiator, hydraulic tank, steering and brake tank, brake cooling tank and axles	x	
High-speed engine oil change system	x	
Ground-level fast-fill fuel system	x	
Transmission guard	x	
Drawbar hitch with pin	x	
Cat XT™ hoses	x	
Left-side service center	x	
Oil sampling valves	x	

SERVICE (CONTINUED)		
	Standard	Optional
Premixed 50% concentration of extended-life coolant with freeze protection to -34° C (-29° F)	x	
Rear access to cab and service platform	x	
Load-sensing steering	x	
Supplemental steering system	x	
Vandalism protection caplocks	x	
Cooling cleanout service package	x	
VIMS download and Cat Electronic Technician service port in bumper	x	
Product Link™ satellite		x
Product Link cellular		x
Product Link (dual mode – satellite/cellular)		x
Service lights (engine bay, service center)	x	
Additional service lights (pump bay, front frame and bumper)		x

EFFICIENCY		
	Standard	Optional
Economy Mode	x	
Variable displacement implement pumps	x	
Variable displacement load sensing steering	x	
Variable displacement cooling fan pump	x	
Torque converter lock-up clutch	x	

SOUND		
	Standard	Optional
Sound-suppression package		x



994K WHEEL LOADER

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

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