950

WHEEL LOADER



U.S. EPA Tier 4 Final/EU Stage V*

Engine Maximum Power	186 kW (249 hp)
Operating Weight	19 260 kg (42,461 lb)

U.S. EPA Tier 3 Equivalent/EU Stage IIIA Equivalent**

Engine Maximum Power	186 kW (249 hp)
Operating Weight	18 076 kg (39,851 lb)

*Meets U.S. EPA Tier 4 Final, EU Stage V, and Japan 2014 emission standards.
**Meets Brazil MAR-1 and UN ECE R96 Stage IIIA emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA.

CAT® 950

SUPERIOR TECHNOLOGY. INCREASED PRODUCTIVITY.

The Cat® 950 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 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 35%
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.

CAT PAYLOAD WITH ASSIST
+ Achieve precise load targets every time
+ Track daily production

AUTODIG WITH AUTO SET TIRES
+ Boost productivity with automated loading
+ Reduce tire wear

JOB AIDS
+ Make machine operation easier

A MORE EFFICIENT JOBSITE MEANS
MORE PROFIT IN EVERY LOAD.

*Compared to Cat 950M/L series 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%.

ADVANCED POWERSHIFT TRANSMISSION

The 5-speed transmission including a lock-up clutch torque converter delivers 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

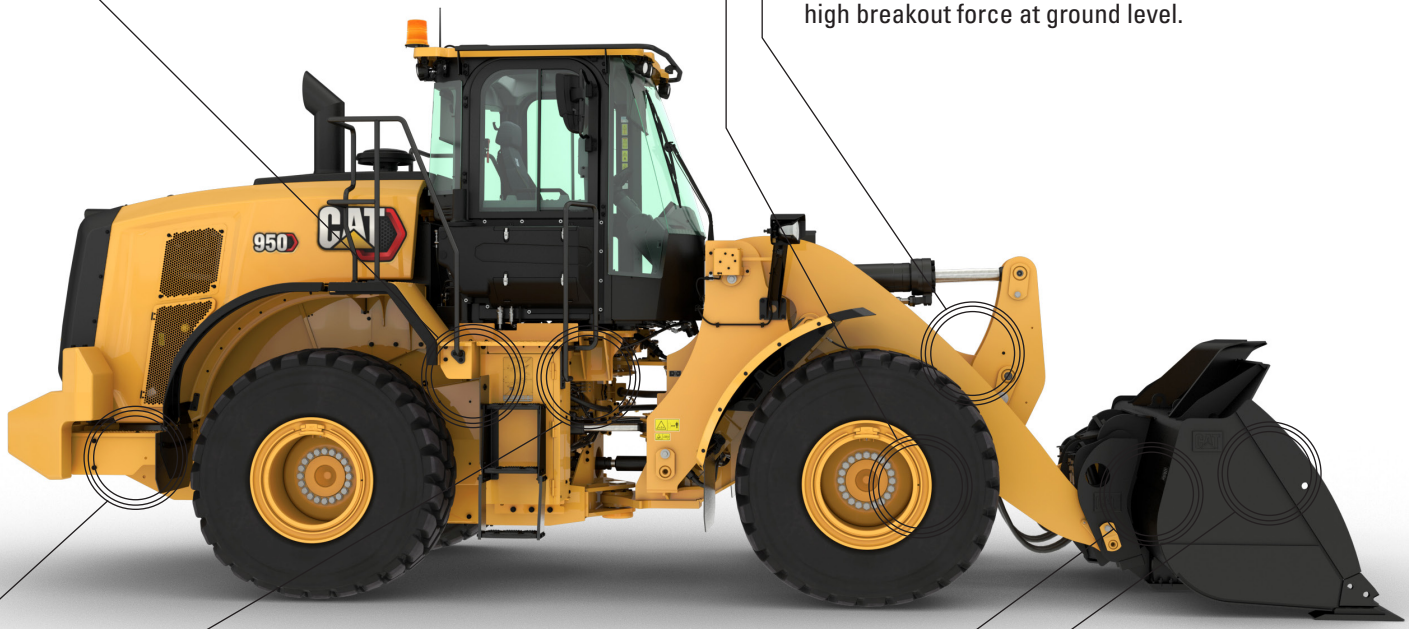
Our power trains come standard with a lock-up clutch transmission, matching the engine power to increase fuel efficiency while delivering optimal performance.

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.

LINKAGE CONFIGURATION

Optimized Z bar linkage offers parallel lift capability for precise work tool control, while maintaining Z-bar high breakout force at ground level.



OPTIMIZED HYDRAULICS

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

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.

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.

QUICK COUPLERS

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

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°) vision 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

High power density and fuel efficiency set our engines apart. 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 C7.1 utilizes technologies to deliver the lowest possible fluid consumption. Including proven common-rail fuel system and latest injector technology.

AFTERTREATMENT TECHNOLOGIES

Tier 4 Final and Stage V compliant machines only

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.



The HMU steering wheel has limited availability in some regions.

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.

HMU STEERING

The HMU steering wheel provides precision control, resulting in excellent comfort and accuracy. Standard in all regions except North America. Limited optional availability for North America, consult your Cat dealer.

JOYSTICK STEERING

The seat-mounted electro-hydraulic joystick steering system provides precision control and dramatically reduces arm fatigue, resulting in excellent comfort and accuracy. Standard in North America and optional in all other regions.

CAB ACCESS

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

GREATER VISIBILITY

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

NOISE REDUCTION

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

OPERATOR ID

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

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, rearview 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® 950 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.

LINKAGE CONFIGURATION*

The optimized Z-bar linkage combines parallel lift capabilities with the Performance Series Buckets and the Fusion Coupler work tool range to enhance visibility, performance, and fuel efficiency.

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.

*Not all configurations available in all regions, subject to availability.

TECHNICAL SPECIFICATIONS

See cat.com for complete specifications.

ENGINE – U.S. EPA TIER 4 FINAL/EU STAGE V		
Engine Model	Cat® C7.1	
Meets U.S. EPA Tier 4 Final, EU Stage V, and Japan 2014 emission standards.		
Engine Power @ 2,100 rpm – ISO 14396:2002	186 kW	249 hp
ISO 14396:2002 (DIN)	253 mhp (PS)	
Gross Power @ 2,100 rpm – SAE J1995:2014	188 kW	253 hp
SAE J1995:2014 (DIN)	257 mhp (PS)	
Net Power @ 2,100 rpm – ISO 9249:2007, SAE J1349:2011	172 kW	231 hp
ISO 9249:2007 (DIN)	235 mhp (PS)	
Engine Torque @ 1,300 rpm – ISO 14396:2002	1231 N·m	908 lbf-ft
Gross Torque @ 1,300 rpm – SAE J1995:2014	1242 N·m	916 lbf-ft
Net Torque @ 1,300 rpm – ISO 9249:2007, SAE J1349:2011	1170 N·m	863 lbf-ft
Displacement	7.01 L	

ENGINE – U.S. EPA TIER 3 EQUIVALENT/EU STAGE IIIA EQUIVALENT		
Engine Model	Cat C7.1	
Meets Brazil MAR-1 and UN ECE R96 Stage IIIA emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA.		
Engine Power @ 2,100 rpm – ISO 14396:2002	186 kW	249 hp
ISO 14396:2002 (DIN)	253 mhp (PS)	
Gross Power @ 2,100 rpm – SAE J1995:2014	191 kW	256 hp
SAE J1995:2014 (DIN)	260 mhp (PS)	
Net Power @ 2,100 rpm – ISO 9249:2007, SAE J1349:2011	172 kW	231 hp
ISO 9249:2007 (DIN)	235 mhp (PS)	
Engine Torque @ 1,400 rpm – ISO 14396:2002	1236 N·m	912 lbf-ft
Gross Torque @ 1,400 rpm – SAE J1995:2014	1257 N·m	927 lbf-ft
Net Torque @ 1,300 rpm – ISO 9249:2007, SAE J1349:2011	1170 N·m	863 lbf-ft
Displacement	7.01 L	

- Advertised power is tested per the specified standard in effect at the time of manufacture.
- The net power advertised is the power available at the flywheel when the engine is equipped with fan, alternator, air cleaner, and aftertreatment/muffler.
- Cat diesel engines with aftertreatment systems are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels up to:
  - 20% biodiesel FAME (fatty acid methyl ester)*
  - 100% renewable diesel, HVO (hydrotreated vegetable oil) and GTL (gas-to-liquid) fuels

Refer to guidelines for successful application. Please consult your Cat dealer or "Caterpillar Machine Fluids Recommendations" (SEBU6250) for details.

** Engines with no aftertreatment devices can use higher blends, up to 30% biodiesel, where mandated.*

WEIGHT		
Operating Weight	19 260 kg	42,461 lb

- Weight based on a machine configuration with Parallel lift Z-bar linkage, Bridgestone 23.5R25 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 3.1 m^3 (4.1 yd^3) general purpose bucket with BOCE.

SOUND	
Operator Sound Pressure Level (ISO 6396:2008)	70 dB(A)
Exterior Sound Power Level (ISO 6395:2008)	107 dB(A)
Operator Sound Pressure Level (ISO 6396:2008)*	69 dB(A)
Exterior Sound Power Level (ISO 6395:2008)**	104 dB(A)

*Including countries that adopt the EU and UK Directives.

**European Union Directive 2000/14/EC and UK Noise Regulation 2001 No. 1701

OPERATING SPECIFICATIONS		
Static Tipping Load – Full 40° Turn – with Tire Deflection	11 201 kg	24,694 lb
Static Tipping Load – Full 40° Turn – No Tire Deflection	11 961 kg	26,369 lb
Breakout Force	181 kN	40,690 lbf

- For a machine configuration as defined under "Weight."
- Full compliance to ISO 14397-1:2007 Sections 1 through 6, which requires 2% verification between calculations and testing.

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).

BUCKET CAPACITIES		
Bucket Range	2.5-9.9 m^3	3.3-13.0 yd^3

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[1]	●	●
Steering, joystick[2]	●	●
Entertainment radio		●
CB radio ready		●
Seat, cloth, air suspension	●	
Seat, suede/cloth, air suspension, heated		●
Seat, leather/cloth, air suspension, heated/cooled		●
Touchscreen display	●	
Visibility: mirrors, rearview 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 and 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		●

POWERTRAIN	STANDARD	OPTIONAL
Cat C7.1 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, open/open differentials**	●	
Axles, front differential lock**	●	
Axles, auto differential locks front and rear		●
Axles, ecology drains, AOC ready, extreme temperature seals		●
Axles, oil cooler		●
Transmission, countershaft, automatic powershift	●	
Torque converter with lock-up	●	
Service brakes, hydraulic, fully enclosed wet disc, wear indicators	●	
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 rearview lights	●	
Lights: LED		●
Warning beacon		●
Reversing strobe lights		●

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

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

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

SPECIAL CONFIGURATIONS*	STANDARD	OPTIONAL
Auxiliary Counterweight		●
Waste and industrial		●
Forestry		●
Corrosion resistant		●

[1] Standard in all regions except North America (limited optional availability for North America, consult your Cat dealer).
[2] Standard in North America; optional in all other regions.
* Not all configurations available in all regions, subject to availability.
** Standard or optional depending on region. Consult your dealer.

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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(N Am, Europe, Aus-NZ, Turkey)

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