





Engine		
Engine Model	Cat [®] C13 ACE	ERT™
Max Net Power (1,600 rpm) – ISO 9249	274 kW	369 hp
Max Net Power (1,600 rpm) – ISO 9249 (metric)		373 hp
Max Net Power (1,600 rpm) – SAE J1349	274 kW	369 hp

Buckets		
Bucket Capacities	4.00 to 12.20 m ³	5.25 to 16.00 yd ³
Weights		
Operating Weight	31 244 kg	68,862 lb
 For 5.4 m³ (7.1 yd³) general purpose buckets with BOCE. 		

980K Key Features and Benefits

Performance Series Buckets

With standard Performance Series Buckets, operators benefit from reduced dig times and better material retention; ultimately translating into significant productivity and fuel efficiency improvements.

Load Sensing Hydraulics

Load sensing hydraulics produce flow and pressure for the implement system upon demand and only in amounts necessary to perform the needed work functions, enhancing machine productivity and fuel efficiency.

Operator Environment

The new four post ROPS cab provides enhanced comfort, visibility, and productivity resulting in a more efficient operator.

Cat[®] C13 ACERT™ Engine

The innovative Cat C13 ACERT engine is optimized for maximum fuel efficiency and increased power density while meeting Tier 4 Interim/Stage IIIB emission standards.

Lockup Torque Converter

The optional lockup torque converter on the 980K significantly enhances productivity and fuel efficiency while performing load and carry applications, especially on grades.

Powershift Transmission

The K Series™ transmissions incorporate a new shifting strategy that delivers smoother shifts, faster acceleration, and increased travel speed when climbing a grade.

Fuel Efficiency

The 980K wheel loaders have been integrated as a system; from the linkage and work tool carrying the payload, to the engine, transmission and torque converter moving the machine, the system has been optimized to achieve the lowest cost per ton.

Contents



The Cat[®] 980K was designed to improve operator comfort, performance, and productivity, all while meeting Tier 4 Interim/Stage IIIB emission standards. The Performance Series Buckets enhance visibility and decrease cycle times. The unmatched, revolutionary world-class cab creates a comfortable, efficient, safe, and productive operator environment. The innovative Cat C13 ACERT[™] engine is optimized for maximum fuel efficiency and increased power density while meeting Tier 4 Interim/Stage IIIB emission standards. The reliability, durability, and versatility of the 980K result in a machine that is better built to meet your needs. All day. Every day.

Reliability Tested and Proven. Ready to Work.

Structures

The K SeriesTM features many of the components designed and proven reliable over generations of product design.

Strata Precleaner

The system removes 93% of the dust particles before the air has reached the primary engine air filter. As air enters the precleaner, stationary vanes cause the incoming air to spin. The resulting centrifugal force spins dust and dirt to the outer walls where they are ejected out into the exhaust stream, while the clean air flows down the center of the tube and continues into the primary air filter. The primary benefit is extended filter life.

Cold Start/High Altitude Package

A new optional cold start package includes a fan pump bypass, transmission pump bypass, additional battery capacity, and an engine heater plug/cord. The bypass systems reduce the parasitic load on the engine, while the additional battery capacity increases the cold cranking revolutions during startup. With the new optional cold start package available on K SeriesTM, starting capability has been dramatically improved in cold weather conditions. The system also improves starting capability at high altitudes.

Monitoring Programs

Monitoring product health is key to maintaining reliability of any equipment. Many programs offered by Caterpillar make the tracking of the customer's machine health quick and easy. These programs include Product Link, VisionLinkTM, and $S \cdot O \cdot S^{SM}$ Services.

Renowned Cat Dealer Support

From helping you choose the right machine to knowledgeable support, Cat dealers provide the best when it comes to sales and service. Manage costs with preventive maintenance programs like Scheduled Oil Sampling (S·O·SSM) analysis or elaborate Customer Support Agreements. Stay productive with best-in-class parts availability. Cat dealers can even help you with operator training to help boost your profits. And when it's time for machine rebuild, your Cat dealer can help you save even more with Genuine Cat Reman parts. Receive the same warranty and reliability as new products at cost savings of 40 to 70 percent for power train and hydraulic components.



Durability Better Built to Meet Your Needs





Frames

The robotically welded two-piece structural frame design provides a rugged and reliable foundation for the machine that improves stability, performance, and serviceability. A robust articulating hitch system joins the front and rear frames improving durability. Enhanced lines routings across the hitch joint streamline the manufacturing process and improve reliability and durability.

Engine

The new Cat C13 ACERT engine was designed to optimize power density. It uses a combination of technologies to reduce regulated emissions while ensuring high performance and excellent fuel efficiency. An upgraded ADEM[™] 4 electronic control module manages the combustion process and a new high-pressure Mechanical Electronic Unit Injector (MEUI-C) fuel system allows precise injection timing for a clean, efficient fuel burn. The rugged Cat Clean Emissions Module is securely rubber mounted on its own platform above the engine and contains a Diesel Oxidation Catalyst, Diesel Particulate Filter and Cat Regeneration System. Regeneration, the process by which soot is removed from the Diesel Particulate Filter, is completely automatic and does not interrupt the machine's work cycle.

Emissions

The 980K features a Cat C13 ACERT engine and a Cat Clean Emissions Module to deliver the performance and efficiency that customers demand, while meeting Tier 4 Interim/Stage IIIB emission standards. The six-cylinder electronic engine is turbocharged and aftercooled. ACERT[™] Technology is a combination of building blocks that includes electronics, fuel systems, air management systems and aftertreatment components. The system is optimized based on engine size, the type of application and the geographic location in which it will work. The technologies are applied systematically and strategically to meet high customer expectations for productivity, fuel efficiency, reliability and service life.

Axles

The axles are designed to handle extreme applications resulting in reliable performance and extended life. The front axle is rigidly mounted to the frame in order to withstand internal torque loads and still maintain support for the wheel loader. The rear axle can oscillate to ± 13 degrees helping to ensure all four wheels stay on the ground providing stability even in the roughest terrain.



Productivity Move More. All Day. Every Day.

Z-bar Linkage

The proven Z-bar linkage with Performance Series Buckets offer excellent penetration into the pile, high breakout forces, good roll back angles, and faster dig times. The results are improved tire life, superior fuel efficiency, and exceptional production capabilities; all helping to enable a sustainable solution for your business.

Load Sensing Hydraulics

New load sensing hydraulics produce flow and pressure for the implement system upon demand and only in amounts necessary to perform the needed work functions, enhancing machine productivity and fuel efficiency. Implement controllability is improved through simultaneous implement operation and repeatable fine modulation, enabling greater operator comfort through ease of operation.

Ride Control

Ride control provides the operator with a smoother ride over rough terrain, enabling a more comfortable ride at higher speeds. The benefit is reduced cycle times, higher productivity and better fuel efficiency while performing load and carry applications. The system works by using an accumulator to dampen the linkage motion, acting as a shock absorber.

Lockup Torque Converter

The optional lockup torque converter on the 980K significantly enhances productivity and fuel efficiency while performing load and carry applications, especially on grades. The lockup clutch eliminates torque converter losses, ultimately resulting in lower fuel consumption while achieving higher travel speeds up a grade.

Transmission

The K Series[™] transmissions incorporate a new shifting strategy that delivers smoother shifts, faster acceleration, and better performance climbing a grade. When placing the transmission into forward gear, the machine will automatically start in second gear. With the further enhancement of a torque based 2 to 1 downshift, the downshift will only occur based on machine load. Owners and operators will fully benefit from utilizing the automatic 1-4 transmission mode, which results in lower fuel consumption and optimal machine performance.

Versatility Work Tool Options to Meet Your Needs





Work Tools for Many Job Site Requirements

An extensive range of work tools and bucket styles are available to customize the machine for your operation. The list includes: Performance Series Buckets; Specialty Buckets (Multipurpose, Side Dump, Waste Handling, Woodchip); Pallet Forks, Millyard and Logging Forks, Rakes (with or without top clamps); and Plows (angle or V-style). Each is available either with pin on or quick coupler interface.

Performance Series Buckets: Load Easy, Fuel Efficient, Carry More

Performance Series Buckets utilize a system-based approach to balance bucket shape with the machine's linkage, weight, lift and tilt capacities. Operators benefit from reduced dig times and better material retention; ultimately translating into significant productivity and fuel efficiency improvements.

Lower Operating Costs

Performance Series Buckets feature a longer floor that easily digs through the pile and provides excellent visibility for the operators to see when the bucket is full. Less time digging in the pile results in lower fuel consumption and improved tire life. A unique spill guard protects the cab and linkage components from material overflow.

Higher Productivity

Performance Series Buckets achieve higher fill factors – ranging from 100% to 115% depending on the machine application and material type. The buckets feature optimized geometry with a bucket opening matched to the machine's linkage and incorporate a curved side profile to maximize material retention. The optimized design results in unsurpassed production capabilities.

Performance Series Bucket Styles

Performance Series Buckets are available for General Purpose, Material Handling, Rock, Heavy Duty Rock and light material buckets.

Specialty Buckets

Heavy Duty Quarry Rock Buckets are designed for bank or face loading material where high impact/high abrasion is encountered. Buckets include thicker base edge, liner package and addition wear plates.

Slag Buckets are designed for use in steel mills and slag processing centers. They feature increased material thickness in critical structural components to provide maximum durability for hot or cold slag handling.

Waste Handling Buckets are designed to move large volumes of low-density waste in transfer stations, landfills and recycling yards. Large capacities give maximum production when loading conveyors, trucks or hoppers.

Woodchip Buckets are optimized for moving large volumes of wood chips in forestry and millyard settings. They feature a flat floor and straight edge designed to scoop the bucket full and help heap the load high.

Quick Couplers and Work Tool Attachments

A Wheel Loader equipped with a quick coupler 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.

Pallet Forks are available for material handling.

Millyard and Logging Forks are available for forestry applications.

Specialty Work Tool Attachments such as plows for snow removal are available for the 980K. Contact your local Cat dealer for more details on tools available for your application.



Operator Environment

Safe. Comfortable. Efficient.







Electro-Hydraulic (EH) Joystick Steering with Force Feedback (Speed Sensitive)

The industry leading EH joystick steering system combines operator comfort and precision control to provide a sustainable work environment for the operator. The system incorporates a force feedback motor that automatically adjusts the effort needed to tilt the ergonomic joystick based on ground speed, resulting in superior control in all applications and climates. For customers who prefer a steering wheel, an electro-hydraulic steering wheel is available as an option.

Implement Controls (EH)

Seat mounted single axis implement control levers provide the operator with precise control of the work tool, all while moving with the seat for maximum comfort. In cab programmable kick-outs and automatic cylinder snubbing maximize operator comfort and productivity throughout their shift. Optional implement joysticks are available for 2V and 3V hydraulics.

Seat

The Cat Optimized Seating System is 6-way adjustable to accommodate operators of all sizes. The seat has a one piece high back that supports the lumbar area of the back up through the shoulders. Both armrests are large and can be adjusted up, down, fore, and aft to enhance comfort and convenience. An optional feature for the cab seat is a heated backrest and cushion.

Sound and Vibration

New viscous cab mounts connect the cab to the frame of the machine, decreasing noise and vibration the operator is subjected to. This contributes to a well-rested operator who remains efficient and productive. All Day. Every Day.

Information Display

The central display panel has a large text box, five analog like gauges, and LED warning indicators. The large text box provides in-language information about machine operation, feature activation and system troubleshooting and calibration. With the 5 large analog-type gauges the operator can easily identify if key systems are within normal operating range. A resettable trip totals function has been incorporated to display information for average fuel consumed, total fuel consumed, idle fuel, idle time, operating hours, odometer, etc. The navigation buttons are located on the side of the screen and help assist with set up and other various functions.

Automatic Climate Control and Air Quality

The new climate control system automatically adjusts the air temperature and fan speed to maintain the operator's preferred climate setting. The cab air filtration system recirculates 90% of the cab air and is now serviced from outside the cab, enabling maximum air quality and cab cleanliness. The new air conditioning sealing system keeps refrigerant contained preventing system shutdown. Combined together these systems help the operator to remain efficient and productive all shift long.

Entry and Exit

Well-placed grab bars and a ladder inclination angle of 10-degrees forward makes the walk into the cab feel more like a staircase than a ladder. When further comfort is needed, an optional retractable ladder provides an inclination of 18 degrees. The new wider front hinged door can be opened and closed while seated, greatly improving ingress and egress. Two new left-hand and right-hand sliding windows can also be opened and closed with one hand while seated for comfortable communication to personnel on the ground.

Visibility

Visibility has been enhanced by removing the steering wheel, adding a convex windshield, and eliminating two cab posts. The cab has a clean and clear panoramic view for safe operation of the machine. External rearview mirrors are mounted on the cab to provide all around visibility. The external mirrors fold horizontally to provide fast, safe access to clean the window from the front platform. Optional heated and powered mirrors are available to further improve visibility in cold climates.

Rearview Camera

With the new standard rearview camera, visibility is greatly enhanced. The camera is located in a pocket on the grill to protect it from damage and the elements. The camera can be set to activate only when the transmission is in reverse to help eliminate distractions in the cab, especially when in dark environments. Two rear work lights can be activated to enhance vision in low light conditions.

Control Panels and Park Brake Switch

Two control panels located on the front right ROPS post consist of large membrane switches making them easy to activate while wearing gloves. The membrane switches contain LED's to denote activation/mode and have a positive feel and "click" to signal activation. The ISO symbols located on each membrane switch are molded all the way through to ensure the image will not wear off over time. A new "help" feature explains the function of each membrane switch. A two position rocker switch activates the electro-hydraulic park brake and is automatically applied upon machine shutdown.





Serviceability Easy to Maintain. Easy to Service.







Electrical Service Center

The electrical service center provides grouped ground level access to numerous electrical features, enhancing safety and convenience for operators and service technicians. It is conveniently located towards the rear of the machine and contains the maintenance free batteries, a fuse relay panel, main disconnect switch, hood tilt switch, and the jump start receptacle. The ground level engine shutdown switch is located near the cab access ladder.

Engine Access

The K Series[™] retains the Cat sloped "one-piece" tilting hood, which has become one of our brand's hallmarks and provides industry-leading access to the engine, Cat Clean Emissions Module (CEM) and other components but with fresh new styling clearly distinct from the H Series. New to the loaders is a rear clamshell hood design that allows quick access to the engine oil dipstick and fill, fuel fill port, and cooler cores.

Cooling System

The cooling system is readily accessible for clean out and maintenance. With six cooling fins per inch and a perforated grill, most airborne debris entering the system passes through the cooler cores. The cooler cores swing out providing easy access for cleaning; an option variable pitch fan is available to automatically purge the cooler cores by periodically reversing the airflow.

Hydraulic Service Center

The hydraulic components are all conveniently located behind the hinged right side access ladder at a new single ground level service center improving safety and reducing service time. Accessible from the service center are the transmission and hydraulic oil filters, brake accumulators, pressure test ports, etc.

Sustainability Conserving Resources



The 980K is designed to compliment your business plan, reduce emissions and minimize the consumption of natural resources.

- Improved fuel efficiency less fuel consumed results in lower emissions.
- Engine air filter life doubled to reduce cost and waste.
- Machine is built with a 96% recyclability rate (ISO 16714) to conserve valuable natural resources and further enhance machine end of life value.
- Improved operator efficiency through enhanced visibility and reduced noise/vibration levels.
- Product Link family of products and solutions that collect, communicate, store and deliver product and job-site information to maximize productivity and reduce costs.
- Major components are rebuildable, eliminating waste and saving money by giving the machine and/or major components a second – and even third – life.

Customer Support Ready to Help. Anytime. Anywhere.

Machine Selection

Cat dealers are ready to help evaluate machine options; from new or used machine sales, to rental or rebuild options, Cat dealers can provide an optimal solution to meet customer business needs.

Product Support

Cat dealers are with customers every step of the way to maximize machine uptime by providing unsurpassed worldwide parts support, trained technicians and customer support agreements.

Operation

To help maximize the return on your investment, Cat dealers offer various training resources to improve operating techniques.

Financing

Cat dealers offer financing options to meet a variety of customer needs.



Owning Costs Proven Best Investment





Customer Support Agreements

A Customer Support Agreement (CSA) is an arrangement between you and your Cat dealer that helps you lower your total cost per ton. CSAs are flexible, allowing them to be tailored to your business needs. They can range from simple Preventive Maintenance Kits to elaborate Total Cost Performance Guarantees. Having a CSA with your Cat dealer enables more time for you to do what you do best – run your business.

Monitoring Systems

Monitoring product health is key to optimizing the life of an investment into a Cat Wheel Loader.

- Cat Product Link Cat Product Link allows remote monitoring of equipment to improve overall fleet management effectiveness. Product Link is deeply integrated into machine systems. Events and diagnostic codes, as well as hours, fuel, idle time and other detailed information are transmitted to a secure web based application, VisionLink[™]. VisionLink includes powerful tools to convey information to users and dealers, including mapping, working and idle time, fuel level and more.
- **S.O.SSM Services** Helps manage component life and decrease machine downtime, increasing productivity and efficiency. Regular fluid sampling can help track what is going on inside your machine. Wear related problems are predictable and easily repairable. Maintenance can be done to accommodate your schedule, resulting in increased uptime and flexibility in maintenance repairs before failure.

Parts Availability

Caterpillar provides an unsurpassed level of personalized service to help you work more cost effective and efficient. By utilizing a worldwide parts network Cat dealers help minimize machine downtime and save money by delivering replacement parts within 24 hours.

Resale Value

Owning quality equipment is an important factor in maintaining resale value. Caterpillar is not only known for machines that are better built, but provides product and dealer support to maintain the reliability and durability of your machine.



Operating Costs Save Time and Money by Working Smart

Data from customer machines show Cat wheel loaders are among the most fuel efficient machines in the industry. Several features contribute to this excellent fuel efficiency:

- **Performance Series Buckets** Deliver faster fill times and better material retention, ultimately reducing cycle times while improving productivity and fuel efficiency.
- **Load-Sensing Hydraulics** Provides only the hydraulic flow required by the implement and steering systems for improved fuel efficiency and greater rimpull.
- ACERT™ Engine Power dense engine enables a more fuel-efficient method to meet emissions regulations.
- Fuel Management System (FMS) Optimizes power for maximum fuel savings with minimal impact on production.
- Engine Idle Shutdown Automatic engine and electrical system shutdown conserves fuel.
- Lockup Torque Converter Transfers more power to the ground and optimizes fuel efficiency in all applications.
- **Shift Strategy** Reduced torque interruption increases driveline efficiency, conserving fuel. Auto 1-4 transmission mode keeps engine rpm low, reducing fuel consumption while delivering optimal machine performance.

Machine configuration, operator technique, and job site layout can impact fuel consumption by as much as 30 percent.

- **Machine Configuration** Select the correct work tool and tire type based on machine application. Radial tires are preferred; ensure proper inflation pressures. Heavier tires burn more fuel. Keep engine rpm low by using auto 1-4 transmission mode.
- Job Site Layout Spot loading targets in the right position. Avoid traveling more than twice the machine length during short cycle loading. Reduce transport distance for load and carry cycles by optimizing job site layout.
- Loading Bucket Load in first gear and keep engine rpm low. Raise and tilt bucket smoothly and do not use a "pumping" motion. Avoid lift lever detent and use transmission neutralizer.
- **Loading Truck or Hopper** Do not raise the work tool any higher than necessary. Keep engine rpm low and unload in controlled manner.
- Idle Set the parking brake to engage Engine Idle Management System.

Engine

Engine Model	Cat [®] C13 A	CERTTM
Max Gross Power (1,600 rpm) – SAE J1995	303 kW	406 hp
Max Gross Power (1,600 rpm) – SAE J1995 (metric)		412 hp
Max Net Power (1,600 rpm) – ISO 9249	274 kW	369 hp
Max Net Power (1,600 rpm) – ISO 9249 (metric)		373 hp
Max Net Power (1,600 rpm) – SAE J1349	274 kW	369 hp
Max Net Power (1,600 rpm) – SAE J134 (metric)		373 hp
Max Net Power (1,800 rpm) – EEC 80/1269	274 kW	369 hp
Max Net Power (1,800 rpm) – EEC 80/1269 (metric))	373 hp
Peak Gross Torque (1,300 rpm) – SAE J1995	2089 N·m	1,541 ft-lb
Peak Net Torque (1,200 rpm) – SAE J1349	1959 N∙m	1,445 ft-lb
Bore	130 mm	5.1 in
Stroke	157 mm	6.2 in
Displacement	12.5 L	762.8 in ³

• Cat engine with ACERT Technology – meets Tier 4 Interim/Stage IIIB emission standards.

Weights

• For 5.4 m³ (7.1 yd³) general purpose buckets with BOCE.

Buckets

Bucket Capacities	4.00 to	5.25 to
	12.20 m ³	16.00 yd ³

• Refer to bucket selection chart.

Operating Specifications

Static Tipping Load Full 37° Turn – ISO 14397-1*	19 267 kg	42,464 lb	
Static Tipping Load Full 37° Turn – Rigid Tires**	20 484 kg	45,148 lb	
Breakout Force	238 kN	53,548 lb	
 For 5.4 m³ (7.1 yd³) general purpose buckets with BOCE. * Full compliance to ISO (2007) 14397-1 Sections 1 thru 6, which requires 2% verification between calculations and testing. ** Compliance to ISO (2007) 14397-1 Sections 1 thru 5. 			
Transmission			
Standard Torque Con Forward 1		4.2 1	
1 of mara 1	6.8 km/h	4.2 mph	
Forward 2	12.1 km/h	7.5 mph	
Forward 3	21.5 km/h	13.4 mph	
Forward 4	37.8 km/h	23.5 mph	
Reverse 1	7.8 km/h	4.8 mph	
Reverse 2	13.9 km/h	8.6 mph	
Reverse 3	24.5 km/h	15.2 mph	
Reverse 4	42.8 km/h	26.6 mph	
Lockup Torque Conv			
Forward 1	6.9 km/h	4.3 mph	
Forward 2	13 km/h	8.1 mph	
Forward 3	23 km/h	14.3 mph	
Forward 4	40.7 km/h	25.3 mph	
Reverse 1	7.9 km/h	4.9 mph	
Reverse 2	14.8 km/h	9.2 mph	
Reverse 3	26.1 km/h	16.2 mph	
-	10 0 1 11		

• Maximum travel speed in standard vehicle with empty bucket and standard L4 tires with 930 mm (37 in) roll radius.

40.0 km/h 24.9 mph

Reverse 4

Hydraulic System

Steering System Pump Type	Piston	
Implement System – Maximum Pump Output (2,200 rpm)	460 L/min	121.5 gal/ min
Implement System – Maximum Operating Pressure	31 000 kPa	4,496 psi
Implement System – Optional 3rd Function Maximum Flow	300 L/min	79.3 gal/ min
Implement System – Optional 3rd Function Maximum Pressure	20 700 kPa	3,000 psi
Hydraulic Cycle Time – Raise from Carry Position	6.4 Seconds	3
Hydraulic Cycle Time – Dump, at Maximum Raise	1.7 Seconds	3
Hydraulic Cycle Time – Lower, Empty, Float Down	3.3 Seconds	3
Hydraulic Cycle Time – Total	11.4 Second	ls
• Cycle time with rated payload.		

Brakes

Meet OSHA, SAE J1473 OCT90
and ISO 3450-1985
required standards

Axles

Front	Fixed	
Rear	Oscillating ± 13 degrees	
Maximum Single- Wheel Rise and Fall	548 mm	21.6 in

Tires

- Choose from a variety of tires to match your application.
- Choices include:
 29.5R25 VMT BS L3 Radial
 29.5R25 XHA2 MX L3 Radial
 29.5R25 XLDD1 MX L4 Radial
 29.5R25 VSNT BS L4 Radial
 29.5R25 VSDL BS L5 Radial
 29.5R25 XLDD2 MX L5 Radial
 29.5R25 X MINE D2 MX L5 Radial
- NOTE: In certain applications (such as load and carry), the loader's productive capabilities might exceed the tires' tonneskm/h (ton-mph) capabilities. Caterpillar recommends that you consult a tire supplier to evaluate all conditions before selecting a tire model. Other special tires are available on request.

Cab

ROPS/FOPS Meets SAE and ISO standards

- Cat cab with a four post integrated Rollover Protective Structure (ROPS) are standard in North America and Europe.
- ROPS meets SAE J1040 APR88 and ISO 3471:1994 criteria.
- Falling Objects Protective Structure (FOPS) meets SAE J231 JAN81 and ISO:1992 Level II criteria.

Sound

- The sound values indicated below are for specific operating conditions only. Machine and operator sound levels will vary at different engine and/or cooling fan speeds. Hearing protection may be needed when the machine is operated with a cabin that is not properly maintained, or when the doors and/or windows are open for extended periods or in a noisy environment.
- The dynamic operator sound pressure level for a standard machine configuration, measured according to the procedures specified in "ISO 6396:2008," is 72 dB(A) with a cooling fan speed set at 70 percent of the maximum value.
- The sound power level that is labeled on the machine is 109 LWA. The measurement of the sound power level was made according to the test procedures and conditions that are specified in the European Union Directive "2000/14/EC" as amended by "2005/88/EC."

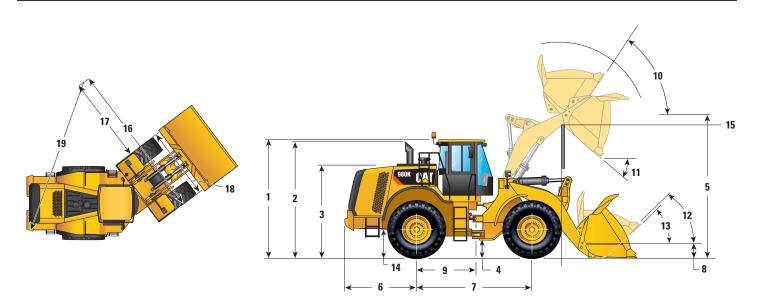
Service Refill Capacities

Fuel Tank –	447 L	118.1 gal
Standard		
Cooling System	63 L	16.6 gal
Crankcase	37 L	9.8 gal
Transmission	66 L	17.4 gal
Differentials and	84 L	22.2 gal
Final Drives – Front		
Differentials and	84 L	22.2 gal
Final Drives – Rear		
Hydraulic Tank	170 L	44.9 gal

980K Wheel Loader Specifications

Dimensions

All dimensions are approximate and based on L4 Michelin 29.5R25 XLDD1 Radial tires.



1 Height to Top of Rops	3809 mm	12'6"
2 Height to Top of Exhaust Pipe	3737 mm	12'4"
3 Height to Top of Hood	3109 mm	10'2"
4 Ground Clearance With 29.5R25 (See Tire Option Chart for Other Tires)	460 mm	1'6"
5 B-Pin Height – Standard	4539 mm	14'11"
B-Pin Height – High-Lift	4760 mm	15'7"
6 Center Line of Rear Axle to Edge of Counterweight	2510 mm	8'2"
7 Wheelbase	3700 mm	12'1"
8 B-Pin Height @ Carry – Standard	673 mm	2'0"
9 Center Line of Rear Axle to Hitch	1850 mm	6'1"
10 Rack Back @ Maximum Lift	61 degrees	
11 Dump Angle @ Maximum Lift	52 degrees	
12 Rack Back @ Carry	49 degrees	
13 Rack Back @ Ground	41 degrees	
14 Height to Center Line of Axle	885 mm	2'11"
15 Lift Arm Clearance	3795 mm	12'6"
Lift Arm Clearance @ High Lift	4041 mm	13'4"

Turning Radius

All dimensions are approximate and based on L4 Michelin 29.5R25 XLDD1 Radial tires.

16 Clearance Circle to Outside of Tires	7183 mm	23'6"
17 Clearance Circle to Inside of Tires	3875 mm	12'8"
18 Width Over Tires	3307 mm	10'9"
19 Clearance Circle to Outside Edge of Counterweight	7160 mm	23'6"

Bucket Type		Rock – P	'in On***	Heavy Duty Rock – Pin On***
Edge Type		Teeth and Segments	Teeth and Segments	Teeth and Segments
Capacity – Rated (§)	m ³	4.48	5.66	5.41
	yd ³	5.86	7.40	7.07
Capacity – Struck (§)	m ³	3.43	5.07	4.84
	yd ³	4.48	6.63	6.33
Width (§)	mm	3504	3504	3645
	ft/in	11'5"	11'5"	11'11"
Dump Clearance at Maximum Lift and 45° Discharge (§)	mm	3051	2890	2941
	ft/in	10'0"	9'5"	9'7"
Reach at Maximum Lift and 45° Discharge (§)	mm	1788	1979	1965
	ft/in	5'10"	6'5"	6'5"
Reach at Level Lift Arm and Bucket Level (§)	mm	3359	3608	3561
	ft/in	11'0"	11'10"	11'8"
Digging Depth (§)	mm	106	106	77
	in	4.1"	4.1"	3"
Overall Length	mm	9843	10 092	10051
	ft/in	32'4"	33'2"	33'0"
Overall Height with Bucket at Maximum Lift	mm	6204	6378	6378
	ft/in	20'5"	21'0"	21'0"
Loader Clearance Circle with Bucket at Carry Position (§)	mm	16 093	16 235	16 340
	ft/in	52'10"	53'4"	53'8"
Static Tipping Load, Straight (ISO)*	kg	21 886	20 991	20 690
	lb	48,238	46,265	45,601
Static Tipping Load, Straight (Rigid Tire)*	kg	23 262	22 365	22 070
	lb	51,270	49,292	48,644
Static Tipping Load, Articulated (ISO)*	kg	19 269	18 426	18 090
	lb	42,469	40,611	39,871
Static Tipping Load, Articulated (Rigid Tire)*	kg	20 495	19 654	19 323
	lb	45,172	43,318	42,589
Breakout Force** (§)	kN	221	189	205
	lb	49,824	42,479	46,121
Operating Weight*	kg	32 132	32 478	32 897
	lb	70,819	71,581	72,504

* Static tipping loads and operating weights shown are based on a machine configuration with Michelin 29.5R25 XLDD1 L4 Radial tires, full fluids, operator, standard counterweight, standard transmission, cold start, roading fenders, Product Link, open differential axles (front/rear), power train guard, secondary steering, and sound suppression.

** Measured 102 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with SAE J732C.

*** Rock bucket specifications are given on Michelin 29.5R25 XLDD2 L5 Radial tires and are configured with side protectors.

(§) Specifications and ratings conform to all applicable standards recommended by the Society of Automotive Engineers, including SAE Standard J732C governing loader ratings.

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

Bucket Type		General Purpose – Pin On										
Edge Type		Bolt-On Edges	Teeth and Segments	Bolt-On Edges	Teeth and Segments	Bolt-On Edges	Teeth and Segments					
Capacity – Rated (§)	m ³	5.40	5.40	5.70	5.70	6.00	6.00					
	yd ³	7.06	7.06	7.46	7.46	7.85	7.85					
Capacity – Struck (§)	m ³	5.00	5.00	4.50	4.50	5.30	5.30					
	yd ³	6.54	6.54	5.89	5.89	6.93	6.93					
Width (§)	mm	3447	3535	3447	3535	3447	3535					
	ft/in	11'3"	11'7"	11'3"	11'7"	11'3"	11'7"					
Dump Clearance at Maximum Lift and 45° Discharge (§)	mm	3273	3107	3204	3037	3187	3019					
	ft/in	10'8"	10'2"	10'6"	9'11"	10'5"	9'10"					
Reach at Maximum Lift and 45° Discharge (§)	mm	1556	1693	1604	1738	1625	1760					
	ft/in	5'1"	5'6"	5'3"	5'8"	5'4"	5'9"					
Reach at Level Lift Arm and Bucket Level (§)	mm	3040	3252	3124	3336	3152	3364					
	ft/in	9'11"	10'8"	10'3"	10'11"	10'4"	11'0"					
Digging Depth (§)	mm	103	103	103	103	103	103					
	in	4"	4"	4"	4"	4"	4"					
Overall Length	mm	9509	9750	9593	9834	9621	9862					
	ft/in	31'3"	32'0"	31'6"	32'4"	31'7"	32'5"					
Overall Height with Bucket at Maximum Lift	mm	6421	6421	6243	6243	6269	6269					
	ft/in	21'1"	21'1"	20'6"	20'6"	20'7"	20'7"					
Loader Clearance Circle with Bucket at Carry Position (§)	mm	15 853	16 076	15 898	16 123	15 913	16 138					
	ft/in	52'1"	52'9"	52'2"	52'11"	52'3"	53'0"					
Static Tipping Load, Straight (ISO)*	kg	21 822	21 637	21 583	21 397	21 444	21 258					
	lb	48,096	47,689	47,569	47,161	47,263	46,853					
Static Tipping Load, Straight (Rigid Tire)*	kg	23 185	22 999	22 948	22 760	22 811	22 623					
	lb	51,101	50,691	50,578	50,165	50,275	49,861					
Static Tipping Load, Articulated (ISO)*	kg	19 267	19 082	19 042	18 856	18 907	18 721					
	lb	42,464	42,058	41,969	41,560	41,671	41,261					
Static Tipping Load, Articulated (Rigid Tire)*	kg	20 484	20 298	20 262	20 074	20 1 29	19 941					
	lb	45,148	44,738	44,658	44,245	44,365	43,951					
Breakout Force** (§)	kN	238	235	224	222	220	218					
	lb	53,548	52,996	50,542	50,003	49,551	49,016					
Operating Weight*	kg	31 244	31 383	31 327	31 466	31 423	31 562					
	lb	68,862	69,167	69,045	69,350	69,256	69,561					

* Static tipping loads and operating weights shown are based on a machine configuration with Michelin 29.5R25 XLDD1 L4 Radial tires, full fluids, operator, standard counterweight, standard transmission, cold start, roading fenders, Product Link, open differential axles (front/rear), power train guard, secondary steering, and sound suppression.

** Measured 102 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with SAE J732C.

*** Rock bucket specifications are given on Michelin 29.5R25 XLDD2 L5 Radial tires and are configured with side protectors.

(§) Specifications and ratings conform to all applicable standards recommended by the Society of Automotive Engineers, including SAE Standard J732C governing loader ratings.

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

Bucket Type		Heavy Du Purpose	ty General – Pin On		Handling – 1 On
Edge Type		Bolt-On Edges	Teeth and Segments	Bolt-On Edges	Teeth and Segments
Capacity – Rated (§)	m ³	5.70	5.70	5.70	5.70
	yd ³	7.46	7.46	7.46	7.46
Capacity – Struck (§)	m ³	4.50	4.50	5.06	5.06
	yd ³	5.89	5.89	6.62	6.62
Width (§)	mm	3447	3535	3447	3535
	ft/in	11'3"	11'7"	11'3"	11'7"
Dump Clearance at Maximum Lift and 45° Discharge (§)	mm	3204	3037	3105	2928
	ft/in	10'6"	9'11"	10'2"	9'7"
Reach at Maximum Lift and 45° Discharge (§)	mm	1604	1738	1519	1641
	ft/in	5'3"	5'8"	4'11"	5'4"
Reach at Level Lift Arm and Bucket Level (§)	mm	3124	3336	3149	3361
	ft/in	10'3"	10'11"	10'4"	11'0"
Digging Depth (§)	mm	103	103	103	103
	in	4"	4"	4"	4"
Overall Length	mm	9593	9834	9618	9859
	ft/in	31'6"	32'4"	31'7"	32'5"
Overall Height with Bucket at Maximum Lift	mm	6243	6243	6242	6242
	ft/in	20'6"	20'6"	20'6"	20'6"
Loader Clearance Circle with Bucket at Carry Position (§)	mm	15 898	16 123	15 911	16 137
	ft/in	52'2"	52'11"	52'3"	53'0"
Static Tipping Load, Straight (ISO)*	kg	21 425	21 239	21 109	20 926
	lb	47,220	46,812	46,524	46,121
Static Tipping Load, Straight (Rigid Tire)*	kg	22 787	22 600	22 434	22 249
	lb	50,224	49,811	49,445	49,037
Static Tipping Load, Articulated (ISO)*	kg	18 883	18 698	18 611	18 427
	lb	41,620	41,211	41,018	40,615
Static Tipping Load, Articulated (Rigid Tire)*	kg	20 101	19 914	19 795	19 610
	lb	44,304	43,891	43,628	43,221
Breakout Force** (§)	kN	224	221	221	218
	lb	50,415	49,875	49,662	49,126
Operating Weight*	kg	31 473	31 612	31 452	31 591
	lb	69,367	69,672	69,320	69,625

* Static tipping loads and operating weights shown are based on a machine configuration with Michelin 29.5R25 XLDD1 L4 Radial tires, full fluids, operator, standard counterweight, standard transmission, cold start, roading fenders, Product Link, open differential axles (front/rear), power train guard, secondary steering, and sound suppression.

** Measured 102 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with SAE J732C.

*** Rock bucket specifications are given on Michelin 29.5R25 XLDD2 L5 Radial tires and are configured with side protectors.

(§) Specifications and ratings conform to all applicable standards recommended by the Society of Automotive Engineers, including SAE Standard J732C governing loader ratings.

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

Bucket Type		Material Handling with Backgrading Edge – Pin On	Light Material – Pin On	High Lift	Auxiliary Counterweight
Edge Type		Teeth	Bolt-On Edges	Change in Specs	Change in Specs
Capacity – Rated (§)	m ³	5.59	8.20		
	yd ³	7.31	10.73		
Capacity – Struck (§)	m^3	4.98	6.47		
	yd ³	6.51	8.46		
Width (§)	mm	3580	3638		
	ft/in	11'8"	11'11"		
Dump Clearance at Maximum Lift and 45° Discharge (§)	mm	3201	2917	220	
	ft/in	10'6"	9'6"	8"	
Reach at Maximum Lift and 45° Discharge (§)	mm	1464	1700		
	ft/in	4'9"	5'6"		
Reach at Level Lift Arm and Bucket Level (§)	mm	3043	3411	160	
	ft/in	9'11"	11'2"	6"	
Digging Depth (§)	mm	74	108		
	in	2.9"	4.2"		
Overall Length	mm	9488	9883	201	
	ft/in	31'2"	32'6"	8"	
Overall Height with Bucket at Maximum Lift	mm	6486	6536	221	
	ft/in	21'4"	21'6"	9"	
Loader Clearance Circle with Bucket at Carry Position (§)	mm	15 954	16 234	175	
	ft/in	52'5"	53'4"	7"	
Static Tipping Load, Straight (ISO)*	kg	20 420	20 819	-1831	1437
	lb	45,005	45,887	-4,036	3,167
Static Tipping Load, Straight (Rigid Tire)*	kg	21 744	22 238	-2026	1546
	lb	47,925	49,012	-4,467	3,408
Static Tipping Load, Articulated (ISO)*	kg	17 901	18 293	-1656	1227
	lb	39,453	40,318	-3,651	2,704
Static Tipping Load, Articulated (Rigid Tire)*	kg	19 082	19 567	-1836	1342
	lb	42,058	43,125	-4,048	2,958
Breakout Force** (§)	kN	234	186	3	
	lb	52,573	41,956	813	
Operating Weight*	kg	32 263	31 831	115	693
	lb	71,108	70,156	253	1,528

* Static tipping loads and operating weights shown are based on a machine configuration with Michelin 29.5R25 XLDD1 L4 Radial tires, full fluids, operator, standard counterweight, standard transmission, cold start, roading fenders, Product Link, open differential axles (front/rear), power train guard, secondary steering, and sound suppression.

** Measured 102 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with SAE J732C.

*** Rock bucket specifications are given on Michelin 29.5R25 XLDD2 L5 Radial tires and are configured with side protectors.

(§) Specifications and ratings conform to all applicable standards recommended by the Society of Automotive Engineers, including SAE Standard J732C governing loader ratings.

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

Bucket Selection Chart

r	Mate	erial Density	kg/m³	700	800	900 1	000	1100	1200 1	1300 1400	1500	1600 1	700 1	800 19	900 20)00 2 [.]	100 23	200	2300	2400	2500	
			5.40 m³ (7.06 yd³)							6.2	1 m ³ (8.12	yd³)		5.4	 D m³ (7.06	yd³)						
		General Purpose	5.70 m³ (7.46 yd³)							6.56 m ³ (8.58	yd³)		5.70	 m³ (7.46 y 	 d³) 							
			6.00 m³ (7.85 yd³)						6.90 n	n ³ (9.02 yd ³)		6.00) m ³ (7.85	 yd³) 								
		Material Handling	5.70 m³ (7.46 yd³)						6	5.56 m³ (8.58 yc	3)		5.70 m ³	7.46 yd³)								
Standard Linkage	On	Heavy Duty General Purpose	5.70 m³ (7.46 yd³)							6.56 m ³ (8.58	/d ³)		5.70 n	 1 ³ (7.46 yd	3)							
Standard	Pin	Light Material	8.20 m³ (10.73 yd³)		9.43 m	 (12.33 yd [:] 	3)		B.20 m ³ (10	 .73 yd³)												
		Rock	4.48 m³ (5.86 yd³)							5.16 m	³ (6.75 yd ³)			4.48 m ³	(5.86 yd ³						
			5.66 m³ (7.40 yd³)				6.51 m ³	 (8.51 yd ³	•)		5.66 m ³ (7	.40 yd³)										
		Heavy Duty Rock	5.41 m³ (7.08 yd³)				6.22	 m³ (8.14 y	yd³)		5.41 m	 1 ³ (7.08 yd ³) 										
ī	Mate	erial Density	lb/yd³	1,180	1,348	1,517 1	,685	1,854	2,022	2,191 2,359	2,528	2,696 2	,865 3	,033 3,	202 3,	370 3,	539 3,	707	3,876	4,044	4,213	
		ket Density % 105% 100% 95%																				

All buckets are showing Bolt-On Edges. Material Handling buckets are flat floor buckets.

Bucket Fill Factors

(as a % of ISO Rated Capacity)

Loose Material		Performance Series Bucket
Earth/Clay		115
Sand and Gravel		115
Aggregate:	25-76 mm (1 to 3 in)	110
	19 mm (0.75 in) and smaller	105
Rock		100

980K Wheel Loader Specifications

Bucket Selection Chart

	Mat	erial Density	kg/m³	700	800	900	1000	1100	1200 1	1300	1400	1500	1600	1700	1800 1	900 2	000	2100	2200	2300	2400	2500
			5.40 m³ (7.06 yd³)						6.	 21 m³ (8. 	.12 yd ³)			5.40 m ³	 (7.06 yd ³) 							
		General Purpose	5.70 m³ (7.46 yd³)						6.56 m³ (8.	 58 yd³) 			 5.70 m ³	(7.46 yd ³)								
			6.00 m³ (7.85 yd³)					 6.90 m ³ 	(9.02 yd ³)			6.00 m	 ³ (7.85 yd ³ 	•)								
ige		Material Handling	5.70 m³ (7.46 yd³)					6.5	i6 m³ (8.58	yd ³)			 5.70 m³ (7 	46 yd³)								
High Lift Linkage	Pin On	Heavy Duty General Purpose	5.70 m³ (7.46 yd³)					6	.56 m³ (8.5	8 yd³)			5.70 m³ (7.46 yd³)								
High		Light Material	8.20 m³ (10.73 yd³)	9.43	 m³ (12.3	3 yd³)		 8.20 m ³ (10	0.73 yd ³)													
		Rock	4.48 m³ (5.86 yd³)						5.16	m ³ (6.75	yd ³)			4.48	 3 m³ (5.86 	yd³)						
		KOCK	5.66 m³ (7.40 yd³)			6.51 m	 ³ (8.51 yd ³)			5.66	 m ³ (7.40	yd³)										
		Heavy Duty Rock	5.41 m³ (7.08 yd³)			6.22	 m³ (8.14 y	d ³)		5.4	 41 m³ (7.0)8 yd³) 										
	Mat	erial Density	lb/yd³	1,180	1,348	1,517	1,685	1,854	2,022	2,191	2,359	2,528	2,696	2,865 3	,033 3	,202 3,	370 3	3,539	3,707	3,876	4,044	4,213
115		cket Density 105% 100% 95%																				

All buckets are showing Bolt-On Edges. Material Handling buckets are flat floor buckets.

Bucket Fill Factors

(as a % of ISO Rated Capacity)

Loose Material		Performance Series Bucket
Earth/Clay		115
Sand and Gravel		115
Aggregate:	25-76 mm (1 to 3 in)	110
	19 mm (0.75 in) and smaller	105
Rock		100

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

POWER TRAIN

Brakes, full hydraulic enclosed wet-disc with Integrated Braking System (IBS) Brake wear indicators Diesel Particulate Filter (DPF) Engine, Cat C13 that meets Tier 4 Interim/ Stage IIIB emission standards Fast fuel system ready Fan, radiator, electronically controlled, hydraulically driven, temperature sensing, on demand Fuel Management System (FMS) Fuel priming pump (electric) Fuel/water separator Guard, vandalism Power train guard Precleaner, engine air intake Radiator, unit core (6 fpi) with ATAAC Secondary Steering Switch, transmission neutralizer lockout Torque converter (free wheel stator) Transmission, automatic planetary power shift (4F/4R) Variable Shift Control (VSC)

ELECTRICAL

- Alarm, back-up Alternator, 150-amp brushless Batteries, (4) maintenance free 1,000 CCA Ignition key; start/stop switch Lighting system:
 - Four halogen work lights
 - Two halogen roading lights (with signals)
 - Two halogen rear vision lights (hood mounted)

Lights, signal LED Rear Main disconnect switch

Receptacle start (cables not included) Starter, electric, heavy duty

Starting and charging system (24-volt)

OPERATOR ENVIRONMENT

Air conditioner, heater, and defroster (auto temp and fan) Beverage holders (2) with storage compartment for cell phone/MP3 player Bucket/Work tool function lockout Cab, pressurized and sound suppressed, (ROPS/FOPS) radio ready (entertainment) includes antenna, speakers and converter (12-volt 10-amp) Camera, rearview Coat hook (2) EH controls, lift and tilt function EH parking brake Computerized Monitoring System Instrumentation, gauges: - Digital gear range indicator - DPF soot loading percent - Engine coolant temperature - Fuel level - Hydraulic oil temperature - Speedometer/tachometer - Transmission oil temperature Instrumentation, warning indicators: - Axle oil temperature - Battery voltage hi/low – Engine air filter restriction - Engine intake manifold temperature - Engine oil pressure - Fuel level and pressure hi/low - Hydraulic oil filter restriction - Hydraulic oil low - Parking brake - Primary steering oil pressure - Service brake oil pressure - Transmission filter bypass Horn. electric Light, two dome (cab) Mirrors, rearview external (includes spot mirrors) Post mounted membrane switch keypads Receptacle, 12-Volt (3) Seat, Cat Comfort (cloth) air suspension Seat belt, retractable, 51 mm (2") wide Steering, EH joystick, speed sensing with force feedback Sun visor, front Wet-arm wipers/washers (front and rear) – Intermittent front wiper Window, sliding (left and right side) Viscous mounts

TIRES

A tire must be selected from the mandatory attachments section. Base machine price includes a tire allowance

FLUIDS

Premixed 50% concentration of Extended Life Coolant with freeze protection to -34° C (-29° F)

OTHER STANDARD EQUIPMENT

Auto idle shutdown Couplings, Cat O-ring face seals Ecology drains for engine, transmission, axles, and hydraulics Ether aid Fenders, steel front with mud-flap/rear with extension Filters: - Fuel, primary/secondary - Engine air, primary/secondary – Engine oil - Hydraulic oil - Transmission Fuel cooler Grease zerks Grill, airborne debris Guard, crankcase Hitch, drawbar with pin Hood, non-metallic power tilting with rear clamshell Hoses. Cat XT Hydraulic oil cooler (swing out) Hydraulic system, load sensing Kickout, lift and tilt, automatic (adjustable in cab) Linkage, Z-bar, cast crosstube/tilt lever Oil sampling valves Platform, window washing Product Link Remote diagnostic pressure taps Ride control. 2V Service center (electrical and hydraulic) Sight gauges: engine coolant, hydraulic oil, and transmission oil level Steering, load sensing Toolbox Trap seals Vandalism protection caplocks

Optional equipment may vary. Consult your Cat dealer for details.

Power Train - Differentials - Open, front or rear - Limited slip, front or rear - Extreme temperature seals - Seal guards - Axle oil cooler - Axle oil cooler ready Hydraulics arrangement, 3V Standard transmission with lockup torque converter Heavy duty transmission Heavy duty transmission with lockup torque converter Cold start/high altitude package (240V) Comfort package Work lighting package, halogen Work lighting package, HID Aggregate loader package

Forestry package Industrial package Cab protection package Steel mill package High lift, 2 valve High lift, 3 valve Quick coupler (contact Cat Work Tools) Bucket and work tool options (contact Cat Work Tools) Lights, Signal LED Front Product Link, satellite Control, aggregate autodig Joystick, 2 valve Joystick, 3 valve Payload control system Radio, AM/FM CD/MP3 player Radio, AM/FM CD/MP3 player (Bluetooth) Filter, carbon fresh air

RESPA air filtration Sun visor, rear Security system, machine Cooling, high ambient Guard, front window Guard, complete cab Guard, front window (Logger) Autolube Fenders, roading with fender extensions front/rear Precleaner, HVAC Precleaner, turbine Precleaner, turbine/trash Oil change system, high speed Fan, variable pitch Antifreeze, -50° C (-58° F) EH steering wheel (availability TBD) Retractable, 18-degree inclined ladder

Notes

Notes

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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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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