320 Hydraulic excavator

Engine Power Operating Weight 128 kW (172 hp) 22 800 kg (50,265 lb)

Cat® C4.4 Engine meets U.S. EPA Tier 4 Final and EU Stage IV emission standards with an aftertreatment system that requires no operator input or downtime.

E



NEXT GENERATION EXCAVATORS

Cat® Next Generation Excavators offer you more choices than ever for your business.

- + MORE MODEL OPTIONS
- + MORE STANDARD TECHNOLOGIES
- + MORE PRICE POINTS

Ready to help you make your business stronger, Cat Next Generation Excavators give you new ways to get the most work done at the lowest cost – so you put more money in your pocket.



THE CAT® 3200 MOVING THE STANDARD HIGHER

The **CAT 320** raises the bar for efficiency and fuel economy in this size class. With the industry's highest level of standard factory technology, a cab made for operator comfort, plus lower fuel and maintenance costs, the 320 will help make your operation more productive and profitable.



INCREASE EFFICIENCY UP TO 45%¹

The Cat 320 offers the industry's highest level of standard factory-equipped technology, including Cat Grade with 2D, Grade with Assist, and Payload.

REDUCE FUEL CONSUMPTION UP TO 25%²

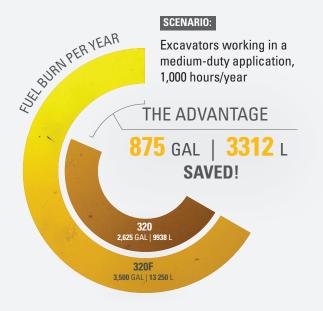
A precise combination of lower engine speed and a large hydraulic pump delivers top performance while burning less fuel.

LOWER MAINTENANCE COSTS **UP TO 25%**³

Extended and more synchronized maintenance intervals increase uptime and reduce costs compared to the 320F.

³Cost reduction based on 12,000 hours of operation.

FUEL EFFICIENCY SAVINGS ADD UP



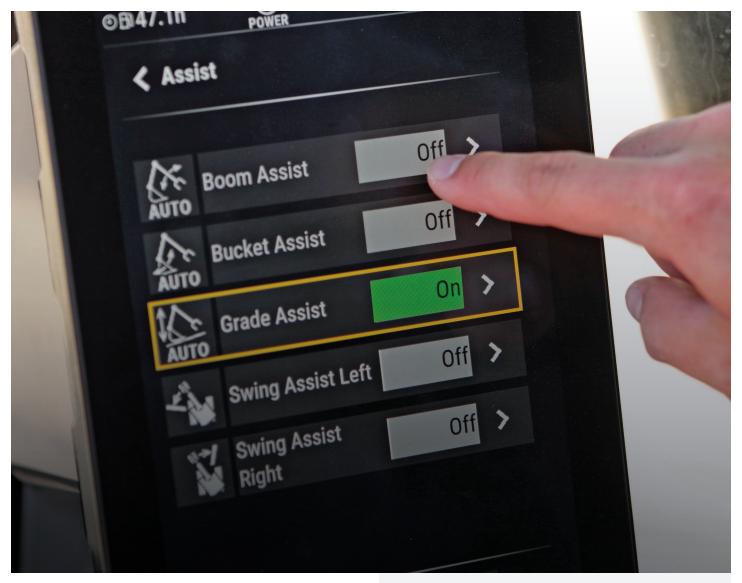
CALCULATION:

320F:

320: 3.5 GAL/HR × 1,000 HR/YR = 3,500 GAL/YR (3.5 GAL/HR × 75%) × 1,000 HR/YR = 2,625 GAL/YR 13.25 L/HR × 1000 HR/YR = 13 250 L/YR (13.25 L/HR × 75%) × 1000 HR/YR = 9938 L/YR

¹Operator efficiency gains compared to traditional grading methods.

² Compared to the 320F.



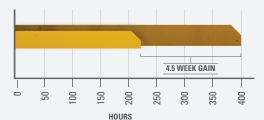
STANDARD CAT TECHNOLOGY

GETS JOBS DONE FASTER WITH LESS REWORK

Onboard Cat Technology gives you the edge. Operators of all experience levels will dig, load and grade with more confidence, speed, and accuracy. The result? Better productivity and lower costs.

WHAT WOULD YOU DO WITH 4.5 MORE WEEKS?

45% GAIN WITH TECHNOLOGY means same amount of work done faster



PREVIOUS YEAR:

USING TRADITIONAL GRADING METHODS

400 hours/year, grading with stakes and checkers

CURRENT YEAR:

USING CAT 320 WITH CAT TECHNOLOGY

220 hours/year, with standard Cat Grade



STANDARD, SIMPLE-TO-USE TECHNOLOGIES INCLUDE:



STANDARD CAT GRADE WITH 2D

Cat Grade with 2D helps operators reach grade faster. Operators cut and fill to exact specifications without overcutting. You can program up to four of your most commonly used target depth and slope off sets so you can get to grade with ease – a real time saver on the jobsite. Best of all, no grade checkers are needed so the work area is safer.



STANDARD CAT PAYLOAD

Cat Payload technology delivers precise load targets with on-the-go weighing, which helps prevent over/underloading and maximizes efficiency. Automated tracking helps manage production and lower cost. You can even take payload data with you. The monitor's USB port lets you download your results from one shift all the way up to 30 days of work so you can manage your progress without needing an internet connection or VisionLink[®] subscription.



STANDARD CAT GRADE WITH ASSIST

Automated boom, stick and bucket movements deliver more accurate cuts with less effort. The operator simply sets the depth and slope into the monitor and activates single-lever digging.

AVAILABLE OPTIONAL UPGRADES

Cat Grade with Advanced 2D and Cat Grade with 3D increase productivity and expand grading capabilities. Grade with Advanced 2D adds in-field design capabilities through an additional 254 mm (10 inch) high-resolution touchscreen monitor. Grade with 3D adds GPS and GLONASS positioning for pinpoint accuracy. Plus it's easier than ever to connect to 3D services like Trimble Connected Community or Virtual Reference Station with the excavator's built-in communication technology.

CAT LINK TECHNOLOGY TAKES THE GUESSWORK OUT OF MANAGING YOUR EQUIPMENT

CAT LINK telematics technology helps take the complexity out of managing your jobsites – by gathering data generated by your equipment, materials, and people and serving it up to you in customizable formats.



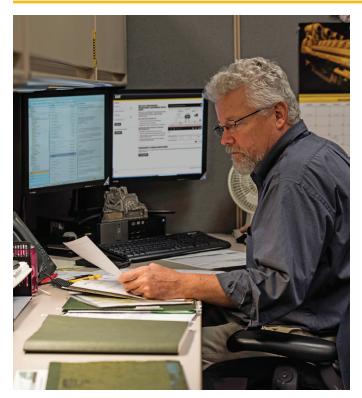
PRODUCT LINK™

Product Link[™] collects data automatically and accurately from your assets – any type and any brand. Information such as location, hours, fuel usage, productivity, 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 is a suite of technologies that improve your jobsite efficiency.

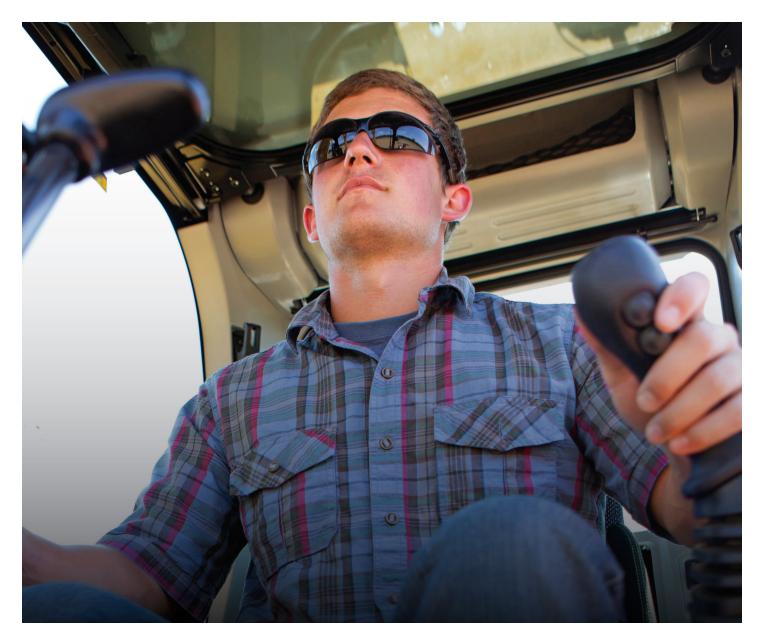
Remote Troubleshoot allows your Cat dealer to perform diagnostic testing on your connected machine remotely, pinpointing potential issues while the machine is in operation. Remote Troubleshoot ensures the technician arrives with the correct parts and tools the first time, eliminating additional trips to save you time and money.

Remote Flash updates on-board software without a technician being present, potentially reducing update time by as much as 50%. You can initiate the update when convenient, increasing your overall operating efficiency.

The **Cat App** helps you manage your assets – at any time – right from your smartphone. You can see your fleet location, hours, and other information you need to see. You will get critical alerts for required maintenance, and you can even request service from your local Cat dealer.

CAB TAKES The hard Out of work

Sites where excavators typically work are rugged and challenging. That's why it's important that the 320 cab protects the operator as much as possible from the fatigue, stresses, sounds, and temperatures of the job.



SEAT AND JOYSTICK CONSOLE REDUCE FATIGUE

Comfort and efficiency of movement keep operators productive and alert all shift long. The standard seat is wide and adjustable for operators of virtually any size. The Deluxe cab package includes a heated air suspension seat; the Premium seat is both heated and cooled.

TOUCHSCREEN MONITOR

Most machine settings can be controlled through the high-resolution 254 mm/10 inch touchscreen monitor. It offers 42 languages and is easy to reach from the seat – no twisting or turning.

SMART SETTINGS

The Smart Mode automatically adjusts engine and hydraulic power to meet work demand with maximum fuel efficiency. Auto Dig Boost increases power by up to 8% for better bucket penetration, shorter cycle times, and greater payloads.

CUSTOMIZABLE JOYSTICKS

Joystick function can be customized through the monitor. Joystick pattern as well as response can be set to match operator preference. All preferences are saved with the operator ID and restored at login.

D KEYLESS PUSH START

The 320 uses a keyless push-button engine start. This adds security for the machine by using Operator ID codes to limit and track machine access. Codes can be entered manually, via an optional Bluetooth[®] key fob, or smartphone app.

CAT



ISO-CERTIFIED ROPS CAB

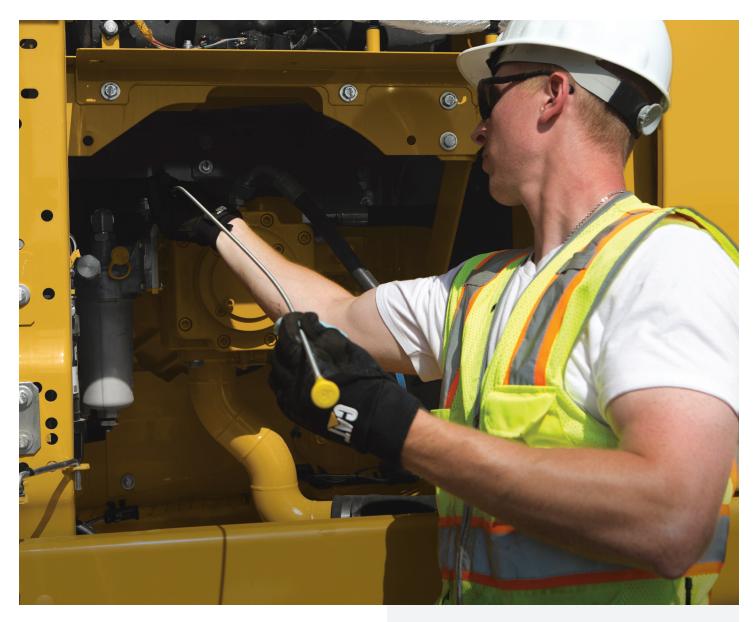
The ISO-certified ROPS cab is soundsuppressed and sealed. The windows and lower front profile of the machine give outstanding visibility to the work area without the strain of constantly leaning forward.

ALL-AROUND VISIBILITY

Standard rearview and right-hand-sideview cameras keep operators aware of their surroundings at all times. An optional 360° Visibility feature is also available.

EASY ACCESS, CONNECTIVITY AND STORAGE

Convenience features include Bluetooth integrated radio, USB ports for charging and phone connectivity, 12V DC outlets and AUX port, storage in rear, overhead and console compartments, and cup and bottle holders.



SAFETY FEATURES

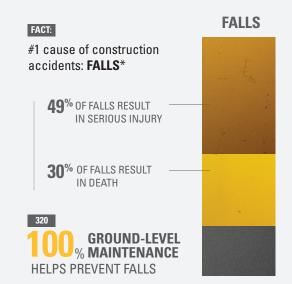
LOOK OUT FOR YOUR PEOPLE AND YOUR EQUIPMENT

Daily maintenance checks can be performed with 100% of the points accessible from ground level, making maintenance faster, easier, and safer. Checkpoints include the engine oil dipstick, fuel water separator, fuel tank water and sediment drains, and cooling system coolant level check.



Lift Assist helps you avoid tipping. With visual and auditory alerts, you'll know if your load is within the excavator's safe working range limits.

STAY SAFE EVERY DAY



*https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4962179/





E-WALL SWING



E-WALL FORWARD E-WALL CAB PROTECTION



E-WALL CEILING



E-WALL FLOOR

STANDARD 2D E-FENCE TECHNOLOGY

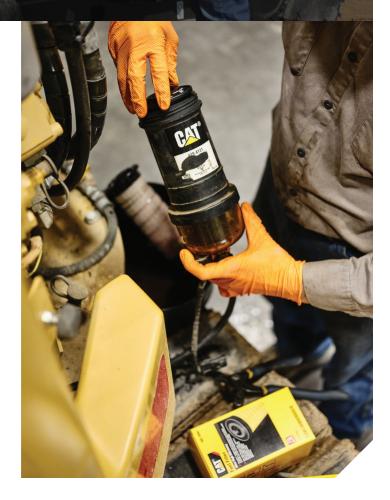
Whether you are using a bucket or hammer, standard 2D E-Fence automatically stops excavator motion using boundaries you set in the monitor for the entire working envelope – above, below, sides, and front. E-Fence protects equipment from damage and reduces fines related to zoning or underground utility damage. Automatic boundaries even help prevent operator fatigue by reducing overswinging and digging.

LOWER MAINTENANCE COSTS UP TO 20%

With extended and more synchronized maintenance intervals, you get more done at a lower cost compared to the 320F. Consolidated filter locations make service faster. Hydraulic, air, and fuel tank filters have increased capacity and longer life.

KEY MAINTENANCE COST REDUCTIONS INCLUDE:

- + Consolidated filter locations to reduce service time.
- + Oil and fuel filters with extended maintenance intervals.
- + Advanced air filter with double the dust holding capacity of the previous filter.



INCREASE YOUR PRODUCTIVITY AND PROFIT WITH CAT ATTACHMENTS

You can easily expand the performance of your machine by utilizing any of the variety of Cat Attachments. Each Cat Attachment is designed to fit the weight and horsepower of Cat Excavators for improved performance, safety, and stability.

HYDRAULIC HAMMERS

RAKES



MULTI-PROCESSORS



RIPPERS



THUMBS





QUICK COUPLERS



SECONDARY PULVERIZERS



VIBRATORY PLATE COMPACTORS





TILTROTATOR



PREVENT HAMMER WEAR AND TEAR

Turn on through the monitor and the hammer will automatically stop after 30 seconds of continuous firing, preventing both tool and excavator from overworking.

ATTACHMENT TRACKING MADE EASY

The Cat PL161 Attachment Locator is a Bluetooth device that makes finding your attachments and other gear quick and easy. The excavator's onboard Bluetooth reader or Cat App on your phone will locate the device automatically.



Save more time and energy with the available work tool recognition feature. A simple shake of the attached tool confirms its identity; it also ensures all the attachment settings are correct so you can get to work quickly and efficiently.

TECHNICAL SPECIFICATIONS

See *cat.com* for complete specifications.

FNGINE

Engine	
Engine Model	Cat C4.4
Engine Power – ISO 9249:2007	129 kW 173 hp
Net Power – ISO 14396:2002	128 kW 172 hp
Bore	105 mm 4 in
Stroke	127 mm 5 in
Displacement	4.4 L 269 in ³
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Net Power is tested per ISO 9249:2007. Standards in effect at the time of manufacture.

Net power available at the flywheel when the engine is equipped with fan, air cleaner, aftertreatment, and alternator with engine speed at 1,800 rpm.

Rated speed at 1,800 rpm.

HYDRAULIC SYSTEM				
Main System – Maximum Flow – Implement	429 L/min 1	13 gal/min		
Maximum Pressure – Equipment – Normal	35 000 kPa	5,075 psi		
Maximum Pressure –	38 000 kPa	5,510 psi		
Equipment – Heavy Lift Mode				
Maximum Pressure – Travel	34 300 kPa	4,974 psi		
Maximum Pressure – Swing	27 500 kPa	3,988 psi		
SWING MECHANISM				
Swing Speed		11.25 rpm		
Maximum Swing Torque	82 kN⋅m 60),300 lbf-ft		
MACHINE WEIGHT				
Operating Weight – 790 mm (31") Shoes	22 800 kg	50,265 lb		
Reach boom, R2.9 m (9'6") stick, HD 1.19 m ³ (1.56 y	d³) bucket, 790	mm		
(31 in) triple grouser shoes, 4.2 mt (9,300 lb) count	erweight.			
Operating Weight – 600 mm (24") Shoes	21 800 kg 48,100			
Reach boom, R2.9 m (9'6") stick, HD 1.19 m³ (1.56 yd³) bucket, 600 mm				
(24 in) triple grouser shoes, 4.2 mt (9,300 lb) count	erweight.			
SERVICE REFILL CAPACIT	ES			
Fuel Tank	345 L	86.6 gal		
Cooling System	25 L	6.6 gal		
Engine Oil	15 L	4.0 gal		
Swing Drive (each)	12 L	3.2 gal		
Final Drive (each)	5 L	•		
Hydraulic System (including tank)	234 L	•		
ing a want of ocom (more any currer)	2012	ee gui		

DIMENSIONS			
Boom	Reach 5.7 m (18'8")		
Stick	Reach 2.9 m (9'6")		
Bucket	1.19 m ³ (1.5	56 yd³)	
Shipping Height (top of cab)	2960 mm	9'9"	
Handrail Height	2950 mm	9'9"	
Shipping Length	9530 mm	31'3"	
Tail Swing Radius	2830 mm	9'3"	
Track Length	4450 mm	14'7"	
Length to Center of Rollers	3650 mm	12'0"	
Ground Clearance	470 mm	1'7"	
Track Gauge	2380 mm	7'9"	
Transport Width – 600 mm (24") Shoes	2980 mm	9'9"	
Transport Width – 790 mm (31") Shoes	3170 mm	10'5"	
Counterweight Clearance	1050 mm	3'5"	

WORKING RANGES AND FORCES

	U		
Boom	Reach 5.7 m (18'8")		
Stick	Reach 2.9 m (9'6")		
Bucket	1.19 m ³ (1.56 yd ³)		
Maximum Digging Depth	6720 mm 22'1"		
Maximum Reach at Ground Level	9860 mm 32'4"		
Maximum Cutting Height	9370 mm 30'9"		
Maximum Loading Height	6490 mm 21'4"		
Minimum Loading Height	2170 mm 7'1"		
Maximum Depth Cut for 2440 mm (8'0") Level Bottom	6550 mm 21'6"		
Maximum Vertical Wall Digging Depth	5190 mm 17'0"		
Bucket Digging Force (ISO)	150 kN 38,811 lbf		
Stick Digging Force (ISO)	106 kN 23,911 lbf		

AIR CONDITIONING SYSTEM

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 0.9 kg of refrigerant, which has a CO_2 equivalent of 1.287 metric tonnes.

CAB FEATURES

Hydraulic Tank

DEF Tank

FEATURE	DESCRIPTION	DELUXE	PREMIUM
ROPS	Standard Sound Suppression	•	х
	Advanced Sound Suppression	х	•
High-Resolution Monitor	254 mm (10 inch) Touchscreen	•	٠
Keyless Push-to-Start	Engine Control	•	•
Jog Dial, Shortcut Keys	Monitor Control	•	•
Air Conditioning	Automatic Bi-level	•	•
Suspension Seat with Seat Belt	Air Adjustable	•	٠
	Automatic	х	•
	Heated	•	х
	Heated & Cooled	х	•
Console	Infinitely Adjustable	•	•
	Tilt-Up Left Side	•	•
Bluetooth Integrated Radio	With USB Ports	•	•

115 L 30.4 gal

39 L 10.3 gal

STANDARD & OPTIONAL EQUIPMENT

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

САВ	STANDARD	OPTIONAL	BOOMS AND STICKS	STANDARD	
OPS, standard sound suppression	•		5.7 m (18'8") reach boom, 2.9 m (9'6") stick		
Deluxe only)	•		8.85 m (29'0") SLR boom, 6.28 m (20'7")		
ROPS, advanced sound suppression Premium only)	•		SLR stick UNDERCARRIAGE AND STRUCTURES	STANDARD	
Air-adjustable seat with heat (Deluxe only)	•			JIANUANU	
Auto-adjustable seat with heat and			600 mm (24") triple grouser shoes 700 mm (28") triple grouser shoes		
air ventilation (Premium only)	, in the second s		790 mm (31") triple grouser shoes		
High-resolution 254 mm (10 inch) LCD touchscreen monitor	•		900 mm (35") triple grouser shoes		
			Tie-down points on base frame		
CAT TECHNOLOGY	STANDARD	OPTIONAL	4200 kg (9,300 lb) counterweight		
Cat Product Link	•		4700 kg (10,400 lb) counterweight		
Cat Grade with 2D	•		for SLR boom and stick		
Cat Grade with Advanced 2D (not available on SLR)		٠	ELECTRICAL SYSTEM	STANDARD	
Cat Grade with 3D (not available on SLR)		•	Two 1,000 CCA maintenance-free batteries	•	
Cat Grade with Assist	•		Programmable time-delay LED		
Cat Payload	٠		working lights	•	
E-Fence	•		LED chassis light, left-hand/right-hand	•	
Lift Assist	٠		boom lights, cab lights		
Auto Dig Boost	•		SERVICE AND MAINTENANCE	STANDARD	
Remote Flash capability	•		Scheduled Oil Sampling (S·O·S [™]) ports	٠	
Remote Troubleshoot capability	•		Ground-level and platform-level engine oil dipsticks	•	
ENGINE	STANDARD	OPTIONAL			
Three selectable power modes	•		SAFETY AND SECURITY	STANDARD	
Automatic engine speed control	•		Rear and right-hand-sideview cameras	•	
52° C (125° F) high-ambient cooling capacity	•		360° Visibility		
–32° C (–25° F) cold start capability	•		Ground-level engine shutoff switch	•	
Double element air filter with integrated	•		Right-hand handrail and hand hold	•	
precleaner			Signaling/warning horn	•	
Reversing electric cooling fans	•		Cat command remote control		
Biodiesel capability up to B20	•				
HYDRAULIC SYSTEM	STANDARD	OPTIONAL			
Boom and stick regeneration circuits	•				
Boom and stick lowering check valves		•			
Auto warm up	•				
Auto two-speed travel	•				
Boom and stick drift reduction valve	•				
Hammer return filter circuit		٠			
Advanced Tool Control (two pump, one/two way high-pressure flow)	•1	•			
Medium-pressure circuit		٠			

¹ ANZ and Europe only.

Quick coupler circuit for Cat Pin Grabber

² Europe only.

Not all features are available in all regions. Please check with your local Cat dealer for specific offering availability in your area.

For additional information, refer to the Technical Specifications brochures for the 320 GC, 320 and 323 models available at www.cat.com or your Cat dealer.

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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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