

NEXT GENERATION EXCAVATORS

The new line of Cat® Excavators was designed with a new approach to equipment families that gives you:

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

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



THE NEW CAT 320 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 new cab focused on operator comfort and productivity, plus lower fuel and maintenance costs, the 320 will set a new pace for productivity and profit in your operation.



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.

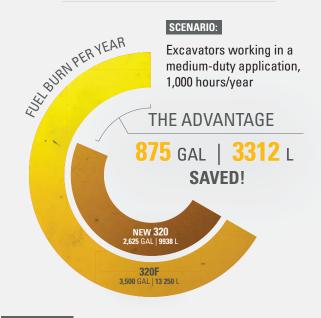
REDUCE FUEL CONSUMPTION **UP TO 25%**²

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

LOWER MAINTENANCE COSTS **UP TO 20%**³

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

FUEL EFFICIENCY SAVINGS ADD UP



CALCULATION:

320F:

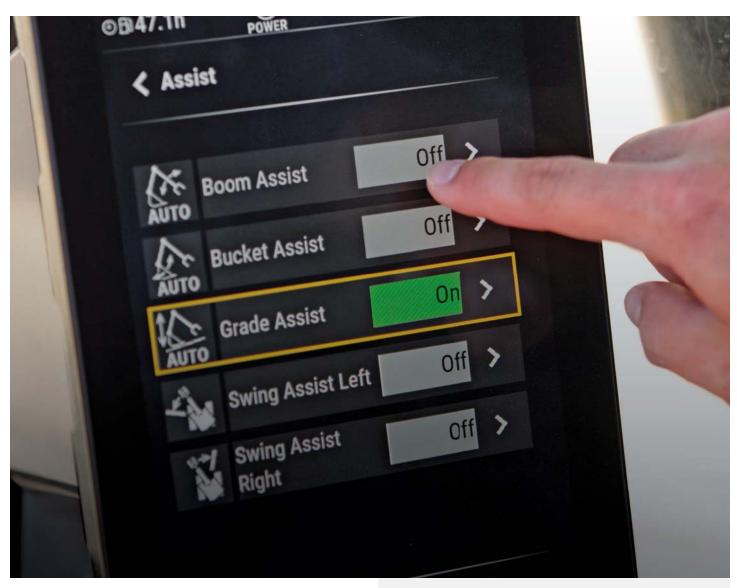
NEW 320:

 $3.5 \text{ gal/hr} \times 1,000 \text{ hr/yr} = 3,500 \text{ gal/yr}$ (3.5 gal/hr x 75%) x 1,000 hr/yr = 2,625 gal/yr 13.25 L/HR x 1000 HR/YR = 13 250 L/YR (13.25 L/HR x 75%) x 1000 HR/YR = 9938 L/YR

¹ Operator efficiency gains compared to traditional grading methods.

² Compared to the 320F.

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



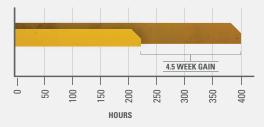
STANDARD CAT CONNECT TECHNOLOGY

GETS JOBS DONE FASTER WITH LESS REWORK

Onboard Cat Connect 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?





PREVIOUS YEAR:

USING TRADITIONAL GRADING METHODS

400 hours/year, grading with stakes and checkers

CURRENT YEAR:

USING NEW CAT 320 WITH CAT CONNECT 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 job site. 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/under-loading and maximizes efficiency. Automated tracking helps manage production and lower cost.



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 10-inch (254 mm) high-resolution touchscreen monitor. GRADE with 3D adds GPS and GLONASS positioning for pinpoint accuracy. Use the excavator's onboard cell technology to quickly connect to 3D services like Trimble Connected Community or Virtual Reference Station.

REAL-TIME INFORMATION FROM CAT LINK

TAKES THE GUESSWORK OUT OF MANAGING YOUR EQUIPMENT

Cat Link hardware (Product Link™) and software (VisionLink®) 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™

Track asset location, hours, fuel usage, diagnostic codes, idle time and more to improve your productivity and lower your operating costs. Cellular connectivity comes standard. Satellite connectivity is available.



VISIONLINK®

Using the online VisionLink interface, you can see a common, collective view of your information, making it easier to manage a mixed fleet and make informed decisions about your equipment.

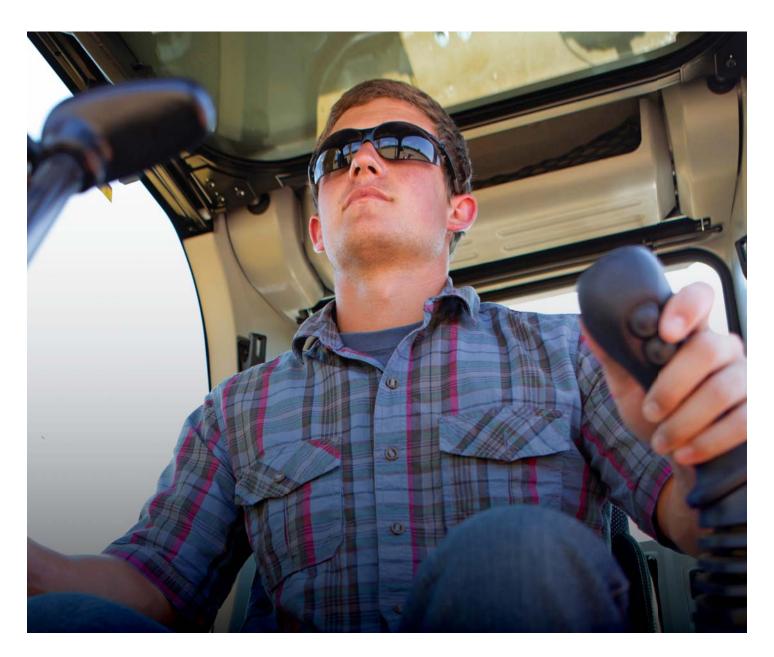


MY.CAT.COM

You can also access Caterpillar and Cat dealer information at my.cat.com. My.cat.com gives you access to PM schedules, parts and service records, warranty coverage and more—with a single login. Plus, you can link directly to your VisionLink account.

NEW 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.



NEW SEAT AND JOYSTICK CONSOLE REDUCE FATIGUE

Comfort and efficiency of movement keep operators productive and alert all shift long. The new 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 10-inch/254 mm touchscreen monitor. It offers 42 languages and is easy to reach from the seat—no twisting or turning.



NEW SMART MODE

The new Smart Mode (one of three power mode settings) automatically adjusts engine and hydraulic power for the highest fuel efficiency—less power for tasks such as swinging and more power for digging.



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 log in.



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.



ISO-CERTIFIED ROPS CAB

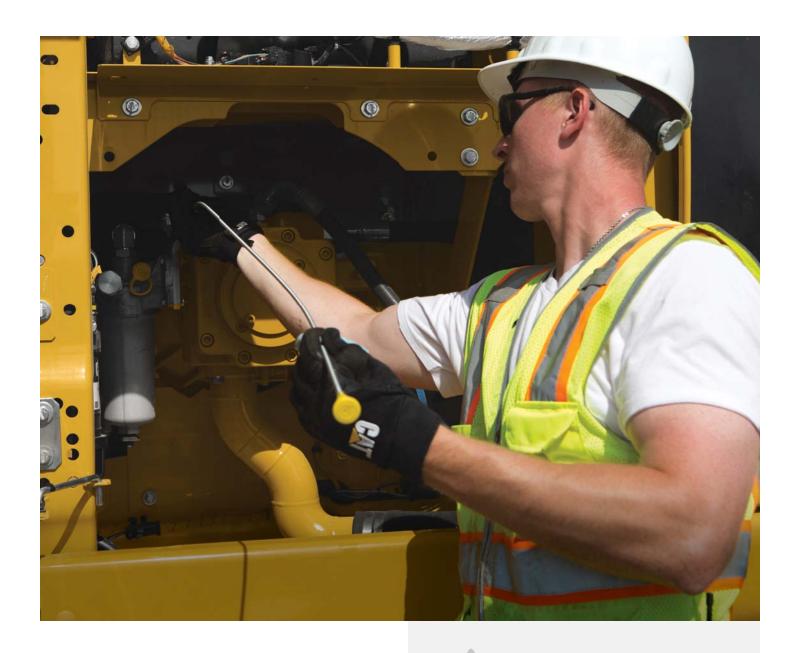
The ISO-certified ROPS cab is soundsuppressed and sealed. The windows and lower front profile of the machine give outstanding visibility to the work area without the strain of constantly leaning forward.

ALL-AROUND VISIBILITY

Standard rearview and right-side-view 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.



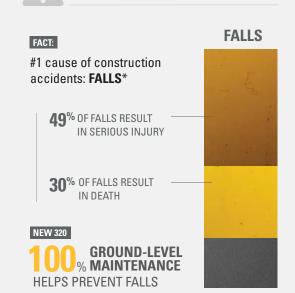
SAFETY FEATURES

LOOK OUT FOR YOUR PEOPLE AND YOUR EQUIPMENT

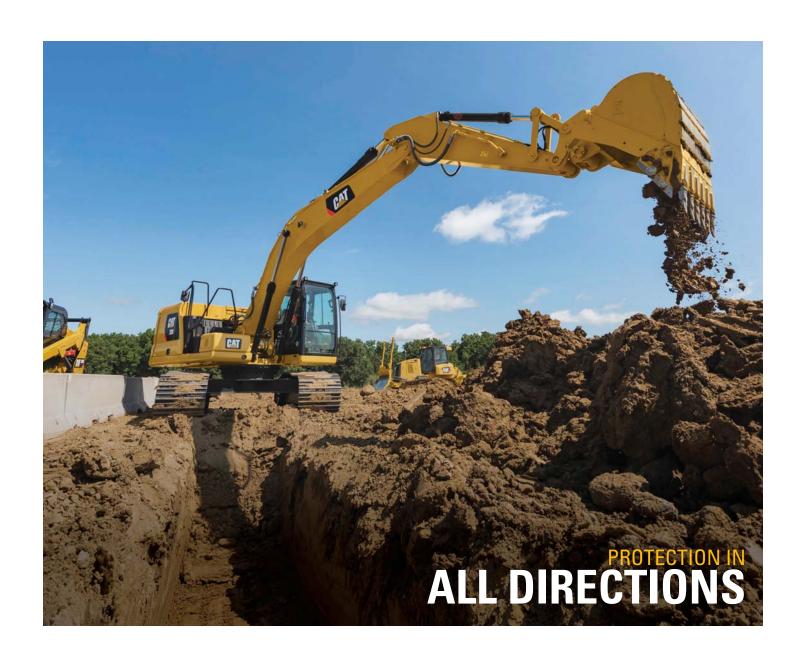
Daily maintenance checks can be performed with 100% of the points accessible from ground level, making maintenance faster, easier and safer. Checkpoints include the engine oil dipstick, fuel water separator, fuel tank water and sediment drains, and cooling system coolant level check.

LIFT ASSIST

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













E-WALL SWING

E-WALL FORWARD

E-WALL CAB PROTECTION

E-WALL CEILING

E-WALL FLOOR

STANDARD 2D E-FENCE TECHNOLOGY

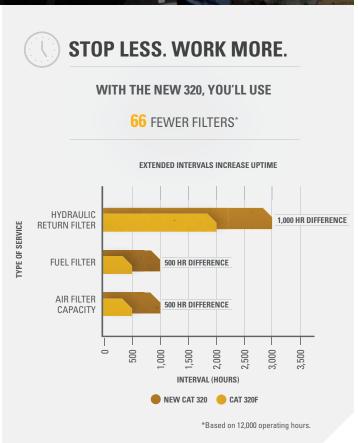
The standard 2D E-fence feature automatically stops excavator motion using boundaries you set in the monitor for the entire working envelope—above, below, sides and front. E-fence features protect equipment from damage and reduce fines related to zoning or underground utility damage. Automatic boundaries even help prevent operator fatigue by reducing over-swinging and over-digging.



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:

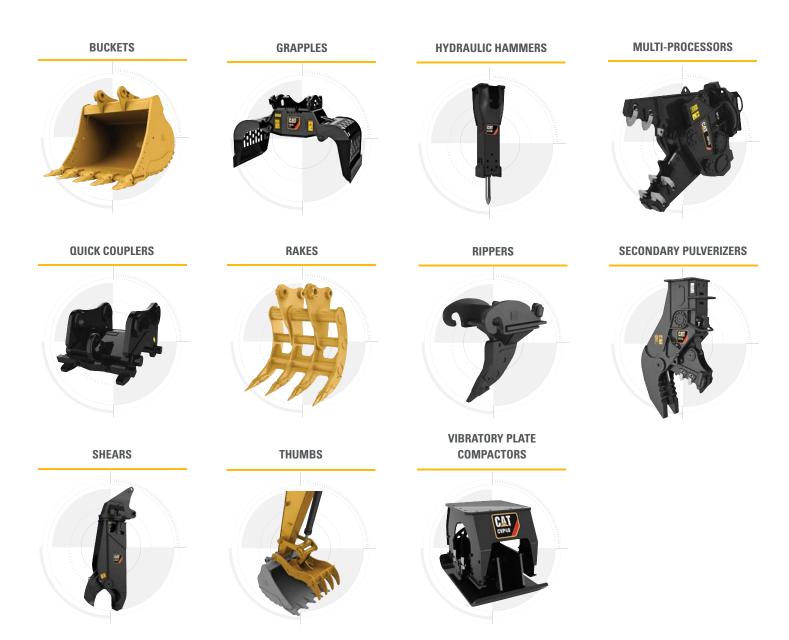
- Consolidated filter locations to reduce service time.
- + Multiple oil filters with extended maintenance intervals, plus a new higher dirt capacity hydraulic filter.
- + The new Cat air filter design results in a 100% increase in service life compared to our previous filter.
- + Fuel filters are synchronized to be changed at 1,000 hours—double the interval from the previous filters.



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.



Did you know you can find your attachments quickly and easily? The excavator's onboard Bluetooth reader can search for any work tool equipped with Cat asset tracking devices up to a range of 60 meters (200 feet).

TECHNICAL SPECIFICATIONS

See cat.com for complete specifications.

ENGINE			
Engine Model		Cat C4.4	
Engine Power – ISO 9249	121 kW	162 hp	
Engine Power – ISO 14396	122 kW	164 hp	
Bore	105 m	ım 4 in	
Stroke	127 m	ım 5 ir	
Displacement	4.4 L	269 in ³	
HYDRAULIC SYSTEI	M		
Main System – Maximum Flow (Implement)	429 L/min 113	gal/mir	
Maximum Pressure – Equipment – Normal	35 000 kPa	5,075 ps	
Maximum Pressure –	38 000 kPa	5,510 ps	
Equipment – Heavy Lift Mode			
Maximum Pressure – Travel	34 300 kPa	4,974 ps	
Maximum Pressure – Swing	26 800 kPa	3,886 ps	
MACHINE WEIGHT			
Operating Weight – 790 mm (31") Shoes	22 500 kg	49,600 Il	
Reach boom, R2.9 m (9'6") stick, HD 1.19 m³ (1.56 yd³) bucket, 790 mm (31 in) triple grouser shoes, 4.2 mt (9,300 lb) counterweight.			
Operating Weight – 600 mm (24") Shoes	21 800 kg	48,100 II	
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) counterweight.			
SERVICE REFILL CAPAC	CITIES		
Fuel Tank	345 L	86.6 ga	
Cooling System	25 L	6.6 ga	
E : 0"	15 L	4.0 ga	
Engine Oil		10	
Swing Drive (each)	5 L	1.3 ga	
-	5 L 5 L	J	
Swing Drive (each)	v <u>-</u>	1.3 ga	
Swing Drive (each) Final Drive (each)	5 L	1.3 ga 1.3 ga 61.8 ga 30.4 ga	

DIMENSIONS		
Boom	Reach 5.7 m	(18'8")
Stick	Reach 2.9 m (9'6")	
Bucket	1.19 m³ (1.56 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	3	
Boom	Reach 5.7 m (18'8")
Stick	Reach 2.9 m	(9'6")
Bucket	1.19 m³ (1.5	6 yd³)
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 38,8	11 lbf
Stick Digging Force (ISO)	106 kN 23,9	111 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 ${\rm CO_2}$ equivalent of 1.287 metric tonnes.

CAB FEATURES

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

• - standard X - not available

STANDARD & OPTIONAL EQUIPMENT

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

320 CAB	STANDARD	OPTIONAL
ROPS, standard sound suppression (Deluxe only)	•	
ROPS, advanced sound suppression (Premium only)	•	
Air-adjustable seat with heat (Deluxe only)	•	
Auto-adjustable seat with heat and air ventilation (Premium only)	•	
High-resolution 254 mm (10 inch) LCD touchscreen monitor	•	
CAT CONNECT TECHNOLOGY	STANDARD	OPTIONAL
Cat Product Link	•	
Cat GRADE with 2D	•	
Cat GRADE with Advanced 2D (not available on SLR)		•
Cat GRADE with 3D (not available on SLR)		•
Cat GRADE with Assist	•	
Cat PAYLOAD	•	
2D E-fence	•	
Remote Flash capability	•	
Remote Troubleshoot capability	•	
ENGINE	STANDARD	OPTIONAL
ENGINE Three selectable power modes	STANDARD •	OPTIONAL
	• •	OPTIONAL
Three selectable power modes	STANDARD • •	OPTIONAL
Three selectable power modes Auto engine idle shutdown	STANDARD • • • •	OPTIONAL
Three selectable power modes Auto engine idle shutdown 52° C (125° F) high-ambient cooling capacity	•	OPTIONAL
Three selectable power modes Auto engine idle shutdown 52° C (125° F) high-ambient cooling capacity –32° C (–25° F) cold start capability Double element air filter with integrated	•	OPTIONAL
Three selectable power modes Auto engine idle shutdown 52° C (125° F) high-ambient cooling capacity –32° C (–25° F) cold start capability Double element air filter with integrated precleaner	•	OPTIONAL
Three selectable power modes Auto engine idle shutdown 52° C (125° F) high-ambient cooling capacity –32° C (–25° F) cold start capability Double element air filter with integrated precleaner Reversing electric cooling fans	•	OPTIONAL
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Three selectable power modes Auto engine idle shutdown 52° C (125° F) high-ambient cooling capacity –32° C (–25° F) cold start capability Double element air filter with integrated precleaner Reversing electric cooling fans Biodiesel capability up to B20 HYDRAULIC SYSTEM	•	
Three selectable power modes Auto engine idle shutdown 52° C (125° F) high-ambient cooling capacity —32° C (—25° F) cold start capability Double element air filter with integrated precleaner Reversing electric cooling fans Biodiesel capability up to B20 HYDRAULIC SYSTEM Boom and stick regeneration circuits	•	
Three selectable power modes Auto engine idle shutdown 52° C (125° F) high-ambient cooling capacity —32° C (—25° F) cold start capability Double element air filter with integrated precleaner Reversing electric cooling fans Biodiesel capability up to B20 HYDRAULIC SYSTEM Boom and stick regeneration circuits Boom and stick lowering check valves	• • • • • • • • • • • • • STANDARD	
Three selectable power modes Auto engine idle shutdown 52° C (125° F) high-ambient cooling capacity —32° C (-25° F) cold start capability Double element air filter with integrated precleaner Reversing electric cooling fans Biodiesel capability up to B20 HYDRAULIC SYSTEM Boom and stick regeneration circuits Boom and stick lowering check valves Auto hydraulic warm up	• • • • • • • • • • • • • STANDARD	
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BOOMS AND STICKS	STANDARD	OPTIONAL
5.7 m (18'8") reach boom, 2.9 m (9'6") stick	•	
8.85 m (29'0") SLR boom, 6.28 m (20'7") SLR stick		•
UNDERCARRIAGE AND STRUCTURES	STANDARD	OPTIONAL
600 mm (24") triple grouser shoes		•
700 mm (28") triple grouser shoes		•
790 mm (31") triple grouser shoes		•
900 mm (35") triple grouser shoes		•
Tie-down points on base frame	•	
4200 kg (9,300 lb) counterweight		•
4700 kg (10,400 lb) counterweight for SLR boom and stick		•
ELECTRICAL SYSTEM	STANDARD	OPTIONAL
Two 1,000 CCA maintenance-free batteries	•	
Programmable time-delay LED working lights	•	
LED chassis light, left-hand/right-hand boom lights, cab lights	•	
SERVICE AND MAINTENANCE	STANDARD	OPTIONAL
Sampling ports for Scheduled Oil Sampling (S·O·S SM)	•	
Ground-level and platform-level engine oil dipsticks	•	
SAFETY AND SECURITY	STANDARD	OPTIONAL
Rearview camera	•	
Right-side-view camera	•	
360° Visibility		•
Lift Assist	•	
Cat asset tracker	•	
Ground-level engine shutoff switch	•	
Right-hand handrail and hand hold	•	
Signaling/warning horn	•	

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.

¹ ANZ and Europe only.

² Europe only.

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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AEXQ2329-02 Replaces AEXQ2329-01 Build Number: 07B

