320 HYDRAULIC EXCAVATOR



Engine Power Operating Weight 117 kW (157 hp) 22 000 kg (48,500 lbs)

Cat® C7.1 ACERT™ Engine meets China III Nonroad emission standards (U.S. EPA Tier 3 and EU Stage IIIA).



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.

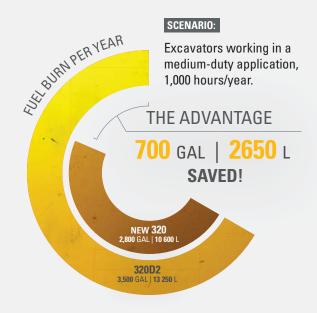
REDUCE FUEL CONSUMPTION **UP TO 20%**²

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

LOWER MAINTENANCE COSTS **UP TO 15%**³

Extended and more synchronized maintenance intervals increase uptime and reduce costs compared to the 320D2.

FUEL EFFICIENCY SAVINGS ADD UP



CALCULATION:

320D2:

NEW 320:

3.5 gal/hr x 1,000 hr/yr = 3,500 gal/yr (3.5 gal/hr x 80%) x 1,000 hr/yr = 2,800 gal/yr 13.25 L/HR \times 1000 HR/YR = 13 250 L/YR (13.25 L/HR \times 80%) \times 1000 HR/YR = 10 600 L/YR

¹ Operator efficiency gains compared to traditional grading methods.

² Compared to the 320D2.

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



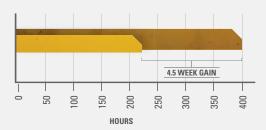
STANDARD CAT CONNECT TECHNOLOGY

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?

% 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 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. 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.

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.

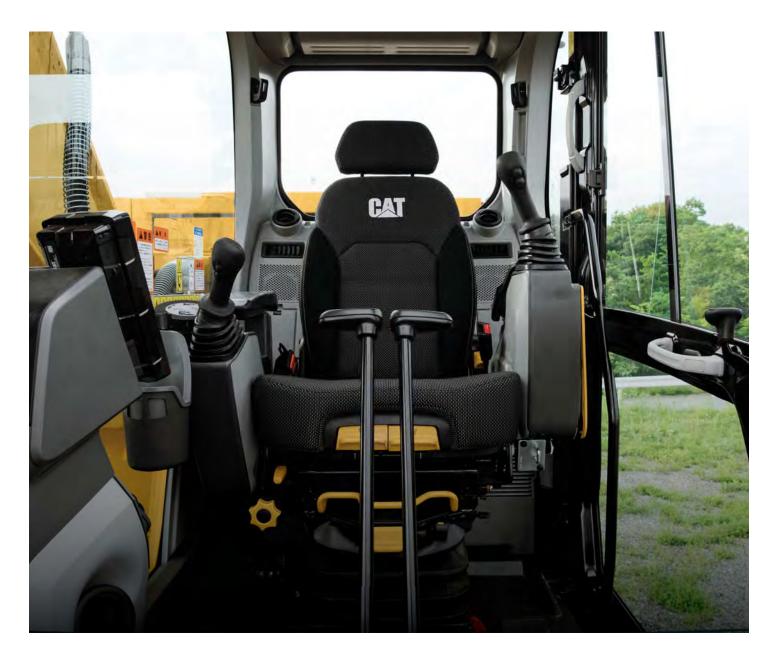


MY.CAT.COM

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.





TOUCHSCREEN MONITOR

Most machine settings can be controlled through the high-resolution 8-inch/203 mm (or optional 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

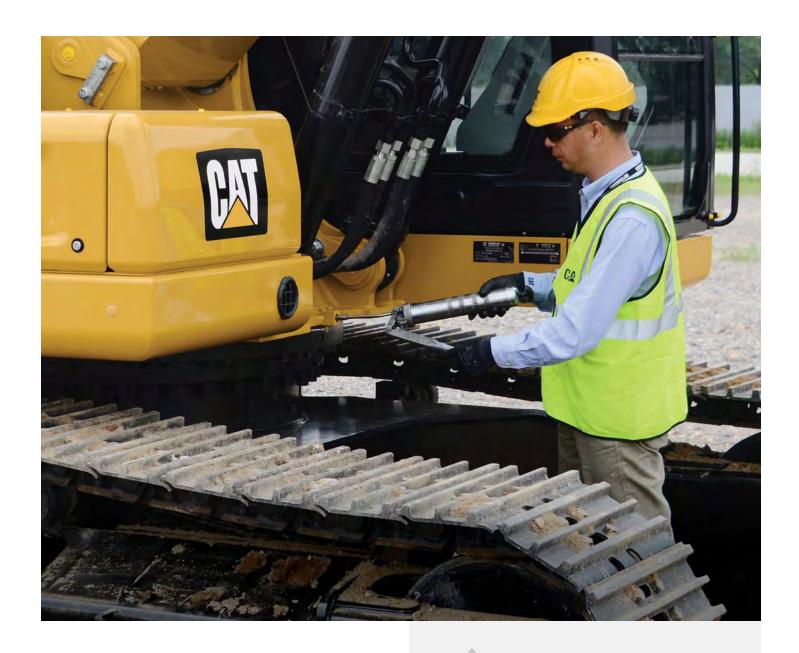
The ISO-certified ROPS cab is soundsuppressed and sealed. The windows and lower front profile of the machine give outstanding visibility to the work area without the strain of constantly leaning forward.

ALL-AROUND VISIBILITY

A standard rearview camera keeps 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.

KEEP YOUR EXCAVATOR SECURE

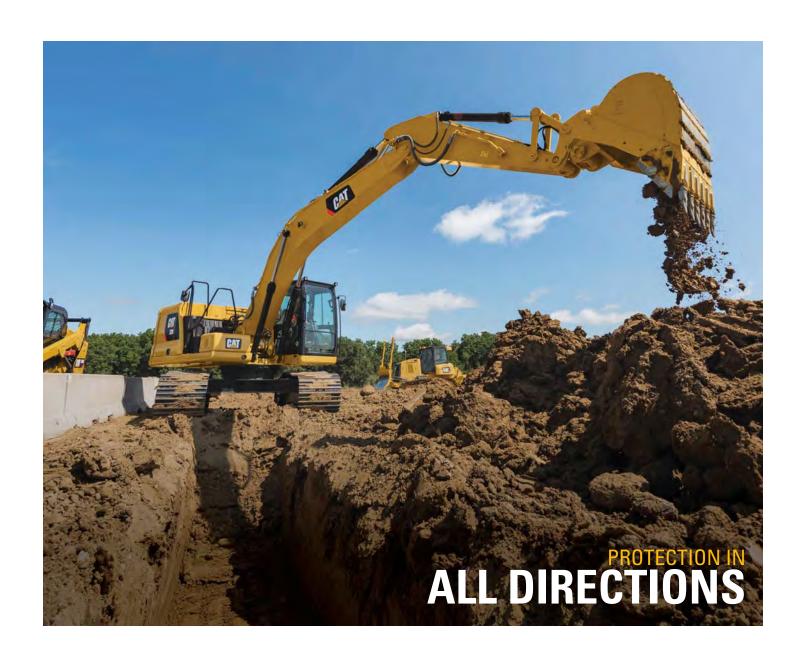
Use your PIN code on the monitor, the optional Bluetooth key fob or your smartphone to enable the push-button starting feature.



HELPS PREVENT FALLS

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

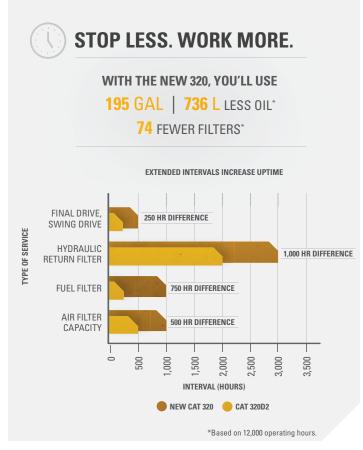
The standard 2D E-fence feature automatically stops excavator motion using boundaries you set in the monitor for the entire working envelope—above, below, sides and front. E-fence features protect equipment from damage and reduce fines related to zoning or underground utility damage. Automatic boundaries 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 320D2. 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.
- Maintenance intervals for the fuel system filters are synchronized for reduced downtime.



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.

BUCKETS



GRAPPLES



HYDRAULIC HAMMERS



MULTI-PROCESSORS



QUICK COUPLERS



RAKES



RIPPERS



SECONDARY PULVERIZERS



SHEARS



THUMBS



VIBRATORY PLATE COMPACTORS



TECHNICAL SPECIFICATIONS

See cat.com for complete specifications.

ENGINE			
Engine Model	Cat C7.1 ACERT		
Gross Power – ISO 14396/SAE J1995	118 kW 158 hp		
Net Power – ISO 9249/SAE J1349	117 kW 157 hp		
Engine RPM			
Operation	1,650 rpm		
Travel	1,800 rpm		
Bore	105 mm 4 in		
Stroke	135 mm 5 in		
Displacement	7.0 L 428 in ³		
HYDRAULIC SYSTE	M		
Main System – Maximum Flow (Implement)	429 L/min 113 gal/min		
Maximum Pressure – Equipment – Normal	35 000 kPa 5,075 psi		
Maximum Pressure – Travel	34 300 kPa 4,974 psi		
Maximum Pressure – Swing	26 800 kPa 3,886 psi		
MACHINE WEIGHT	Т		
Operating Weight	22 000 kg 48,500 lb		
5.7 m (18'8") reach boom, 2.9 m (9'6") reach stick, HD 1.0 m³ (1.3 yd³) bucket, 600 mm (24") shoes, 3.7 mt (8,150 lb) counterweight			
SERVICE REFILL CAPAC	CITIES		
Fuel Tank	364 L 96.2 gal		
Cooling System	25 L 6.6 gal		
Engine Oil	25 L 6.6 gal		
Swing Drive (each)	5 L 1.3 gal		
Final Drive (each)	5 L 1.3 gal		
Hydraulic System (including tank)	218 L 57.6 gal		
Hydraulic Tank	115 L 30.4 gal		

Boom	Reach 5.7 m (18'8")
Stick	Reach 2.9 m (9'6")
Bucket	HD 1.0 m³ (1.3 yd³)
Shipping Height (top of cab)	2960 mm 9'9"
Handrail Height	2950 mm 9'8"
Shipping Length	9530 mm 31'3"
Tail Swing Radius	2830 mm 9'3"
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"
Counterweight Clearance	1050 mm 3'5"
WORKING RANGES AND FO	RCES
Boom	Reach 5.7 m (18'8")
Stick	Reach 2.9 m (9'6")
Bucket	HD 1.0 m ³ (1.3 yd ³)
Maximum Digging Depth	6720 mm 22'1"
	6720 mm 22'1" 9860 mm 32'4"
Maximum Reach at Ground Level	0720
Maximum Reach at Ground Level Maximum Cutting Height	9860 mm 32'4"
Maximum Reach at Ground Level Maximum Cutting Height Maximum Loading Height	9860 mm 32'4" 9370 mm 30'9"
Maximum Reach at Ground Level Maximum Cutting Height Maximum Loading Height Minimum Loading Height Maximum Depth Cut for 2440 mm (8'0")	9860 mm 32'4" 9370 mm 30'9" 6490 mm 21'3" 2170 mm 7'1"
Maximum Digging Depth Maximum Reach at Ground Level Maximum Cutting Height Maximum Loading Height Minimum Loading Height Maximum Depth Cut for 2440 mm (8'0") Level Bottom Maximum Vertical Wall Digging Depth	9860 mm 32'4" 9370 mm 30'9" 6490 mm 21'3" 2170 mm 7'1" 6550 mm 21'6"
Maximum Reach at Ground Level Maximum Cutting Height Maximum Loading Height Minimum Loading Height Maximum Depth Cut for 2440 mm (8'0") Level Bottom	9860 mm 32'4" 9370 mm 30'9" 6490 mm 21'3" 2170 mm 7'1" 6550 mm 21'6"
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Maximum Reach at Ground Level Maximum Cutting Height Maximum Loading Height Minimum Loading Height Maximum Depth Cut for 2440 mm (8'0") Level Bottom Maximum Vertical Wall Digging Depth Bucket Digging Force (ISO)	9860 mm 32'4" 9370 mm 30'9" 6490 mm 21'3" 2170 mm 7'1" 6550 mm 21'6" 5190 mm 17'0" 150 kN 33,721 lbf

CAB FEATURES

FEATURE	DESCRIPTION	COMFORT	DELUXE
ROPS	Standard Sound Suppression	•	•
High-Resolution Monitor	203 mm (8 inch) Touchscreen	•	•
	254 mm (10 inch) Touchscreen	Х	0
Keyless Push-to-Start	Engine Control	•	•
Jog Dial, Shortcut Keys	Monitor Control	•	•
Air Conditioning	Automatic Bi-level	•	•
Suspension Seat with Seat Belt	Adjustable	•	X
	Air Adjustable	Х	•
	Heated	Х	•
Console	3 Fixed Heights	•	Х
	Infinitely Adjustable	X	•
	Tilt-Up Left Side	X	•
Bluetooth Integrated Radio	With USB Ports	•	•

ullet - standard ullet - optional ${\bf x}$ - not available

STANDARD & OPTIONAL EQUIPMENT

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

ROPS, standard sound suppression Mechanically adjustable seat Air-adjustable seat with heat Deluxe only High-resolution 203 mm (8 inch) LCD touchscreen monitor High-resolution 254 mm (10 inch) LCD touchscreen monitor CAT CONNECT TECHNOLOGY EAT FOOD TECHNOLOGY CAT GRADE with 2D Cat GRADE with 2D Cat GRADE with 3D not available on SLR Cat GRADE with 3D not available on SLR Cat GRADE with Assist Cat PAYLOAD ENGINE STANDARD OPTIONAL Three selectable power modes One-touch low idle with auto engine speed control Auto engine idle shutdown 52° C (125° F) high-ambient cooling capacity -18° C (0° F) cold start capability -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 Auto hydraulic warm up Auto two-speed travel Boom and stick drift reduction valve Hammer return filter circuit Slider joysticks Combined flow/high-pressure auxiliary circuit Quick coupler circuit for Cat Pin Grabber	CAB	STANDARD	OPTIONAL
Air-adjustable seat with heat Deluxe only High-resolution 203 mm (8 inch) LCD touchscreen monitor High-resolution 254 mm (10 inch) LCD touchscreen monitor CAT CONNECT TECHNOLOGY EAR 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 CAT PAYLOAD Auto engine idle shutdown 52° C (125° F) high-ambient cooling capacity -18° C (0° 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 Auto hydraulic warm up Auto two-speed travel Boom and stick drift reduction valve Hammer return filter circuit Slider joysticks Combined flow/high-pressure auxiliary circuit **CAT CONNECT TECHNOLOGY STANDARD OPTIONAL **OPTIONAL** **OP	ROPS, standard sound suppression	•	
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Reversing electric cooling fans Biodiesel capability up to B20 HYDRAULIC SYSTEM Boom and stick regeneration circuits Auto hydraulic warm up Auto two-speed travel Boom and stick drift reduction valve Hammer return filter circuit Slider joysticks Combined flow/high-pressure auxiliary circuit	–32° C (–25° F) cold start capability		•
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Boom and stick regeneration circuits Auto hydraulic warm up Auto two-speed travel Boom and stick drift reduction valve Hammer return filter circuit Slider joysticks Combined flow/high-pressure auxiliary circuit	Biodiesel capability up to B20	•	
Boom and stick regeneration circuits Auto hydraulic warm up Auto two-speed travel Boom and stick drift reduction valve Hammer return filter circuit Slider joysticks Combined flow/high-pressure auxiliary circuit			
Boom and stick regeneration circuits Auto hydraulic warm up Auto two-speed travel Boom and stick drift reduction valve Hammer return filter circuit Slider joysticks Combined flow/high-pressure auxiliary circuit	HYDRAULIC SYSTEM	STANDARD	OPTIONAL
Auto two-speed travel Boom and stick drift reduction valve Hammer return filter circuit Slider joysticks Combined flow/high-pressure auxiliary circuit	Boom and stick regeneration circuits		
Boom and stick drift reduction valve Hammer return filter circuit Slider joysticks Combined flow/high-pressure auxiliary circuit	Auto hydraulic warm up	•	
Hammer return filter circuit Slider joysticks Combined flow/high-pressure auxiliary circuit	Auto two-speed travel	•	
Slider joysticks Combined flow/high-pressure auxiliary circuit	Boom and stick drift reduction valve	•	
Combined flow/high-pressure auxiliary circuit	Hammer return filter circuit		•
auxiliary circuit	Slider joysticks	•	
Quick coupler circuit for Cat Pin Grabber			•
	Quick coupler circuit for Cat Pin Grabber		•

BOOMS AND STICKS 5.7 m (18'8") HD reach boom, 2.9 m (9'6") HD reach stick 8.85 m (29'0") SLR boom, 6.28 m (20'7") SLR stick UNDERCARRIAGE AND STRUCTURES 600 mm (24") double grouser shoes 600 mm (24") triple grouser shoes 600 mm (24") triple grouser shoes Tie-down points on base frame 3700 kg (8,150 lb) counterweight 4200 kg (9,300 lb) counterweight for HD base frame 4700 kg (10,400 lb) counterweight for SLR boom and stick ELECTRICAL SYSTEM Two 1,000 CCA maintenance-free batteries Four 1,000 CCA maintenance-free batteries Four 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 Sampling ports for Scheduled Oil Sampling (S-0-SSM) Ground-level and platform-level engine oil dipsticks Remote flash SAFETY AND SECURITY Rearview camera Right-hand mirror 360° visibility Ground-level engine shutoff switch Right-hand handrail and hand hold Signaling/warning horn OPTIONAL			
HD reach stick 8.85 m (29'0") SLR boom, 6.28 m (20'7") SLR stick UNDERCARRIAGE AND STRUCTURES 600 mm (24") triple grouser shoes 600 mm (24") triple grouser shoes Tile-down points on base frame 3700 kg (8,150 lb) counterweight 4200 kg (9,300 lb) counterweight for HD base frame 4700 kg (10,400 lb) counterweight for SLR boom and stick ELECTRICAL SYSTEM Two 1,000 CCA maintenance-free batteries Four 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 Sampling ports for Scheduled Oil Sampling (S-0-S5M) Ground-level and platform-level engine oil dipsticks Remote flash SAFETY AND SECURITY Rearview camera Right-hand mirror 360° visibility Ground-level engine shutoff switch Right-hand handrail and hand hold	BOOMS AND STICKS	STANDARD	OPTIONAL
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4200 kg (9,300 lb) counterweight for HD base frame 4700 kg (10,400 lb) counterweight for SLR boom and stick ELECTRICAL SYSTEM Two 1,000 CCA maintenance-free batteries Four 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 Sampling ports for Scheduled Oil Sampling (S·O·S SM) Ground-level and platform-level engine oil dipsticks Remote flash SAFETY AND SECURITY Rearview camera Right-hand mirror 360° visibility Ground-level engine shutoff switch Right-hand handrail and hand hold	Tie-down points on base frame	•	
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Programmable time-delay LED working lights LED chassis light, left-hand/right-hand boom lights, cab lights SERVICE AND MAINTENANCE Sampling ports for Scheduled Oil Sampling (S·O·S SM) Ground-level and platform-level engine oil dipsticks Remote flash SAFETY AND SECURITY Rearview camera Right-hand mirror 360° visibility Ground-level engine shutoff switch Right-hand handrail and hand hold •	Two 1,000 CCA maintenance-free batteries	•	
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(S·O·S SM) Ground-level and platform-level engine oil dipsticks Remote flash SAFETY AND SECURITY Rearview camera Right-hand mirror 360° visibility Ground-level engine shutoff switch Right-hand handrail and hand hold		STANDARD	OPTIONAL
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SAFETY AND SECURITY Rearview camera Right-hand mirror 360° visibility Ground-level engine shutoff switch Right-hand handrail and hand hold		•	
Rearview camera Right-hand mirror 360° visibility Ground-level engine shutoff switch Right-hand handrail and hand hold	Remote flash	•	
Rearview camera Right-hand mirror 360° visibility Ground-level engine shutoff switch Right-hand handrail and hand hold			
Right-hand mirror 360° visibility Ground-level engine shutoff switch Right-hand handrail and hand hold		STANDARD	OPTIONAL
360° visibility Ground-level engine shutoff switch Right-hand handrail and hand hold	Rearview camera	•	
Ground-level engine shutoff switch Right-hand handrail and hand hold	Right-hand mirror	•	
Right-hand handrail and hand hold	360° visibility		•
	Ground-level engine shutoff switch	•	
Signaling/warning horn	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.



BUILT FOR IT.



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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