

# 320 GC

HYDRAULIC EXCAVATOR



**Engine Power**

90 kW (121 hp)

**Operating Weight – 790 mm (31") Shoes**

22 300 kg (49,200 lb)

**Operating Weight – 700 mm (28") Shoes**

21 900 kg (48,300 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.



## 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 GC

RELIABLE. COMFORTABLE. PRODUCTIVE.

**THE CAT 320 GC** offers you the ideal balance of dependable performance, operator productivity features and reduced costs. The Cat 320 GC is a smart choice for operations where high reliability and low cost-per-hour performance are priorities.



## REDUCE FUEL CONSUMPTION UP TO 20%<sup>1</sup>

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

## WORK SMART. SAVE MONEY.

The Cat 320 GC is equipped with Power Modes that help manage fuel consumption. Choose between two power modes to match your specific applications—Power Mode and the new Smart Mode.

Power Mode delivers maximum productivity in high-demand applications like truck loading and trenching.

Smart Mode automatically matches engine speed and hydraulic power to demand for the highest fuel efficiency in any application.

<sup>1</sup> Compared to the 320F.



## FUEL EFFICIENCY SAVINGS ADD UP

### SCENARIO:

Excavators working in a light-duty application, 1,000 hours/year

FUEL BURN PER YEAR

### THE ADVANTAGE

**400 GAL | 1514 L**  
SAVED!

**NEW 320 GC**  
1,600 GAL | 6056 L

**320F**  
2,000 GAL | 7570 L

### CALCULATION:

#### 320F (ECO Mode):

2.0 GAL/HR X 1,000 HR/YR = 2,000 GAL/YR

7.57 L/HR X 1000 HR/YR = 7570 L/YR

#### NEW 320 GC (Smart Mode):

(2.0 GAL/HR X 80%) X 1,000 HR/YR = 1,600 GAL/YR

(7.57 L/HR X 80%) X 1000 HR/YR = 6056 L/YR



**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.
- + 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.

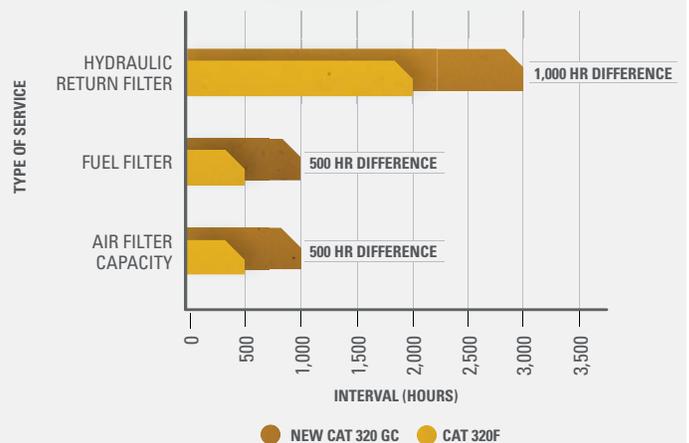


**STOP LESS. WORK MORE.**

WITH THE NEW 320 GC, YOU'LL USE

**66 FEWER FILTERS\***

EXTENDED INTERVALS INCREASE UPTIME



\*Based on 12,000 operating hours.

# REAL-TIME INFORMATION FROM CAT LINK TAKES THE GUESSWORK OUT OF MANAGING YOUR EQUIPMENT

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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.

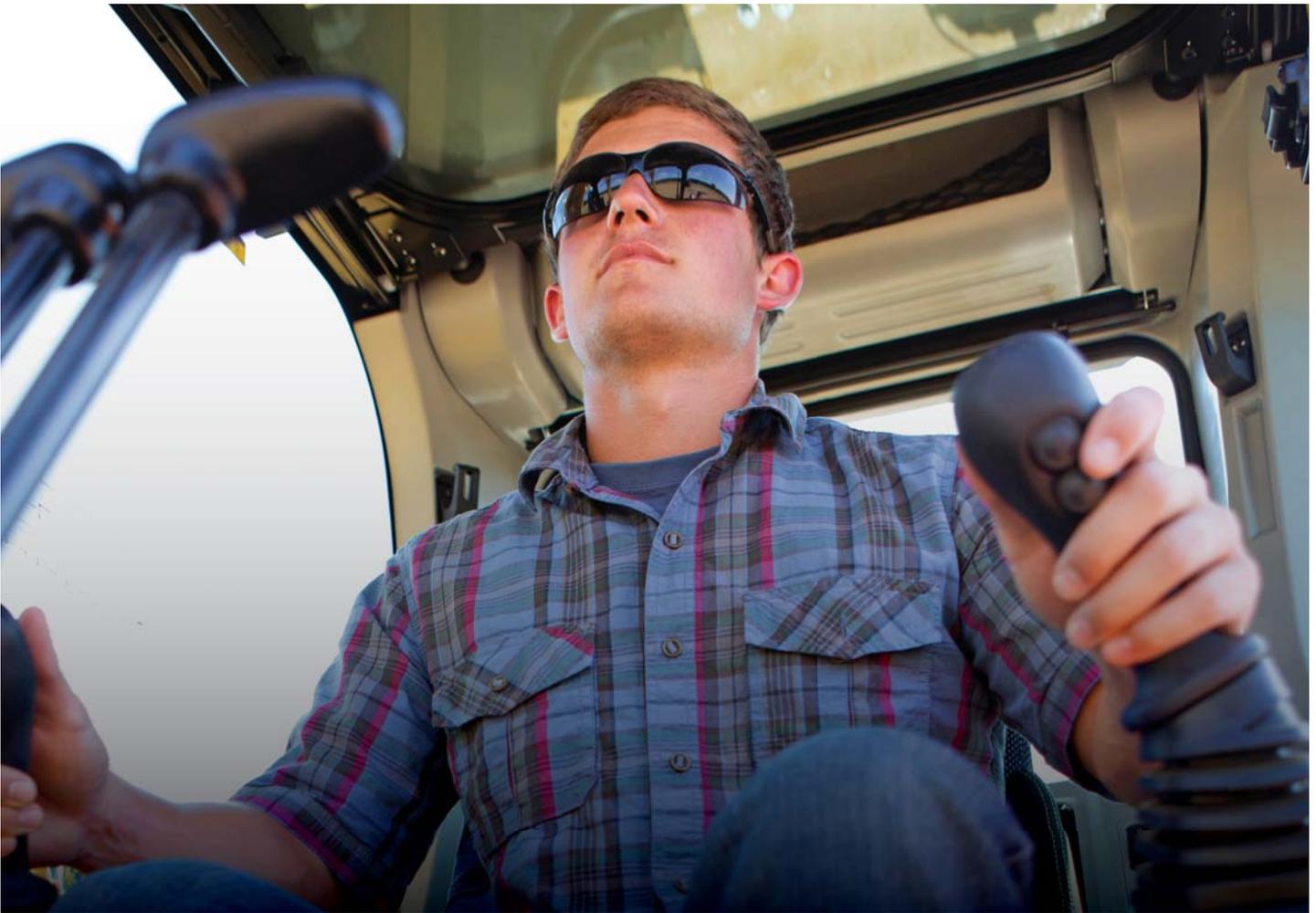


## **MY.CAT.COM**

You can also access Caterpillar and Cat dealer information at [my.cat.com](http://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 new 320 GC cab protects the operator as much as possible from fatigue, stresses, sounds and temperatures of the job.



## ISO-CERTIFIED ROPS CAB

The ISO-certified ROPS cab is sound-suppressed 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

Large windows at the front, sides and rear give excellent visibility in all directions from the operator seat. The ROPS structure uses narrow front cab pillars to allow a wider field of view to the front. Plus with the standard rearview and right-side-view cameras, operators will always be aware of what's surrounding the excavator.

## 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.



### **TOUCHSCREEN MONITOR**

Most machine settings can be controlled through the high-resolution 8-inch/203 mm touchscreen monitor. It offers 42 languages and is easy to reach from the seat – no twisting or turning to reach switches. A handy jog dial control and shortcut keys are also ergonomically positioned on the right console.



### **NEW SEAT AND CONSOLE**

Efficiency of movement is critical to keeping operators productive and alert all shift long. The 320 GC seat is designed for easy operation and comfort. The new standard seat is wide and adjustable, so operators of any size can work comfortably.



### **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.



# 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.

## STAY SAFE EVERY DAY

### FACT:

#1 cause of construction accidents: **FALLS\***

**49%** OF FALLS RESULT IN SERIOUS INJURY

**30%** OF FALLS RESULT IN DEATH

### FALLS



### NEW 320

**100%** GROUND-LEVEL MAINTENANCE HELPS PREVENT FALLS

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

# 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**



**RIPPERS**



**VIBRATORY PLATE  
COMPACTORS**



# TECHNICAL SPECIFICATIONS

See [cat.com](http://cat.com) for complete specifications.

ENGINE		
Engine Model	Cat C4.4	
Engine Power – ISO 9249	90 kW	121 hp
Engine Power – ISO 14396	91 kW	122 hp
Bore	105 mm	4 in
Stroke	127 mm	5 in
Displacement	4.4 L	269 in <sup>3</sup>
HYDRAULIC SYSTEM		
Main System – Maximum Flow (Implement)	442 L/min	116 gal/min
Maximum Pressure – Equipment	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		
Operating Weight – 790 mm (31") Shoes	22 300 kg	49,200 lb
5.7 m (18'8") reach boom, 2.9 m (9'6") reach stick, 1.0 m <sup>3</sup> (1.31 yd <sup>3</sup> ) HD bucket, 790 mm (31") triple grouser shoes.		
Operating Weight – 700 mm (28") Shoes	21 900 kg	48,300 lb
5.7 m (18'8") reach boom, 2.9 m (9'6") reach stick, 1.0 m <sup>3</sup> (1.31 yd <sup>3</sup> ) GD bucket, 700 mm (28") triple grouser shoes.		
SERVICE REFILL CAPACITIES		
Fuel Tank	345 L	86.6 gal
Cooling System	25 L	6.6 gal
Engine Oil	15 L	4.0 gal
Swing Drive (each)	5 L	1.3 gal
Final Drive (each)	5 L	1.3 gal
Hydraulic System (including tank)	234 L	61.8 gal
Hydraulic Tank	115 L	30.4 gal
DEF Tank	39 L	10.3 gal
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 <sub>2</sub> equivalent of 1.287 metric tonnes.		

DIMENSIONS		
<b>Boom</b>	<b>Reach 5.7 m (18'8")</b>	
<b>Stick</b>	<b>Reach 2.9 m (9'6")</b>	
<b>Bucket</b>	<b>1.0 m<sup>3</sup> (1.31 yd<sup>3</sup>)</b>	
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"
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 – 790 mm (31") Shoes	3170 mm	10'5"
Transport Width – 700 mm (28") Shoes	3080 mm	10'1"
Counterweight Clearance	1050 mm	3'5"
WORKING RANGES AND FORCES		
<b>Boom</b>	<b>Reach 5.7 m (18'8")</b>	
<b>Stick</b>	<b>Reach 2.9 m (9'6")</b>	
<b>Bucket</b>	<b>1.0 m<sup>3</sup> (1.31 yd<sup>3</sup>)</b>	
Maximum Digging Depth	6720 mm	22'1"
Maximum Reach at Ground Level	9860 mm	32'4"
Maximum Cutting Height	9450 mm	31'0"
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	5690 mm	18'8"
Bucket Digging Force (ISO)	129 kN	28,935 lbf
Stick Digging Force (ISO)	99 kN	22,281 lbf

# STANDARD & OPTIONAL EQUIPMENT

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

320 CAB	STANDARD	OPTIONAL
ROPS, standard sound suppression	•	
Mechanically adjustable seat	•	
High-resolution 203 mm (8 inch) LCD touchscreen monitor	•	
CAT CONNECT TECHNOLOGY	STANDARD	OPTIONAL
Cat Product Link	•	
ENGINE	STANDARD	OPTIONAL
Two selectable power modes	•	
One-touch low idle with auto engine speed control	•	
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	STANDARD	OPTIONAL
Boom and stick regeneration circuits	•	
Boom and stick lowering check valves	• <sup>1</sup>	•
Auto hydraulic warm up	•	
Auto two-speed travel	•	
Boom and stick drift reduction valve	•	
Slider Joysticks	• <sup>1</sup>	•
Tool Control (two pumps, one/two way high-pressure flow)	• <sup>1</sup>	•
Medium-pressure circuit		• <sup>1</sup>
Quick coupler circuit for Cat Pin Grabber	•	

BOOM AND STICK	STANDARD	OPTIONAL
5.7 m (18'8") reach boom, 2.9 m (9'6") stick	•	
5.7 m (18'8") reach boom, 2.5 m (8'2") stick		• <sup>1</sup>
UNDERCARRIAGE AND STRUCTURES	STANDARD	OPTIONAL
600 mm (24") triple grouser shoes		• <sup>1</sup>
700 mm (28") triple grouser shoes		• <sup>1</sup>
790 mm (31") triple grouser shoes	• <sup>2</sup>	•
Tie-down points on base frame	•	
4200 kg (9,300 lb) counterweight for HD 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 <sup>SM</sup> )	•	
Ground-level and platform-level engine oil dipsticks	•	
SAFETY AND SECURITY	STANDARD	OPTIONAL
Rearview camera	•	
Right-hand-side camera	•	
Cat asset tracker		•
Ground-level engine shutoff switch	•	
Right-hand handrail and hand hold	•	
Signaling/warning horn	•	

<sup>1</sup> Europe only

<sup>2</sup> North America 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](http://www.cat.com) or your Cat dealer.

For more complete information on Cat products, dealer services and industry solutions, visit us on the web at [www.cat.com](http://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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[www.cat.com](http://www.cat.com) [www.caterpillar.com](http://www.caterpillar.com)

AEXQ2330-02  
Replaces AEXQ2330-01  
Build Number: 07B

