

320 GC

HYDRAULIC EXCAVATOR



Engine Power
Operating Weight

90 kW (121 hp)
21 900 kg (48,300 lbs)

Cat® C4.4 ACERT™ 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%¹

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.

¹ 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 15%**

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.
- + Maintenance intervals for the fuel system filters are synchronized for reduced downtime.

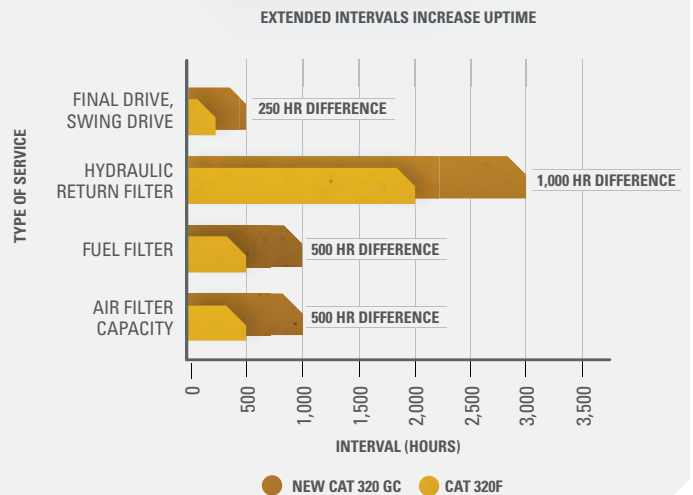


STOP LESS. WORK MORE.

WITH THE NEW 320 GC, YOU'LL USE

217 GAL | 820 L LESS OIL*

50 FEWER FILTERS*



*Based on 12,000 operating hours.

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 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 camera, 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***

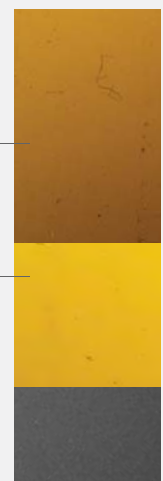
FALLS

49% OF FALLS RESULT IN SERIOUS INJURY

30% OF FALLS RESULT IN DEATH

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



RAKES



RIPPERS



SECONDARY PULVERIZERS



SHEARS



THUMBS



**VIBRATORY PLATE
COMPACTORS**



TECHNICAL SPECIFICATIONS

See cat.com for complete specifications.

| ENGINE | |
|-----------------------------------|---------------------------|
| Engine Model | Cat C4.4 ACERT |
| Gross Power – ISO 14396/SAE J1995 | 91 kW 122 hp |
| Net Power – ISO 9249/SAE J1349 | 90 kW 121 hp |
| Engine RPM | |
| Operation | 1,700 rpm |
| Travel | 2,000 rpm |
| Bore | 105 mm 4 in |
| Stroke | 127 mm 5 in |
| Displacement | 4.4 L 269 in ³ |

| 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 | 21 900 kg 48,300 lb |
| 5.7 m (18'8") reach boom, 2.9 m (9'6") reach stick, 1.0 m ³ (1.31 yd ³) HD bucket, 790 mm (31") shoes. | |

| SERVICE REFILL CAPACITIES | |
|-----------------------------------|----------------|
| Fuel Tank | 364 L 96.2 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) | 218 L 57.6 gal |
| Hydraulic Tank | 115 L 30.4 gal |
| DEF Tank | 30 L 7.9 gal |

| DIMENSIONS | |
|--------------------------------------|--|
| Boom | Reach 5.7 m (18'8") |
| Stick | Reach 2.9 m (9'6") |
| Bucket | 1.0 m³ (1.31 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" |
| Track Length to Center of Rollers | 3270 mm 10'9" |
| Ground Clearance | 470 mm 1'7" |
| Track Gauge | 2380 mm 7'9" |
| Transport Width – 790 mm (31") Shoes | 3170 mm 10'5" |
| Counterweight Clearance | 1050 mm 3'5" |

| WORKING RANGES AND FORCES | |
|---|--|
| Boom | Reach 5.7 m (18'8") |
| Stick | Reach 2.9 m (9'6") |
| Bucket | 1.0 m³ (1.31 yd³) |
| 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 29,000 lbf |
| Stick Digging Force (ISO) | 99 kN 22,256 lbf |
| Bucket Digging Force (SAE) | 115 kN 25,853 lbf |
| Stick Digging Force (SAE) | 96 kN 21,581 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 | | • |
| 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 | | • |
| Medium-pressure circuit | | • |
| 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 | • | |
| UNDERCARRIAGE AND STRUCTURES | STANDARD | OPTIONAL |
| 600 mm (24") triple grouser shoes | | • |
| 700 mm (28") triple grouser shoes | | • |
| 790 mm (31") triple grouser shoes | | • |
| 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 SM) | • | |
| Ground-level and platform-level engine oil dipsticks | • | |
| SAFETY AND SECURITY | STANDARD | OPTIONAL |
| Rearview camera | • | |
| Right-hand-side camera | •* | •* |
| Right-hand mirror | • | |
| Ground-level engine shutoff switch | • | |
| Right-hand handrail and hand hold | • | |
| Signaling/warning horn | • | |

*Europe standard; other regions optional.

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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www.cat.com www.caterpillar.com

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Build Number: 07A

