

320 GX

HYDRAULIC EXCAVATOR



| | |
|-------------------------|-----------------------|
| Engine Power | |
| ISO 14396:2002 | 110.1 kW (148 hp) |
| ISO 14396:2002 (DIN) | 150 hp (metric) |
| Operating Weight | 20 200 kg (44,500 lb) |

Cat® C4.4 engine meets U.S. EPA Tier 4 Final and EU Stage V emission standards.



THE CAT® 320 GX

FEATURES FOR FAST PAYBACK¹

Introducing the 320 GX Hydraulic Excavator – our economy model with all the reliability and ease of operation you expect from a Cat® excavator, with easy maintenance and lower cost features designed to give you a faster return on your equipment investment. Featuring a Cat C4.4 engine with an aftertreatment system that requires no down time, the 320 GX meets U.S. EPA Tier 4 Final and EU Stage V emission standards.



CAT® EXCAVATORS

Cat excavators offer you more choices than ever for your business.

- + MORE MODEL OPTIONS
- + MORE FUEL EFFICIENCY
- + MORE PRICE POINTS

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

¹ Payback period may vary depending on purchase price, interest rates, down payment, fuel consumption, maintenance costs, local rental rates, and other factors as applicable. Talk to your local Cat dealer about estimated payback period.

EASY TO

OPERATE AND MAINTAIN



Trust Caterpillar's time-proven engineering and manufacturing know-how for easy operation and excellent reliability.

- + Stable and responsive design increases jobsite efficiency.
- + Boom, stick, and bucket linkages are built to withstand typical 20-ton work demand, so you can be confident working in a wide variety of applications.
- + Automatic hydraulic oil warm up makes work more efficient and helps prevent premature wear of components, so you get longer service life.
- + Cat undercarriage comes with track pins and bushings grease sealed to enhance performance and service life.

LOWER MAINTENANCE COSTS

INCREASE YOUR PROFIT



UP TO 20%

LOWER MAINTENANCE COSTS

Better filters with extended maintenance intervals mean you will do more work with less downtime and lower cost. In fact, the 320 GX has maintenance-free batteries and a hydraulic oil system that requires no maintenance for 3,000 hours. When you do have to perform maintenance, filters and drains are grouped together to make it quick and easy.

MAKE MANAGING ASSETS EASIER

VisionLink® takes the guesswork out of managing your entire fleet – regardless of size or equipment manufacturer.* Review equipment data from your desktop or mobile device to maximize uptime and optimize assets. With interactive dashboards, VisionLink makes it easier for operations of all sizes to make informed decisions that lower costs, simplify maintenance, and improve safety and security on your jobsite. With different subscription-level options, your Cat dealer can help you determine what you need to connect your fleet and manage your business.

* Data field availability can vary by equipment manufacturer.

| MAINTENANCE INTERVAL IMPROVEMENTS | 320 GX | D2 SERIES |
|---|---------------------------|---------------------------|
| | Hours | Hours |
| Replace Hydraulic Oil Case Drain Filter | No filter needed | Initial 250 + Every 1,000 |
| Replace Hydraulic Oil Pilot Filter | No filter needed | Initial 250 + Every 1,000 |
| Replace Hydraulic Oil Return Filter | Every 3,000 | Initial 250 + Every 2,000 |
| Change Swing Drive Oil | Initial 500 + Every 1,000 | Initial 250 + Every 1,000 |
| Replace Fuel Filters | Every 1,000 | Every 500 |
| Clean Fuel Tank Strainer | When needed | Every 500 |
| Replace Fuel Tank Cap Filter | Every 2,000 | Every 1,000 |

FAST PAYBACK

The Cat 320 GX features easy operation and maintenance, plus productivity balanced with low costs for fast payback.



LOW OWNING COSTS

The 320 GX features simplified options for reduced acquisition costs to help you get the most work done at a lower cost. Everything about the 320 GX, like its robust structures, access to components, and widely available parts, is designed to put more money in your pocket.

LOW FUEL CONSUMPTION

Synchronized engine and electrohydraulic systems lower fuel consumption. Smart mode helps you further reduce fuel costs by automatically adapting engine speed for your specific application.

LOW MAINTENANCE COSTS

Extended maintenance intervals, better filters, maintenance-free batteries, and a hydraulic oil system that requires no maintenance for 3,000 hours all contribute to low maintenance costs.



REDUCE FUEL CONSUMPTION BY UP TO 15% ¹

The Cat C4.4 engine and electrohydraulic system work in sync to help you move plenty of material while using less fuel.

WORK SMART. SAVE MONEY.

The Cat 320 GX is equipped with two modes to help manage fuel consumption for your specific applications – power mode and smart mode.

Power mode is the traditional setting where you can manually dial engine speed up or down based on your work. Smart mode automatically adapts engine speed for you – up for high productivity and down for lighter loading, resulting in higher operating efficiency.

¹ Compared to 320D2 GC Tier 3 global fuel burn averages. No significant change when comparing 320 GX Tier 4 Final/Stage V to 320 GX Tier 3.

FUEL SAVINGS ADD UP



FUEL BURN PER YEAR

320 GX **21 960 L**

THE 320 GX ADVANTAGE
3960 L SAVED!

320D2 GC **25 920 L**

SCENARIO

Excavators completing typical excavation work.

CALCULATION

320D2 GC:
14.4 L/HR x 1,800 HR/YR=25 920 L/YR

320 GX:
12.2 L/HR x 1,800 HR/YR=21 960 L/YR

BUILT-IN SAFETY

LOOK OUT FOR YOUR PEOPLE AND YOUR EQUIPMENT

- + Smooth handrails and anti-skid steps make getting on and off the machine more secure.
- + Daily maintenance checks can be performed with most points accessible from ground level, making the maintenance faster, easier, and safer.
- + The storage box lid is lockable to protect your gear.
- + The cab's wider field of view and available rearview camera enhance jobsite visibility.
- + An optional ISO-certified rollover protective structure (ROPS) cab is available in some regions to help protect the operator in the event of a rollover.

1,000 WAYS TO STAY SAFE.

FACT:

SLIPPING IS ONE OF THE **BIGGEST CONTRIBUTORS** TO WORKPLACE INJURIES.*



OUR ANTI-SKID PLATES FEATURE

1,000+ INDIVIDUAL PERFORATIONS FOR BETTER TRACTION

*SOURCE: [HTTPS://WWW.OSHA.GOV/DTE/GRANT_MATERIALS/FY07/SH-16625-07/SLIPSTRIPSFALLS.PPT](https://www.osha.gov/dte/grant_materials/fy07/sh-16625-07/slipstripsfalls.ppt)



CAB TAKES THE HARD OUT OF WORK

Comfort and movement efficiency help keep operators productive and alert all shift long. The standard seat is wide and adjustable to suit individual operator preferences. The controls, including push-button start, are simple to use and easy to reach, allowing you to operate comfortably with minimal twists and turns.



SMART DESIGN

Operator ID remembers your preferred settings for power mode, joystick pattern, and joystick response. Just plug in your password and go to work. Seat adjustments, touchscreen monitor, and controls are conveniently located to reduce reaching and twisting.

ALL-ROUND VISIBILITY

Large windows at the front, sides, and rear give excellent visibility in all directions from the operator seat. The cab structure uses narrow front cab pillars to allow a wider field of view to the front. A rearview camera is an available option.

ACCESS, CONNECTIVITY, AND STORAGE

The AM/FM radio includes Bluetooth® technology, USB, and auxiliary ports for connecting and charging devices; a 24V DC outlet makes phone charging even faster. Storage space in front of the controls can hold a large cup and wide cell phone. Storage behind the seat can hold a large lunchbox and other items.



BUCKETS



**HYDRAULIC
HAMMERS**



**VIBRATORY
PLATES**

INCREASE YOUR PRODUCTIVITY AND PROFIT WITH CAT ATTACHMENTS

You can easily expand the performance of your machine by using Cat attachments. Each Cat attachment is designed to fit the weight and horsepower of the Cat excavator for improved performance, safety, and stability.

When you buy Cat equipment, you're getting so much more than the machine. You're also getting the support of a best-in-class dealer network backed by a range of flexible solutions, technology, tools, and more. It's all about support that's built around your success.

GET MORE THAN A MACHINE



- + Customer value agreements (CVA)
- + Cost-saving service and repair options
- + Quality parts and precision components
- + Financing solutions
- + Rental and used equipment

VALUE MADE EASY

A Cat customer value agreement (CVA) starts with hassle-free maintenance featuring genuine Cat parts right on schedule. Security of expert dealer support through an equipment protection plan (EPP) can be included to minimize surprise costs on covered repairs. Equipment health management provides you with machine alerts and information, as well as inspections and fluid health monitoring to give you more peace of mind. Hassle-free ownership simply means all elements of your CVA are part of one agreement that can be included in your monthly machine payment.

TECHNICAL SPECIFICATIONS

See cat.com for complete specifications.

| ENGINE | | |
|---------------------------|-----------------|---------------------|
| Engine Model | Cat® C4.4 | |
| Engine Power ISO 14396 | 110.1 kW | 148 hp |
| ISO 14396 (DIN) | 150 hp (metric) | |
| Net Power ISO 9249 | 105.7 kW | 142 hp |
| ISO 9249 (DIN) | 144 hp (metric) | |
| Bore | 105 mm | 4 in |
| Stroke | 127 mm | 5 in |
| Displacement | 4.4 L | 269 in ³ |

- Meets U.S. EPA Tier 4 Final and EU Stage V emission standards.
- Advertised power is tested per the specified standard in effect at the time of manufacture.
- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air intake system, exhaust system, and alternator.
- Engine speed at 2,200 rpm.

| HYDRAULIC SYSTEM | | |
|---|---|--|
| Main System – Maximum Flow – Implement | 429 L/min (214.5 L/min x 2 pumps) | 113 gal/min (56.7 gal/min x 2 pumps) |
| Maximum Pressure – Equipment – Normal | 35 000 kPa | 5,075 psi |
| Maximum Pressure – Travel | 35 000 kPa | 5,075 psi |
| Maximum Pressure – Swing | 25 000 kPa | 3,625 psi |

| SWING MECHANISM | | |
|----------------------|----------|---------------|
| Swing Speed | 11.1 rpm | |
| Maximum Swing Torque | 74 kN·m | 54,875 lbf·ft |

| WEIGHTS | | |
|---|-----------|-----------|
| Operating Weight | 20 200 kg | 44,500 lb |
| Standard undercarriage, Reach boom, R2.7 (8'9") stick, General Duty (GD) 1.00 m ³ (1.31 yd ³) bucket, 600 mm (24") triple grouser shoes, and 3600 kg (7,940 lb) counterweight. | | |

| SERVICE REFILL CAPACITIES | | |
|---|--------|----------|
| Fuel Tank | 390 L | 103 gal |
| Cooling System | 24.5 L | 6.5 gal |
| Engine Oil (with filter) | 15 L | 4 gal |
| Swing Drive | 5.5 L | 1.5 gal |
| Final Drive (each) | 4.5 L | 1.2 gal |
| Hydraulic System (including tank) | 218 L | 57.6 gal |
| Hydraulic Tank (including suction pipe) | 115 L | 30.4 gal |
| Diesel Exhaust Fluid (DEF) Tank | 26 L | 6.9 gal |

| DIMENSIONS | | |
|--------------------------------------|--|-------|
| Boom | Reach 5.7 m (18'8") | |
| Stick | Reach 2.7 m (8'9") | |
| Bucket | GD 1.00 m³ (1.31 yd³) | |
| Shipping Height (top of cab) | 2960 mm | 9'9" |
| Handrail Height | 3010 mm | 9'11" |
| Shipping Length | 9570 mm | 31'5" |
| Tail Swing Radius | 2830 mm | 9'3" |
| Counterweight Clearance | 1040 mm | 3'5" |
| Ground Clearance | 460 mm | 1'6" |
| Track Length | 4080 mm | 13'5" |
| Length to Center of Rollers | 3270 mm | 10'9" |
| Track Gauge | 2200 mm | 7'3" |
| Transport Width – 600 mm (24") shoes | 2800 mm | 9'2" |
| Transport Width – 790 mm (31") shoes | 2990 mm | 9'10" |

| WORKING RANGES AND FORCES | | |
|--|--|------------|
| Boom | Reach 5.7 m (18'8") | |
| Stick | Reach 2.7 m (8'9") | |
| Bucket | GD 1.00 m³ (1.31 yd³) | |
| Maximum Digging Depth | 6510 mm | 21'4" |
| Maximum Reach at Ground Level | 9660 mm | 31'8" |
| Maximum Cutting Height | 9340 mm | 30'8" |
| Maximum Loading Height | 6380 mm | 20'11" |
| Minimum Loading Height | 2380 mm | 7'10" |
| Maximum Depth Cut for 2440 mm (8'0") Level Bottom | 5770 mm | 18'11" |
| Maximum Vertical Wall Digging Depth | 5570 mm | 18'3" |
| Minimum Working Equipment Radius | 3680 mm | 12'1" |
| Bucket Digging Force (ISO) | 130 kN | 29,225 lbf |
| Stick Digging Force (ISO) | 105 kN | 23,605 lbf |

STANDARD & OPTIONAL EQUIPMENT

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

| BOOMS & STICKS | STANDARD | OPTIONAL |
|--|----------|----------|
| 5.7 m (18'8") Reach boom | • | |
| 2.5 m (8'2") Reach stick | | • |
| 2.7 m (8'10") Reach stick | | • |
| CAB | STANDARD | OPTIONAL |
| Sound suppressed with viscous mounts | • | |
| High-resolution 203 mm (8") LCD touchscreen monitor | • | |
| Mechanically adjustable seat with headrest and armrest | • | |
| 51 mm (2") orange seat belt | • | |
| Automatic bi-level air conditioner | • | |
| Keyless push-to-start engine control | • | |
| Fixed left-side console | • | |
| 1-button joystick | • | |
| 3-button joystick | | • |
| Bluetooth® radio with USB/Aux ports | • | |
| 24V DC outlet | • | |
| Cup holder and storage compartments | • | |
| 70/30 tempered glass windshield | • | |
| Rear window emergency exit | • | |
| Upper radial wiper with washer | • | |
| Openable steel hatch | • | |
| LED dome light | • | |
| Washable floor mat | • | |
| CAT TECHNOLOGIES | STANDARD | OPTIONAL |
| VisionLink®** | • | |
| VisionLink Productivity | | • |
| Capability to Remote Flash Cat Product Link™ (telematics only) | • | |
| ELECTRICAL SYSTEM | STANDARD | OPTIONAL |
| 950 CCA maintenance-free batteries (x2) | • | |
| Electrical disconnect switch | • | |
| LED chassis, and cab lights | • | |
| LED left-side boom light | • | |
| LED right-side boom light | | • |
| ENGINE | STANDARD | OPTIONAL |
| Cat C4.4 single turbo diesel engine | • | |
| Two selectable modes: Power, smart | • | |
| Up to 4500 m (14,764 ft) altitude capability | • | |
| 52°C (125°F) high-ambient cooling capability | • | |
| -25°C (-13°F) cold start capability | • | |
| Electric fuel priming pump | • | |
| Two-stage fuel filtration system | • | |
| Sealed double-element air filter with precleaner | • | |

| HYDRAULIC SYSTEM | STANDARD | OPTIONAL |
|---|----------|----------|
| Electronic main control valve, hammer ready | • | |
| Back-to-back, electronically controlled pumps | • | |
| Boom and stick regeneration circuits | • | |
| Automatic hydraulic oil warmup | • | |
| Automatic two-speed travel | • | |
| Hammer lines | | • |
| Hammer return filter | | • |
| High performance hydraulic return filter | • | |
| SAFETY AND SECURITY | STANDARD | OPTIONAL |
| Anti-skid plating with countersunk bolts | • | |
| Auto hammer stop | • | |
| Operator Protective Guards (OPG) with matching lights | | • |
| Handrail and handhold | • | |
| Lockable external tool/storage box | • | |
| Ground-level secondary engine shutoff switch | • | |
| Lockable disconnect switch | • | |
| Signaling/warning horn | • | |
| Right-hand-side edge mirror | • | |
| Rearview camera ¹ | | • |
| Right-hand-side camera ² | | • |
| Rollover protective structure (ROPS) | | • |
| Travel alarm ³ | | • |
| Swing alarm | | • |
| SERVICE AND MAINTENANCE | STANDARD | OPTIONAL |
| Grouped engine oil and fuel filters | • | |
| Radiator screen | | • |
| Scheduled Oil Sampling (S•O•S SM) ports | • | |
| UNDERCARRIAGE AND STRUCTURES | STANDARD | OPTIONAL |
| 600 mm (24") triple grouser track shoes | | • |
| 790 mm (31") triple grouser track shoes | | • |
| Grease lubricated track link | • | |
| Center track guiding guard | • | |
| Bottom guards | • | |
| Travel motor guards | • | |
| 3600 kg (7,940 lb) counterweight | • | |
| Tie-down points | • | |

* Connect subscription only. Additional subscriptions are available. Contact your Cat dealer for availability.

¹ Mandatory in Turkey.

² Mandatory in Turkey; not available in Chile, Colombia.

³ Standard in Chile, Colombia.

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 GX available at 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.

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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 www.caterpillar.com

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