

# 320 GX

## HYDRAULIC EXCAVATOR



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Net Power – ISO 9249  
Operating Weight  
Maximum Digging Depth

105.7 kW (142 hp)  
20 100 kg (44,300 lb)  
6510 mm (21.4 ft)



# 320 GX

## HYDRAULIC EXCAVATOR

Introducing the 320 GX – 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.



### EASY TO OPERATE AND MAINTAIN

Stable and responsive design built on classic, proven components for easy operation and excellent reliability.

### FAST PAYBACK

Low owning costs, maintenance costs, and fuel consumption means more money in your pocket.

### LOW FUEL CONSUMPTION

Smart mode and synchronized engine and electrohydraulic control give you competitive performance with low fuel consumption.

# LATEST FEATURES



## Cab Monitor Improvements

- Continuously improved user interface allows for intuitive navigation, minimizing performance interruption with the easy-to-use touchscreen menu.
- Smaller app tiles to view more apps in one screen.
- When navigating the menu, scroll position will be remembered.
- While menu is shown and lever is moved, camera view will be shown.
- Use the in-monitor QR code to learn about machine and technology features through a full suite of how-to videos.

Not all features are available in all regions. Please check with your local Cat dealer for specific offering availability in your area. Build Number: 05F.

# EASY TO OPERATE



- Start the engine with a push button.
- The machine's electrohydraulic system allows accurate bucket control for maximum precision.
- Navigate quickly on the high-resolution 203 mm (8 in) touchscreen monitor.
- Continuously improved user interface allows for intuitive navigation, minimizing performance interruption with the easy-to-use touchscreen menu.
- Use the in-monitor QR code to learn about machine and technology features through a full suite of how-to videos.
- Control the excavator comfortably with easy-to-reach controls all located in front of you.
- Program your preferences for power mode, joystick pattern, and joystick response using Operator ID. The excavator will automatically remember your selections.



# EASY TO MAINTAIN

- Daily maintenance at ground level, longer filter lifespan, and extended and synchronized service intervals help to reduce maintenance costs.
- The air intake filter with pre-cleaner has double the dust holding capacity of the previous air intake filter.
- Final drive and swing drive oil is double the initial service life – from 250 to 500 hours.
- Fuel filters are synchronized to be changed at 1,000 hours – keeping your machine on the job for longer periods of time.
- The hydraulic oil filter provides high filtration performance, anti-drain valves to keep oil clean when the filter is replaced, and longer life with a 3,000 hour replacement interval.
- Grease sealed between track pins and bushings reduces travel noise and prevents debris from entering to help increase undercarriage life.
- Auto warm up speeds up hydraulic oil warming in cold temperatures and helps prolong the life of components.
- Advansys™ bucket tips increase penetration and improve cycle times. Tip changes can be done quickly with a simple lug wrench instead of a hammer or special tool, improving safety and uptime.
- Scheduled Oil Sampling (S-O-S<sup>SM</sup>) oil sampling ports are on ground level, simplifying maintenance and allowing for quick, easy extraction of fluid samples for analysis.



# LOW OWNING AND OPERATING COSTS

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- The excavator consumes less fuel in comparison to the 320D2 GC in similar applications.
- Match the excavator to the job with a choice of two modes: Power and Smart. Power mode provides full-time maximum output. Smart mode automatically matches engine and hydraulic power to digging conditions to help conserve fuel without impacting production.
- Save fuel with automatic engine control (AEC). It reduces engine speed when the machine is not under load to minimize fuel consumption.



# RELIABLE PERFORMANCE



- A versatile machine that performs well in bucket and hammer applications.
- Booms and sticks are robotically welded and checked ultrasonically to ensure maximum durability.
- Reliable and durable and built on classic, proven components.
- The Cat C4.4 engine and electrohydraulic system work in sync to help you move plenty of material while using less fuel.
- Fast cycle times give you excellent productivity.
- A hammer-ready valve is standard for added versatility.
- Two levels of fuel filtration protect the engine from contaminated diesel fuel.
- Cat undercarriage is built strong to absorb jobsite stresses for enhanced performance and durability.
- General duty buckets are designed for fast material discharge and cleaning.
- Work up to 4500 m (14,760 ft) above sea level with engine power derate above 3000 m (9,840 ft).
- Standard high-ambient temperature capability is 52° C (125° F) with cold start capability at -25° C (-13° F).



# WORK IN COMFORT

- The cab has a wide seat that adjusts to suit individual operator preferences.
- Standard automatic climate control helps keep you comfortable all shift long.
- Excellent work site visibility from the cab enhances productivity and safety.
- Optimized low-effort joystick controls reduce operator fatigue.
- Convenience features include a radio, auxiliary port for headphones, and a USB port for connecting and charging devices; a 24V DC outlet makes phone charging even faster.
- Use the radio's Bluetooth® technology to make hands-free calls.
- The cup holder and storage space in front of the controls can hold large cups and wide cell phones; storage behind the seat can hold a large lunchbox and other items.





# ENHANCED SAFETY



- Access daily maintenance points from ground level with the exception of the engine oil level – no need to climb on top of the excavator to check filters or grease linkage.
- An optional ISO certified rollover protective structure (ROPS) cab is offered in some regions to help protect the operator in the event of a rollover.
- Enjoy great visibility into the trench, in each swing direction, and behind you with the help of smaller cab posts and larger windows.
- An optional rearview camera enhances visibility.
- Anti-skid plating on the service platform helps prevent slipping.
- Keep your excavator secure with Operator ID. Use your PIN code on the monitor to enable the push button starting feature.
- Enhance jobsite safety. Add a swing alarm to alert people when you're rotating from trench to stockpile and back again.

# SUSTAINABILITY



- The Cat® C4.4 engine meets U.S. EPA Tier 4 Final and EU Stage V emission standards.
- Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels\*\* up to: 20% biodiesel FAME (fatty acid methyl ester)\* or 100% renewable diesel, HVO (hydrotreated vegetable oil) and GTL (gas-to-liquid) fuels. Refer to guidelines for successful application. Please consult your Cat dealer or “Caterpillar Machine Fluids Recommendations” (SEBU6250) for details.
- Auto Engine Speed Control helps reduce unnecessary fuel burn and greenhouse gas emissions by allowing the engine to automatically go into idle mode when the machine is not working.
- When engaged, one-touch idle helps operators conserve fuel and reduce greenhouse gas emissions by lowering engine speed when the machine is under no load and returning to normal operating speed when desired.
- Engine Idle Shutdown Timer reduces fuel burn, greenhouse gas emissions and unnecessary idle time by shutting down the machine after a pre-set idling period.
- VisionLink® displays the CO<sub>2</sub> emissions for monitored assets, calculated by fuel type for the Runtime Fuel Burned each day in a selected date range.
- Don't waste fuel idling. Cat VisionLink® online fleet monitoring helps you manage idle time and reduce fuel burn and greenhouse gas emissions.
- Extended maintenance intervals not only reduce downtime but decrease the amount of fluid and filters that are replaced over the life of the machine.
- Cat Scheduled Oil Sampling (S•O•S<sup>SM</sup>) Services helps reveal excessive wear, contaminated fluids or other “unseen” issues that can shorten component life. In many cases, you can extend oil and coolant change intervals by using fluid monitoring. Consult your Cat dealer or the machine's operation and maintenance manual for more information.
- A well-trained operator is worth the investment. Skilled operators benefit your bottom line by maximizing productivity, avoiding costly downtime, and maintaining jobsite safety – which can help to improve fuel efficiency and reduce greenhouse gas emissions.

\* Engines with no aftertreatment devices can use higher blends, up to 100% biodiesel (for use of blends higher than 20% biodiesel, consult your Cat dealer).

\*\* Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.

# 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.

## BUCKETS



## HYDRAULIC HAMMERS



## VIBRATORY PLATES



## PREVENT HAMMER WEAR AND TEAR

Protect your hammer tool from overheating and rapid wear. Auto hammer stop warns you after 15 seconds of continuous firing and then automatically shuts it off after 30 seconds – all to extend the tool's service life.

# MORE THAN MACHINES

BUILT AROUND YOUR SUCCESS

When you buy Cat equipment, you get so much more than the machine. You also get the support of a world-class dealer network, backed by a range of flexible solutions, technology, tools, and more.



## CUSTOMER VALUE AGREEMENTS

A Customer Value Agreement (CVA) from your Cat dealer helps you do more and worry less. A CVA simplifies machine ownership and maintenance, adds the security of expert dealer support, and gives you the peace of mind from effective equipment health management.

## GENUINE CAT PARTS

Genuine Cat parts deliver the highest level of reliability and productivity. Order direct from your Cat dealer or shop online at [parts.cat.com](http://parts.cat.com).

## REPAIR OPTIONS

A broad range of repair options gives you choices that work with your needs, budget, and timeline. Every repair is performed by expert Cat technicians. You'll receive smart repair advice, a timely, accurate quote, and service that gets your machine back into action quickly.

## FINANCIAL SERVICES

Count on Cat Financial to provide the best finance and extended protection solutions for your business. For more than 30 years, we have helped our customers succeed through financial service excellence.



DOZERS



SKID STEERS



MATERIAL HANDLERS



EXCAVATORS



WHEEL LOADERS



TRACK LOADERS

# TECHNICAL SPECIFICATIONS

## Engine

Net Power – ISO 9249	105.7 kW	142 hp
Net Power – ISO 9249 (DIN)	144 hp (metric)	
Engine Model	Cat C4.4	
Engine Power – ISO 14396	110.1 kW	148 hp
Engine Power – ISO 14396 (DIN)	150 hp (metric)	
Bore	105 mm	4 in
Stroke	127 mm	5 in
Displacement	4.4 L	269 in <sup>3</sup>
Biodiesel Capability	Up to B20 <sup>1</sup>	
Emissions	Meets U.S. EPA Tier 4 Final and EU Stage V emission standards.	

Net power advertised is the power available at the flywheel when the engine is equipped with fan, air intake system, exhaust system and alternator with engine speed at 2,200 rpm. Advertised power is tested per the specified standard in effect at the time of manufacture.

<sup>1</sup>Cat engines are compatible with diesel fuel blended with the following lower-carbon intensity fuels\*\* up to: 100% biodiesel FAME (fatty acid methyl ester)\* or 100% renewable diesel, HVO (hydrotreated vegetable oil) and GTL (gas-to-liquid) fuels. Refer to guidelines for successful application. Please consult your Cat dealer or “Caterpillar Machine Fluids Recommendations” (SEBU6250) for details.

\*Engines with no aftertreatment devices can use higher blends, up to 100% biodiesel (for use of blends higher than 20% biodiesel, consult your Cat dealer).

\*\*Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.

## Hydraulic System

Main System – Maximum Flow – Implement	429 L/min	113.4 gal/min
Maximum Pressure – Equipment	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 r/min	11.1 r/min
Maximum Swing Torque	74 kN-m	54,875 lbf-ft

## Weights

Operating Weight	20 100 kg	44,300 lb
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Standard undercarriage, Reach boom, R2.7 (8'9") stick, General Duty (GD) 1.00 m<sup>3</sup> (1.31 yd<sup>3</sup>) bucket, 600 mm (24") triple grouser shoes, and 3600 kg (7,940 lb) counterweight.

## Service Refill Capacities

Fuel Tank Capacity	390 L	103 gal
Cooling System	24.5 L	6.5 gal
Engine Oil	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	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 (8'10")	
Bucket	GD 1.00 m <sup>3</sup> (1.31 yd <sup>3</sup> )	
Shipping Height – Top of Cab	2960 mm	9.7 ft
Handrail Height	3010 mm	9.9 ft
Shipping Length	9570 mm	31.4 ft
Tail Swing Radius	2830 mm	9.3 ft
Counterweight Clearance	1040 mm	3.4 ft
Ground Clearance	460 mm	1.5 ft
Track Length	4080 mm	13.4 ft
Track Length to Center of Rollers	3270 mm	10.7 ft
Track Gauge	2200 mm	7.3 ft
Transport Width	2800 mm	9.1 ft

## Working Ranges & Forces

Boom	Reach 5.7 m (18'8")	
Stick	Reach 2.7 m (8'10")	
Bucket	GD 1.00 m <sup>3</sup> (1.31 yd <sup>3</sup> )	
Maximum Digging Depth	6510 mm	21.4 ft
Maximum Reach at Ground Level	9660 mm	31.7 ft
Maximum Cutting Height	9340 mm	30.6 ft
Maximum Loading Height	6380 mm	20.9 ft
Minimum Loading Height	2380 mm	7.8 ft
Maximum Depth Cut for 2440 mm (8 ft) Level Bottom	5770 mm	18.9 ft
Maximum Vertical Wall Digging Depth	5570 mm	18.3 ft
Bucket Digging Force – ISO	130 kN	29,225 lbf-ft
Stick Digging Force – ISO	105 kN	23,605 lbf-ft

## Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 0.85 kg (1.9 lb) of refrigerant which has a CO<sub>2</sub> equivalent of 1.216 metric tonnes (1.340 tons).

# STANDARD & OPTIONAL EQUIPMENT

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

	Standard	Optional		Standard	Optional
<b>UNDERCARRIAGE AND STRUCTURES</b>			<b>ENGINE</b>		
Grease lubricated track link	✓		Cat C4.4 single turbo diesel engine	✓	
Center track guiding guard	✓		Two selectable modes: Power, Smart	✓	
Bottom guards	✓		Up to 4500 m (14,760 ft) altitude capability	✓	
Travel motor guards	✓		52° C (125° F) high-ambient cooling capacity	✓	
3600 kg (7,940 lb) counterweight	✓		-25° C (-13° F) cold start capability	✓	
Tie-down points	✓		Electric fuel priming pump	✓	
600 mm (24") triple grouser track shoes		✓	Two-stage fuel filtration system	✓	
790 mm (31") triple grouser track shoes		✓	Sealed double element air filter with integrated pre-cleaner	✓	
<b>BOOMS AND STICKS</b>			<b>ELECTRICAL SYSTEM</b>		
5.7 m (18'8") Reach boom	✓		Maintenance-free 950 CCA batteries (x2)	✓	
2.5 m (8'2") Reach stick		✓	Electrical disconnect switch	✓	
2.7 m (8'9") Reach stick		✓	LED chassis and cab lights	✓	
<b>CAT TECHNOLOGY</b>			LED left-side boom light	✓	
VisionLink®	✓		LED right-side boom light		✓
Capability to Remote Flash Cat Product Link™ (telematics only)	✓		<b>HYDRAULIC SYSTEM</b>		
VisionLink Productivity		✓	Electronic main control valve, hammer ready	✓	
<b>CAB</b>			Back-to-back electronic pumps	✓	
Sound suppressed with viscous mounts	✓		Boom and stick regeneration circuits	✓	
High-resolution 203 mm (8") LCD touchscreen monitor	✓		Automatic hydraulic oil warmup	✓	
Mechanically adjustable seat with headrest and armrest	✓		Automatic two-speed travel	✓	
51 mm (2") orange seat belt	✓		High performance hydraulic return filter	✓	
Auto bi-level air conditioner	✓		Hammer lines		✓
Keyless push-to-start engine control	✓		Hammer return filter		✓
Fixed left-side console	✓		<b>SAFETY AND SECURITY</b>		
1-button joysticks	✓		Anti-skid plating with countersunk bolts	✓	
Bluetooth radio with USB/Auxiliary ports	✓		Auto hammer stop	✓	
24V DC outlet	✓		Handrail and hand hold	✓	
Cup holder and storage compartments	✓		Lockable external tool/storage box	✓	
70/30 tempered glass windshield	✓		Travel alarm	✓	
Rear window emergency exit	✓		Signaling/warning horn	✓	
Upper radial wiper with washer	✓		Lockable disconnect switch	✓	
Openable steel hatch	✓		Rearview camera		✓
LED Dome light	✓		Right-hand-side edge mirror		✓
Washable floor mat	✓		Rollover protective structure (ROPS)		✓
Operator Protective Guards (OPG) with matching lights		✓	Swing alarm		✓
3-button joysticks		✓			
<b>SERVICE AND MAINTENANCE</b>					
Grouped engine oil and fuel filters	✓				
Scheduled Oil Sampling (S-O-S <sup>SM</sup> ) ports	✓				
Radiator screen		✓			



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