320 GX HYDRAULIC EXCAVATOR

Net Power – ISO 9249 Operating Weight Maximum Digging Depth 103.6 kW (139 hp) 20 500 kg (45,300 lb) 6430 mm (21.1 ft)





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.

UP TO 15% LOWER FUEL CONSUMPTION

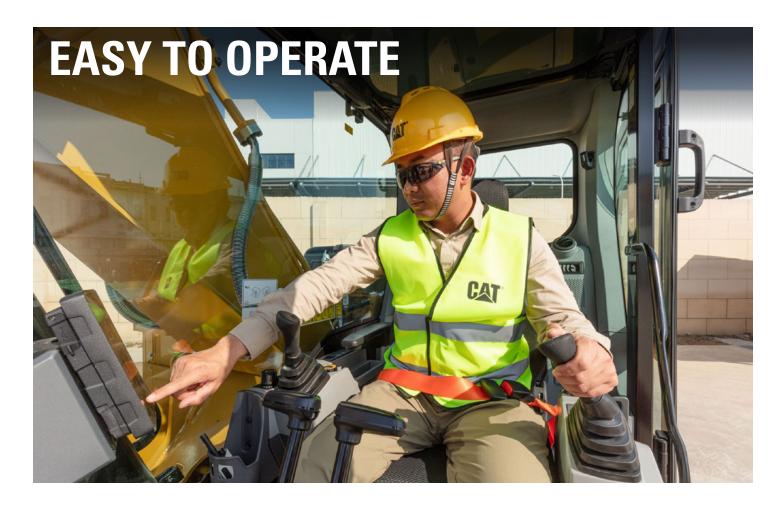
Smart mode and synchronized engine and electrohydraulic control give you competitive performance with low fuel consumption.



Cab Monitor Improvements

- Continuously improved user interface allows for intuitive navigation, minimizing performance interruption with the easy-to-use touchscreen menu.
- Identify apps quickly with a grid list view, abbreviated app names, and categorized menu options.
- A notification center keeps important information visible to the operator, and displays messages without shrinking the camera view.
- Color coded notifications set critical messages apart from the rest.
- 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: 05E



- The machine's electrohydraulic system allows accurate bucket control for maximum precision.
- Start the engine with a push button.
- Navigate quickly on the high-resolution 203 mm (8 in) touchscreen monitor.
- 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.



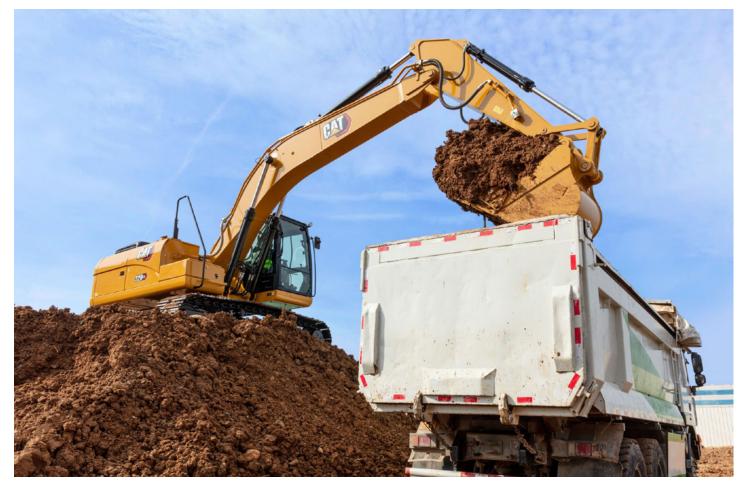
EASY TO MAINTAIN

- Do daily maintenance at ground level.
- Up to 20% less maintenance cost than the 320D2 GC due to enhanced filters and extended and synchronized service intervals (savings calculated over 12,000 machine hours).
- 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 double the interval from the previous filters.
- The hydraulic oil filter provides improved filtration performance, anti-drain valves to keep oil clean when the filter is replaced, and longer life with a 3,000-hour replacement interval – 50% longer than previous filter designs.
- 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·SSM) 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

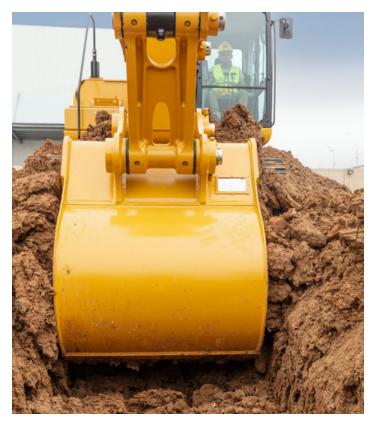
- The excavator uses up to 15% less fuel than the 320D2 GC in similar applications.
- Match the excavator to the job with a choice of two modes: Power and Smart. Power mode provides full-time maximum output. Smart mode automatically matches engine and hydraulic power to digging conditions to help conserve 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.





- 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.
- The handrails meet ISO 2867:2011 requirements for added safety.
- 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.

INCREASE YOUR PRODUCTIVITY AND PROFIT WITH CAT ATTACHMENTS

You can easily expand the performance of your 320 GX by utilizing a variety of Cat attachments. Each Cat attachment is designed to fit the weight and horsepower of the Cat excavator for improved performance, safety, and stability. The hammer-ready valve on the 320 GX along with a new wide and shallow bucket option can help you do more money-making work.



VIBRATORY PLATES



HYDRAULIC HAMMERS



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 best-in-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.

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 guickly.

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

E	ngine			
Net Power – ISO 9249	103.6 kW	139 hp		
Net Power – ISO 9249 (DIN)	141 hp (n	netric)		
Engine Model	Cat C	Cat C4.4		
Engine Power – ISO 14396	108 kW	145 hp		
Engine Power – ISO 14396 (DIN)	147 hp (n	147 hp (metric)		
Bore	105 mm	4 in		
Stroke	127 mm	5 in		
Displacement	4.4 L	269 in ³		
Biodiesel Capability	Up to I	Up to B201		
Emissions	· · · · · · · · · · · · · · · · · · ·	Emits equivalent to U.S. EPA Tier 3 and EU Stage IIIA.		

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 2,000 rpm. Advertised power is tested per the specified standard in effect at the time of manufacture.

¹Cat 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.

*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	3,626 psi			
Swing Mechanism					
Swing Speed	11.07 r/min	11.07 r/min			
Maximum Swing Torque	74 kN⋅m	54,875 ft·lbf			
Weights					
Operating Weight	20 500 kg	45,300 lb			

Reach boom, R2.7 (8'9") stick, General Duty (GD) 0.93 m³ (1.22 yd³) bucket, 790 mm (31") 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			

	ns			
Boom	Reach 5.	7 m (18'8")		
Stick	Reach 2.	7 m (8'10")		
Bucket	GD 0.93 m	ı³ (1.22 yd³)		
Shipping Height – Top of Cab	2970 mm	9.9 ft		
Handrail Height	3010 mm	9.11 ft		
Shipping Length	9570 mm	31.5 ft		
Tail Swing Radius	2830 mm	9.3 ft		
Counterweight Clearance	1040 mm	3.5 ft		
Ground Clearance	460 mm	1.6 ft		
Track Length	4080 mm	13.5 ft		
Track Length to Center of Rollers	3270 mm	10.9 ft		
Track Gauge	2200 mm	7.3 ft		
Transport Width	2990 mm	9.9 ft		
Working Ranges	& Forces			
oom Reach 5.7 m (18'8")				
Stick	Reach 2.7 m (8'10")			
Bucket	GD 0.93 m ³ (1.22 yd ³)			
Maximum Digging Depth	6430 mm	21.1 ft		
Maximum Reach at Ground Level	9580 mm	31.5 ft		
Maximum Cutting Height	9290 mm	30.6 ft		
Maximum Loading Height	6450 mm	21.1 ft		
Minimum Loading Height	2460 mm	8.1 ft		
Maximum Depth Cut for 2440 mm (8 ft)	6250 mm	20.6 ft		
Level Bottom				
•	5510 mm	18.1 ft		
Level Bottom	5510 mm 136 kN	18.1 ft 30,597 ft·lbf		

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

	Standard	Optional		Standard	Optiona
UNDERCARRIAGE AND STRUCTURES			ENGINE		
Grease lubricated track link	\checkmark		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		\checkmark	Two-stage fuel filtration system	~	
790 mm (31") triple grouser track shoes		✓	Sealed double element air filter with	\checkmark	
BOOMS AND STICKS			integrated pre-cleaner		
5.7 m (18'8") Reach boom	\checkmark		ELECTRICAL SYSTEM		
2.5 m (8'2") Reach stick		\checkmark	Maintenance-free 950 CCA batteries (×2)	✓	
2.7 m (8'9″) Reach stick		√	Electrical disconnect switch	\checkmark	
CAT TECHNOLOGY			LED chassis and cab lights	\checkmark	
VisionLink	✓		LED left-side boom light	\checkmark	
Capability to Remote Flash Cat Product Link™	\checkmark		LED right-side boom light		~
(telematics only)			HYDRAULIC SYSTEM		
VisionLink Productivity		\checkmark	Electronic main control valve, hammer ready	\checkmark	
CAB			Back-to-back electronic pumps	\checkmark	
Sound suppressed with viscous mounts	\checkmark		Boom and stick regeneration circuits	\checkmark	
High-resolution 203 mm (8") LCD	\checkmark		Automatic hydraulic oil warmup	\checkmark	
touch screen monitor			Automatic two-speed travel	\checkmark	
Mechanically adjustable seat with	\checkmark		High performance hydraulic return filter	\checkmark	
headrest and armrest	√		Hammer lines		\checkmark
51 mm (2") orange seat belt			Hammer return filter		\checkmark
Auto bi-level air conditioner	✓		SAFETY AND SECURITY		
Keyless push-to-start engine control			Anti-skid plating with countersunk bolts	\checkmark	
Fixed left-side console			Handrail and hand hold	\checkmark	
1 button joysticks			Lockable external tool/storage box	~	
Bluetooth radio with USB/Auxiliary ports			Signaling/warning horn	~	
24V DC outlet			Hydraulic lockout lever	~	
Cup holder and storage compartments	✓		Lockable disconnect switch	✓	
70/30 tempered glass windshield	✓		FOGS with matching lights		\checkmark
Rear window emergency exit	~		Rearview camera		√
Upper radial wiper with washer	✓		Rear- and right-side-view cameras (mandatory		\checkmark
Openable steel hatch	√		for Kingdom of Saudi Arabia; not available in		
LED Dome light	√		other regions)		
Washable floor mat	\checkmark		ROPS (mandatory for Kingdom of Saudi		\checkmark
3 button joysticks		\checkmark	Arabia; optional in Africa, Middle East, South America; not available in other regions)		
SERVICE AND MAINTENANCE			Travel alarm (standard in South America)		~
Grouped engine oil and fuel filters	\checkmark		Swing alarm		·
S·O·S ports	✓		owing didini		-

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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