



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.

Latest Features

- Cab Monitor Improvements
- Continuously improved user interface allows for intuitive navigation, minimizing performance interruption with the easy-to-use touchscreen menu.
- Identify applications 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

Easy to Operate

- 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.
- 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

- 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 precleaner 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.
- VisionLink® provides actionable data insights for all assets – regardless of fleet size or equipment manufacturer.* Review equipment data from your desktop or mobile device to maximize uptime and optimize assets. Dashboards provide information such as hours, miles, location, idle time, and fuel utilization. Make informed decisions that lower costs, simplify maintenance, and improve safety and security on your jobsite.
- VisionLink Productivity gathers and summarizes machine telematics and jobsite data from all your equipment – regardless of the manufacture.* View actionable information such as idle time, fuel burn, location, payload, load counts, total cycles, and more to improve machine efficiency, productivity, and utilization. Access data anywhere via a mobile, tablet, or desktop device – on or off the jobsite.
- Save fuel with Automatic Engine Control (AEC). It reduces engine speed when the machine is not under load to minimize fuel consumption.

**Data field availability can vary by equipment manufacture.*



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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 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.

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 return 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 CO₂ 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 S-O-S 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.*

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

	Standard	Optional
UNDERCARRIAGE AND STRUCTURES		
Grease lubricated track link	✓	
Center track guiding guard	✓	
Bottom guards	✓	
Travel motor guards	✓	
3600 kg (7,940 lb) counterweight	✓	
Tie-down points	✓	
600 mm (24") triple grouser track shoes		✓
790 mm (31") triple grouser track shoes		✓
BOOMS AND STICKS		
5.7 m (18'8") Reach boom	✓	
2.5 m (8'2") Reach stick		✓
2.7 m (8'9") Reach stick		✓
CAT TECHNOLOGY		
VisionLink	✓	
Capability to Remote Flash Cat Product Link™ (telematics only)	✓	
VisionLink Productivity		✓
CAB		
Sound suppressed with viscous mounts	✓	
High-resolution 203 mm (8") LCD touch screen monitor	✓	
Mechanically adjustable seat with headrest and armrest	✓	
51 mm (2") orange seat belt	✓	
Auto bi-level air conditioner	✓	
Keyless push-to-start engine control	✓	
Fixed left-side console	✓	
1 button joysticks	✓	
Bluetooth radio with USB/Auxiliary 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	✓	
3 button joysticks		✓

	Standard	Optional
ENGINE		
Cat C4.4 single turbo diesel engine	✓	
Two selectable modes: Power, Smart	✓	
Up to 4500 m (14,760 ft) altitude capability	✓	
52°C (125°F) high-ambient cooling capacity	✓	
-25°C (-13°F) cold start capability	✓	
Electric fuel priming pump	✓	
Two-stage fuel filtration system	✓	
Sealed double element air filter with integrated pre-cleaner	✓	
ELECTRICAL SYSTEM		
Maintenance-free 950 CCA batteries (×2)	✓	
Electrical disconnect switch	✓	
LED chassis and cab lights	✓	
LED left-side boom light	✓	
LED right-side boom light		✓
SERVICE AND MAINTENANCE		
Grouped engine oil and fuel filters	✓	
S-O-S ports	✓	
Radiator screen		✓
HYDRAULIC SYSTEM		
Electronic main control valve, hammer ready	✓	
Back-to-back electronic pumps	✓	
Boom and stick regeneration circuits	✓	
Automatic hydraulic oil warmup	✓	
Automatic two-speed travel	✓	
High performance hydraulic return filter	✓	
Hammer lines		✓
Hammer return filter		✓
SAFETY AND SECURITY		
Anti-skid plating with countersunk bolts	✓	
Auto hammer stop	✓	
Handrail and hand hold	✓	
Lockable external tool/storage box	✓	
Signaling/warning horn	✓	
Lockable disconnect switch	✓	
Operator Protective Guards (OPG) with matching lights		✓
Rearview camera (mandatory in Turkey)		✓
Right-hand-side camera (mandatory in Turkey)		✓
ROPS (mandatory in Turkey)		✓
Travel alarm (standard in Chile, Colombia)		✓
Swing alarm		✓

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Technical Specifications

Engine		
Engine Model	Cat C4.4	
Net Power – ISO 9249	105.7 kW	142 hp
Engine Power – ISO 14396	110.1 kW	148 hp
Bore	105 mm	4 in
Stroke	127 mm	5 in
Displacement	4.4 L	269 in ³
Biodiesel Capability	Up to B20 ⁽¹⁾	
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.

⁽¹⁾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.

*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 ft·lbf

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 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 R2.7 m (8'10")	
Bucket	GD 1.00 m³ (1.31 yd³)	
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 and Forces		
Boom	Reach 5.7 m (18'8")	
Stick	Reach R2.7 m (8'10")	
Bucket	GD 1.00 m³ (1.31 yd³)	
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 ft·lbf
Stick Digging Force – ISO	105 kN	23,605 ft·lbf

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 ₂ equivalent of 1.216 metric tonnes (1.340 tons).		

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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