320 GX

HYDRAULIC EXCAVATOR



Net Power – ISO 9249	**103.6 kW (139 hp)**
Operating Weight	**20 400 kg (45,000 lb)**
Maximum Digging Depth	**6430 mm (21.1 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℠) 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 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.

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.

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.

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.

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.

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	103.6 kW	139 hp
Net Power – ISO 9249 (DIN)	141 hp (metric)	
Engine Model	Cat C4.4	
Engine Power – ISO 14396	108 kW	145 hp
Engine Power – ISO 14396 (DIN)	147 hp (metric)	
Bore	105 mm	4 in
Stroke	127 mm	5 in
Displacement	4.4 L	269 in³
Biodiesel Capability	Up to B20[1]	
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.

[1]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.

*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 lbf•ft

*For CE-marked machine default value may be set lower.

Weights

Operating Weight	20 400 kg	45,000 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

Dimensions

Boom	Reach 5.7 m (18'8")	
Stick	Reach 2.7 m (8'10")	
Bucket	GD 0.93 m³ (1.22 yd³)	
Shipping Height – Top of Cab	2960 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

Boom	Reach 5.7 m (18'8")	
Stick	Reach 2.7 m (8'10")	
Bucket	GD 0.93 m³ (1.22 yd³)	
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) Level Bottom	6250 mm	20.6 ft
Maximum Vertical Wall Digging Depth	5510 mm	18.1 ft
Bucket Digging Force – ISO	136 kN	30,597 ft·lbf
Stick Digging Force – ISO	106 kN	23,897 ft·lbf

STANDARD & OPTIONAL EQUIPMENT

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

	Standard	Optional
UNDERCARRIAGE AND STRUCTURES		
Standard undercarriage (all regions except Middle East)	✓	
Medium undercarriage (Middle East only)	✓	
3600 kg (7,940 lb) counterweight	✓	
Tie-down points	✓	
600 mm (24″) triple grouser track shoes		✓
790 mm (31″) triple grouser track shoes		✓
800 mm (31") triple grouser track shoes (Southeast Asia only)		✓
BOOMS AND STICKS		
5.7 m (18'8") HD Reach boom (Middle East only)	✓	
5.7 m (18′8″) Reach boom (all regions except Middle East)	✓	
2.7 m (8'9") HD Reach stick (Middle East only)		✓
2.9 m (9'6") HD Reach stick (Middle East only)		✓
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)	✓	
CAB		
Sound suppressed with viscous mounts	✓	
High-resolution 203 mm (8″) LCD touchscreen monitor	✓	
Mechanically adjustable seat with headrest and armrest	✓	
Operator protective guards (OPG) with matching lights		✓
SERVICE AND MAINTENANCE		
Grouped engine oil and fuel filters	✓	
Scheduled Oil Sampling (S·O·S℠) ports	✓	
Radiator screen		✓
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	✓	

	Standard	Optional
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		✓
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	✓	
Handrail and hand hold	✓	
Lockable external tool/storage box	✓	
Signaling/warning horn	✓	
Hydraulic lockout lever	✓	
Lockable disconnect switch	✓	
Rearview camera (mandatory in Kingdom of Saudi Arabia; optional in other regions)		✓
Rear- and right-side-view cameras (mandatory for Kingdom of Saudi Arabia; not available in other regions)		✓
ROPS (mandatory for Kingdom of Saudi Arabia; optional in Africa, Middle East, South America; not available in other regions)		✓
Travel alarm (standard in South America)		✓
Swing alarm		✓

AEXQ3938-01 (10-2025)
Replaces AEXQ3938-00
Build Number: 05F
(Afr-ME, Eurasia, Indonesia, Sri Lanka,
S Am [except Brazil, Chile, Colombia],
SE Asia, Taiwan, Thailand)

For more complete information on Cat products, dealer services and industry solutions, visit us on the web at www.cat.com.

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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