



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

- Make the jobsite safer with an optional swing alarm.
- An optional ISO certified Rollover Protective Structure (ROPS) cab helps protect the operator in the event of a rollover.

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

Build Number: 05D

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.
- 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 percent 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 percent 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) 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 percent 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.
- Product Link™ comes standard so you can remotely monitor fuel consumption as well as machine health, location, and hours on demand through VisionLink®.
- 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).



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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 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.

Standard and Optional Equipment may vary. Consult your Cat dealer for details.

	Standard	Optional		Standard	Optional
UNDERCARRIAGE AND STRUCTURES			ELECTRICAL SYSTEM		
Grease lubricated track link	✓		Maintenance-free 950 CCA batteries (×2)	✓	
Center track guiding guard	✓		Electrical disconnect switch	✓	
Bottom guards	✓		LED chassis and cab lights	✓	
Travel motor guards	✓		LED left-side boom light	✓	
3600 kg (7,940 lb) counterweight	✓		LED right-side boom light		✓
Tie-down points	✓		SERVICE AND MAINTENANCE		
600 mm (24") triple grouser track shoes		✓	Grouped engine oil and fuel filters	✓	
BOOMS AND STICKS			S-O-S ports	✓	
5.7 m (18'8") Reach boom	✓		Radiator screen		✓
2.5 m (8'2") Reach stick		✓	790 mm (31") triple grouser track shoes		✓
2.7 m (8'9") Reach stick		✓	HYDRAULIC SYSTEM		
CAT TECHNOLOGY			Electronic main control valve, hammer ready	✓	
Cat Product Link™	✓		Back-to-back electronic pumps	✓	
CAB			Boom and stick regeneration circuits	✓	
Sound suppressed with viscous mounts	✓		Automatic hydraulic oil warmup	✓	
High-resolution 203 mm (8") LCD touch screen monitor	✓		Automatic two-speed travel	✓	
Mechanically adjustable seat with headrest and armrest	✓		High performance hydraulic return filter	✓	
51 mm (2") orange seat belt	✓		Hammer lines		✓
Auto bi-level air conditioner	✓		Hammer return filter		✓
Keyless push-to-start engine control	✓		SAFETY AND SECURITY		
Fixed left-side console	✓		Anti-skid plating with countersunk bolts	✓	
1 button joysticks	✓		Handrail and hand hold	✓	
Bluetooth radio with USB/Aux ports	✓		Lockable external tool/storage box	✓	
24V DC outlet	✓		Signaling/warning horn	✓	
Cup holder and storage compartments	✓		Hydraulic lockout lever	✓	
70/30 tempered glass windshield	✓		Falling Object Guard System (FOGS) with matching lights		✓
Rear window emergency exit	✓		Rearview camera		✓
Upper radial wiper with washer	✓		Rear- and right-side-view cameras (mandatory for Kingdom of Saudi Arabia; not available in other regions)		✓
Openable steel hatch	✓		ROPS (mandatory for Kingdom of Saudi Arabia; optional in Africa, Middle East, South America; not available in other regions)		✓
LED Dome light	✓		Travel alarm (standard in South America)		✓
Washable floor mat	✓		Swing alarm		✓
3 button joysticks		✓	Lockout device for disconnect switch (mandatory for Kingdom of Saudi Arabia; not available in other regions)		✓
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	✓				

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Technical Specifications

Engine

Engine Model	Cat C4.4	
Net Power – ISO 9249	103.6 kW	139 hp
Net Power – ISO 9249 – Metric	141 metric hp	
Engine Power – ISO 14396	108 kW	145 hp
Power – ISO 14396 – Metric	147 metric hp	
Bore	105 mm	4 in
Stroke	127 mm	5 in
Displacement	4.4 L	269 in ³

- 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 2,000 rpm.

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
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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 R2.7 m (8'10")	
Bucket	GD 0.93 m³ (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 – 790 mm (31 in) Shoes	2990 mm	9.1 ft
Transport Width – 600 mm (24 in) Shoes	2800 mm	9.2 ft

Working Ranges and Forces

Boom	Reach 5.7 m (18'8")	
Stick	Reach R2.7 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

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