



Cat[®] 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.

Not all features are available in all regions. Consult your Cat dealer for specific configurations available in your region.

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 new 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 new 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.
- 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 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.



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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 with less fuel burn.
- 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.
- 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.

Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
BOOM AND STICKS			HYDRAULIC SYSTEM		
5.7 m (18'8") Reach boom	✓		Electronic main control valve, hammer ready	✓	
2.5 m (8'2") Reach stick		✓ ¹	Back-to-back electronic pump	✓	
2.7 m (8'9") Reach stick	✓ ²		Boom and stick regeneration circuits	✓	
CAB			Automatic hydraulic oil warm up	✓	
Sound suppressed with viscous mounts	✓		Automatic two-speed travel	✓	
High-resolution 203 mm (8") LCD touchscreen monitor	✓		Hammer lines		✓
Mechanically adjustable seat with headrest	✓		Hammer return filter		✓ ¹
Automatic bi-level air conditioner	✓		SAFETY AND SECURITY		
Keyless push-to-start engine control	✓		Anti-skid plating with countersunk bolts	✓	
Floor-mounted adjustable consoles	✓		FOGS with matching lights		✓
1-button joystick	✓		Handrail and handhold	✓	
3-button joystick		✓	Lockable external tool/storage box	✓	
AM/FM radio with Bluetooth® and USB	✓		Rearview camera		✓
24V DC outlet	✓		Signaling/warning horn	✓	
Cup holder and storage compartments	✓		Hydraulic lockout lever	✓	
70/30 tempered glass windshield	✓		Travel alarm		✓ ³
Upper radial wiper with washer	✓		SERVICE AND MAINTENANCE		
Openable steel hatch	✓		Grouped engine oil and fuel filters	✓	
Dome light	✓		Radiator screen		✓
Washable floor mat	✓		Scheduled Oil Sampling (S•O•S) ports	✓	
CAT TECHNOLOGY			UNDERCARRIAGE AND STRUCTURES		
Cat Product Link	✓		600 mm (24") triple grouser track shoes		✓
ELECTRICAL SYSTEM			790 mm (31") triple grouser track shoes		✓
950 CCA maintenance-free batteries (x2)	✓		Grease lubricated track link	✓	
Electrical disconnect switch	✓		Center track guiding guard	✓	
LED chassis and cab lights	✓		Bottom guards	✓	
LED left-side boom light	✓		Travel motor guards	✓	
LED right-side boom light		✓ ³	3600 kg (7,940 lb) counterweight	✓	
ENGINE			Tie-down points	✓	
Two selectable modes: Power, Smart	✓				
Up to 4500 m (14,764 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 precleaner	✓				

¹ Africa, Middle East, CIS and South America only.

² Standard Indonesia and Southeast Asia.

³ Standard South America.

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

For additional information and additional regional offerings, refer to the Technical Specifications brochure available at www.cat.com or your Cat dealer.

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Technical Specifications

Engine		
Engine Model	C4.4	
Engine Power ISO 14396:2002	108 kW	145 hp
ISO 14396:2002 (DIN)	147 hp (metric)	
Net Power ISO 9249:2007	104 kW	139 hp
ISO 9249:2007 (DIN)	141 hp (metric)	
Bore	105 mm	4 in
Stroke	127 mm	5 in
Displacement	4.4 L	269 in ³
Biodiesel Capability	Up to B20 ⁽¹⁾	

- 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.

⁽¹⁾ Cat engines are compatible with the following renewable, alternative, and biodiesel* fuels that reduce greenhouse gases:

- Up to B20 biodiesel (FAME) **
- Up to 100% HVO and GTL renewable fuels

* Refer to guidelines for successful application. Please consult your Cat dealer or "Caterpillar Machine Fluids Recommendations" (SEBU6250) for details.

** B30, where mandated, can be used. For use of higher blends, up to B100, consult your Cat dealer.

Hydraulic System		
Main System – Maximum Flow – Implement	429 L/min (214.5 L/min x 2 pumps)	113 gal/min (56.7 gal/min x 2 pumps)
Maximum Pressure – Equipment – Implement	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	11.07 rpm	
Maximum Swing Torque	74 kN•m	54,580 lbf-ft

Machine Weight		
Operating Weight	20 500 kg	45,300 lb
• Standard undercarriage, Reach boom, R2.7 (8'9") stick, GD 0.93 m ³ (1.22 yd ³) bucket, 790 mm (31") triple grouser shoes, and 3600 kg (7,940 lb) counterweight.		
Operating Weight	19 900 kg	43,900 lb
• Standard undercarriage, Reach boom, R2.7 (8'9") stick, GD 0.93 m ³ (1.22 yd ³) bucket, 600 mm (24") triple grouser shoes, and 3600 kg (7,940 lb) counterweight.		

Service Refill Capacities		
Fuel Tank	390 L	103 gal
Cooling System	24.5 L	6.5 gal
Engine Oil (with filter)	15 L	4 gal
Swing Drive	12 L	3.2 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 (8'9")	
Bucket	GD 0.93 m³ (1.22 yd³)	
Shipping Height (top of cab)	2950 mm	9'8"
Handrail Height	3010 mm	9'11"
Shipping Length	9570 mm	31'5"
Tail Swing Radius	2830 mm	9'3"
Counterweight Clearance	1044 mm	3'5"
Ground Clearance	464 mm	1'6"
Track Length	4080 mm	13'5"
Length to Center of Rollers	3265 mm	10'9"
Track Gauge	2200 mm	7'3"
Transport Width – 600 mm (24") Shoes	2800 mm	9'2"
Transport Width – 790 mm (31") Shoes	2990 mm	9'10"

Working Ranges and Forces		
Boom	Reach 5.7 m (18'8")	
Stick	Reach 2.7 m (8'9")	
Bucket	GD 0.93 m³ (1.22 yd³)	
Maximum Digging Depth	6430 mm	21'1"
Maximum Reach at Ground Level	9580 mm	31'5"
Maximum Cutting Height	9290 mm	30'6"
Maximum Loading Height	6450 mm	21'2"
Minimum Loading Height	2460 mm	8'1"
Maximum Depth Cut for 2400 mm (8'0") Level Bottom	6250 mm	20'6"
Maximum Vertical Wall Digging Depth	5510 mm	18'1"
Minimum Working Equipment Radius	3680 mm	12'1"
Bucket Digging Force (ISO)	136 kN	30,570 lbf
Stick Digging Force (ISO)	106 kN	23,830 lbf

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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(Afr-ME, CIS, Indonesia,
S Am [except Brazil], SE Asia)

