



Cat[®] 320 GC

Hydraulic Excavator

The Cat[®] 320 GC excavator balances productivity with easy-to-use controls, a new comfortable cab, reduced fuel consumption by up to 20 percent, and longer maintenance intervals that reduce maintenance costs up to 20 percent – all to give you a durable, low-cost-per-hour excavator to meet your light- to medium-duty application requirements.

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

High Performance with Lower Fuel Consumption

- The excavator uses up to 20 percent less fuel than the 320F in similar applications.
- Match the excavator to the job with power modes; let Smart mode automatically match engine and hydraulic power to digging conditions.
- The advanced hydraulic system provides the optimum balance of power and efficiency while giving you the control you need for precise digging requirements.
- Valve priority puts hydraulic pressure and flow where you command it to go for fast light- to medium-load cycle times.
- The engine meets U.S. EPA Tier 4 Final and EU Stage IV emission standards with an aftertreatment system that requires no operator input or downtime.
- Add auxiliary hydraulics to do more work with a range of Cat attachments.
- Product Link™ comes standard so you can remotely monitor machine health, location, hours, and fuel consumption on demand through the VisionLink[®] online interface.

Reliable, High and Low, Heat and Cold

- Work up to 3000 m (9,840 ft) above sea level without de-rating.
- Standard high-ambient temperature capability is 52° C (125° F) with cold start capability at –32° C (–25° F).
- Auto warm up speeds up hydraulic oil warming in cold temperatures and helps prolong the life of components.
- Grease sealed between track pins and bushings reduces travel noise and prevents debris from entering to increase undercarriage life.
- The track guiding guards help keep the excavator track aligned when traveling and working on slopes.
- The sloped track frame prevents mud and debris accumulation, helping reduce risk of track damage.

Work in Comfort in the All-New Cab

- The Comfort cab has a wide seat that adjusts for operators of all sizes.
- Control the excavator comfortably with easy-to-reach controls all located in front of you.
- Standard automatic climate control keeps you at the right temperature all shift long.
- Advanced viscous mounts reduce cab vibration by up to 50 percent over previous excavator models.
- Stow your gear with plenty of in-cab storage beneath and behind the seat, overhead, and in the consoles. A cup holder, document holder, bottle holder, and coat hook are also provided.
- Use the standard radio's USB ports and Bluetooth[®] technology to connect to personal devices.

Simple to Operate

- Start the engine with a push button; use a Bluetooth key fob, smartphone app, or the unique Operator ID function.
- Program your power mode and joystick preferences using Operator ID; the excavator will remember what you set each time you go to work.
- Navigate quickly on the standard high-resolution 203 mm (8 in) touchscreen monitor or with the aid of the jog dial control.
- Not sure how a function works or how to maintain the excavator? Always have the operator's manual at your fingertips in the touchscreen monitor.
- Find the tool you need – even if it's hidden beneath overgrowth or debris. The available Bluetooth reader can search for any work tool equipped with Cat asset tracking devices up to a range of 60 meters (200 feet).



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Maintenance

- Expect up to 20 percent less maintenance cost than the 320F. (Savings calculated over 12,000 machine hours.)
- Do all daily maintenance at ground level.
- Check engine oil level quickly and safely with the new ground-level engine oil dipstick; fill and check engine oil on top of the machine with a conveniently located second dipstick.
- Track your excavator's filter life and maintenance intervals via the in-cab monitor.
- Do no required maintenance on the Cat Clean Emissions Module.
- Fuel filters are synchronized to be changed at 1,000 hours – double the interval from the previous filters.
- Expect the new air intake filter with precleaner to last up to 1,000 hours – a 100 percent increase over the previous filter.
- 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.
- High-efficiency cooling fans run only when needed; you can program intervals so they automatically reverse to keep cores clean without interrupting your work.
- S·O·SSM ports simplify maintenance and allow for quick, easy extraction of samples for fluid analysis.

Safety

- Access 100 percent of daily maintenance points from ground level – no need for you to climb on top of the excavator.
- Keep your excavator secure with Operator ID. Use your PIN code on the monitor to enable the pushbutton starting feature.
- The standard ROPS cab meets ISO 12117-2:2008 requirements.
- Enjoy great visibility into the trench, in each swing direction, and behind you with the help of smaller cab posts and larger windows.
- A rearview camera and a right-side-view camera are standard.
- The new right-hand service platform design provides easy, safe, and quick access to upper service platform; the service platform steps use anti-skid punch plate to prevent slipping.
- The handrails comply with ISO 2867:2011 requirements.

Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
CAB					
ROPS, standard sound suppression	✓				
High-resolution 203 mm (8 in) LCD touchscreen monitor	✓				
Mechanically adjustable seat	✓				
CAT CONNECT TECHNOLOGY					
Cat Product Link	✓				
ENGINE					
Two selectable power modes	✓				
One-touch low idle with auto engine speed control	✓				
Auto engine idle shutdown	✓				
52° C (125° F) high-ambient cooling capacity	✓				
-32° C (-25° F) cold start capability	✓				
Double element air filter with integrated precleaner	✓				
Reversing electric cooling fans	✓				
Biodiesel capability up to B20	✓				
HYDRAULIC SYSTEM					
Boom and stick regeneration circuits	✓				
Boom and stick lowering check valves	✓ ¹	✓			
Auto hydraulic warm up	✓				
Auto two-speed travel	✓				
Boom and stick drift reduction valve	✓				
Slider joysticks	✓ ¹	✓			
Tool Control (two pumps, one/two way high-pressure flow)	✓ ¹	✓			
Medium-pressure circuit		✓ ¹			
Quick coupler circuit for Cat Pin Grabber	✓				
BOOM AND STICKS					
5.7 m (18'8") reach boom, 2.9 m (9'6") stick	✓				
5.7 m (18'8") reach boom, 2.5 m (8'2") stick		✓ ¹			
UNDERCARRIAGE AND STRUCTURES					
600 mm (24") triple grouser shoes					✓ ¹
700 mm (28") triple grouser shoes					✓ ¹
790 mm (31") triple grouser shoes			✓ ²		✓
Tie-down points on base frame	✓				
4200 kg (9,300 lb) counterweight	✓				
ELECTRICAL SYSTEM					
Two 1,000 CCA maintenance-free batteries	✓				
Programmable time-delay LED working lights	✓				
LED chassis light, left-hand/right-hand boom lights, cab lights	✓				
SERVICE AND MAINTENANCE					
Sampling ports for Scheduled Oil Sampling (S-O-S)	✓				
Ground- and platform-level engine oil dipsticks	✓				
SAFETY AND SECURITY					
Rearview camera	✓				
Right-hand-side camera	✓				
Cat asset tracker					✓
Ground-level engine shutoff switch	✓				
Right-hand handrail and hand hold	✓				
Signaling/warning horn	✓				

¹ Europe only

² North America only

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Technical Specifications

Engine

Engine Model	Cat C4.4	
Engine Power – ISO 9249	90 kW	121 hp
Engine Power – ISO 14396	91 kW	122 hp
Bore	105 mm	4 in
Stroke	127 mm	5 in
Displacement	4.4 L	269 in ³

Hydraulic System

Main System – Maximum Flow (Implement)	442 L/min	116 gal/min
Maximum Pressure – Equipment	35 000 kPa	5,075 psi
Maximum Pressure – Travel	34 300 kPa	4,974 psi
Maximum Pressure – Swing	26 800 kPa	3,886 psi

Machine Weight

Operating Weight – 790 mm (31") Shoes	22 300 kg	49,200 lb
• 5.7 m (18'8") reach boom, 2.9 m (9'6") reach stick, 1.0 m ³ (1.31 yd ³) HD bucket, 790 mm (31") triple grouser shoes.		
Operating Weight – 700 mm (28") Shoes	21 900 kg	48,300 lb
• 5.7 m (18'8") reach boom, 2.9 m (9'6") reach stick, 1.0 m ³ (1.31 yd ³) GD bucket, 700 mm (28") triple grouser shoes.		

Service Refill Capacities

Fuel Tank	345 L	86.6 gal
Cooling System	25 L	6.6 gal
Engine Oil	15 L	4 gal
Swing Drive	5 L	1.3 gal
Final Drive (each)	5 L	1.3 gal
Hydraulic System (including tank)	234 L	61.8 gal
Hydraulic Tank	115 L	30.4 gal
DEF Tank	39 L	10.3 gal

Air Conditioning System

- The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 0.9 kg of refrigerant which has a CO₂ equivalent of 1.287 metric tonnes.

Dimensions

Boom	Reach 5.7 m (18'8")	
Stick	Reach 2.9 m (9'6")	
Bucket	1.0 m³ (1.31 yd³)	
Shipping Height (top of cab)	2960 mm	9'9"
Handrail Height	2950 mm	9'8"
Shipping Length	9530 mm	31'3"
Tail Swing Radius	2830 mm	9'3"
Track Length	4450 mm	14'7"
Length to Center of Rollers	3650 mm	12'0"
Ground Clearance	470 mm	1'7"
Track Gauge	2380 mm	7'9"
Transport Width – 790 mm (31") Shoes	3170 mm	10'5"
Transport Width – 700 mm (28") Shoes	3080 mm	10'1"
Counterweight Clearance	1050 mm	3'5"

Working Ranges and Forces

Boom	Reach 5.7 m (18'8")	
Stick	Reach 2.9 m (9'6")	
Bucket	1.0 m³ (1.31 yd³)	
Maximum Digging Depth	6720 mm	22'1"
Maximum Reach at Ground Level	9860 mm	32'4"
Maximum Cutting Height	9450 mm	31'0"
Maximum Loading Height	6490 mm	21'4"
Minimum Loading Height	2170 mm	7'1"
Maximum Depth Cut for 2440 mm (8'0") Level Bottom	6550 mm	21'6"
Maximum Vertical Wall Digging Depth	5690 mm	18'8"
Bucket Digging Force (ISO)	129 kN	28,935 lbf
Stick Digging Force (ISO)	99 kN	22,281 lbf

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