

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 30 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.

High Performance with Lower Fuel Consumption

- The excavator uses up to 30 percent less fuel than the 320E in similar applications.
- The engine meets Japan 2014 (Tier 4 Final) emission standards with an aftertreatment system that requires no maintenance.
- 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.
- Match the excavator to the job with power modes; let Smart mode automatically match engine and hydraulic power to digging conditions.
- 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.

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 center track guiding guard helps 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 all size operators.
- Advanced viscous mounts reduce cab vibration up to 50 percent over previous excavator models.
- Standard automatic climate control keeps you at the right temperature all shift long.
- Control the excavator comfortably with easy-to-reach controls all located in front of you.
- 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 personal devices.

Simple to Operate

- Start the engine with a push button or with the unique Operator ID function.
- You can navigate quickly on the standard high-resolution 203 mm (8 inch) touchscreen monitor or with the aid of the jog dial control.
- Program your power mode and joystick preferences using Operator ID; the excavator will remember what you set each time you go to work.
- The operator's manual is always at your fingertips in the touchscreen monitor.

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基準適合

Maintenance

- Extended maintenance intervals reduce maintenance costs by 20 percent over the Cat 320E excavator. (20 percent savings calculated over 12,000 machine hours.)
- High-efficiency cooling fans run only when needed; you can program intervals so they automatically reverse to keep cores clean without interrupting your work.
- An all-new engine air cleaner with integrated pre-cleaner has twice the life of radial seal air cleaners.
- The new hydraulic oil filter provides improved filtration performance and longer life with a 3,000 hour replacement interval – 50 percent longer than previous filter designs.
- Fuel filters are synchronized to be changed at 1,000 hours – double the interval from the previous filters.
- Track your excavator's filter life and maintenance intervals via the in-cab monitor.
- Check engine oil level quickly and safely with the new engine oil dipstick located on ground level.
- S·O·S℠ ports simplify maintenance and allow for quick, easy extraction of samples for fluid analysis.

Safety

- Keep your excavator secure with Operator ID. Use your PIN code on the monitor to enable the push button starting feature.
- See clearly through large windows with narrow cab pillars.
- Get an up-close view behind you and to your right with standard rearview and right-side-view cameras.
- The new right-hand steps provide easy, safe, and quick access to the upper service platform; the steps use anti-skid plates to prevent slipping.
- The standard rollover protective structure (ROPS) cab meets ISO 12117-2:2008 requirements.
- The handrails comply with ISO 2867:2011 access system requirements.

Standard and Optional Equipment

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

	Standard	Optional
CAB		
ROPS, standard sound suppression	✓	
Mechanically adjustable seat	✓	
High-resolution 203 mm (8 inch) LCD touchscreen monitor	✓	
CAT CONNECT TECHNOLOGY		
Cat Product Link	✓	
ENGINE		
Cat C4.4 engine	✓	
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	✓	
HYDRAULIC SYSTEM		
Auto warm up	✓	
Auto two-speed travel	✓	
Boom and stick drift reduction valve	✓	
Hammer return filter circuit		✓
Tool Control (two pumps, one/two way high-pressure flow)		✓
Quick coupler circuit for Cat Pin Grabber		✓

	Standard	Optional
BOOM AND STICKS		
5.7 m (18'8") reach boom, 2.9 m (9'6") stick	✓	
UNDERCARRIAGE AND STRUCTURES		
600 mm (24") triple grouser shoes	✓	
790 mm (31") triple grouser shoes		✓
Tie-down points on base frame	✓	
3700 kg (8,200 lb) counterweight	✓	
SAFETY AND SECURITY		
Rearview camera	✓	
Right-side-view camera	✓	
Ground-level engine shutoff switch	✓	

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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 in³

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	20 600 kg	45,415 lb

- Standard undercarriage, 5.7 m (18'8") reach boom, 2.9 m (9'6") reach stick, 0.80 m³ (1.05 yd³) GD bucket, 600 mm (24") triple grouser shoes, 3.7 mt (8,200 lb) counterweight

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 (each)	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

Dimensions		
Boom	**Reach 5.7 m (18'8")**	
Stick	**Reach 2.9 m (9'6")**	
Bucket	**0.80 m³ (1.05 yd³)**	
Shipping Height (top of cab)	2960 mm	9'8"
Handrail Height	2950 mm	9'8"
Shipping Length	9520 mm	31'3"
Tail Swing Radius	2830 mm	9'3"
Track Length	4070 mm	13'4"
Length to Center of Rollers	3270 mm	10'9"
Ground Clearance	470 mm	1'6"
Track Gauge	2200 mm	7'3"
Transport Width – 600 mm (24") Shoes	2800 mm	9'2"
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	**0.80 m³ (1.05 yd³)**	
Maximum Digging Depth	6640 mm	21'9"
Maximum Reach at Ground Level	9780 mm	32'1"
Maximum Cutting Height	9440 mm	31'0"
Maximum Loading Height	6570 mm	21'7"
Minimum Loading Height	2250 mm	7'5"
Maximum Vertical Wall Digging Depth	5990 mm	19'8"
Bucket Digging Force (ISO)	135 kN	30,448 lbf
Stick Digging Force (ISO)	100 kN	22,562 lbf

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Based on the Labor, Safety and Health Laws in Japan, employer of small construction equipment are required to provide specific training for all operators on machines with ship weight less than 3 metric ton. For machines greater than 3 metric ton, operator needs to obtain operator license certification from a Government approved registered training school.

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