

Cat® 320 GC

Hydraulic Excavator

The Cat® 320 GC excavator balances productivity with easy-to-use technology features, a redesigned cab, reduced fuel consumption by up to 20 percent, and longer service intervals reducing maintenance costs by up to 20 percent to give you a durable, low-cost-per-hour excavator for light- to medium-duty applications.

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 320D2 GC in similar applications.
- Meets China Nonroad III and Brazil MAR-1, equivalent to U.S. EPA Tier 3 and EU Stage IIIA emission standards.
- Match the excavator to the job with a choice of two modes:
 Power and Smart. Smart mode automatically matches engine and hydraulic power to your 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.
- 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.
- 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 in Tough Conditions

- 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.
- Two levels of fuel filtration protect the engine from dirty diesel fuel.
- Grease sealed between track pins and bushings reduces travel noise and prevents debris from entering to increase undercarriage life.
- The 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

- 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.

Simple To Operate

- Start the engine with a push button; use a Bluetooth® key fob, smartphone app, or Operator ID passcode.
- Program each joystick button, including power mode, response, and pattern, using Operator ID; the machine will remember what you set each time you go to work.
- Navigate quickly on the standard high-resolution 203 mm (8 inch) touchscreen monitor or with the aid of the jog dial control.
- The Cat PL161 Attachment Locator is a Bluetooth device that makes finding your attachments and other gear quick and easy.
 The Cat App on your phone will locate the device automatically.
- 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.



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Maintenance

- Expect 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.)
- Do all daily maintenance at ground level.
- Check engine oil level quickly and safely with the 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.
- Fuel filters are synchronized to be changed at 1,000 hours double the interval from the previous filters.
- The new air intake filter with precleaner has double the dust holding capacity of the previous air intake 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 are on ground level, simplifying maintenance and allowing for quick, easy extraction of fluid samples for 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 push button 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 is standard, and a right-hand-sideview camera is optional.
- 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 | |
|---|--------------|----------|---------------------|
| CAB | | | BOOM A |
| ROPS, standard sound suppression | ✓ | | 5.7 m (1 |
| High-resolution 203 mm (8 inch) LCD | ✓ | _ | reach s |
| touchscreen monitor | | | 5.7 m (1 |
| Mechanically adjustable seat | \checkmark | | reach s |
| CAT TECHNOLOGY | | | *Africa, |
| Cat Product Link | ✓ | | UNDERCA |
| Auto hammer stop | ✓ | | 600 mm |
| ENGINE | | | 790 mm |
| Two selectable power modes | ✓ | | Tie-dov |
| Auto engine speed control | ✓ | | 3700 kg |
| Auto engine idle shutdown | ✓ | | 4200 kg |
| 52° C (125° F) high-ambient cooling | ✓ | | *South |
| capacity | | | **Austr |
| −32° C (−25° F) cold start capability | ✓ | | ELECTRIC |
| Double element air filter with integrated | ✓ | | Two 1,0 |
| precleaner | | | Prograr |
| Reversing electric cooling fans | ✓ | | working |
| Biodiesel capability up to B20 | ✓ | | LED cha |
| HYDRAULIC SYSTEM | | | LED cha |
| Boom and stick regeneration circuits | ✓ | | boom lig |
| Auto hydraulic warm up | | ✓ | Schedu |
| Auto two-speed travel | ✓ | | |
| Boom and stick drift reduction valve | ✓ | _ | Ground oil dipst |
| Hammer return filter circuit* | | ✓ | SAFETY A |
| Three button joysticks | ✓ | | Rearvie |
| Slider joysticks* | | ✓ | Right-h |
| Hammer return filter circuit* | | ✓ | Right-h |
| Tool Control (two pump, one/two way | | ✓ | Ground |
| high-pressure flow)* | | | Right-h |
| Basic Tool Control (one pump, one way high-pressure flow) | | ✓ | Signalir |
| Quick coupler circuit for Cat Pin Grabber* | | | *Austra |
| Zarok coupler off carrior carrill drapper | | • | |

^{*}Not available in China.

| | Standard | Optiona |
|---|------------|---------|
| BOOM AND STICKS | | |
| 5.7 m (18'8") reach boom, 2.9 m (9'6") reach stick | ✓ | |
| 5.7 m (18'8") reach boom, 2.5 m (8'2") reach stick* | | ✓ |
| *Africa, Middle East only. | | |
| UNDERCARRIAGE AND STRUCTURES | | |
| 600 mm (24") triple grouser shoes | ✓ | |
| 790 mm (31") triple grouser shoes* | | ✓ |
| Tie-down points on base frame | ✓ | |
| 3700 kg (8,150 lb) counterweight | ✓ | |
| 4200 kg (9,260 lb) counterweight** | ✓ | |
| *South America and Southeast Asia only. **Australia, New Zealand only. | | |
| ELECTRICAL SYSTEM | | |
| Two 1,000 CCA maintenance-free batteries | ✓ | |
| Programmable time-delay LED working lights | ✓ | |
| LED chassis light, left-hand boom lights | ✓ | |
| LED chassis light, left-hand/right-hand boom lights, cab lights | | ✓ |
| SERVICE AND MAINTENANCE | | |
| Scheduled Oil Sampling (S·O·S) ports | ✓ | |
| Ground- and platform-level engine oil dipsticks | ✓ | |
| SAFETY AND SECURITY | | |
| Rearview camera | ✓ | |
| Right-hand-sideview camera | √ * | ✓ |
| Right-hand mirror | ✓ | |
| Ground-level engine shutoff switch | ✓ | |
| Right-hand handrail and hand hold | ✓ | |
| Signaling/warning horn | ✓ | |

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Technical Specifications

| Engine | | | |
|--------------------------|----------|---------------------|--|
| Engine Model | Cat C4.4 | | |
| Engine Power – ISO 9249 | 107 kW | 143 hp | |
| Engine Power – ISO 14396 | 108 kW | 145 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 | 429 L/min | 113 gal/min |
| Maximum Pressure – Equipment | 35 000 kPa | 5,075 psi |
| Maximum Pressure – Travel | 34 300 kPa | 4,974 psi |
| Maximum Pressure – Swing | 25 000 kPa | 3,625 psi |

| Swing Mecha | anism | |
|----------------------|---------|---------------|
| Swing Speed | 11.3 | 3 rpm |
| Maximum Swing Torque | 74 kN⋅m | 54,900 lbf-ft |

| Machine Weight | | | |
|---|-----------|-----------|--|
| Operating Weight* | 19 800 kg | 43,700 lb | |
| • 3700 kg (8,200 lb) counterweight, 5.7 m (18'8") reach boom, 2.9 m (9'6") reach stick, 1.0 m ³ (1.31 yd ³) GD bucket, 600 mm (24") shoes, standard undercarriage. | | | |

^{*}Operating weight increased by 1400 kg (3,000 lb) with 4200 kg (9,260 lb) counterweight and long undercarriage. (Australia, New Zealand only)

| Service Refill Capacities | | | |
|-----------------------------------|-------|----------|--|
| Fuel Tank | 345 L | 86.6 gal | |
| Cooling System | 25 L | 6.6 gal | |
| Engine Oil | 15 L | 4.0 gal | |
| Swing Drive (each) | 12 L | 3.2 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 | |

| 7 | |
|---|---------------------------------|
| | LBAMA BROCONVE HOMOLOGADO |

| 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 – Standard Undercarriage | 4070 mm | 13'4" | |
| Track Length – Long Undercarriage* | 4450 mm | 14'7" | |
| Length to Center of Rollers – Standard Undercarriage | 3270 mm | 10'9" | |
| Length to Center of Rollers – Long Undercarriage* | 3650 mm | 12'0" | |
| Ground Clearance | 470 mm | 1'7" | |
| Track Gauge – Standard Undercarriage | 2200 mm | 7'3" | |
| Track Gauge – Long Undercarriage* | 2380 mm | 7'9" | |
| Transport Width (600 mm [24"] Shoes) – Standard Undercarriage | 2800 mm | 9'2" | |
| Transport Width (600 mm [24"] Shoes) – Long Undercarriage* | 2980 mm | 9'9" | |
| Counterweight Clearance | 1050 mm | 3'5" | |
| *Australia, New Zealand only. | | | |

| 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 | 6710 mm | 22'0" | |
| Maximum Reach at Ground Level | 9850 mm | 32'4" | |
| Maximum Cutting Height | 9450 mm | 31'0" | |
| Maximum Loading Height | 6500 mm | 21'4" | |
| Minimum Loading Height | 2180 mm | 7'2" | |
| Maximum Depth Cut for 2440 mm (8'0") Level Bottom | 6540 mm | 21'5" | |
| Maximum Vertical Wall Digging Depth | 5690 mm | 18'8" | |
| Bucket Digging Force (ISO) | 129 kN | 29,007 lbf | |
| Stick Digging Force (ISO) | 99 kN | 22,301 lbf | |

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