



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 15 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.
- Three 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 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 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 each joystick button, including response and pattern, using Operator ID; it will also remember climate control fan and radio settings.
- 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.



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Maintenance

- Expect up to 15 percent less maintenance cost than the 320E. (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.
- Change all fuel filters at a synchronized 500 hours.
- 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.
- The new high-efficiency electric cooling fans only run when needed and reverse to keep cores free from debris.
- 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 is standard, and a right-side-view 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.
- The lower frame meets ISO 15818:2017 lifting and tie-down 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 | | ✓ | | | |
| Auto hydraulic warm up | ✓ | | | | |
| Auto two-speed travel | ✓ | | | | |
| Boom and stick drift reduction valve | ✓ | | | | |
| Hammer return filter circuit | | ✓ | | | |
| Slider joysticks | | ✓ | | | |
| Combined flow/high-pressure auxiliary circuit | | ✓ | | | |
| Medium-pressure circuit | | ✓ | | | |
| Quick coupler circuit for Cat Pin Grabber | | ✓ | | | |
| 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 | | | | | ✓ |
| 700 mm (28") triple grouser shoes | | | | | ✓ |
| 790 mm (31") triple grouser shoes | | | | | ✓ |
| 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 | ✓* | | | ✓* | |
| Right-hand mirror | ✓ | | | | |
| Ground-level engine shutoff switch | ✓ | | | | |
| Right-hand handrail and hand hold | ✓ | | | | |
| Signaling/warning horn | ✓ | | | | |

*Europe standard; other regions optional.

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Technical Specifications

| Engine | | |
|-----------------------------------|-----------------|---------------------|
| Engine Model | Cat C4.4 ACERT™ | |
| Gross Power – ISO 14396/SAE J1995 | 91 kW | 122 hp |
| Net Power – ISO 9249/SAE J1349 | 90 kW | 121 hp |
| Engine RPM | | |
| Operation | 1,700 rpm | |
| Travel | 2,000 rpm | |
| 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 – North America | 21 900 kg | 48,281 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 – Europe | 21 300 kg | 46,958 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 (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 | 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 to Center of Rollers | 3270 mm | 10'9" |
| Ground Clearance | 470 mm | 1'7" |
| Track Gauge | 2200 mm | 7'3" |
| 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 |
| Bucket Digging Force (SAE) | 115 kN | 25,759 lbf |
| Stick Digging Force (SAE) | 96 kN | 21,678 lbf |

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