

320 GC

HYDRAULIC EXCAVATOR



Net Power – ISO 9249
Operating Weight
Maximum Digging Depth

107 kW (143 hp)
20 400 kg (45,000 lb)
6630 mm (21.8 ft)



320 GC

HYDRAULIC EXCAVATOR

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



LOW FUEL CONSUMPTION

A precise combination of low engine speed and a large hydraulic pump deliver top performance, helping to burn less fuel.

IMPROVED RELIABILITY AND EFFICIENCY

An advanced electro-hydraulic system provides the optimum balance of power and efficiency while giving you the control you need for precise digging requirements.

LOWER MAINTENANCE COSTS

Extended and synchronized maintenance intervals help you get more done at a lower cost compared to the previous model.

LATEST FEATURES



Cab Monitor Improvements

- Continuously improved user interface allows for intuitive navigation, minimizing performance interruption with the easy-to-use touchscreen menu.
- Smaller app tiles to view more apps in one screen.
- When navigating the menu, scroll position will be remembered.
- While menu is shown and lever is moved, camera view will be shown.
- Use the in-monitor QR code to learn about machine and technology features through a full suite of “how-to” videos.

*Not all features are available in all regions. Please check with your local Cat dealer for specific offering availability in your area.
Build Number: 07H*

PERFORMANCE WITH LESS FUEL

- Match the excavator to the job using power modes; let Smart mode automatically match 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.
- Meets Brazil MAR-1 emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA.
- Add auxiliary hydraulics to do more work with a range of Cat attachments.
- Don't let the temperature stop you from working. The excavator has a standard high ambient temperature capability of 52° C (125° F) and cold start capability of -32° C (-25° F).



LOWER MAINTENANCE COSTS



- Expect lower maintenance costs compared to the 320D2 GC.
- Do all daily maintenance at ground level.
- Boost productivity with proactive service reminders. The integrated vehicle health management system alerts the operator with step-by-step service guidance along with parts needed so you don't experience any unnecessary downtime.
- Check engine oil level quickly and safely with the latest 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.
- No required maintenance on the Cat Clean Emissions Module.
- Using Cat genuine oil and filters and doing your typical Scheduled Oil Sampling (S-O-SSM) monitoring will extend the current service interval to 1,000 hours, giving you greater uptime to do more work.
- The latest hydraulic oil filter offers high-quality filtration performance, features anti-drain valves to keep the oil clean when the filter is replaced, and provides an extended 3,000-hour replacement interval for efficiency and convenience.
- The high-efficiency electric cooling fans only run when needed and reverse to keep cores free from debris.
- S-O-S ports simplify maintenance and allow for quick, easy extraction of samples for fluid analysis.

RELIABILITY YOU CAN COUNT ON

- 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.



SAFELY HOME EVERY DAY



- Access 100% 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 Rollover Protective Structure (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 rear view camera is standard, and a right-side-view camera is optional.
- The latest 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.
- Enhance jobsite safety. Add a swing alarm to alert people when you're rotating from trench to stockpile and back again.
- Make service work easier with optional inspection lighting. With the flip of a switch, lights will illuminate the engine, pump, battery, and radiator compartments to enhance visibility.

SIMPLE TO OPERATE

- Start the engine with a push button; use a Bluetooth® key fob, 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.
- Continuously improved user interface allows for intuitive navigation, minimizing performance interruption with the easy-to-use touchscreen menu.
- Use the in-monitor QR code to learn about machine and technology features through a full suite of “how-to” videos.
- Protect your hammer tool from overheating and rapid wear. Auto hammer stop warns you after 15 seconds of continuous firing and then automatically shuts it off after 30 seconds – all to extend the tool’s service life.
- The Cat PL161 Attachment Locator is a Bluetooth device that makes finding your attachments and other gear quick and easy.



WORK IN COMFORT



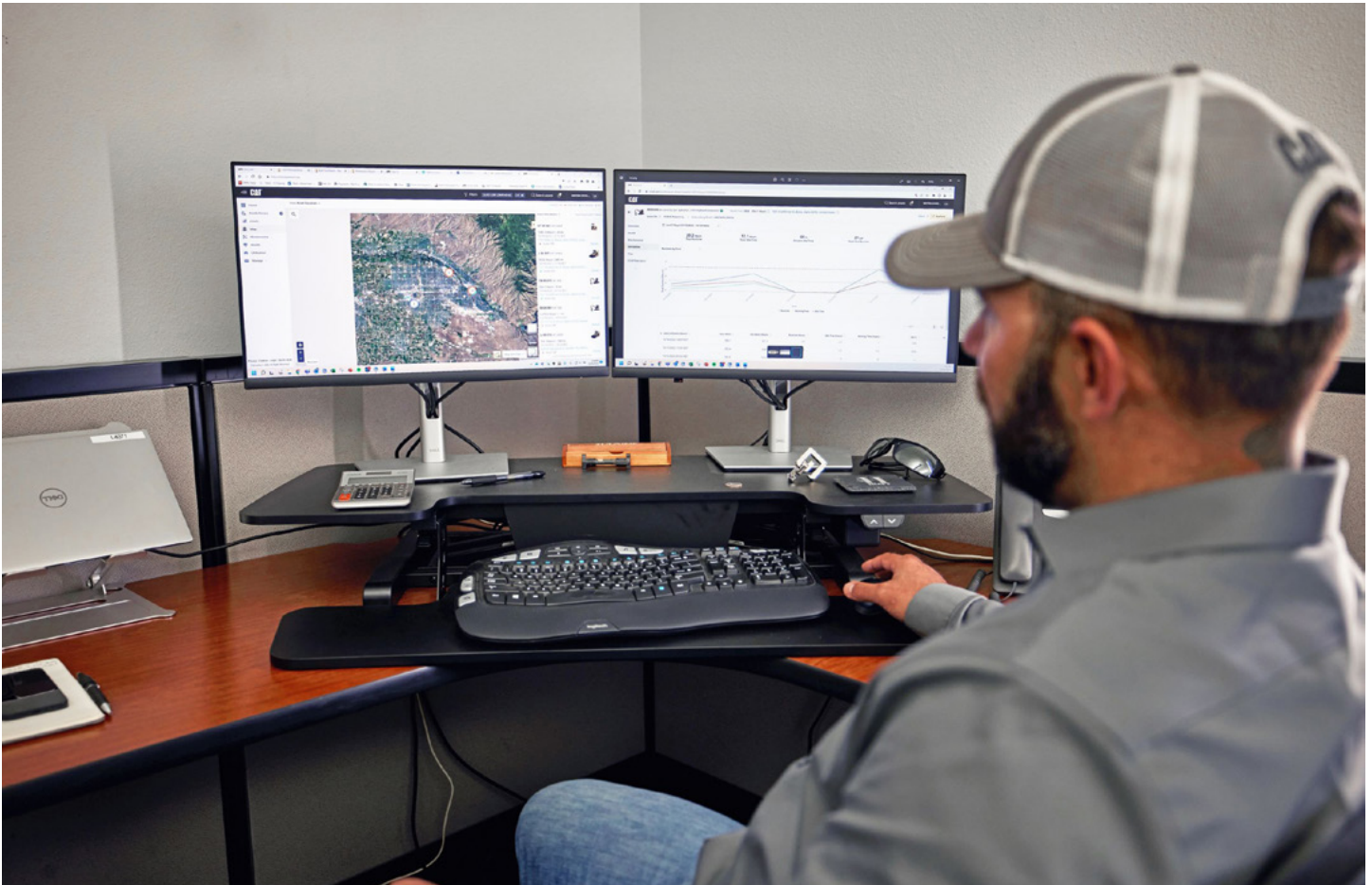
- The Comfort cab has a wide seat that adjusts for operators of all sizes.
- Control the excavator comfortably with easy-to-reach controls all located in front of you.
- Standard automatic climate control keeps you at the right temperature all shift long.
- Advanced viscous mounts reduce cab vibration.
- 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.



TAKE THE GUESSWORK OUT OF MANAGING YOUR EQUIPMENT

- VisionLink® provides actionable data insights for all assets – regardless of fleet size or equipment manufacturer.* Review equipment data from your desktop or mobile device to maximize uptime and optimize assets. Dashboards provide information such as hours, miles, location, idle time, and fuel utilization. Make informed decisions that lower costs, simplify maintenance, and improve safety and security on your jobsite.
- VisionLink Productivity gathers and summarizes machine telematics and jobsite data from all your equipment – regardless of the manufacturer.* View actionable information such as idle time, fuel burn, location, payload, load counts, total cycles, and more to improve machine efficiency, productivity, and utilization. Access data anywhere via a mobile, tablet, or desktop device – on or off the jobsite.
- Remote Flash is a mobile application that allows you to update onboard software without a technician being present, allowing you to initiate software updates when convenient, increasing your overall operating efficiency.

** Data field availability can vary by equipment manufacturer.*



MORE THAN MACHINES

BUILT AROUND YOUR SUCCESS

When you buy Cat equipment, you get so much more than the machine. You also get the support of a world-class dealer network, backed by a range of flexible solutions, technology, tools, and more.



CUSTOMER VALUE AGREEMENTS

A Customer Value Agreement (CVA) from your Cat dealer helps you do more and worry less. A CVA simplifies machine ownership and maintenance, adds the security of expert dealer support, and gives you the peace of mind from effective equipment health management.

GENUINE CAT PARTS

Genuine Cat parts deliver the highest level of reliability and productivity. Order direct from your Cat dealer or shop online at parts.cat.com.

REPAIR OPTIONS

A broad range of repair options gives you choices that work with your needs, budget, and timeline. Every repair is performed by expert Cat technicians. You'll receive smart repair advice, a timely, accurate quote, and service that gets your machine back into action quickly.

FINANCIAL SERVICES

Count on Cat Financial to provide the best finance and extended protection solutions for your business. For more than 30 years, we have helped our customers succeed through financial service excellence.



DOZERS



SKID STEERS



MATERIAL HANDLERS



EXCAVATORS



WHEEL LOADERS

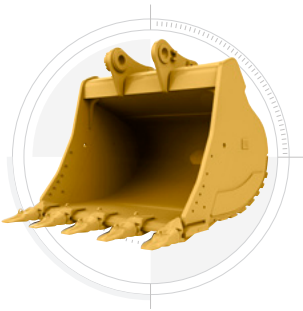


TRACK LOADERS

INCREASE YOUR PRODUCTIVITY AND PROFIT WITH CAT ATTACHMENTS

You can easily expand the performance of your machine by utilizing any of the variety of Cat attachments. Each Cat attachment is designed to fit the weight and horsepower of Cat excavators for improved performance, safety, and stability.

BUCKETS



GRAPPLES



HYDRAULIC HAMMERS



PREVENT HAMMER WEAR AND TEAR

Protect your hammer tool from overheating and rapid wear. Auto hammer stop warns you after 15 seconds of continuous firing and then automatically shuts it off after 30 seconds – all to extend the tool's service life.

MULTI-PROCESSORS



QUICK COUPLERS



RIPPERS

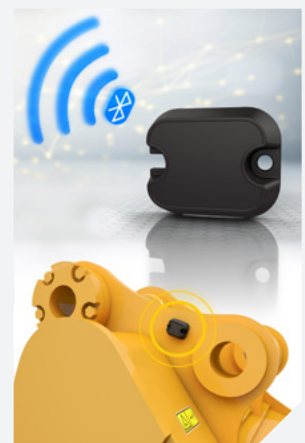


VIBRATORY PLATE COMPACTORS



ATTACHMENT TRACKING MADE EASY

The Cat® PL161 attachment locator allows you to track attachments across all worksites, helping to reduce the number of lost attachments and plan for attachment maintenance and replacement.



TECHNICAL SPECIFICATIONS

Engine

| | | |
|--------------------------------|---|---------|
| Net Power – ISO 9249 | 107 kW | 143 hp |
| Net Power – ISO 9249 (DIN) | 145 hp (metric) | |
| Engine Model | Cat C4.4 | |
| Engine Power – ISO 14396 | 108 kW | 145 hp |
| Engine Power – ISO 14396 (DIN) | 147 hp (metric) | |
| Bore | 105 mm | 4 in |
| Stroke | 127 mm | 5 in |
| Displacement | 4.4 L | 269 in³ |
| Biodiesel Capability | Up to B20¹ | |
| Emissions | Meets Brazil MAR-1 emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA. | |

Net power advertised is the power available at the flywheel when the engine is equipped with fan, air intake system, exhaust system, and alternator with engine speed at 2,000 rpm. Advertised power is tested per the specified standard in effect at the time of manufacture.

¹Cat engines are compatible with diesel fuel blended with the following lower-carbon intensity fuels** up to: 100% biodiesel FAME (fatty acid methyl ester)* or 100% renewable diesel, HVO (hydrotreated vegetable oil) and GTL (gas-to-liquid) fuels. Refer to guidelines for successful application. Please consult your Cat dealer or “Caterpillar Machine Fluids Recommendations” (SEBU6250) for details.

*For use of blends higher than 20% biodiesel, consult your Cat dealer.

**Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.

Hydraulic System

| | | |
|------------------------------|-------------------------|-----------|
| Main System – Maximum Flow | 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 Mechanism

| | | |
|----------------------|------------|---------------|
| Swing Speed* | 11.3 r/min | |
| Maximum Swing Torque | 74.4 kN·m | 54,900 lbf·ft |

*For CE-marked machine default value may be set lower.

Weights

| | | |
|--|-----------|-----------|
| Operating Weight | 20 400 kg | 45,000 lb |
| Medium undercarriage, Reach boom, R2.9 (9'6") stick, General Duty (GD) 1.0 m³ (1.31 yd³) bucket, 600 mm (24") triple grouser shoes, and 3.7 mt (8,200 lb) counterweight. | | |

Service Refill Capacities

| | | |
|-----------------------------------|-------|----------|
| Fuel Tank Capacity | 345 L | 86.6 gal |
| Cooling System | 25 L | 6.6 gal |
| Engine Oil | 15 L | 4 gal |
| Swing Drive – Each | 12 L | 3.2 gal |
| Final Drive – Each | 4 L | 1.1 gal |
| Hydraulic System – Including Tank | 234 L | 61.8 gal |
| Hydraulic Tank | 115 L | 30.4 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 ft |
| Handrail Height | 2950 mm | 9.8 ft |
| Shipping Length | 9530 mm | 31.3 ft |
| Tail Swing Radius | 2830 mm | 9.3 ft |
| Counterweight Clearance | 1050 mm | 3.4 ft |
| Ground Clearance | 470 mm | 1.5 ft |
| Track Length | 4250 mm | 13.9 ft |
| Length to Center of Rollers | 3450 mm | 11.3 ft |
| Track Gauge | 2380 mm | 7.8 ft |
| Transport Width | 2980 mm | 9.8 ft |

Working Ranges & 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 | 6630 mm | 21.8 ft |
| Maximum Reach at Ground Level | 9770 mm | 32.1 ft |
| Maximum Cutting Height | 9440 mm | 31 ft |
| Maximum Loading Height | 6580 mm | 21.6 ft |
| Minimum Loading Height | 2260 mm | 7.4 ft |
| Maximum Depth Cut for 2440 mm (8 ft) Level Bottom | 6460 mm | 21.2 ft |
| Maximum Vertical Wall Digging Depth | 6010 mm | 19.7 ft |
| Bucket Digging Force – ISO | 129 kN | 29,007 lbf |
| Stick Digging Force – ISO | 99 kN | 22,301 lbf |

STANDARD & OPTIONAL EQUIPMENT

NOTE: 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 | ✓ | | Boom and stick regeneration circuits | ✓ | |
| 2.5 m (8'2") Reach stick | | ✓ | Auto two-speed travel | ✓ | |
| 2.9 m (9'6") Reach stick | | ✓ | Boom and stick drift reduction valve | ✓ | |
| UNDERCARRIAGE AND STRUCTURES | | | Three button joysticks | ✓ | |
| 600 mm (24") triple grouser shoes | ✓ | | Auto warm up | | ✓ |
| Tie-down points on base frame | ✓ | | Hammer return filter circuit | | ✓ |
| 3700 kg (8,150 lb) counterweight | ✓ | | Slider joysticks | | ✓ |
| 4200 kg (9,260 lb) counterweight (Australia, New Zealand only) | ✓ | | Tool Control (two pump, one/two way high-pressure flow) | | ✓ |
| 790 mm (31") triple grouser shoes | | ✓ | Basic Tool Control (one pump, one way high-pressure flow) | | ✓ |
| CAT TECHNOLOGY | | | Quick coupler circuit | | ✓ |
| VisionLink | ✓ | | SAFETY AND SECURITY | | |
| Remote Flash | ✓ | | Auto hammer stop | ✓ | |
| VisionLink Productivity | | ✓ | Rearview camera | ✓ | |
| CAB | | | Ground-level engine shutoff switch | ✓ | |
| ROPS | ✓ | | Lockable disconnect switch | ✓ | |
| Mechanical-suspension seat | ✓ | | Right-hand handrail and hand hold | ✓ | |
| High-resolution 203 mm (8 in) LCD touchscreen monitor | ✓ | | Signaling/warning horn | ✓ | |
| Operator Protective Guards (OPG) | | ✓ | Right-hand mirror | | ✓ |
| ENGINE | | | Right-side-view camera | | ✓ |
| Cat C4.4 single turbo diesel engine | ✓ | | Swing alarm | | ✓ |
| Two selectable power modes | ✓ | | Inspection lighting | | ✓ |
| 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 pre-cleaner | ✓ | | | | |
| Reversing electric cooling fans | ✓ | | | | |
| 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 | | | | | |
| S-O-S ports | ✓ | | | | |
| Ground- and platform-level engine oil dipsticks | ✓ | | | | |
| Integrated vehicle health management system | ✓ | | | | |