



Cat[®] 330 GC

Hydraulic Excavator

The Cat[®] 330 GC Excavator balances productivity with easy-to-use controls, a new comfortable cab, reduced fuel consumption by up to 10 percent, and longer maintenance intervals that reduce maintenance costs up to 20 percent – all to give you a durable, low-cost-per-hour excavator for your applications.

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

High Performance with Lower Fuel Consumption

- Use up to 10 percent less fuel than the 330D2 Excavator in similar applications.
- The C7.1 engine can run on biodiesel up to B20 and meets China Nonroad Stage III, UNECE R96 Stage IIIA and Brazil MAR-1 emission standards, equivalent to U.S. EPA Tier 3/EU Stage IIIA.
- 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.
- 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.
- Auxiliary hydraulic options give you the versatility to use a wide range of Cat attachments.
- Standard Product Link™ collects data automatically and accurately from your assets – any type and any brand. Information such as location, hours, fuel usage, productivity, idle time, maintenance alerts, diagnostic codes, and machine health can be viewed online through web and mobile applications.

Reliable, Whatever the Environment

- Work up to 3000 m (9,840 ft) above sea level without de-rating.
- 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 –18° C (0° F). An optional –32° C (–25° F) cold start package is available.
- 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 in the All-New Cab

- The 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.
- Protect your hammer from overworking. Auto hammer stop warns you after 15 seconds of continuous firing and then automatically shuts it off after 30 seconds – all to prevent wear and tear on the attachment and excavator.
- 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.
- 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.



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Maintenance

- Expect up to 20 percent less maintenance cost than the 330D2. (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.
- Change all fuel filters at a synchronized 1,000 hours – a 100 percent increase over the 330D2 fuel 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 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 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 pillars, larger windows, and a flat engine hood design. A rearview camera is standard, and a right-side-view camera is available.
- New right 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 standard hydraulic lockout lever isolates all hydraulic and travel functions in the lowered position.
- Ground-level shut-off switch stops all fuel to the engine when activated and shuts down the machine.

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 | ✓ | | | | |
| Mechanically adjustable seat | ✓ | | | | |
| High-resolution 203 mm (8 in) LCD touchscreen monitor | ✓ | | | | |
| CAT TECHNOLOGY | | | | | |
| Cat Product Link | ✓ | | | | |
| Auto Hammer Stop | ✓ | | | | |
| 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 | ✓ | | | | |
| Auto hydraulic warm up | ✓ | | | | |
| Auto two-speed travel | ✓ | | | | |
| Boom and stick drift reduction valve | ✓ | | | | |
| Boom and stick lowering check valves | | ✓ | | | |
| Hammer return filter circuit | | ✓ | | | |
| Tool Control (two pump, one/two way high-pressure flow) | | ✓ | | | |
| Basic Tool Control (one pump, one way high-pressure flow) | | ✓ | | | |
| Quick coupler circuit | | ✓ | | | |
| BOOMS AND STICKS | | | | | |
| 6.15 m (20'2") reach boom, 3.2 m (10'6") reach stick | | | | | ✓ |
| 6.15 m (20'2") reach boom, 2.65 m (8'8") reach stick | | | | | ✓ |
| 5.55 m (18'2") mass boom, 2.5 m (8'2") mass stick | | | | | ✓ |
| UNDERCARRIAGE AND STRUCTURES | | | | | |
| 600 mm (24") triple grouser shoes | | | | | ✓ |
| 700 mm (28") triple grouser shoes | | | | | ✓ |
| 800 mm (31") triple grouser shoes | | | | | ✓ |
| Tie-down points on base frame | | | ✓ | | |
| 5800 kg (12,790 lb) counterweight | | | | | ✓ ¹ |
| 6700 kg (14,770 lb) counterweight | | | ✓ ² | | ✓ ² |
| ELECTRICAL SYSTEM | | | | | |
| Two 1,000 CCA maintenance free batteries | ✓ | | | | |
| Programmable time-delay LED working lights | ✓ | | | | |
| LED chassis light, left-hand boom light | ✓ | | | | |
| Cab lights, right-hand boom light | | | | | ✓ |
| SERVICE AND MAINTENANCE | | | | | |
| Sampling ports for Scheduled Oil Sampling (S-O-S) | ✓ | | | | |
| Ground-level and platform-level engine oil dipsticks | ✓ | | | | |
| Electric refueling pump with auto shut off | | | | | ✓ |
| SAFETY AND SECURITY | | | | | |
| Rearview camera | ✓ | | | | |
| Right-side-view camera | ✓ ³ | | | | ✓ |
| Ground-level engine shutoff switch | ✓ | | | | |
| Right-hand handrail and hand hold | ✓ | | | | |
| Signaling/warning horn | ✓ | | | | |

¹ All regions except Australia, New Zealand and China.

² Standard in Australia, New Zealand and China; Optional all other regions.

³ Australia, New Zealand and Turkey only.

Not all features are available in all regions. Please check with your local Cat dealer for specific offering availability in your area.

For additional information and additional regional offerings, refer to the Technical Specifications brochure available at www.cat.com or your Cat dealer.

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Technical Specifications

Engine

| | | |
|--------------------------|----------|---------------------|
| Engine Model | Cat C7.1 | |
| Engine Power – ISO 9249 | 158 kW | 212 hp |
| Engine Power – ISO 14396 | 159 kW | 213 hp |
| Bore | 105 mm | 4 in |
| Stroke | 135 mm | 5 in |
| Displacement | 7.01 L | 428 in ³ |

Hydraulic System

| | | |
|--|------------|-------------|
| Main System – Maximum Flow – Implement | 560 L/min | 148 gal/min |
| Maximum Pressure – Equipment | 35 000 kPa | 5,075 psi |
| Maximum Pressure – Travel | 35 000 kPa | 5,075 psi |
| Maximum Pressure – Swing | 28 400 kPa | 4,120 psi |

Weights

| | | |
|--|-----------|-----------|
| Operating Weight | 28 500 kg | 62,830 lb |
| <ul style="list-style-type: none"> • 5.8 ton (12,790 lb) counterweight, standard undercarriage, Reach boom, R3.2 (10'6") stick, HD 1.60 m³ (2.09 yd³) bucket and 800 mm (31") triple grouser shoes. | | |
| Operating Weight | 27 500 kg | 60,630 lb |
| <ul style="list-style-type: none"> • 5.8 ton (12,790 lb) counterweight, standard undercarriage, Reach boom, R3.2 (10'6") stick, HD 1.60 m³ (2.09 yd³) bucket and 600 mm (24") triple grouser shoes. | | |

Service Refill Capacities

| | | |
|-----------------------------------|-------|-----------|
| Fuel Tank | 474 L | 125.2 gal |
| Cooling System | 25 L | 6.6 gal |
| Engine Oil | 25 L | 6.6 gal |
| Swing Drive | 10 L | 2.6 gal |
| Final Drive (each) | 5.5 L | 1.5 gal |
| Hydraulic System (including tank) | 310 L | 81.9 gal |
| Hydraulic Tank | 147 L | 38.8 gal |

Dimensions

| | | |
|--------------------------------------|--|-------|
| Boom | Reach 6.15 m (20'2") | |
| Stick | Reach 3.2 m (10'6") | |
| Bucket | HD 1.60 m³ (2.09 yd³) | |
| Shipping Height (top of cab) | 3050 mm | 10'0" |
| Handrail Height | 3050 mm | 10'0" |
| Shipping Length | 10 420 mm | 34'2" |
| Tail Swing Radius | 3130 mm | 10'3" |
| Track Length to Center of Rollers | | |
| Standard Undercarriage | 3490 mm | 11'5" |
| Long Undercarriage* | 3990 mm | 13'1" |
| Ground Clearance | 490 mm | 1'7" |
| Track Gauge | | |
| Standard Undercarriage | 2390 mm | 7'10" |
| Long Undercarriage* | 2590 mm | 8'6" |
| Transport Width – 600 mm (24") Shoes | | |
| Standard Undercarriage | 2990 mm | 9'10" |
| Long Undercarriage* | 3190 mm | 10'6" |
| Transport Width – 800 mm (31") Shoes | | |
| Standard Undercarriage | 3190 mm | 10'6" |
| Counterweight Clearance | 1110 mm | 3'8" |

*Australia, New Zealand only.

Working Ranges and Forces

| | | |
|---|--|------------|
| Boom | Reach 6.15 m (20'2") | |
| Stick | Reach 3.2 m (10'6") | |
| Bucket | HD 1.60 m³ (2.09 yd³) | |
| Maximum Digging Depth | 7260 mm | 23'10" |
| Maximum Reach at Ground Level | 10 690 mm | 35'1" |
| Maximum Cutting Height | 9980 mm | 32'9" |
| Maximum Loading Height | 6930 mm | 22'9" |
| Minimum Loading Height | 2280 mm | 7'6" |
| Maximum Depth Cut for 2440 mm (8'0") Level Bottom | 7100 mm | 23'4" |
| Maximum Vertical Wall Digging Depth | 5800 mm | 19'0" |
| Bucket Digging Force (ISO) | 179 kN | 40,200 lbf |
| Stick Digging Force (ISO) | 126 kN | 28,300 lbf |



For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at www.cat.com

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Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

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