



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.
- 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.
- Find the tool you need – even if it's hidden beneath overgrowth or debris. The available Bluetooth reader can search for any work tool equipped with Cat asset tracking devices up to a range of 60 m (200 ft).



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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			BOOMS AND STICKS		
ROPS, standard sound suppression	✓		6.15 m (20'2") reach boom, 3.2 m (10'6") reach stick		✓
Mechanically adjustable seat	✓		6.15 m (20'2") reach boom, 2.65 m (8'8") reach stick		✓
High-resolution 203 mm (8 in) LCD touchscreen monitor	✓		5.55 m (18'2") mass boom, 2.5 m (8'2") mass stick		✓
CAT CONNECT TECHNOLOGY			UNDERCARRIAGE AND STRUCTURES		
Cat Product Link	✓		600 mm (24") triple grouser shoes		✓
ENGINE			700 mm (28") triple grouser shoes		✓
Two selectable power modes	✓		800 mm (31") triple grouser shoes		✓
One-touch low idle with auto engine speed control	✓		Tie-down points on base frame	✓	
Auto engine idle shutdown	✓		5800 kg (12,790 lb) counterweight		✓ ¹
52° C (125° F) high-ambient cooling capacity	✓		6700 kg (14,770 lb) counterweight	✓ ²	✓ ²
-32° C (-25° F) cold start capability		✓	ELECTRICAL SYSTEM		
Double element air filter with integrated precleaner	✓		Two 1,000 CCA maintenance free batteries	✓	
Reversing electric cooling fans	✓		Programmable time-delay LED working lights	✓	
Biodiesel capability up to B20	✓		LED chassis light, left-hand boom light	✓	
HYDRAULIC SYSTEM			Cab lights, right-hand boom light		✓
Boom and stick regeneration circuits	✓		SERVICE AND MAINTENANCE		
Auto hydraulic warm up	✓		Sampling ports for Scheduled Oil Sampling (S-O-S)	✓	
Auto two-speed travel	✓		Ground-level and platform-level engine oil dipsticks	✓	
Boom and stick drift reduction valve	✓		Electric refueling pump with auto shut off		✓
Boom and stick lowering check valves		✓	SAFETY AND SECURITY		
Hammer return filter circuit		✓	Rearview camera	✓	
Tool Control (two pump, one/two way high-pressure flow)		✓	Right-side-view camera	✓ ³	✓
Basic Tool Control (one pump, one way high-pressure flow)		✓	Ground-level engine shutoff switch	✓	
Quick coupler circuit		✓	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	
Gross Power – ISO 14396/SAE J1995	159 kW	213 hp
Net Power – ISO 9249	158 kW	212 hp
Engine RPM		
Operation	1,750 rpm	
Travel	1,750 rpm	
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

Machine Weights		
Operating Weight*	28 400 kg	62,700 lb
• Reach boom, R3.2 m (10'6") stick, HD 1.60 m ³ (2.09 yd ³) bucket, 600 mm (24") triple grouser shoes and 6700 kg (14,770 lb) counterweight.		

*Operating weight increased by 1200 kg (2,400 lb) with long undercarriage. (Australia, New Zealand only)

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
Bucket Digging Force (SAE)	157 kN	35,300 lbf
Stick Digging Force (SAE)	123 kN	27,700 lbf

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